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 #:

A9J0514

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

Table of Contents
A9J0514

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Table of Contents
A9J0514
(page 2 of 2)

APEX LABORATORIES, LLC
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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: 02/07/2020
Project: Gasco PreRD_DG 2019 – 4a-b. DOC-CAP Testing Cores
Apex Work Order Number: A9J0514

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
EPA ID: OR01039

Tuesday, January 21, 2020

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

RE: A9J0514 - 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 A9J0514, which was received by the laboratory on 10/12/2019 at 9:20:00AM.

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	3.4 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.

Apex Laboratories

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PDI-066SC-A-05-06-191011	A9J0514-18	Sediment	10/11/19 09:09	10/12/19 09:20
PDI-066SC-A-06-07-191011	A9J0514-19	Sediment	10/11/19 09:09	10/12/19 09:20
PDI-066SC-B-00-02-191011	A9J0514-28	Sediment	10/11/19 08:40	10/12/19 09:20
PDI-066SC-B-02-04-191011	A9J0514-29	Sediment	10/11/19 08:40	10/12/19 09:20
PDI-066SC-B-04-06-191011	A9J0514-30	Sediment	10/11/19 08:40	10/12/19 09:20
PDI-066SC-B-06-08-191011	A9J0514-31	Sediment	10/11/19 08:40	10/12/19 09:20
PDI-088SC-B-00-02-191011	A9J0514-32	Sediment	10/11/19 16:08	10/12/19 09:20
PDI-088SC-B-02-04-191011	A9J0514-33	Sediment	10/11/19 16:08	10/12/19 09:20
PDI-088SC-B-04-06-191011	A9J0514-34	Sediment	10/11/19 16:08	10/12/19 09:20
PDI-088SC-B-06-08-191011	A9J0514-35	Sediment	10/11/19 16:08	10/12/19 09:20
PDI-1088SC-B-04-06-191011	A9J0514-36	Sediment	10/11/19 16:08	10/12/19 09:20
PDI-092SC-B-00-02-191011	A9J0514-37	Sediment	10/11/19 12:40	10/12/19 09:20
PDI-092SC-B-02-04-191011	A9J0514-38	Sediment	10/11/19 12:40	10/12/19 09:20
PDI-092SC-B-04-06-191011	A9J0514-39	Sediment	10/11/19 12:40	10/12/19 09:20
PDI-092SC-B-06-08-191011	A9J0514-40	Sediment	10/11/19 12:40	10/12/19 09:20

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EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-066SC-A-05-06-191011 (A9J0514-18)				**Matrix: Sediment**		**Batch: 9120536**		**C-07**
Aroclor 1016	ND	1.14	2.26	ug/kg dry	1	12/12/19 09:19	EPA 8082A	Q-42
Aroclor 1221	ND	1.14	2.26	ug/kg dry	1	12/12/19 09:19	EPA 8082A	Q-42
Aroclor 1232	ND	1.14	2.26	ug/kg dry	1	12/12/19 09:19	EPA 8082A	Q-42
Aroclor 1242	ND	1.14	2.26	ug/kg dry	1	12/12/19 09:19	EPA 8082A	Q-42
Aroclor 1248	ND	1.14	2.26	ug/kg dry	1	12/12/19 09:19	EPA 8082A	Q-42
Aroclor 1254	ND	5.10	5.10	ug/kg dry	1	12/12/19 09:19	EPA 8082A	Q-42, R-02
Aroclor 1260	**8.22**	1.14	2.26	ug/kg dry	1	12/12/19 09:19	EPA 8082A	**Q-42**
Aroclor 1262	ND	1.14	2.26	ug/kg dry	1	12/12/19 09:19	EPA 8082A	Q-42
Aroclor 1268	ND	1.14	2.26	ug/kg dry	1	12/12/19 09:19	EPA 8082A	Q-42
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 70 %*		*Limits: 43-120 %*	*1*	*12/12/19 09:19*	*EPA 8082A*	
PDI-066SC-A-06-07-191011 (A9J0514-19)				**Matrix: Sediment**		**Batch: 9120536**		**C-07**
Aroclor 1016	ND	1.20	2.38	ug/kg dry	1	12/12/19 11:05	EPA 8082A	
Aroclor 1221	ND	1.20	2.38	ug/kg dry	1	12/12/19 11:05	EPA 8082A	
Aroclor 1232	ND	1.20	2.38	ug/kg dry	1	12/12/19 11:05	EPA 8082A	
Aroclor 1242	ND	1.20	2.38	ug/kg dry	1	12/12/19 11:05	EPA 8082A	
Aroclor 1248	ND	1.20	2.38	ug/kg dry	1	12/12/19 11:05	EPA 8082A	
Aroclor 1254	ND	3.57	3.57	ug/kg dry	1	12/12/19 11:05	EPA 8082A	R-02
Aroclor 1260	**9.82**	1.20	2.38	ug/kg dry	1	12/12/19 11:05	EPA 8082A	
Aroclor 1262	ND	1.20	2.38	ug/kg dry	1	12/12/19 11:05	EPA 8082A	
Aroclor 1268	ND	1.20	2.38	ug/kg dry	1	12/12/19 11:05	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 56 %*		*Limits: 43-120 %*	*1*	*12/12/19 11:05*	*EPA 8082A*	
PDI-066SC-B-00-02-191011 (A9J0514-28)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Aroclor 1016	ND	4.11	4.11	ug/kg dry	1	12/23/19 12:02	EPA 8082A	R-02
Aroclor 1221	ND	4.11	4.11	ug/kg dry	1	12/23/19 12:02	EPA 8082A	R-02
Aroclor 1232	ND	9.93	9.93	ug/kg dry	1	12/23/19 12:02	EPA 8082A	R-02
Aroclor 1242	ND	5.14	5.14	ug/kg dry	1	12/23/19 12:02	EPA 8082A	R-02
Aroclor 1248	ND	11.6	11.6	ug/kg dry	1	12/23/19 12:02	EPA 8082A	R-02
Aroclor 1254	ND	12.5	12.5	ug/kg dry	1	12/23/19 12:02	EPA 8082A	R-02
Aroclor 1260	**11.4**	1.15	2.28	ug/kg dry	1	12/23/19 12:02	EPA 8082A	
Aroclor 1262	ND	1.15	2.28	ug/kg dry	1	12/23/19 12:02	EPA 8082A	
Aroclor 1268	ND	1.15	2.28	ug/kg dry	1	12/23/19 12:02	EPA 8082A	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-066SC-B-00-02-191011 (A9J0514-28)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 39 %*	*Limits: 43-120 %*		*1*	*12/23/19 12:02*	*EPA 8082A*	*S-03*
PDI-066SC-B-02-04-191011 (A9J0514-29)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Aroclor 1016	ND	1.17	2.32	ug/kg dry	1	12/23/19 09:06	EPA 8082A	
Aroclor 1221	ND	1.17	2.32	ug/kg dry	1	12/23/19 09:06	EPA 8082A	
Aroclor 1232	ND	1.17	2.32	ug/kg dry	1	12/23/19 09:06	EPA 8082A	
Aroclor 1242	ND	1.17	2.32	ug/kg dry	1	12/23/19 09:06	EPA 8082A	
Aroclor 1248	ND	3.32	3.32	ug/kg dry	1	12/23/19 09:06	EPA 8082A	R-02
Aroclor 1254	ND	7.51	7.51	ug/kg dry	1	12/23/19 09:06	EPA 8082A	R-02
Aroclor 1260	**7.26**	1.17	2.32	ug/kg dry	1	12/23/19 09:06	EPA 8082A	
Aroclor 1262	ND	1.17	2.32	ug/kg dry	1	12/23/19 09:06	EPA 8082A	
Aroclor 1268	ND	1.17	2.32	ug/kg dry	1	12/23/19 09:06	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 46 %*	*Limits: 43-120 %*		*1*	*12/23/19 09:06*	*EPA 8082A*	
PDI-066SC-B-04-06-191011 (A9J0514-30)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Aroclor 1016	ND	1.10	2.19	ug/kg dry	1	12/23/19 09:41	EPA 8082A	
Aroclor 1221	ND	1.10	2.19	ug/kg dry	1	12/23/19 09:41	EPA 8082A	
Aroclor 1232	ND	1.10	2.19	ug/kg dry	1	12/23/19 09:41	EPA 8082A	
Aroclor 1242	ND	1.10	2.19	ug/kg dry	1	12/23/19 09:41	EPA 8082A	
Aroclor 1248	ND	1.10	2.19	ug/kg dry	1	12/23/19 09:41	EPA 8082A	
Aroclor 1254	ND	2.47	2.47	ug/kg dry	1	12/23/19 09:41	EPA 8082A	P-10, R-02
Aroclor 1260	**4.21**	1.10	2.19	ug/kg dry	1	12/23/19 09:41	EPA 8082A	**P-10**
Aroclor 1262	ND	1.10	2.19	ug/kg dry	1	12/23/19 09:41	EPA 8082A	
Aroclor 1268	ND	1.10	2.19	ug/kg dry	1	12/23/19 09:41	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 45 %*	*Limits: 43-120 %*		*1*	*12/23/19 09:41*	*EPA 8082A*	
PDI-066SC-B-06-08-191011 (A9J0514-31RE1)				**Matrix: Sediment**		**Batch: 0010436**		**C-07**
Aroclor 1016	ND	1.14	2.27	ug/kg dry	1	01/16/20 09:24	EPA 8082A	
Aroclor 1221	ND	1.14	2.27	ug/kg dry	1	01/16/20 09:24	EPA 8082A	
Aroclor 1232	ND	1.14	2.27	ug/kg dry	1	01/16/20 09:24	EPA 8082A	
Aroclor 1242	ND	1.14	2.27	ug/kg dry	1	01/16/20 09:24	EPA 8082A	
Aroclor 1248	ND	1.14	2.27	ug/kg dry	1	01/16/20 09:24	EPA 8082A	
Aroclor 1254	**3.83**	1.14	2.27	ug/kg dry	1	01/16/20 09:24	EPA 8082A	**P-10**
Aroclor 1260	**6.74**	1.14	2.27	ug/kg dry	1	01/16/20 09:24	EPA 8082A	**P-10**

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Darwin Thomas, Business Development Director

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EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-066SC-B-06-08-191011 (A9J0514-31RE1)				**Matrix: Sediment**		**Batch: 0010436**		**C-07**
Aroclor 1262	ND	1.14	2.27	ug/kg dry	1	01/16/20 09:24	EPA 8082A	
Aroclor 1268	ND	1.14	2.27	ug/kg dry	1	01/16/20 09:24	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 53 %*		*Limits: 43-120 %*	*1*	*01/16/20 09:24*	*EPA 8082A*	
PDI-088SC-B-00-02-191011 (A9J0514-32)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Aroclor 1016	ND	1.19	2.36	ug/kg dry	1	12/23/19 10:52	EPA 8082A	
Aroclor 1221	ND	1.19	2.36	ug/kg dry	1	12/23/19 10:52	EPA 8082A	
Aroclor 1232	ND	1.19	2.36	ug/kg dry	1	12/23/19 10:52	EPA 8082A	
Aroclor 1242	ND	1.19	2.36	ug/kg dry	1	12/23/19 10:52	EPA 8082A	
Aroclor 1248	ND	1.19	2.36	ug/kg dry	1	12/23/19 10:52	EPA 8082A	
Aroclor 1254	ND	17.8	17.8	ug/kg dry	1	12/23/19 10:52	EPA 8082A	R-02
Aroclor 1260	**9.56**	1.19	2.36	ug/kg dry	1	12/23/19 10:52	EPA 8082A	**P-10**
Aroclor 1262	ND	1.19	2.36	ug/kg dry	1	12/23/19 10:52	EPA 8082A	
Aroclor 1268	ND	1.19	2.36	ug/kg dry	1	12/23/19 10:52	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 65 %*		*Limits: 43-120 %*	*1*	*12/23/19 10:52*	*EPA 8082A*	
PDI-088SC-B-02-04-191011 (A9J0514-33)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Aroclor 1016	ND	1.14	2.27	ug/kg dry	1	12/23/19 11:27	EPA 8082A	
Aroclor 1221	ND	1.14	2.27	ug/kg dry	1	12/23/19 11:27	EPA 8082A	
Aroclor 1232	ND	1.14	2.27	ug/kg dry	1	12/23/19 11:27	EPA 8082A	
Aroclor 1242	ND	1.14	2.27	ug/kg dry	1	12/23/19 11:27	EPA 8082A	
Aroclor 1248	ND	1.14	2.27	ug/kg dry	1	12/23/19 11:27	EPA 8082A	
Aroclor 1254	ND	11.1	11.1	ug/kg dry	1	12/23/19 11:27	EPA 8082A	R-02
Aroclor 1260	**8.67**	1.14	2.27	ug/kg dry	1	12/23/19 11:27	EPA 8082A	**P-10**
Aroclor 1262	ND	1.14	2.27	ug/kg dry	1	12/23/19 11:27	EPA 8082A	
Aroclor 1268	ND	1.14	2.27	ug/kg dry	1	12/23/19 11:27	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 60 %*		*Limits: 43-120 %*	*1*	*12/23/19 11:27*	*EPA 8082A*	
PDI-088SC-B-04-06-191011 (A9J0514-34)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Aroclor 1016	ND	1.16	2.31	ug/kg dry	1	12/23/19 12:02	EPA 8082A	
Aroclor 1221	ND	1.16	2.31	ug/kg dry	1	12/23/19 12:02	EPA 8082A	
Aroclor 1232	ND	1.16	2.31	ug/kg dry	1	12/23/19 12:02	EPA 8082A	
Aroclor 1242	ND	1.16	2.31	ug/kg dry	1	12/23/19 12:02	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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-088SC-B-04-06-191011 (A9J0514-34)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Aroclor 1248	ND	1.16	2.31	ug/kg dry	1	12/23/19 12:02	EPA 8082A	
Aroclor 1254	ND	1.16	2.31	ug/kg dry	1	12/23/19 12:02	EPA 8082A	
Aroclor 1260	**46.0**	1.16	2.31	ug/kg dry	1	12/23/19 12:02	EPA 8082A	
Aroclor 1262	ND	1.16	2.31	ug/kg dry	1	12/23/19 12:02	EPA 8082A	
Aroclor 1268	ND	1.16	2.31	ug/kg dry	1	12/23/19 12:02	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 79 %*		*Limits: 43-120 %*	*1*	*12/23/19 12:02*	*EPA 8082A*	
PDI-088SC-B-06-08-191011 (A9J0514-35)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Aroclor 1016	ND	1.11	2.20	ug/kg dry	1	12/23/19 13:13	EPA 8082A	
Aroclor 1221	ND	1.11	2.20	ug/kg dry	1	12/23/19 13:13	EPA 8082A	
Aroclor 1232	ND	1.11	2.20	ug/kg dry	1	12/23/19 13:13	EPA 8082A	
Aroclor 1242	ND	1.11	2.20	ug/kg dry	1	12/23/19 13:13	EPA 8082A	
Aroclor 1248	ND	1.11	2.20	ug/kg dry	1	12/23/19 13:13	EPA 8082A	
Aroclor 1254	ND	1.11	2.20	ug/kg dry	1	12/23/19 13:13	EPA 8082A	
Aroclor 1260	**19.7**	1.11	2.20	ug/kg dry	1	12/23/19 13:13	EPA 8082A	
Aroclor 1262	ND	1.11	2.20	ug/kg dry	1	12/23/19 13:13	EPA 8082A	
Aroclor 1268	ND	1.11	2.20	ug/kg dry	1	12/23/19 13:13	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 61 %*		*Limits: 43-120 %*	*1*	*12/23/19 13:13*	*EPA 8082A*	
PDI-1088SC-B-04-06-191011 (A9J0514-36)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Aroclor 1016	ND	1.14	2.27	ug/kg dry	1	12/23/19 13:48	EPA 8082A	
Aroclor 1221	ND	1.14	2.27	ug/kg dry	1	12/23/19 13:48	EPA 8082A	
Aroclor 1232	ND	1.14	2.27	ug/kg dry	1	12/23/19 13:48	EPA 8082A	
Aroclor 1242	ND	1.14	2.27	ug/kg dry	1	12/23/19 13:48	EPA 8082A	
Aroclor 1248	ND	1.14	2.27	ug/kg dry	1	12/23/19 13:48	EPA 8082A	
Aroclor 1254	ND	1.14	2.27	ug/kg dry	1	12/23/19 13:48	EPA 8082A	
Aroclor 1260	**28.4**	1.14	2.27	ug/kg dry	1	12/23/19 13:48	EPA 8082A	
Aroclor 1262	ND	1.14	2.27	ug/kg dry	1	12/23/19 13:48	EPA 8082A	
Aroclor 1268	ND	1.14	2.27	ug/kg dry	1	12/23/19 13:48	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 72 %*		*Limits: 43-120 %*	*1*	*12/23/19 13:48*	*EPA 8082A*	
PDI-092SC-B-00-02-191011 (A9J0514-37RE1)				**Matrix: Sediment**		**Batch: 0010436**		**C-07**
Aroclor 1016	ND	1.13	2.25	ug/kg dry	1	01/16/20 09:59	EPA 8082A	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-092SC-B-00-02-191011 (A9J0514-37RE1)				**Matrix: Sediment**		**Batch: 0010436**		**C-07**
Aroclor 1221	ND	1.13	2.25	ug/kg dry	1	01/16/20 09:59	EPA 8082A	
Aroclor 1232	ND	1.13	2.25	ug/kg dry	1	01/16/20 09:59	EPA 8082A	
Aroclor 1242	ND	1.13	2.25	ug/kg dry	1	01/16/20 09:59	EPA 8082A	
Aroclor 1248	ND	1.13	2.25	ug/kg dry	1	01/16/20 09:59	EPA 8082A	
Aroclor 1254	**4.23**	1.13	2.25	ug/kg dry	1	01/16/20 09:59	EPA 8082A	**P-10**
Aroclor 1260	**4.97**	1.13	2.25	ug/kg dry	1	01/16/20 09:59	EPA 8082A	**P-10**
Aroclor 1262	ND	1.13	2.25	ug/kg dry	1	01/16/20 09:59	EPA 8082A	
Aroclor 1268	ND	1.13	2.25	ug/kg dry	1	01/16/20 09:59	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 56 %*		*Limits: 43-120 %*	*1*	*01/16/20 09:59*	*EPA 8082A*	
PDI-092SC-B-02-04-191011 (A9J0514-38)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Aroclor 1016	ND	1.31	2.60	ug/kg dry	1	12/23/19 14:59	EPA 8082A	
Aroclor 1221	ND	1.31	2.60	ug/kg dry	1	12/23/19 14:59	EPA 8082A	
Aroclor 1232	ND	1.31	2.60	ug/kg dry	1	12/23/19 14:59	EPA 8082A	
Aroclor 1242	ND	1.31	2.60	ug/kg dry	1	12/23/19 14:59	EPA 8082A	
Aroclor 1248	ND	1.31	2.60	ug/kg dry	1	12/23/19 14:59	EPA 8082A	
Aroclor 1254	ND	2.60	2.60	ug/kg dry	1	12/23/19 14:59	EPA 8082A	
Aroclor 1260	**5.66**	1.31	2.60	ug/kg dry	1	12/23/19 14:59	EPA 8082A	
Aroclor 1262	ND	1.31	2.60	ug/kg dry	1	12/23/19 14:59	EPA 8082A	
Aroclor 1268	ND	1.31	2.60	ug/kg dry	1	12/23/19 14:59	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 63 %*		*Limits: 43-120 %*	*1*	*12/23/19 14:59*	*EPA 8082A*	
PDI-092SC-B-04-06-191011 (A9J0514-39)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Aroclor 1016	ND	1.17	2.32	ug/kg dry	1	12/23/19 15:34	EPA 8082A	
Aroclor 1221	ND	1.17	2.32	ug/kg dry	1	12/23/19 15:34	EPA 8082A	
Aroclor 1232	ND	1.17	2.32	ug/kg dry	1	12/23/19 15:34	EPA 8082A	
Aroclor 1242	ND	1.17	2.32	ug/kg dry	1	12/23/19 15:34	EPA 8082A	
Aroclor 1248	ND	1.17	2.32	ug/kg dry	1	12/23/19 15:34	EPA 8082A	
Aroclor 1254	ND	1.17	2.32	ug/kg dry	1	12/23/19 15:34	EPA 8082A	
Aroclor 1260	ND	1.17	2.32	ug/kg dry	1	12/23/19 15:34	EPA 8082A	
Aroclor 1262	ND	1.17	2.32	ug/kg dry	1	12/23/19 15:34	EPA 8082A	
Aroclor 1268	ND	1.17	2.32	ug/kg dry	1	12/23/19 15:34	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 59 %*		*Limits: 43-120 %*	*1*	*12/23/19 15:34*	*EPA 8082A*	

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EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-092SC-B-06-08-191011 (A9J0514-40)				**Matrix: Sediment**		**Batch: 9120981**		**C-07**
Aroclor 1016	ND	1.06	2.10	ug/kg dry	1	12/23/19 16:10	EPA 8082A	
Aroclor 1221	ND	1.06	2.10	ug/kg dry	1	12/23/19 16:10	EPA 8082A	
Aroclor 1232	ND	1.06	2.10	ug/kg dry	1	12/23/19 16:10	EPA 8082A	
Aroclor 1242	ND	1.06	2.10	ug/kg dry	1	12/23/19 16:10	EPA 8082A	
Aroclor 1248	ND	1.06	2.10	ug/kg dry	1	12/23/19 16:10	EPA 8082A	
Aroclor 1254	ND	1.06	2.10	ug/kg dry	1	12/23/19 16:10	EPA 8082A	
Aroclor 1260	ND	1.06	2.10	ug/kg dry	1	12/23/19 16:10	EPA 8082A	
Aroclor 1262	ND	1.06	2.10	ug/kg dry	1	12/23/19 16:10	EPA 8082A	
Aroclor 1268	ND	1.06	2.10	ug/kg dry	1	12/23/19 16:10	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 57 %*		*Limits: 43-120 %*	*1*	*12/23/19 16:10*	*EPA 8082A*	

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-066SC-A-05-06-191011 (A9J0514-18RE1)				**Matrix: Sediment**		**Batch: 9120734**		**C-05, H-08, R-04**
2,4'-DDD	ND	21.9	21.9	ug/kg dry	5	12/20/19 21:43	EPA 8081B	R-02
2,4'-DDE	ND	16.2	16.2	ug/kg dry	5	12/20/19 21:43	EPA 8081B	
2,4'-DDT	ND	21.9	21.9	ug/kg dry	5	12/20/19 21:43	EPA 8081B	R-02
4,4'-DDD	ND	20.2	20.2	ug/kg dry	5	12/20/19 21:43	EPA 8081B	R-02
4,4'-DDE	ND	16.2	16.2	ug/kg dry	5	12/20/19 21:43	EPA 8081B	
4,4'-DDT	ND	64.8	64.8	ug/kg dry	5	12/20/19 21:43	EPA 8081B	R-02, Q-42
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 78 %*		*Limits: 42-129 %*	*5*	*12/20/19 21:43*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*101 %*		*55-130 %*	*5*	*12/20/19 21:43*	*EPA 8081B*	
PDI-066SC-A-06-07-191011 (A9J0514-19RE1)				**Matrix: Sediment**		**Batch: 9120734**		**C-05, H-08, R-04**
2,4'-DDD	ND	8.66	17.3	ug/kg dry	5	12/21/19 17:35	EPA 8081B	
2,4'-DDE	ND	8.66	17.3	ug/kg dry	5	12/21/19 17:35	EPA 8081B	
2,4'-DDT	ND	17.3	17.3	ug/kg dry	5	12/21/19 17:35	EPA 8081B	
4,4'-DDD	ND	8.66	17.3	ug/kg dry	5	12/21/19 17:35	EPA 8081B	
4,4'-DDE	ND	8.66	17.3	ug/kg dry	5	12/21/19 17:35	EPA 8081B	
4,4'-DDT	ND	23.4	23.4	ug/kg dry	5	12/21/19 17:35	EPA 8081B	R-02
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 68 %*		*Limits: 42-129 %*	*5*	*12/21/19 17:35*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*125 %*		*55-130 %*	*5*	*12/21/19 17:35*	*EPA 8081B*	
PDI-066SC-B-00-02-191011 (A9J0514-28RE1)				**Matrix: Sediment**		**Batch: 9121314**		**C-05, H-08**
2,4'-DDD	**306**	16.8	33.5	ug/kg dry	5	01/05/20 00:37	EPA 8081B	
2,4'-DDE	ND	75.4	75.4	ug/kg dry	5	01/05/20 00:37	EPA 8081B	R-02
2,4'-DDT	ND	33.5	33.5	ug/kg dry	5	01/05/20 00:37	EPA 8081B	
4,4'-DDD	**768**	16.8	33.5	ug/kg dry	5	01/05/20 00:37	EPA 8081B	
4,4'-DDE	**101**	16.8	33.5	ug/kg dry	5	01/05/20 00:37	EPA 8081B	**P-11**
4,4'-DDT	ND	43.6	43.6	ug/kg dry	5	01/05/20 00:37	EPA 8081B	R-02
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 75 %*		*Limits: 42-129 %*	*5*	*01/05/20 00:37*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*109 %*		*55-130 %*	*5*	*01/05/20 00:37*	*EPA 8081B*	
PDI-066SC-B-02-04-191011 (A9J0514-29RE1)				**Matrix: Sediment**		**Batch: 9121314**		**C-05, H-08**
2,4'-DDD	**248**	17.4	34.8	ug/kg dry	5	01/05/20 01:15	EPA 8081B	
2,4'-DDE	ND	52.2	52.2	ug/kg dry	5	01/05/20 01:15	EPA 8081B	R-02
2,4'-DDT	ND	47.0	47.0	ug/kg dry	5	01/05/20 01:15	EPA 8081B	R-02
4,4'-DDD	**527**	17.4	34.8	ug/kg dry	5	01/05/20 01:15	EPA 8081B	

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503-718-2323
EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-066SC-B-02-04-191011 (A9J0514-29RE1)				**Matrix: Sediment**		**Batch: 9121314**		**C-05, H-08**
4,4'-DDE	ND	50.4	50.4	ug/kg dry	5	01/05/20 01:15	EPA 8081B	R-02
4,4'-DDT	ND	76.5	76.5	ug/kg dry	5	01/05/20 01:15	EPA 8081B	R-02
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 71 %*	*Limits: 42-129 %*		*5*	*01/05/20 01:15*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*113 %*	*55-130 %*		*5*	*01/05/20 01:15*	*EPA 8081B*	
PDI-066SC-B-04-06-191011 (A9J0514-30RE1)				**Matrix: Sediment**		**Batch: 9121314**		**R-04, C-05, H-08**
2,4'-DDD	ND	16.1	32.2	ug/kg dry	5	01/05/20 01:52	EPA 8081B	
2,4'-DDE	ND	16.1	32.2	ug/kg dry	5	01/05/20 01:52	EPA 8081B	
2,4'-DDT	ND	16.1	32.2	ug/kg dry	5	01/05/20 01:52	EPA 8081B	
4,4'-DDD	ND	16.1	32.2	ug/kg dry	5	01/05/20 01:52	EPA 8081B	
4,4'-DDE	ND	16.1	32.2	ug/kg dry	5	01/05/20 01:52	EPA 8081B	
4,4'-DDT	ND	59.6	59.6	ug/kg dry	5	01/05/20 01:52	EPA 8081B	R-02
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 69 %*	*Limits: 42-129 %*		*5*	*01/05/20 01:52*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*109 %*	*55-130 %*		*5*	*01/05/20 01:52*	*EPA 8081B*	
PDI-066SC-B-06-08-191011 (A9J0514-31RE1)				**Matrix: Sediment**		**Batch: 9121314**		**C-05, H-08, R-04**
2,4'-DDD	ND	17.1	17.1	ug/kg dry	5	01/05/20 02:30	EPA 8081B	
2,4'-DDE	ND	8.55	17.1	ug/kg dry	5	01/05/20 02:30	EPA 8081B	
2,4'-DDT	ND	8.55	17.1	ug/kg dry	5	01/05/20 02:30	EPA 8081B	
4,4'-DDD	ND	8.55	17.1	ug/kg dry	5	01/05/20 02:30	EPA 8081B	
4,4'-DDE	ND	8.55	17.1	ug/kg dry	5	01/05/20 02:30	EPA 8081B	
4,4'-DDT	ND	21.4	21.4	ug/kg dry	5	01/05/20 02:30	EPA 8081B	R-02
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 74 %*	*Limits: 42-129 %*		*5*	*01/05/20 02:30*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*97 %*	*55-130 %*		*5*	*01/05/20 02:30*	*EPA 8081B*	
PDI-088SC-B-00-02-191011 (A9J0514-32RE1)				**Matrix: Sediment**		**Batch: 9121314**		**C-05, H-08**
2,4'-DDD	**10.1**	1.75	3.49	ug/kg dry	1	01/04/20 18:08	EPA 8081B	
2,4'-DDE	**5.53**	1.75	3.49	ug/kg dry	1	01/04/20 18:08	EPA 8081B	
2,4'-DDT	ND	3.49	3.49	ug/kg dry	1	01/04/20 18:08	EPA 8081B	
4,4'-DDD	**44.5**	1.75	3.49	ug/kg dry	1	01/04/20 18:08	EPA 8081B	
4,4'-DDE	**8.25**	1.75	3.49	ug/kg dry	1	01/04/20 18:08	EPA 8081B	**P-11**
4,4'-DDT	**30.5**	1.75	3.49	ug/kg dry	1	01/04/20 18:08	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 70 %*	*Limits: 42-129 %*		*1*	*01/04/20 18:08*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*98 %*	*55-130 %*		*1*	*01/04/20 18:08*	*EPA 8081B*	

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503-718-2323
EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-088SC-B-02-04-191011 (A9J0514-33RE1)				**Matrix: Sediment**		**Batch: 9121314**		**C-05, H-08**
2,4'-DDD	**16.9**	1.63	3.25	ug/kg dry	1	01/04/20 18:46	EPA 8081B	
2,4'-DDE	**7.64**	1.63	3.25	ug/kg dry	1	01/04/20 18:46	EPA 8081B	**P-11**
2,4'-DDT	**11.7**	1.63	3.25	ug/kg dry	1	01/04/20 18:46	EPA 8081B	
4,4'-DDD	**98.9**	1.63	3.25	ug/kg dry	1	01/04/20 18:46	EPA 8081B	
4,4'-DDE	**10.1**	1.63	3.25	ug/kg dry	1	01/04/20 18:46	EPA 8081B	**P-11**
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 56 %*	*Limits: 42-129 %*	*1*	*01/04/20 18:46*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*102 %*	*55-130 %*	*1*	*01/04/20 18:46*	*EPA 8081B*	
PDI-088SC-B-02-04-191011 (A9J0514-33RE2)				**Matrix: Sediment**		**Batch: 9121314**		**C-05, H-08**
4,4'-DDT	**575**	8.13	16.3	ug/kg dry	5	01/07/20 20:26	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 59 %*	*Limits: 42-129 %*	*5*	*01/07/20 20:26*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*106 %*	*55-130 %*	*5*	*01/07/20 20:26*	*EPA 8081B*	
PDI-088SC-B-04-06-191011 (A9J0514-34RE1)				**Matrix: Sediment**		**Batch: 9121314**		**C-05, H-08**
2,4'-DDD	**67.3**	1.68	3.36	ug/kg dry	1	01/04/20 19:23	EPA 8081B	
2,4'-DDE	**28.4**	1.68	3.36	ug/kg dry	1	01/04/20 19:23	EPA 8081B	
2,4'-DDT	ND	10.1	10.1	ug/kg dry	1	01/04/20 19:23	EPA 8081B	R-02
4,4'-DDD	**200**	1.68	3.36	ug/kg dry	1	01/04/20 19:23	EPA 8081B	
4,4'-DDE	**23.3**	1.68	3.36	ug/kg dry	1	01/04/20 19:23	EPA 8081B	**P-11**
4,4'-DDT	**108**	1.68	3.36	ug/kg dry	1	01/04/20 19:23	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 64 %*	*Limits: 42-129 %*	*1*	*01/04/20 19:23*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*93 %*	*55-130 %*	*1*	*01/04/20 19:23*	*EPA 8081B*	
PDI-088SC-B-06-08-191011 (A9J0514-35RE1)				**Matrix: Sediment**		**Batch: 9121314**		**C-05, H-08**
2,4'-DDD	**32.9**	3.34	6.67	ug/kg dry	2	01/07/20 19:49	EPA 8081B	
2,4'-DDE	ND	22.3	22.3	ug/kg dry	2	01/07/20 19:49	EPA 8081B	R-02
2,4'-DDT	ND	15.3	15.3	ug/kg dry	2	01/07/20 19:49	EPA 8081B	R-02
4,4'-DDD	**67.4**	3.34	6.67	ug/kg dry	2	01/07/20 19:49	EPA 8081B	
4,4'-DDE	ND	50.4	50.4	ug/kg dry	2	01/07/20 19:49	EPA 8081B	R-02
4,4'-DDT	ND	20.0	20.0	ug/kg dry	2	01/07/20 19:49	EPA 8081B	R-02
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 77 %*	*Limits: 42-129 %*	*2*	*01/07/20 19:49*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*117 %*	*55-130 %*	*2*	*01/07/20 19:49*	*EPA 8081B*	

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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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-1088SC-B-04-06-191011 (A9J0514-36RE1)				**Matrix: Sediment**		**Batch: 9121314**		**C-05, H-08**
2,4'-DDD	**78.1**	1.67	3.34	ug/kg dry	1	01/04/20 20:01	EPA 8081B	
2,4'-DDE	**30.9**	1.67	3.34	ug/kg dry	1	01/04/20 20:01	EPA 8081B	
2,4'-DDT	ND	10.7	10.7	ug/kg dry	1	01/04/20 20:01	EPA 8081B	R-02
4,4'-DDD	**221**	1.67	3.34	ug/kg dry	1	01/04/20 20:01	EPA 8081B	
4,4'-DDE	**25.4**	1.67	3.34	ug/kg dry	1	01/04/20 20:01	EPA 8081B	**P-11**
4,4'-DDT	**44.3**	1.67	3.34	ug/kg dry	1	01/04/20 20:01	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 75 %*		*Limits: 42-129 %*	*1*	*01/04/20 20:01*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*101 %*		*55-130 %*	*1*	*01/04/20 20:01*	*EPA 8081B*	
PDI-092SC-B-00-02-191011 (A9J0514-37RE1)				**Matrix: Sediment**		**Batch: 9121314**		**C-05, H-08**
2,4'-DDD	**23.5**	3.25	6.50	ug/kg dry	2	01/05/20 03:07	EPA 8081B	
2,4'-DDE	ND	11.0	11.0	ug/kg dry	2	01/05/20 03:07	EPA 8081B	R-02
2,4'-DDT	ND	6.50	6.50	ug/kg dry	2	01/05/20 03:07	EPA 8081B	
4,4'-DDD	**39.3**	3.25	6.50	ug/kg dry	2	01/05/20 03:07	EPA 8081B	
4,4'-DDE	ND	8.77	8.77	ug/kg dry	2	01/05/20 03:07	EPA 8081B	R-02
4,4'-DDT	ND	11.4	11.4	ug/kg dry	2	01/05/20 03:07	EPA 8081B	R-02
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 75 %*		*Limits: 42-129 %*	*2*	*01/05/20 03:07*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*120 %*		*55-130 %*	*2*	*01/05/20 03:07*	*EPA 8081B*	
PDI-092SC-B-02-04-191011 (A9J0514-38RE1)				**Matrix: Sediment**		**Batch: 9121314**		**C-05, H-08, R-04**
2,4'-DDD	ND	11.0	11.0	ug/kg dry	2	01/07/20 15:24	EPA 8081B	R-02
2,4'-DDE	ND	12.2	12.2	ug/kg dry	2	01/07/20 15:24	EPA 8081B	R-02
2,4'-DDT	ND	9.82	9.82	ug/kg dry	2	01/07/20 15:24	EPA 8081B	R-02
4,4'-DDD	ND	7.86	7.86	ug/kg dry	2	01/07/20 15:24	EPA 8081B	
4,4'-DDE	ND	10.2	10.2	ug/kg dry	2	01/07/20 15:24	EPA 8081B	R-02
4,4'-DDT	ND	13.0	13.0	ug/kg dry	2	01/07/20 15:24	EPA 8081B	R-02
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 75 %*		*Limits: 42-129 %*	*2*	*01/07/20 15:24*	*EPA 8081B*	
Decachlorobiphenyl (Surr)		*113 %*		*55-130 %*	*2*	*01/07/20 15:24*	*EPA 8081B*	
PDI-092SC-B-04-06-191011 (A9J0514-39RE1)				**Matrix: Sediment**		**Batch: 9121314**		**R-04, C-05, H-08**
2,4'-DDD	ND	19.9	19.9	ug/kg dry	2	01/07/20 16:02	EPA 8081B	R-02
2,4'-DDE	ND	20.6	20.6	ug/kg dry	2	01/07/20 16:02	EPA 8081B	R-02
2,4'-DDT	ND	19.2	19.2	ug/kg dry	2	01/07/20 16:02	EPA 8081B	R-02
4,4'-DDD	ND	10.3	10.3	ug/kg dry	2	01/07/20 16:02	EPA 8081B	R-02

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-092SC-B-04-06-191011 (A9J0514-39RE1)				**Matrix: Sediment**		**Batch: 9121314**		**R-04, C-05, H-08**
4,4'-DDE	ND	19.5	19.5	ug/kg dry	2	01/07/20 16:02	EPA 8081B	R-02
4,4'-DDT	ND	16.7	16.7	ug/kg dry	2	01/07/20 16:02	EPA 8081B	R-02
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 68 %*	*Limits: 42-129 %*		*2*	*01/07/20 16:02*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*101 %*	*55-130 %*	*2*	*01/07/20 16:02*	*EPA 8081B*	
PDI-092SC-B-06-08-191011 (A9J0514-40RE2)				**Matrix: Sediment**		**Batch: 9121314**		**R-04, C-05, H-08**
2,4'-DDD	ND	6.19	6.19	ug/kg dry	2	01/09/20 19:16	EPA 8081B	
2,4'-DDE	ND	3.10	6.19	ug/kg dry	2	01/09/20 19:16	EPA 8081B	
2,4'-DDT	ND	3.10	6.19	ug/kg dry	2	01/09/20 19:16	EPA 8081B	
4,4'-DDD	ND	3.10	6.19	ug/kg dry	2	01/09/20 19:16	EPA 8081B	
4,4'-DDE	ND	3.10	6.19	ug/kg dry	2	01/09/20 19:16	EPA 8081B	
4,4'-DDT	ND	3.10	6.19	ug/kg dry	2	01/09/20 19:16	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 69 %*	*Limits: 42-129 %*		*2*	*01/09/20 19:16*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*99 %*	*55-130 %*	*2*	*01/09/20 19:16*	*EPA 8081B*	

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-066SC-A-05-06-191011 (A9J0514-18)				**Matrix: Sediment**		**Batch: 9120555**		**H-08**
Acenaphthene	**386000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Acenaphthylene	**30500**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	**J**
Anthracene	**203000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Benz(a)anthracene	**146000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Benzo(a)pyrene	**207000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Benzo(b)fluoranthene	**174000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Benzo(k)fluoranthene	**56000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	**M-05**
Benzo(g,h,i)perylene	**174000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Chrysene	**185000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Dibenz(a,h)anthracene	ND	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Fluoranthene	**625000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Fluorene	**202000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Indeno(1,2,3-cd)pyrene	**144000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
2-Methylnaphthalene	**441000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Naphthalene	**1900000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	**B, Q-29**
Phenanthrene	**1180000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Pyrene	**710000**	21100	42100	ug/kg dry	10000	12/05/19 19:08	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)			*Recovery: %*	*Limits: 44-115 %*	*10000*	*12/05/19 19:08*	*EPA 8270D*	*S-01*
p-Terphenyl-d14 (Surr)			*%*	*54-127 %*	*10000*	*12/05/19 19:08*	*EPA 8270D*	*S-01*
PDI-066SC-A-06-07-191011 (A9J0514-19)				**Matrix: Sediment**		**Batch: 9120555**		**H-08**
Acenaphthene	**219000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
Acenaphthylene	**35100**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	**J**
Anthracene	**142000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
Benz(a)anthracene	**118000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
Benzo(a)pyrene	**171000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
Benzo(b)fluoranthene	**144000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
Benzo(k)fluoranthene	**54000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	**M-05**
Benzo(g,h,i)perylene	**136000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
Chrysene	**160000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
Dibenz(a,h)anthracene	ND	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
Fluoranthene	**518000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
Fluorene	**119000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	

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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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-066SC-A-06-07-191011 (A9J0514-19)				**Matrix: Sediment**		**Batch: 9120555**		**H-08**
Indeno(1,2,3-cd)pyrene	**121000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
2-Methylnaphthalene	**267000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
Naphthalene	**1280000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	**B, Q-29**
Phenanthrene	**877000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
Pyrene	**576000**	21800	43600	ug/kg dry	10000	12/05/19 20:45	EPA 8270D	
Surrogate: 2-Fluorobiphenyl (Surr)			*Recovery: %*	*Limits: 44-115 %*	*10000*	*12/05/19 20:45*	*EPA 8270D*	*S-01*
p-Terphenyl-d14 (Surr)			*%*	*54-127 %*	*10000*	*12/05/19 20:45*	*EPA 8270D*	*S-01*

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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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Demand Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-066SC-A-05-06-191011 (A9J0514-18)				**Matrix: Sediment**				
Batch: 9120592								
Total Organic Carbon	**11**	---	0.020	% by Weight	1	12/11/19 11:10	SM 5310 B MOD	**H-08**
PDI-066SC-A-06-07-191011 (A9J0514-19)				**Matrix: Sediment**				
Batch: 9120592								
Total Organic Carbon	**8.0**	---	0.020	% by Weight	1	12/11/19 11:52	SM 5310 B MOD	**H-08**

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-066SC-A-05-06-191011 (A9J0514-18)				**Matrix: Sediment**				
Batch: 9120506								
Total Solids	**57.8**	1.00	1.00	% by Weight	1	12/09/19 17:32	SM 2540 G	
PDI-066SC-A-06-07-191011 (A9J0514-19)				**Matrix: Sediment**				
Batch: 9120506								
Total Solids	**55.4**	1.00	1.00	% by Weight	1	12/09/19 17:32	SM 2540 G	
PDI-066SC-B-00-02-191011 (A9J0514-28)				**Matrix: Sediment**				
Batch: 9120919								
Total Solids	**57.2**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	
PDI-066SC-B-02-04-191011 (A9J0514-29)				**Matrix: Sediment**				
Batch: 9120919								
Total Solids	**56.1**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	
PDI-066SC-B-04-06-191011 (A9J0514-30)				**Matrix: Sediment**				
Batch: 9120919								
Total Solids	**59.5**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	
PDI-066SC-B-06-08-191011 (A9J0514-31)				**Matrix: Sediment**				
Batch: 9120919								
Total Solids	**57.4**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	
PDI-088SC-B-00-02-191011 (A9J0514-32)				**Matrix: Sediment**				
Batch: 9120919								
Total Solids	**55.8**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	
PDI-088SC-B-02-04-191011 (A9J0514-33)				**Matrix: Sediment**				
Batch: 9120919								
Total Solids	**57.9**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	
PDI-088SC-B-04-06-191011 (A9J0514-34)				**Matrix: Sediment**				
Batch: 9120919								
Total Solids	**57.4**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	
PDI-088SC-B-06-08-191011 (A9J0514-35)				**Matrix: Sediment**				
Batch: 9120919								

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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**	**A9J0514 - 01 21 20 1130**

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-088SC-B-06-08-191011 (A9J0514-35)				**Matrix: Sediment**				
Total Solids	**59.3**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	
PDI-1088SC-B-04-06-191011 (A9J0514-36)				**Matrix: Sediment**				
Batch: 9120919								
Total Solids	**57.8**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	
PDI-092SC-B-00-02-191011 (A9J0514-37)				**Matrix: Sediment**				
Batch: 9120919								
Total Solids	**57.5**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	
PDI-092SC-B-02-04-191011 (A9J0514-38)				**Matrix: Sediment**				
Batch: 9120919								
Total Solids	**50.4**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	
PDI-092SC-B-04-06-191011 (A9J0514-39)				**Matrix: Sediment**				
Batch: 9120919								
Total Solids	**55.8**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	
PDI-092SC-B-06-08-191011 (A9J0514-40)				**Matrix: Sediment**				
Batch: 9120919								
Total Solids	**62.7**	1.00	1.00	% by Weight	1	12/19/19 18:32	SM 2540 G	

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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]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A9J0514 - 01 21 20 1130

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 0010436 - EPA 3546							**Sediment**					
Blank (0010436-BLK1)			Prepared: 01/15/20 10:24		Analyzed: 01/16/20 08:31							**C-07**
EPA 8082A												
Aroclor 1016	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1262	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1268	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 94 %*		*Limits: 43-120 %*			*Dilution: 1x*				
LCS (0010436-BS1)			Prepared: 01/15/20 10:24		Analyzed: 01/16/20 08:49							**C-07**
EPA 8082A												
Aroclor 1016	45.4	0.670	1.33	ug/kg wet	1	83.3	---	54	47-134%	---	---	
Aroclor 1260	67.2	0.670	1.33	ug/kg wet	1	83.3	---	81	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 90 %*		*Limits: 43-120 %*			*Dilution: 1x*				
LCS Dup (0010436-BSD1)			Prepared: 01/15/20 11:34		Analyzed: 01/16/20 09:06							**C-07, Q-19**
EPA 8082A												
Aroclor 1016	53.5	0.670	1.33	ug/kg wet	1	83.3	---	64	47-134%	16	30%	
Aroclor 1260	68.8	0.670	1.33	ug/kg wet	1	83.3	---	83	53-140%	2	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 93 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Batch 0010536 - EPA 3546							**Sediment**					
Blank (0010536-BLK1)			Prepared: 01/17/20 11:12		Analyzed: 01/20/20 08:34							**C-07**
EPA 8082A												
Aroclor 1016	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

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 0010536 - EPA 3546							**Sediment**					
Blank (0010536-BLK1)			Prepared: 01/17/20 11:12		Analyzed: 01/20/20 08:34							**C-07**
Aroclor 1260	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1262	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1268	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 98 %*		*Limits: 43-120 %*			*Dilution: 1x*				
LCS (0010536-BS1)			Prepared: 01/17/20 11:12		Analyzed: 01/20/20 08:52							**C-07**
EPA 8082A												
Aroclor 1016	57.8	0.670	1.33	ug/kg wet	1	83.3	---	69	47-134%	---	---	
Aroclor 1260	73.5	0.670	1.33	ug/kg wet	1	83.3	---	88	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 106 %*		*Limits: 43-120 %*			*Dilution: 1x*				
LCS Dup (0010536-BSD1)			Prepared: 01/17/20 11:12		Analyzed: 01/20/20 09:09							**C-07, Q-19**
EPA 8082A												
Aroclor 1016	58.7	0.670	1.33	ug/kg wet	1	83.3	---	70	47-134%	1	30%	
Aroclor 1260	74.1	0.670	1.33	ug/kg wet	1	83.3	---	89	53-140%	0.8	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 100 %*		*Limits: 43-120 %*			*Dilution: 1x*				

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A9J0514 - 01 21 20 1130**

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 9120536 - EPA 3546							**Soil**					
Blank (9120536-BLK1)			Prepared: 12/05/19 07:06		Analyzed: 12/10/19 08:40							**C-07**
EPA 8082A												
Aroclor 1016	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1262	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1268	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 93 %*		*Limits: 43-120 %*			*Dilution: 1x*				
LCS (9120536-BS1)			Prepared: 12/05/19 07:06		Analyzed: 12/10/19 08:57							**C-07**
EPA 8082A												
Aroclor 1016	48.8	0.670	1.33	ug/kg wet	1	83.3	---	59	47-134%	---	---	
Aroclor 1260	63.7	0.670	1.33	ug/kg wet	1	83.3	---	76	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 93 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Matrix Spike (9120536-MS1)			Prepared: 12/05/19 07:06		Analyzed: 12/12/19 09:54							**C-07**
QC Source Sample: PDI-066SC-A-05-06-191011 (A9J0514-18)												
EPA 8082A												
Aroclor 1016	67.4	1.14	2.26	ug/kg dry	1	141	ND	48	47-134%	---	---	
Aroclor 1260	87.0	1.14	2.26	ug/kg dry	1	141	8.22	56	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 69 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Matrix Spike Dup (9120536-MSD1)			Prepared: 12/05/19 07:07		Analyzed: 12/12/19 10:29							**C-07**
QC Source Sample: PDI-066SC-A-05-06-191011 (A9J0514-18)												
EPA 8082A												
Aroclor 1016	60.0	1.14	2.26	ug/kg dry	1	142	ND	**42**	**47-134%**	12	30%	Q-01
Aroclor 1260	78.7	1.14	2.26	ug/kg dry	1	142	8.22	**50**	**53-140%**	10	30%	Q-01
Surr: Decachlorobiphenyl (Surr)			*Recovery: 65 %*		*Limits: 43-120 %*			*Dilution: 1x*				

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EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

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 9120981 - EPA 3546							**Sediment**					
Blank (9120981-BLK1)			Prepared: 12/17/19 07:16		Analyzed: 12/23/19 11:27							**C-07**
EPA 8082A												
Aroclor 1016	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1262	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1268	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 96 %*		*Limits: 43-120 %*			*Dilution: 1x*				
LCS (9120981-BS1)			Prepared: 12/17/19 07:16		Analyzed: 12/23/19 11:45							**C-07**
EPA 8082A												
Aroclor 1016	63.2	0.670	1.33	ug/kg wet	1	83.3	---	76	47-134%	---	---	
Aroclor 1260	81.5	0.670	1.33	ug/kg wet	1	83.3	---	98	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 100 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Matrix Spike (9120981-MS1)			Prepared: 12/17/19 07:16		Analyzed: 12/26/19 09:31							**C-07**
QC Source Sample: Non-SDG (A9J0553-45)												
EPA 8082A												
Aroclor 1016	104	1.16	2.30	ug/kg dry	1	144	ND	72	47-134%	---	---	
Aroclor 1260	127	1.16	2.30	ug/kg dry	1	144	17.5	76	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 82 %*		*Limits: 43-120 %*			*Dilution: 1x*				
Matrix Spike Dup (9120981-MSD1)			Prepared: 12/17/19 07:16		Analyzed: 12/26/19 10:06							**C-07**
QC Source Sample: Non-SDG (A9J0553-45)												
Aroclor 1016	106	1.18	2.33	ug/kg dry	1	146	ND	72	47-134%	2	30%	
Aroclor 1260	134	1.18	2.33	ug/kg dry	1	146	17.5	80	53-140%	6	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 84 %*		*Limits: 43-120 %*			*Dilution: 1x*				

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EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

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 9120734 - EPA 3546/3640A (GPC)							**Sediment**					
Blank (9120734-BLK1)			Prepared: 12/05/19 15:26	Analyzed: 12/13/19 17:29								**C-05**
EPA 8081B												
2,4'-DDD	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 57 %*	*Limits: 42-129 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*101 %*	*55-130 %*			*"*					
Blank (9120734-BLK2)			Prepared: 12/05/19 15:26	Analyzed: 12/20/19 12:49								**C-05**
EPA 8081B												
4,4'-DDT	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 64 %*	*Limits: 42-129 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*88 %*	*55-130 %*			*"*					
LCS (9120734-BS1)			Prepared: 12/05/19 15:26	Analyzed: 12/13/19 17:46								**C-05**
EPA 8081B												
2,4'-DDD	44.1	1.00	2.00	ug/kg wet	1	50.0	---	88	50-150%	---	---	
2,4'-DDE	40.7	1.00	2.00	ug/kg wet	1	50.0	---	81	50-150%	---	---	
2,4'-DDT	55.6	1.00	2.00	ug/kg wet	1	50.0	---	111	50-150%	---	---	
4,4'-DDD	48.1	1.00	2.00	ug/kg wet	1	50.0	---	96	50-150%	---	---	
4,4'-DDE	45.3	1.00	2.00	ug/kg wet	1	50.0	---	91	50-150%	---	---	
4,4'-DDT	66.7	1.00	2.00	ug/kg wet	1	50.0	---	133	50-150%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 62 %*	*Limits: 42-129 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*102 %*	*55-130 %*			*"*					
LCS (9120734-BS2)			Prepared: 12/05/19 15:26	Analyzed: 12/20/19 13:07								**C-05**
EPA 8081B												
4,4'-DDT	55.8	1.00	2.00	ug/kg wet	1	50.0	---	112	50-150%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 62 %*	*Limits: 42-129 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*84 %*	*55-130 %*			*"*					
Matrix Spike (9120734-MS1)			Prepared: 12/05/19 15:26	Analyzed: 12/20/19 22:21								**C-05, H-08, R-04**

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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**	**A9J0514 - 01 21 20 1130**

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 9120734 - EPA 3546/3640A (GPC)							**Sediment**					
Matrix Spike (9120734-MS1)			Prepared: 12/05/19 15:26		Analyzed: 12/20/19 22:21							**C-05, H-08, R-04**
QC Source Sample: PDI-066SC-A-05-06-191011 (A9J0514-18RE1)												
EPA 8081B												
2,4'-DDD	74.7	22.1	22.1	ug/kg dry	5	81.7	ND	91	50-150%	---	---	R-02
2,4'-DDE	93.8	16.3	16.3	ug/kg dry	5	81.7	ND	115	50-150%	---	---	
2,4'-DDT	101	22.1	22.1	ug/kg dry	5	81.7	ND	124	50-150%	---	---	R-02
4,4'-DDD	101	20.4	20.4	ug/kg dry	5	81.7	ND	124	50-150%	---	---	R-02
4,4'-DDE	94.6	16.3	16.3	ug/kg dry	5	81.7	ND	116	50-150%	---	---	
4,4'-DDT	115	65.3	65.3	ug/kg dry	5	81.7	ND	140	50-150%	---	---	R-02
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 78 %*		*Limits: 42-129 %*			*Dilution: 5x*				
Decachlorobiphenyl (Surr)			*112 %*		*55-130 %*			*"*				
Matrix Spike Dup (9120734-MSD1)			Prepared: 12/05/19 15:26		Analyzed: 12/20/19 22:58							**C-05, H-08, R-04**
QC Source Sample: PDI-066SC-A-05-06-191011 (A9J0514-18RE1)												
EPA 8081B												
2,4'-DDD	64.4	21.6	21.6	ug/kg dry	5	79.9	ND	81	50-150%	15	35%	R-02
2,4'-DDE	72.2	16.0	16.0	ug/kg dry	5	79.9	ND	90	50-150%	26	35%	
2,4'-DDT	87.4	21.6	21.6	ug/kg dry	5	79.9	ND	109	50-150%	14	35%	R-02
4,4'-DDD	77.9	20.0	20.0	ug/kg dry	5	79.9	ND	97	50-150%	26	30%	R-02
4,4'-DDE	77.9	16.0	16.0	ug/kg dry	5	79.9	ND	97	50-150%	19	30%	
4,4'-DDT	98.3	63.9	63.9	ug/kg dry	5	79.9	ND	**42**	**50-150%**	15	30%	Q-02, R-02
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 74 %*		*Limits: 42-129 %*			*Dilution: 5x*				
Decachlorobiphenyl (Surr)			*94 %*		*55-130 %*			*"*				

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6720 SW Macadam Ave. Suite 125	Project Number:	**[none]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A9J0514 - 01 21 20 1130

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 9121314 - EPA 3546/3640A (GPC)							**Sediment**					
Blank (9121314-BLK1)			Prepared: 12/17/19 14:31		Analyzed: 01/04/20 17:34							**C-05**
EPA 8081B												
2,4'-DDD	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 69 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*84 %*		*55-130 %*			*"*				
LCS (9121314-BS1)			Prepared: 12/17/19 14:31		Analyzed: 01/04/20 17:51							**C-05**
EPA 8081B												
2,4'-DDD	48.2	1.00	2.00	ug/kg wet	1	50.0	---	96	50-150%	---	---	
2,4'-DDE	43.1	1.00	2.00	ug/kg wet	1	50.0	---	86	50-150%	---	---	
2,4'-DDT	61.5	1.00	2.00	ug/kg wet	1	50.0	---	123	50-150%	---	---	
4,4'-DDD	53.2	1.00	2.00	ug/kg wet	1	50.0	---	106	50-150%	---	---	
4,4'-DDE	48.8	1.00	2.00	ug/kg wet	1	50.0	---	98	50-150%	---	---	
4,4'-DDT	65.7	1.00	2.00	ug/kg wet	1	50.0	---	131	50-150%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 66 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*89 %*		*55-130 %*			*"*				
Matrix Spike (9121314-MS1)			Prepared: 12/17/19 14:31		Analyzed: 01/04/20 23:22							**C-05, H-08**
QC Source Sample: Non-SDG (A9J0553-45RE1)												
EPA 8081B												
2,4'-DDD	158	1.72	3.45	ug/kg dry	1	86.1	74.8	96	50-130%	---	---	
2,4'-DDE	104	1.72	3.45	ug/kg dry	1	86.1	29.6	86	50-131%	---	---	
2,4'-DDT	255	8.61	8.61	ug/kg dry	1	86.1	ND	**297**	**50-150%**	---	---	Q-01, R-02
4,4'-DDD	352	1.72	3.45	ug/kg dry	1	86.1	257	111	50-150%	---	---	E
4,4'-DDE	123	1.72	3.45	ug/kg dry	1	86.1	27.0	112	50-150%	---	---	
4,4'-DDT	819	1.72	3.45	ug/kg dry	1	86.1	53.7	**888**	**50-150%**	---	---	Q-01, E
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 42 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*93 %*		*55-130 %*			*"*				

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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**	**A9J0514 - 01 21 20 1130**

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 9121314 - EPA 3546/3640A (GPC)							**Sediment**					
Matrix Spike Dup (9121314-MSD1)			Prepared: 12/17/19 14:31		Analyzed: 01/04/20 23:59							**C-05, H-08**
QC Source Sample: Non-SDG (A9J0553-45RE1)												
2,4'-DDD	206	1.73	3.46	ug/kg dry	1	86.6	74.8	**151**	**50-150%**	26	35%	Q-01
2,4'-DDE	131	1.73	3.46	ug/kg dry	1	86.6	29.6	118	50-150%	23	35%	
2,4'-DDT	106	8.66	8.66	ug/kg dry	1	86.6	ND	122	50-150%	**83**	**35%**	Q-01, R-02
4,4'-DDD	430	1.73	3.46	ug/kg dry	1	86.6	257	**200**	**50-150%**	20	30%	E, Q-01
4,4'-DDE	149	1.73	3.46	ug/kg dry	1	86.6	27.0	141	50-150%	19	30%	
4,4'-DDT	160	1.73	3.46	ug/kg dry	1	86.6	53.7	123	50-150%	**135**	**30%**	Q-01
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 59 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*106 %*		*55-130 %*			*"*				

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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]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A9J0514 - 01 21 20 1130

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9120555 - EPA 3546							**Sediment**					
Blank (9120555-BLK1)			Prepared: 12/05/19 10:22		Analyzed: 12/05/19 16:27							
EPA 8270D												
Acenaphthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	**6.61**	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	B, Q-29
Phenanthrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 91 %*		*Limits: 44-115 %*			*Dilution: 1x*				
p-Terphenyl-d14 (Surr)			*92 %*		*54-127 %*			*"*				
LCS (9120555-BS1)			Prepared: 12/05/19 10:22		Analyzed: 12/05/19 16:59							
EPA 8270D												
Acenaphthene	19.0	1.25	2.50	ug/kg wet	1	20.0	---	95	40-122%	---	---	
Acenaphthylene	17.8	1.25	2.50	ug/kg wet	1	20.0	---	89	32-132%	---	---	
Anthracene	18.8	1.25	2.50	ug/kg wet	1	20.0	---	94	47-123%	---	---	
Benz(a)anthracene	18.8	1.25	2.50	ug/kg wet	1	20.0	---	94	49-126%	---	---	
Benzo(a)pyrene	21.2	1.25	2.50	ug/kg wet	1	20.0	---	106	45-129%	---	---	
Benzo(b)fluoranthene	21.0	1.25	2.50	ug/kg wet	1	20.0	---	105	45-132%	---	---	
Benzo(k)fluoranthene	19.2	1.25	2.50	ug/kg wet	1	20.0	---	96	47-132%	---	---	
Benzo(g,h,i)perylene	20.2	1.25	2.50	ug/kg wet	1	20.0	---	101	43-134%	---	---	
Chrysene	20.7	1.25	2.50	ug/kg wet	1	20.0	---	103	50-124%	---	---	
Dibenz(a,h)anthracene	18.3	1.25	2.50	ug/kg wet	1	20.0	---	91	45-134%	---	---	
Fluoranthene	23.4	1.25	2.50	ug/kg wet	1	20.0	---	117	50-127%	---	---	

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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]**
Portland, OR 97219	Project Manager:	**Ryan Barth**

Report ID:
A9J0514 - 01 21 20 1130

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9120555 - EPA 3546							**Sediment**					
LCS (9120555-BS1)			Prepared: 12/05/19 10:22		Analyzed: 12/05/19 16:59							
Fluorene	18.3	1.25	2.50	ug/kg wet	1	20.0	---	92	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	19.8	1.25	2.50	ug/kg wet	1	20.0	---	99	45-133%	---	---	
2-Methylnaphthalene	16.1	1.25	2.50	ug/kg wet	1	20.0	---	80	38-122%	---	---	
Naphthalene	30.3	1.25	2.50	ug/kg wet	1	20.0	---	**152**	**35-123%**	---	---	B, Q-29
Phenanthrene	22.0	1.25	2.50	ug/kg wet	1	20.0	---	110	50-121%	---	---	
Pyrene	21.0	1.25	2.50	ug/kg wet	1	20.0	---	105	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 95 %*		*Limits: 44-115 %*			*Dilution: 1x*				
p-Terphenyl-d14 (Surr)			*89 %*		*54-127 %*			*"*				
Matrix Spike (9120555-MS1)			Prepared: 12/05/19 10:22		Analyzed: 12/05/19 19:40							**H-08**
QC Source Sample: PDI-066SC-A-05-06-191011 (A9J0514-18)												
EPA 8270D												
Acenaphthene	372000	20600	41100	ug/kg dry	10000	32.9	386000	**-42800**	**40-122%**	---	---	Q-11
Acenaphthylene	29000	20600	41100	ug/kg dry	10000	32.9	30500	**-4510**	**32-132%**	---	---	J, Q-11
Anthracene	196000	20600	41100	ug/kg dry	10000	32.9	203000	**-23100**	**47-123%**	---	---	Q-11
Benz(a)anthracene	138000	20600	41100	ug/kg dry	10000	32.9	146000	**-24000**	**49-126%**	---	---	Q-11
Benzo(a)pyrene	196000	20600	41100	ug/kg dry	10000	32.9	207000	**-32500**	**45-129%**	---	---	Q-11
Benzo(b)fluoranthene	168000	20600	41100	ug/kg dry	10000	32.9	174000	**-18700**	**45-132%**	---	---	Q-11
Benzo(k)fluoranthene	51800	20600	41100	ug/kg dry	10000	32.9	56000	**-13000**	**47-132%**	---	---	Q-11
Benzo(g,h,i)perylene	165000	20600	41100	ug/kg dry	10000	32.9	174000	**-28400**	**43-134%**	---	---	Q-11
Chrysene	179000	20600	41100	ug/kg dry	10000	32.9	185000	**-19200**	**50-124%**	---	---	Q-11
Dibenz(a,h)anthracene	ND	20600	41100	ug/kg dry	10000	32.9	ND		**45-134%**	---	---	Q-11
Fluoranthene	592000	20600	41100	ug/kg dry	10000	32.9	625000	**-101000**	**50-127%**	---	---	Q-11
Fluorene	191000	20600	41100	ug/kg dry	10000	32.9	202000	**-34400**	**43-125%**	---	---	Q-11
Indeno(1,2,3-cd)pyrene	133000	20600	41100	ug/kg dry	10000	32.9	144000	**-32400**	**45-133%**	---	---	Q-11
2-Methylnaphthalene	419000	20600	41100	ug/kg dry	10000	32.9	441000	**-67000**	**38-122%**	---	---	Q-11
Naphthalene	1840000	20600	41100	ug/kg dry	10000	32.9	1900000	**-184000**	**35-123%**	---	---	B, Q-11
Phenanthrene	1140000	20600	41100	ug/kg dry	10000	32.9	1180000	**-145000**	**50-121%**	---	---	Q-11
Pyrene	684000	20600	41100	ug/kg dry	10000	32.9	710000	**-80000**	**47-127%**	---	---	Q-11
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: %*		*Limits: 44-115 %*			*Dilution: 10000x*				S-01
p-Terphenyl-d14 (Surr)			*%*		*54-127 %*			*"*				S-01
Matrix Spike Dup (9120555-MSD1)			Prepared: 12/05/19 10:22		Analyzed: 12/05/19 20:13							**H-08**

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A9J0514 - 01 21 20 1130**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9120555 - EPA 3546							**Sediment**					
Matrix Spike Dup (9120555-MSD1)			Prepared: 12/05/19 10:22		Analyzed: 12/05/19 20:13							**H-08**
QC Source Sample: PDI-066SC-A-05-06-191011 (A9J0514-18)												
EPA 8270D												
Acenaphthene	464000	21100	42200	ug/kg dry	10000	33.7	386000	**233000**	**40-122%**	22	30%	Q-11
Acenaphthylene	36500	21100	42200	ug/kg dry	10000	33.7	30500	**17900**	**32-132%**	23	30%	J, Q-11
Anthracene	247000	21100	42200	ug/kg dry	10000	33.7	203000	**131000**	**47-123%**	23	30%	Q-11
Benz(a)anthracene	175000	21100	42200	ug/kg dry	10000	33.7	146000	**87100**	**49-126%**	24	30%	Q-11
Benzo(a)pyrene	251000	21100	42200	ug/kg dry	10000	33.7	207000	**131000**	**45-129%**	25	30%	Q-11
Benzo(b)fluoranthene	205000	21100	42200	ug/kg dry	10000	33.7	174000	**92400**	**45-132%**	20	30%	Q-11
Benzo(k)fluoranthene	73800	21100	42200	ug/kg dry	10000	33.7	56000	**52500**	**47-132%**	**35**	**30%**	Q-11
Benzo(g,h,i)perylene	209000	21100	42200	ug/kg dry	10000	33.7	174000	**103000**	**43-134%**	24	30%	Q-11
Chrysene	225000	21100	42200	ug/kg dry	10000	33.7	185000	**116000**	**50-124%**	23	30%	Q-11
Dibenz(a,h)anthracene	ND	21100	42200	ug/kg dry	10000	33.7	ND		**45-134%**		30%	Q-11
Fluoranthene	761000	21100	42200	ug/kg dry	10000	33.7	625000	**402000**	**50-127%**	25	30%	Q-11
Fluorene	241000	21100	42200	ug/kg dry	10000	33.7	202000	**116000**	**43-125%**	23	30%	Q-11
Indeno(1,2,3-cd)pyrene	173000	21100	42200	ug/kg dry	10000	33.7	144000	**86200**	**45-133%**	26	30%	Q-11
2-Methylnaphthalene	550000	21100	42200	ug/kg dry	10000	33.7	441000	**321000**	**38-122%**	27	30%	Q-11
Naphthalene	2240000	21100	42200	ug/kg dry	10000	33.7	1900000	**989000**	**35-123%**	19	30%	B, Q-11
Phenanthrene	1430000	21100	42200	ug/kg dry	10000	33.7	1180000	**735000**	**50-121%**	23	30%	Q-11
Pyrene	852000	21100	42200	ug/kg dry	10000	33.7	710000	**422000**	**47-127%**	22	30%	Q-11
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: %*		*Limits: 44-115 %*			*Dilution: 10000x*				S-01
p-Terphenyl-d14 (Surr)			*%*		*54-127 %*			*"*				S-01

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Portland, OR 97219	Project Manager: **Ryan Barth**	**A9J0514 - 01 21 20 1130**

QUALITY CONTROL (QC) SAMPLE RESULTS

Demand Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9120592 - PSEP-5310B TOC							**Soil**					
Blank (9120592-BLK1)			Prepared: 12/05/19 19:51		Analyzed: 12/11/19 10:08							
SM 5310 B MOD												
Total Organic Carbon	ND	---	0.020	% by Weight	1	---	---	---	---	---	---	
LCS (9120592-BS1)			Prepared: 12/05/19 19:51		Analyzed: 12/11/19 10:25							
SM 5310 B MOD												
Total Organic Carbon	10000	---		mg/kg	1	10000	---	101	90-110%	---	---	
Duplicate (9120592-DUP1)			Prepared: 12/05/19 19:51		Analyzed: 12/11/19 11:28							
QC Source Sample: PDI-066SC-A-05-06-191011 (A9J0514-18)												
SM 5310 B MOD												
Total Organic Carbon	**11**	---	0.020	% by Weight	1	---	11	---	---	0.5	20%	
Duplicate (9120592-DUP2)			Prepared: 12/05/19 19:51		Analyzed: 12/11/19 13:25							
QC Source Sample: Non-SDG (A9J0553-36)												
Total Organic Carbon	**0.34**	---	0.020	% by Weight	1	---	0.38	---	---	9	20%	
Duplicate (9120592-DUP3)			Prepared: 12/05/19 19:51		Analyzed: 12/11/19 14:57							
QC Source Sample: Non-SDG (A9J0558-38)												
Total Organic Carbon	**1.1**	---	0.020	% by Weight	1	---	1.1	---	---	1	20%	
Duplicate (9120592-DUP4)			Prepared: 12/05/19 19:51		Analyzed: 12/11/19 16:30							
QC Source Sample: Non-SDG (A9J0594-16)												
Total Organic Carbon	**2.4**	---	0.020	% by Weight	1	---	2.4	---	---	0.2	20%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9120506 - Total Solids (SM2540G/PSEP)							**Sediment**					
Duplicate (9120506-DUP1)			Prepared: 12/06/19 17:00		Analyzed: 12/09/19 17:32							
QC Source Sample: PDI-066SC-A-05-06-191011 (A9J0514-18)												
SM 2540 G												
Total Solids	**57.8**	1.00	1.00	% by Weight	1	---	57.8	---	---	0.03	10%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9120919 - Total Solids (SM2540G/PSEP)							**Sediment**					
Duplicate (9120919-DUP1)			Prepared: 12/14/19 09:25		Analyzed: 12/19/19 18:32							
QC Source Sample: PDI-066SC-B-00-02-191011 (A9J0514-28)												
SM 2540 G												
Total Solids	**58.0**	1.00	1.00	% by Weight	1	---	57.2	---	---	1	10%	
Duplicate (9120919-DUP2)			Prepared: 12/14/19 09:25		Analyzed: 12/19/19 18:32							
QC Source Sample: PDI-092SC-B-00-02-191011 (A9J0514-37)												
SM 2540 G												
Total Solids	**56.9**	1.00	1.00	% by Weight	1	---	57.5	---	---	1	10%	

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SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0010436							
A9J0514-31RE1	Sediment	EPA 8082A	10/11/19 08:40	01/15/20 10:24	30.58g/2mL	30g/2mL	0.98
A9J0514-37RE1	Sediment	EPA 8082A	10/11/19 12:40	01/15/20 10:24	30.84g/2mL	30g/2mL	0.97
Batch: 9120536							
A9J0514-18	Sediment	EPA 8082A	10/11/19 09:09	12/05/19 07:06	30.53g/2mL	30g/2mL	0.98
A9J0514-19	Sediment	EPA 8082A	10/11/19 09:09	12/05/19 07:06	30.33g/2mL	30g/2mL	0.99
Batch: 9120981							
A9J0514-28	Sediment	EPA 8082A	10/11/19 08:40	12/17/19 07:16	30.64g/2mL	30g/2mL	0.98
A9J0514-29	Sediment	EPA 8082A	10/11/19 08:40	12/17/19 07:16	30.63g/2mL	30g/2mL	0.98
A9J0514-30	Sediment	EPA 8082A	10/11/19 08:40	12/17/19 07:16	30.65g/2mL	30g/2mL	0.98
A9J0514-32	Sediment	EPA 8082A	10/11/19 16:08	12/17/19 07:16	30.27g/2mL	30g/2mL	0.99
A9J0514-33	Sediment	EPA 8082A	10/11/19 16:08	12/17/19 07:16	30.42g/2mL	30g/2mL	0.99
A9J0514-34	Sediment	EPA 8082A	10/11/19 16:08	12/17/19 07:16	30.09g/2mL	30g/2mL	1.00
A9J0514-35	Sediment	EPA 8082A	10/11/19 16:08	12/17/19 07:16	30.63g/2mL	30g/2mL	0.98
A9J0514-36	Sediment	EPA 8082A	10/11/19 16:08	12/17/19 07:16	30.47g/2mL	30g/2mL	0.99
A9J0514-38	Sediment	EPA 8082A	10/11/19 12:40	12/17/19 07:16	30.46g/2mL	30g/2mL	0.99
A9J0514-39	Sediment	EPA 8082A	10/11/19 12:40	12/17/19 07:16	30.77g/2mL	30g/2mL	0.98
A9J0514-40	Sediment	EPA 8082A	10/11/19 12:40	12/17/19 07:16	30.29g/2mL	30g/2mL	0.99

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9120734							
A9J0514-18RE1	Sediment	EPA 8081B	10/11/19 09:09	12/05/19 15:26	10.69g/10mL	10g/5mL	1.87
A9J0514-19RE1	Sediment	EPA 8081B	10/11/19 09:09	12/05/19 15:26	10.43g/10mL	10g/5mL	1.92
Batch: 9121314							
A9J0514-28RE1	Sediment	EPA 8081B	10/11/19 08:40	12/17/19 14:31	10.43g/20mL	10g/5mL	3.84
A9J0514-29RE1	Sediment	EPA 8081B	10/11/19 08:40	12/17/19 14:31	10.25g/20mL	10g/5mL	3.90
A9J0514-30RE1	Sediment	EPA 8081B	10/11/19 08:40	12/17/19 14:31	10.43g/20mL	10g/5mL	3.84
A9J0514-31RE1	Sediment	EPA 8081B	10/11/19 08:40	12/17/19 14:31	10.19g/10mL	10g/5mL	1.96
A9J0514-32RE1	Sediment	EPA 8081B	10/11/19 16:08	12/17/19 14:31	10.25g/10mL	10g/5mL	1.95
A9J0514-33RE1	Sediment	EPA 8081B	10/11/19 16:08	12/17/19 14:31	10.63g/10mL	10g/5mL	1.88
A9J0514-33RE2	Sediment	EPA 8081B	10/11/19 16:08	12/17/19 14:31	10.63g/10mL	10g/5mL	1.88
A9J0514-34RE1	Sediment	EPA 8081B	10/11/19 16:08	12/17/19 14:31	10.38g/10mL	10g/5mL	1.93
A9J0514-35RE1	Sediment	EPA 8081B	10/11/19 16:08	12/17/19 14:31	10.11g/10mL	10g/5mL	1.98

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**

SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9J0514-36RE1	Sediment	EPA 8081B	10/11/19 16:08	12/17/19 14:31	10.36g/10mL	10g/5mL	1.93
A9J0514-37RE1	Sediment	EPA 8081B	10/11/19 12:40	12/17/19 14:31	10.71g/10mL	10g/5mL	1.87
A9J0514-38RE1	Sediment	EPA 8081B	10/11/19 12:40	12/17/19 14:31	10.1g/10mL	10g/5mL	1.98
A9J0514-39RE1	Sediment	EPA 8081B	10/11/19 12:40	12/17/19 14:31	10.1g/10mL	10g/5mL	1.98
A9J0514-40RE2	Sediment	EPA 8081B	10/11/19 12:40	12/17/19 14:31	10.3g/10mL	10g/5mL	1.94

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9120555							
A9J0514-18	Sediment	EPA 8270D	10/11/19 09:09	12/05/19 10:22	10.27g/5mL	10g/5mL	0.97
A9J0514-19	Sediment	EPA 8270D	10/11/19 09:09	12/05/19 10:22	10.36g/5mL	10g/5mL	0.97

Demand Parameters

Prep: PSEP-5310B TOC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9120592							
A9J0514-18	Sediment	SM 5310 B MOD	10/11/19 09:09	12/05/19 19:51			NA
A9J0514-19	Sediment	SM 5310 B MOD	10/11/19 09:09	12/05/19 19:51			NA

Solid and Moisture Determinations

Prep: Total Solids (SM2540G/PSEP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9120506							
A9J0514-18	Sediment	SM 2540 G	10/11/19 09:09	12/06/19 17:00			NA
A9J0514-19	Sediment	SM 2540 G	10/11/19 09:09	12/06/19 17:00			NA
Batch: 9120919							
A9J0514-28	Sediment	SM 2540 G	10/11/19 08:40	12/14/19 09:25			NA
A9J0514-29	Sediment	SM 2540 G	10/11/19 08:40	12/14/19 09:25			NA
A9J0514-30	Sediment	SM 2540 G	10/11/19 08:40	12/14/19 09:25			NA
A9J0514-31	Sediment	SM 2540 G	10/11/19 08:40	12/14/19 09:25			NA
A9J0514-32	Sediment	SM 2540 G	10/11/19 16:08	12/14/19 09:25			NA
A9J0514-33	Sediment	SM 2540 G	10/11/19 16:08	12/14/19 09:25			NA
A9J0514-34	Sediment	SM 2540 G	10/11/19 16:08	12/14/19 09:25			NA

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A9J0514 - 01 21 20 1130**

SAMPLE PREPARATION INFORMATION

Solid and Moisture Determinations

Prep: Total Solids (SM2540G/PSEP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A9J0514-35	Sediment	SM 2540 G	10/11/19 16:08	12/14/19 09:25			NA
A9J0514-36	Sediment	SM 2540 G	10/11/19 16:08	12/14/19 09:25			NA
A9J0514-37	Sediment	SM 2540 G	10/11/19 12:40	12/14/19 09:25			NA
A9J0514-38	Sediment	SM 2540 G	10/11/19 12:40	12/14/19 09:25			NA
A9J0514-39	Sediment	SM 2540 G	10/11/19 12:40	12/14/19 09:25			NA
A9J0514-40	Sediment	SM 2540 G	10/11/19 12:40	12/14/19 09:25			NA

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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.)
C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
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.
E	Estimated Value. The result is above the calibration range of the instrument.
H-08	Sample hold time extended by freezing at -18 degrees C. Total time at 4 degrees C was less than the standard hold time.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
M-05	Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
P-10	Result estimated due to the presence of multiple PCB Aroclors and/or matrix interference.
P-11	Result estimated. Secondary column confirmation does not meet method criteria due to matrix interference.
Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-02	Spike recovery is outside of established control limits due to matrix interference.
Q-11	Spike recovery cannot be accurately quantified due to sample dilution required for high analyte concentration and/or matrix interference.
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-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
R-04	Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
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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Portland, OR 97219	Project Manager:	**Ryan Barth**	**A9J0514 - 01 21 20 1130**

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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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A9J0514 - 01 21 20 1130**

LABORATORY ACCREDITATION INFORMATION

TNI 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.

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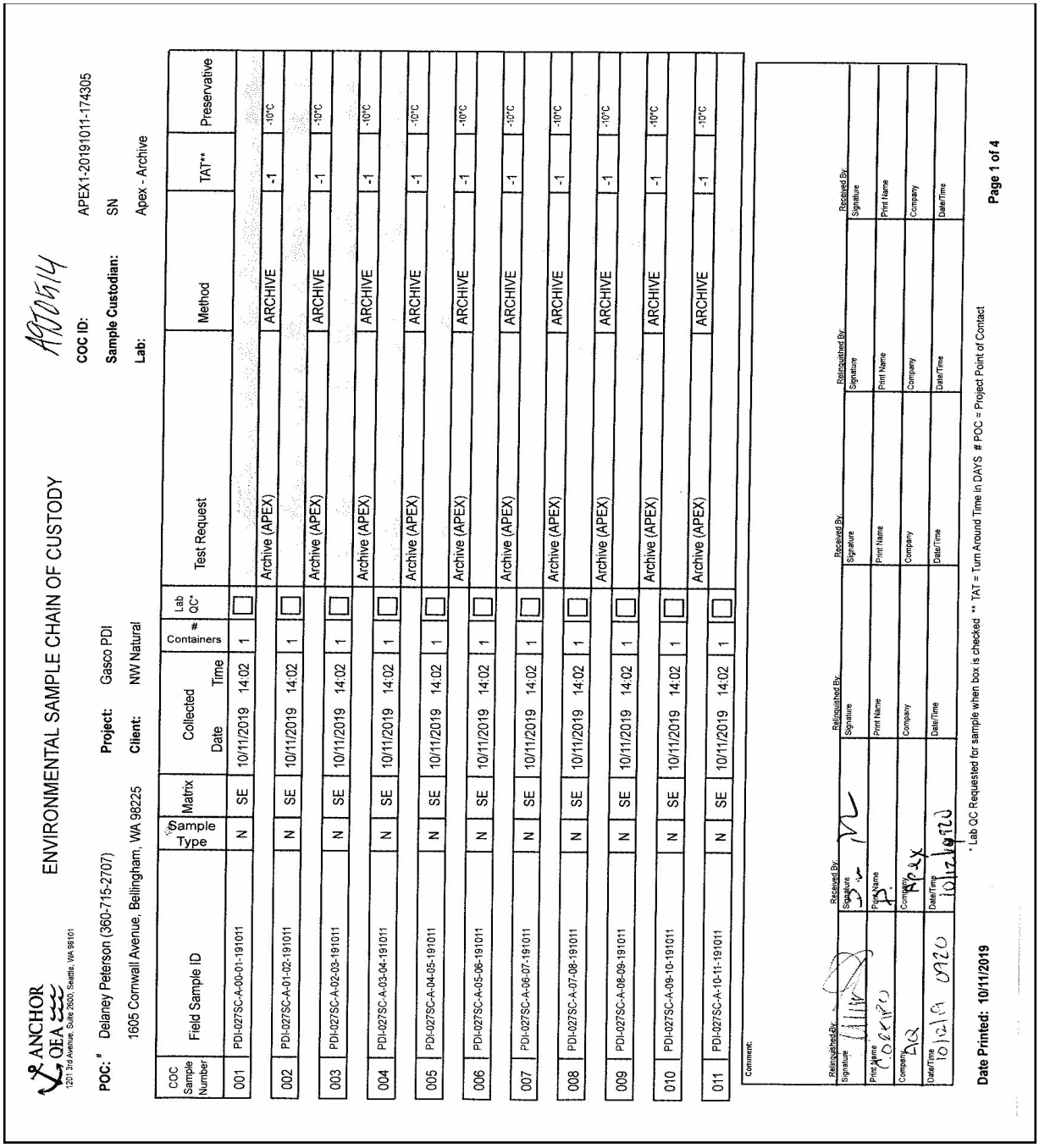
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A9J0514 - 01 21 20 1130**



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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A9J0514

POC: # Delaney Peterson (360-715-2707) Project: Gasco PDI
1605 Cornwall Avenue, Bellingham, WA 98225 Client: NW Natural

COC ID: APEX1-20191011-174305
Sample Custodian: SN
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-027SC-A-00-01-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
002	PDI-027SC-A-01-02-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
003	PDI-027SC-A-02-03-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
004	PDI-027SC-A-03-04-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
005	PDI-027SC-A-04-05-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
006	PDI-027SC-A-05-06-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
007	PDI-027SC-A-06-07-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
008	PDI-027SC-A-07-08-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
009	PDI-027SC-A-08-09-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
010	PDI-027SC-A-09-10-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
011	PDI-027SC-A-10-11-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

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

Date Printed: 10/11/2019

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

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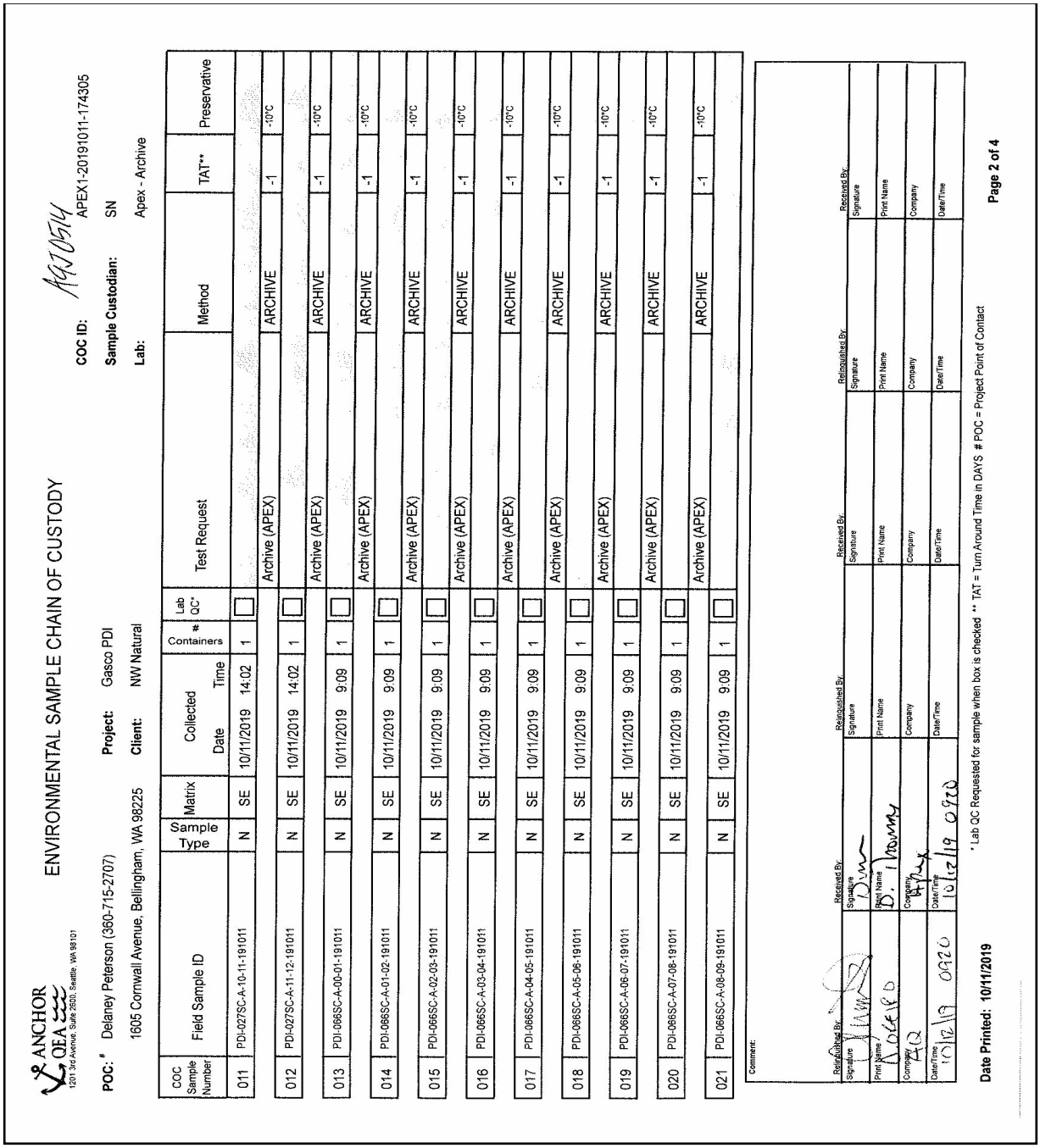
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A9J0514 - 01 21 20 1130**



ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

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

COC ID: APEX1-20191011-174305

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

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
011	PDI-027SC-A-10-11-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
012	PDI-027SC-A-11-12-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
013	PDI-066SC-A-00-01-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
014	PDI-066SC-A-01-02-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
015	PDI-066SC-A-02-03-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
016	PDI-066SC-A-03-04-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
017	PDI-066SC-A-04-05-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
018	PDI-066SC-A-05-06-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
019	PDI-066SC-A-06-07-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
020	PDI-066SC-A-07-08-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
021	PDI-066SC-A-08-09-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

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

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

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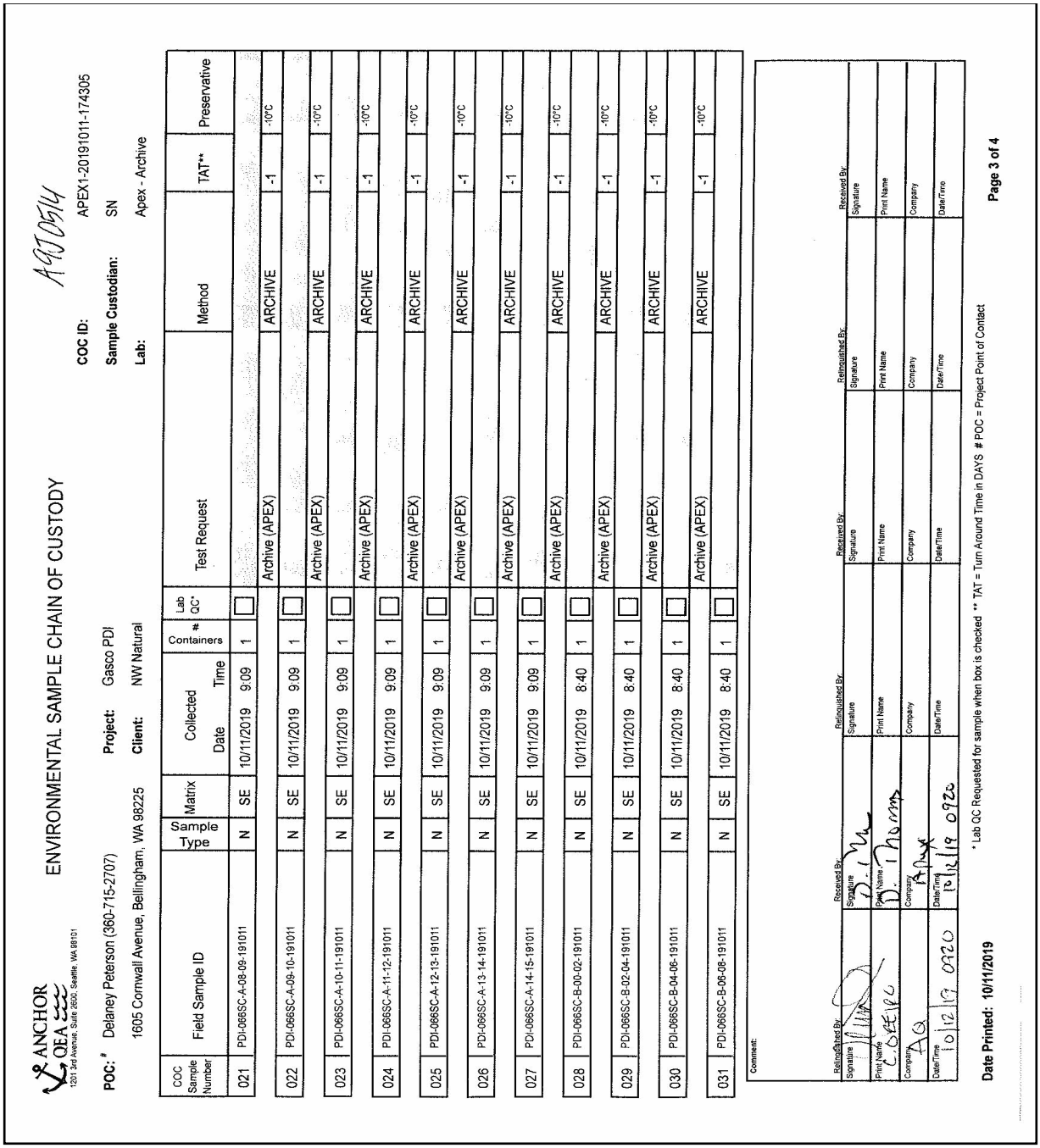
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Ryan Barth**	**A9J0514 - 01 21 20 1130**



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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A9J0514

COC ID: APEX1-20191011-174305

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

Project: Gasco PDI
Client: NW Natural

Sample Custodian: SN
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
021	PDI-066SC-A-08-09-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
022	PDI-066SC-A-09-10-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
023	PDI-066SC-A-10-11-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
024	PDI-066SC-A-11-12-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
025	PDI-066SC-A-12-13-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
026	PDI-066SC-A-13-14-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
027	PDI-066SC-A-14-15-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
028	PDI-066SC-B-00-02-191011	N	SE	10/11/2019	8:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
029	PDI-066SC-B-02-04-191011	N	SE	10/11/2019	8:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
030	PDI-066SC-B-04-06-191011	N	SE	10/11/2019	8:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
031	PDI-066SC-B-06-08-191011	N	SE	10/11/2019	8:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name: D. Thomas	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time: 10/12/19 0920	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 10/11/2019

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

Page 3 of 4

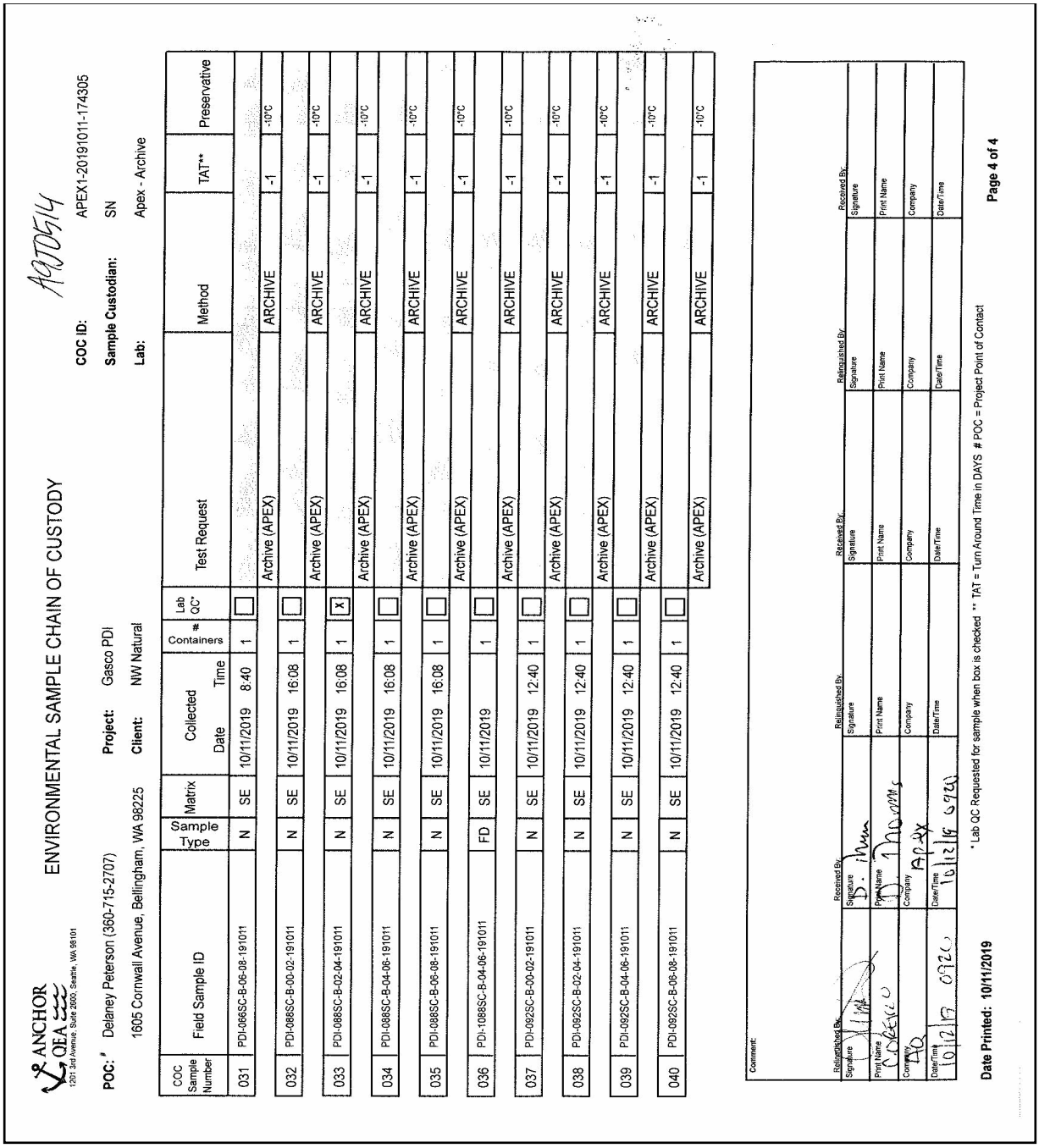
Apex Laboratories

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 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

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**	**A9J0514 - 01 21 20 1130**



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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A9J0514

COC ID: APEX1-20191011-174305

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

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
031	PDI-066SC-B-06-08-191011	N	SE	10/11/2019	8:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
032	PDI-088SC-B-00-02-191011	N	SE	10/11/2019	16:08	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
033	PDI-088SC-B-02-04-191011	N	SE	10/11/2019	16:08	1	☒	Archive (APEX)	ARCHIVE	-1	-10°C
034	PDI-088SC-B-04-06-191011	N	SE	10/11/2019	16:08	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
035	PDI-088SC-B-06-08-191011	N	SE	10/11/2019	16:08	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
036	PDI-1088SC-B-04-06-191011	FD	SE	10/11/2019		1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
037	PDI-092SC-B-00-02-191011	N	SE	10/11/2019	12:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
038	PDI-092SC-B-02-04-191011	N	SE	10/11/2019	12:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
039	PDI-092SC-B-04-06-191011	N	SE	10/11/2019	12:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
040	PDI-092SC-B-06-08-191011	N	SE	10/11/2019	12:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

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

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

Date Printed: 10/11/2019

Page 4 of 4

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

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**	**A9J0514 - 01 21 20 1130**

APEX LABS COOLER RECEIPT FORM

Client: Anchor Element WO#: A9 J0514

Project/Project #: Gasco PDI

Delivery Info:

Date/time received: 10/12/19 @ 920 By: DT

Delivered by: Apex X Client___ ESS___ FedEx___ UPS___ Swift___ Senvoy___ SDS___ Other___

Cooler Inspection Date/time inspected: 10/12/19 @ 1059 By: (8)

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)	3.4	~~0.5~~ 1.8 8O					
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition:	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: 10/15/19 @ ~~12:55~~ 11:55 kw 10/15 By: km

All samples intact? Yes X No ___ Comments:___

Bottle labels/COCs agree? Yes X No ___ Comments: No T on PDI-1088SC-B-04-06-191011, Cont reads 16:08

COC/container discrepancies form initiated? Yes ___ No ___ NA 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___No___NA X pH appropriate? Yes___No___NA X

Comments: ___

Additional information: ___

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

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)

A9J0514

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:	12/27/19 17:00 (50 day TAT)		
Received By:	Darwin Thomas	Date Received:	10/12/19 09:20
Logged In By:	Kristen R. Sherwood	Date Logged In:	10/15/19 11:12

Cooler #1 received at 3.4°C

Custody Seals	Yes	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								

Analysis	Due	TAT	Expires	Comments

A9J0514-01 PDI-027SC-A-00-01-191011 [Sediment] Sampled 10/11/19 14:02
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 14:02	

A9J0514-02 PDI-027SC-A-01-02-191011 [Sediment] Sampled 10/11/19 14:02
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 14:02	

A9J0514-03 PDI-027SC-A-02-03-191011 [Sediment] Sampled 10/11/19 14:02
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 14:02	

A9J0514-04 PDI-027SC-A-03-04-191011 [Sediment] Sampled 10/11/19 14:02
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 14:02	

A9J0514-05 PDI-027SC-A-04-05-191011 [Sediment] Sampled 10/11/19 14:02
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 14:02	

A9J0514-06 PDI-027SC-A-05-06-191011 [Sediment] Sampled 10/11/19 14:02
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 14:02	

A9J0514

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments

Analysis	Due	TAT	Expires	Comments

A9J0514-07 PDI-027SC-A-06-07-191011 [Sediment] Sampled 10/11/19 14:02
(GMT-08:00) Pacific Time (US & Canada) 1 Containers
Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 14:02

A9J0514-08 PDI-027SC-A-07-08-191011 [Sediment] Sampled 10/11/19 14:02
(GMT-08:00) Pacific Time (US & Canada) 1 Containers
Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 14:02

A9J0514-09 PDI-027SC-A-08-09-191011 [Sediment] Sampled 10/11/19 14:02
(GMT-08:00) Pacific Time (US & Canada) 1 Containers
Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 14:02

A9J0514-10 PDI-027SC-A-09-10-191011 [Sediment] Sampled 10/11/19 14:02
(GMT-08:00) Pacific Time (US & Canada) 1 Containers
Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 14:02

A9J0514-11 PDI-027SC-A-10-11-191011 [Sediment] Sampled 10/11/19 14:02
(GMT-08:00) Pacific Time (US & Canada) 1 Containers
Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 14:02

A9J0514-12 PDI-027SC-A-11-12-191011 [Sediment] Sampled 10/11/19 14:02
(GMT-08:00) Pacific Time (US & Canada) 1 Containers
Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 14:02

A9J0514-13 PDI-066SC-A-00-01-191011 [Sediment] Sampled 10/11/19 09:09
(GMT-08:00) Pacific Time (US & Canada) 1 Containers
Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09

A9J0514-14 PDI-066SC-A-01-02-191011 [Sediment] Sampled 10/11/19 09:09
(GMT-08:00) Pacific Time (US & Canada) 1 Containers
Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09

A9J0514-15 PDI-066SC-A-02-03-191011 [Sediment] Sampled 10/11/19 09:09
(GMT-08:00) Pacific Time (US & Canada) 1 Containers
Sample Control

Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09

A9J0514

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments

Analysis	Due	TAT	Expires	Comments

A9J0514-16 PDI-066SC-A-03-04-191011 [Sediment] Sampled 10/11/19 09:09 (GMT-08:00) Pacific Time (US & Canada) 1 Containers

Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09	

A9J0514-17 PDI-066SC-A-04-05-191011 [Sediment] Sampled 10/11/19 09:09 (GMT-08:00) Pacific Time (US & Canada) 1 Containers

Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09	

A9J0514-18 PDI-066SC-A-05-06-191011 [Sediment] Sampled 10/11/19 09:09 (GMT-08:00) Pacific Time (US & Canada) 1 Containers

Dry Weight				
Dry Weight	12/16/19 17:00	3	04/08/20 09:09	Use Results from TS.. Make NR once completed.
Project Mgmt				
Data Package	02/10/20 17:00	20	01/18/20 09:09	
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/16/19 17:00	10	10/25/19 09:09	MS/MSD, MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/16/19 17:00	10	10/10/20 09:09	MS/MSD, +1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	12/16/19 17:00	10	10/25/19 09:09	MS/MSD
Wet Chem				
Solids, Total (SM 2540 G,B)	12/16/19 17:00	10	04/08/20 09:09	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	12/16/19 17:00	10	11/08/19 09:09	MS/MSD

A9J0514

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments
Analysis	**Due**	**TAT**	**Expires**	**Comments**
A9J0514-19 PDI-066SC-A-06-07-191011 [Sediment] Sampled 10/11/19 09:09 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				
Dry Weight				
Dry Weight	12/16/19 17:00	3	04/08/20 09:09	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/16/19 17:00	10	10/25/19 09:09	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/16/19 17:00	10	10/10/20 09:09	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	12/16/19 17:00	10	10/25/19 09:09	
Wet Chem				
Solids, Total (SM 2540 G,B)	12/16/19 17:00	10	04/08/20 09:09	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	12/16/19 17:00	10	11/08/19 09:09	
A9J0514-20 PDI-066SC-A-07-08-191011 [Sediment] Sampled 10/11/19 09:09 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09	
A9J0514-21 PDI-066SC-A-08-09-191011 [Sediment] Sampled 10/11/19 09:09 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09	
A9J0514-22 PDI-066SC-A-09-10-191011 [Sediment] Sampled 10/11/19 09:09 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09	
A9J0514-23 PDI-066SC-A-10-11-191011 [Sediment] Sampled 10/11/19 09:09 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09	
A9J0514-24 PDI-066SC-A-11-12-191011 [Sediment] Sampled 10/11/19 09:09 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09	

A9J0514

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments

Analysis	Due	TAT	Expires	Comments

A9J0514-25 PDI-066SC-A-12-13-191011 [Sediment] Sampled 10/11/19 09:09
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09	

A9J0514-26 PDI-066SC-A-13-14-191011 [Sediment] Sampled 10/11/19 09:09
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09	

A9J0514-27 PDI-066SC-A-14-15-191011 [Sediment] Sampled 10/11/19 09:09
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 09:09	

A9J0514-28 PDI-066SC-B-00-02-191011 [Sediment] Sampled 10/11/19 08:40
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 08:40	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 08:40	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 08:40	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 08:40	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 08:40	Use Results for Dry Weight (Not for Waters)

A9J0514-29 PDI-066SC-B-02-04-191011 [Sediment] Sampled 10/11/19 08:40
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 08:40	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 08:40	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 08:40	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 08:40	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 08:40	Use Results for Dry Weight (Not for Waters)

A9J0514

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments

Analysis	Due	TAT	Expires	Comments

A9J0514-30 PDI-066SC-B-04-06-191011 [Sediment] Sampled 10/11/19 08:40
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 08:40	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 08:40	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 08:40	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 08:40	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 08:40	Use Results for Dry Weight (Not for Waters)

A9J0514-31 PDI-066SC-B-06-08-191011 [Sediment] Sampled 10/11/19 08:40
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 08:40	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 08:40	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 08:40	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 08:40	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 08:40	Use Results for Dry Weight (Not for Waters)

A9J0514-32 PDI-088SC-B-00-02-191011 [Sediment] Sampled 10/11/19 16:08
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 16:08	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 16:08	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 16:08	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 16:08	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 16:08	Use Results for Dry Weight (Not for Waters)

A9J0514

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments
Analysis	**Due**	**TAT**	**Expires**	**Comments**
A9J0514-33 PDI-088SC-B-02-04-191011 [Sediment] Sampled 10/11/19 16:08 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				
Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 16:08	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 16:08	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 16:08	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 16:08	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 16:08	Use Results for Dry Weight (Not for Waters)
A9J0514-34 PDI-088SC-B-04-06-191011 [Sediment] Sampled 10/11/19 16:08 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				
Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 16:08	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 16:08	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 16:08	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 16:08	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 16:08	Use Results for Dry Weight (Not for Waters)
A9J0514-35 PDI-088SC-B-06-08-191011 [Sediment] Sampled 10/11/19 16:08 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				
Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 16:08	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 16:08	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 16:08	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 16:08	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 16:08	Use Results for Dry Weight (Not for Waters)

A9J0514

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments
Analysis	**Due**	**TAT**	**Expires**	**Comments**
A9J0514-36 PDI-1088SC-B-04-06-191011 [Sediment] Sampled 10/11/19 16:08 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				**No T on CoC, Cont Reads 16:08**
Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 16:08	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 16:08	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 16:08	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 16:08	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 16:08	Use Results for Dry Weight (Not for Waters)
A9J0514-37 PDI-092SC-B-00-02-191011 [Sediment] Sampled 10/11/19 12:40 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				
Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 12:40	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 12:40	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 12:40	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 12:40	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 12:40	Use Results for Dry Weight (Not for Waters)
A9J0514-38 PDI-092SC-B-02-04-191011 [Sediment] Sampled 10/11/19 12:40 (GMT-08:00) Pacific Time (US & Canada) 1 Containers				
Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 12:40	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 12:40	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 12:40	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 12:40	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 12:40	Use Results for Dry Weight (Not for Waters)

A9J0514

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments

Analysis	Due	TAT	Expires	Comments

A9J0514-39 PDI-092SC-B-04-06-191011 [Sediment] Sampled 10/11/19 12:40 (GMT-08:00) Pacific Time (US & Canada) 1 Containers

Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 12:40	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 12:40	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 12:40	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 12:40	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 12:40	Use Results for Dry Weight (Not for Waters)

A9J0514-40 PDI-092SC-B-06-08-191011 [Sediment] Sampled 10/11/19 12:40 (GMT-08:00) Pacific Time (US & Canada) 1 Containers

Dry Weight				
Dry Weight	12/27/19 17:00	3	04/08/20 12:40	Use Results from TS.. Make NR once completed.
Sample Control				
Archive Samples - Frozen	10/25/19 17:00	10	10/12/19 12:40	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	12/27/19 17:00	10	10/25/19 12:40	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/27/19 17:00	10	10/10/20 12:40	+1262,1268
Wet Chem				
Solids, Total (SM 2540 G,B)	12/27/19 17:00	10	04/08/20 12:40	Use Results for Dry Weight (Not for Waters)

Reviewed By

Date

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A9J0514

COC ID: APEX1-20191011-174305

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

Project: Gasco PDI
Client: NW Natural

Sample Custodian: SN
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-027SC-A-00-01-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
002	PDI-027SC-A-01-02-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
003	PDI-027SC-A-02-03-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
004	PDI-027SC-A-03-04-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
005	PDI-027SC-A-04-05-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
006	PDI-027SC-A-05-06-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
007	PDI-027SC-A-06-07-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
008	PDI-027SC-A-07-08-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
009	PDI-027SC-A-08-09-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
010	PDI-027SC-A-09-10-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
011	PDI-027SC-A-10-11-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name CORKIN	Print Name P.	Print Name	Print Name	Print Name	Print Name
Company DQ	Company APEX	Company	Company	Company	Company
Date/Time 10/12/19 0920	Date/Time 10/12/19 0920	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 10/11/2019

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

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: AQJ0514 APEX1-20191011-174305

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

Project: Gasco PDI
Client: NW Natural

Sample Custodian: SN
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
011	PDI-027SC-A-10-11-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
012	PDI-027SC-A-11-12-191011	N	SE	10/11/2019	14:02	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
013	PDI-066SC-A-00-01-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
014	PDI-066SC-A-01-02-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
015	PDI-066SC-A-02-03-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
016	PDI-066SC-A-03-04-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
017	PDI-066SC-A-04-05-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
018	PDI-066SC-A-05-06-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
019	PDI-066SC-A-06-07-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
020	PDI-066SC-A-07-08-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
021	PDI-066SC-A-08-09-191011	N	SE	10/11/2019	9:09	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name D. OGEIRO	Print Name D. Thomas	Print Name	Print Name	Print Name	Print Name
Company AQ	Company APEX	Company	Company	Company	Company
Date/Time 10/12/19 0920	Date/Time 10/12/19 0920	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 10/11/2019

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

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A9J0514

COC ID: APEX1-20191011-174305

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

Project: Gasco PDI
Client: NW Natural

Sample Custodian: SN
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
021	PDI-066SC-A-08-09-191011	N	SE	10/11/2019	9:09	1	☐				
								Archive (APEX)	ARCHIVE	-1	-10°C
022	PDI-066SC-A-09-10-191011	N	SE	10/11/2019	9:09	1	☐				
								Archive (APEX)	ARCHIVE	-1	-10°C
023	PDI-066SC-A-10-11-191011	N	SE	10/11/2019	9:09	1	☐				
								Archive (APEX)	ARCHIVE	-1	-10°C
024	PDI-066SC-A-11-12-191011	N	SE	10/11/2019	9:09	1	☐				
								Archive (APEX)	ARCHIVE	-1	-10°C
025	PDI-066SC-A-12-13-191011	N	SE	10/11/2019	9:09	1	☐				
								Archive (APEX)	ARCHIVE	-1	-10°C
026	PDI-066SC-A-13-14-191011	N	SE	10/11/2019	9:09	1	☐				
								Archive (APEX)	ARCHIVE	-1	-10°C
027	PDI-066SC-A-14-15-191011	N	SE	10/11/2019	9:09	1	☐				
								Archive (APEX)	ARCHIVE	-1	-10°C
028	PDI-066SC-B-00-02-191011	N	SE	10/11/2019	8:40	1	☐				
								Archive (APEX)	ARCHIVE	-1	-10°C
029	PDI-066SC-B-02-04-191011	N	SE	10/11/2019	8:40	1	☐				
								Archive (APEX)	ARCHIVE	-1	-10°C
030	PDI-066SC-B-04-06-191011	N	SE	10/11/2019	8:40	1	☐				
								Archive (APEX)	ARCHIVE	-1	-10°C
031	PDI-066SC-B-06-08-191011	N	SE	10/11/2019	8:40	1	☐				

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: C. CREIPO	Print Name: D. Thomas	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company: APEX	Company	Company	Company	Company
Date/Time: 10/12/19 0920	Date/Time: 10/12/19 0920	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 10/11/2019

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

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A9J0514

COC ID: APEX1-20191011-174305

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

Project: Gasco PDI
Client: NW Natural

Sample Custodian: SN
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
031	PDI-066SC-B-06-08-191011	N	SE	10/11/2019	8:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
032	PDI-088SC-B-00-02-191011	N	SE	10/11/2019	16:08	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
033	PDI-088SC-B-02-04-191011	N	SE	10/11/2019	16:08	1	☒	Archive (APEX)	ARCHIVE	-1	-10°C
034	PDI-088SC-B-04-06-191011	N	SE	10/11/2019	16:08	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
035	PDI-088SC-B-06-08-191011	N	SE	10/11/2019	16:08	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
036	PDI-1088SC-B-04-06-191011	FD	SE	10/11/2019		1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
037	PDI-092SC-B-00-02-191011	N	SE	10/11/2019	12:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
038	PDI-092SC-B-02-04-191011	N	SE	10/11/2019	12:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
039	PDI-092SC-B-04-06-191011	N	SE	10/11/2019	12:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C
040	PDI-092SC-B-06-08-191011	N	SE	10/11/2019	12:40	1	☐	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name C. OLSEN	Print Name D. THOMAS	Print Name	Print Name	Print Name	Print Name
Company AQ	Company APEX	Company	Company	Company	Company
Date/Time 10/12/19 0920	Date/Time 10/12/19 0920	Date/Time	Date/Time	Date/Time	Date/Time

Date Printed: 10/11/2019

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

APEX LABS COOLER RECEIPT FORM

Client: Anchor Element WO#: A9 10514

Project/Project #: Gasco PDI

Delivery Info:

Date/time received: 10/12/19 @ 920 By: DT

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

Cooler Inspection Date/time inspected: 10/12/19 @ 1059 By: (SB)

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)	3.4	0.5/8 (SB)					
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition:	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) 11:55 10/10/19

Samples Inspection: Date/time inspected: 10/15/19 @ ~~12:55~~ By: KS

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes X No ___ Comments: No T on PDI-10885C-B-04-06-191011, cont needs 16:08

COC/container discrepancies form initiated? Yes ___ No ___ NA 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 ___ No ___ NA X pH appropriate? Yes ___ No ___ NA X

Comments: ___

Additional information: ___

Labeled by: KS Witness: (SB) Cooler Inspected by: ST 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: GC

METHOD: EPA 8082A

ANALYSES DATA PACKAGE COVER PAGE

EPA 8082A

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-066SC-A-05-06-191011	A9J0514-18	Sediment
PDI-066SC-A-06-07-191011	A9J0514-19	Sediment
PDI-066SC-B-00-02-191011	A9J0514-28	Sediment
PDI-066SC-B-02-04-191011	A9J0514-29	Sediment
PDI-066SC-B-04-06-191011	A9J0514-30	Sediment
PDI-066SC-B-06-08-191011	A9J0514-31	Sediment
PDI-088SC-B-00-02-191011	A9J0514-32	Sediment
PDI-088SC-B-02-04-191011	A9J0514-33	Sediment
PDI-088SC-B-04-06-191011	A9J0514-34	Sediment
PDI-088SC-B-06-08-191011	A9J0514-35	Sediment
PDI-1088SC-B-04-06-191011	A9J0514-36	Sediment
PDI-092SC-B-00-02-191011	A9J0514-37	Sediment
PDI-092SC-B-02-04-191011	A9J0514-38	Sediment
PDI-092SC-B-04-06-191011	A9J0514-39	Sediment
PDI-092SC-B-06-08-191011	A9J0514-40	Sediment

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: 1/28/2020 3:39PM
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: Sediment

Analyte	MDL	MRL	Units
Aroclor 1016	0.670	1.33	ug/kg
Aroclor 1221	0.670	1.33	ug/kg
Aroclor 1232	0.670	1.33	ug/kg
Aroclor 1242	0.670	1.33	ug/kg
Aroclor 1248	0.670	1.33	ug/kg
Aroclor 1254	0.670	1.33	ug/kg
Aroclor 1260	0.670	1.33	ug/kg
Aroclor 1262	0.670	1.33	ug/kg
Aroclor 1268	0.670	1.33	ug/kg

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

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: Soil

Analyte	MDL	MRL	Units
Aroclor 1016	0.670	1.33	ug/kg
Aroclor 1221	0.670	1.33	ug/kg
Aroclor 1232	0.670	1.33	ug/kg
Aroclor 1242	0.670	1.33	ug/kg
Aroclor 1248	0.670	1.33	ug/kg
Aroclor 1254	0.670	1.33	ug/kg
Aroclor 1260	0.670	1.33	ug/kg
Aroclor 1262	0.670	1.33	ug/kg
Aroclor 1268	0.670	1.33	ug/kg

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

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-066SC-A-05-06-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-18	File ID:	ECD2R007.D
Sampled:	10/11/19 09:09	Prepared:	12/05/19 07:06	Analyzed:	12/12/19 09:19
Solids:	57.76	Preparation:	EPA 3546	Initial/Final:	30.53 g / 2 mL
Batch:	9120536	Sequence:	9L12014	Calibration:	A9J2803
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.14	U
11104-28-2	Aroclor 1221	1	1.14	U
11141-16-5	Aroclor 1232	1	1.14	U
53469-21-9	Aroclor 1242	1	1.14	U
12672-29-6	Aroclor 1248	1	1.14	U
11097-69-1	Aroclor 1254	1	5.10	U
11096-82-5	Aroclor 1260	1	8.22	
37324-23-5	Aroclor 1262	1	1.14	U
11100-14-4	Aroclor 1268	1	1.14	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	28.4	19.8	70	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-066SC-A-06-07-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-19	File ID:	ECD2R013.D
Sampled:	10/11/19 09:09	Prepared:	12/05/19 07:06	Analyzed:	12/12/19 11:05
Solids:	55.35	Preparation:	EPA 3546	Initial/Final:	30.33 g / 2 mL
Batch:	9120536	Sequence:	9L12014	Calibration:	A9J2803
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.20	U
11104-28-2	Aroclor 1221	1	1.20	U
11141-16-5	Aroclor 1232	1	1.20	U
53469-21-9	Aroclor 1242	1	1.20	U
12672-29-6	Aroclor 1248	1	1.20	U
11097-69-1	Aroclor 1254	1	3.57	U
11096-82-5	Aroclor 1260	1	9.82	
37324-23-5	Aroclor 1262	1	1.20	U
11100-14-4	Aroclor 1268	1	1.20	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	29.8	16.8	56	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-066SC-B-00-02-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-28	File ID:	ECD2F015.D
Sampled:	10/11/19 08:40	Prepared:	12/17/19 07:16	Analyzed:	12/23/19 12:02
Solids:	57.19	Preparation:	EPA 3546	Initial/Final:	30.64 g / 2 mL
Batch:	9120981	Sequence:	9L23019	Calibration:	A9L0407
Instrument:	DUALECD2F				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	4.11	U
11104-28-2	Aroclor 1221	1	4.11	U
11141-16-5	Aroclor 1232	1	9.93	U
53469-21-9	Aroclor 1242	1	5.14	U
12672-29-6	Aroclor 1248	1	11.6	U
11097-69-1	Aroclor 1254	1	12.5	U
11096-82-5	Aroclor 1260	1	11.4	
37324-23-5	Aroclor 1262	1	1.15	U
11100-14-4	Aroclor 1268	1	1.15	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	28.5	11.0	39	43 - 120	*

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-066SC-B-02-04-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-29	File ID:	ECD2R005.D
Sampled:	10/11/19 08:40	Prepared:	12/17/19 07:16	Analyzed:	12/23/19 09:06
Solids:	56.09	Preparation:	EPA 3546	Initial/Final:	30.63 g / 2 mL
Batch:	9120981	Sequence:	9L23020	Calibration:	A9J2803
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.17	U
11104-28-2	Aroclor 1221	1	1.17	U
11141-16-5	Aroclor 1232	1	1.17	U
53469-21-9	Aroclor 1242	1	1.17	U
12672-29-6	Aroclor 1248	1	3.32	U
11097-69-1	Aroclor 1254	1	7.51	U
11096-82-5	Aroclor 1260	1	7.26	
37324-23-5	Aroclor 1262	1	1.17	U
11100-14-4	Aroclor 1268	1	1.17	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	29.1	13.3	46	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-066SC-B-04-06-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-30	File ID:	ECD2R007.D
Sampled:	10/11/19 08:40	Prepared:	12/17/19 07:16	Analyzed:	12/23/19 09:41
Solids:	59.51	Preparation:	EPA 3546	Initial/Final:	30.65 g / 2 mL
Batch:	9120981	Sequence:	9L23020	Calibration:	A9J2803
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.10	U
11104-28-2	Aroclor 1221	1	1.10	U
11141-16-5	Aroclor 1232	1	1.10	U
53469-21-9	Aroclor 1242	1	1.10	U
12672-29-6	Aroclor 1248	1	1.10	U
11097-69-1	Aroclor 1254	1	2.47	U
11096-82-5	Aroclor 1260	1	4.21	
37324-23-5	Aroclor 1262	1	1.10	U
11100-14-4	Aroclor 1268	1	1.10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	27.4	12.3	45	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-066SC-B-06-08-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-31RE1	File ID:	ECD2F007.D
Sampled:	10/11/19 08:40	Prepared:	01/15/20 10:24	Analyzed:	01/16/20 09:24
Solids:	57.41	Preparation:	EPA 3546	Initial/Final:	30.58 g / 2 mL
Batch:	0010436	Sequence:	0A16014	Calibration:	A9L0407
Instrument:	DUALECD2F				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.14	U
11104-28-2	Aroclor 1221	1	1.14	U
11141-16-5	Aroclor 1232	1	1.14	U
53469-21-9	Aroclor 1242	1	1.14	U
12672-29-6	Aroclor 1248	1	1.14	U
11097-69-1	Aroclor 1254	1	3.83	
11096-82-5	Aroclor 1260	1	6.74	
37324-23-5	Aroclor 1262	1	1.14	U
11100-14-4	Aroclor 1268	1	1.14	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	28.5	15.1	53	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-088SC-B-00-02-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-32	File ID:	ECD2R011.D
Sampled:	10/11/19 16:08	Prepared:	12/17/19 07:16	Analyzed:	12/23/19 10:52
Solids:	55.83	Preparation:	EPA 3546	Initial/Final:	30.27 g / 2 mL
Batch:	9120981	Sequence:	9L23020	Calibration:	A9J2803
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.19	U
11104-28-2	Aroclor 1221	1	1.19	U
11141-16-5	Aroclor 1232	1	1.19	U
53469-21-9	Aroclor 1242	1	1.19	U
12672-29-6	Aroclor 1248	1	1.19	U
11097-69-1	Aroclor 1254	1	17.8	U
11096-82-5	Aroclor 1260	1	9.56	
37324-23-5	Aroclor 1262	1	1.19	U
11100-14-4	Aroclor 1268	1	1.19	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	29.6	19.4	65	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-088SC-B-02-04-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-33	File ID:	ECD2R013.D
Sampled:	10/11/19 16:08	Prepared:	12/17/19 07:16	Analyzed:	12/23/19 11:27
Solids:	57.86	Preparation:	EPA 3546	Initial/Final:	30.42 g / 2 mL
Batch:	9120981	Sequence:	9L23020	Calibration:	A9J2803
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.14	U
11104-28-2	Aroclor 1221	1	1.14	U
11141-16-5	Aroclor 1232	1	1.14	U
53469-21-9	Aroclor 1242	1	1.14	U
12672-29-6	Aroclor 1248	1	1.14	U
11097-69-1	Aroclor 1254	1	11.1	U
11096-82-5	Aroclor 1260	1	8.67	
37324-23-5	Aroclor 1262	1	1.14	U
11100-14-4	Aroclor 1268	1	1.14	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	28.4	17.1	60	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-088SC-B-04-06-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-34	File ID:	ECD2R015.D
Sampled:	10/11/19 16:08	Prepared:	12/17/19 07:16	Analyzed:	12/23/19 12:02
Solids:	57.42	Preparation:	EPA 3546	Initial/Final:	30.09 g / 2 mL
Batch:	9120981	Sequence:	9L23020	Calibration:	A9J2803
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.16	U
11104-28-2	Aroclor 1221	1	1.16	U
11141-16-5	Aroclor 1232	1	1.16	U
53469-21-9	Aroclor 1242	1	1.16	U
12672-29-6	Aroclor 1248	1	1.16	U
11097-69-1	Aroclor 1254	1	1.16	U
11096-82-5	Aroclor 1260	1	46.0	
37324-23-5	Aroclor 1262	1	1.16	U
11100-14-4	Aroclor 1268	1	1.16	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	28.9	23.0	79	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-088SC-B-06-08-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-35	File ID:	ECD2R019.D
Sampled:	10/11/19 16:08	Prepared:	12/17/19 07:16	Analyzed:	12/23/19 13:13
Solids:	59.31	Preparation:	EPA 3546	Initial/Final:	30.63 g / 2 mL
Batch:	9120981	Sequence:	9L23020	Calibration:	A9J2803
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.11	U
11104-28-2	Aroclor 1221	1	1.11	U
11141-16-5	Aroclor 1232	1	1.11	U
53469-21-9	Aroclor 1242	1	1.11	U
12672-29-6	Aroclor 1248	1	1.11	U
11097-69-1	Aroclor 1254	1	1.11	U
11096-82-5	Aroclor 1260	1	19.7	
37324-23-5	Aroclor 1262	1	1.11	U
11100-14-4	Aroclor 1268	1	1.11	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	27.5	16.9	61	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-1088SC-B-04-06-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-36	File ID:	ECD2R021.D
Sampled:	10/11/19 16:08	Prepared:	12/17/19 07:16	Analyzed:	12/23/19 13:48
Solids:	57.81	Preparation:	EPA 3546	Initial/Final:	30.47 g / 2 mL
Batch:	9120981	Sequence:	9L23020	Calibration:	A9J2803
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.14	U
11104-28-2	Aroclor 1221	1	1.14	U
11141-16-5	Aroclor 1232	1	1.14	U
53469-21-9	Aroclor 1242	1	1.14	U
12672-29-6	Aroclor 1248	1	1.14	U
11097-69-1	Aroclor 1254	1	1.14	U
11096-82-5	Aroclor 1260	1	28.4	
37324-23-5	Aroclor 1262	1	1.14	U
11100-14-4	Aroclor 1268	1	1.14	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	28.4	20.4	72	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-092SC-B-00-02-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-37RE1	File ID:	ECD2F009.D
Sampled:	10/11/19 12:40	Prepared:	01/15/20 10:24	Analyzed:	01/16/20 09:59
Solids:	57.50	Preparation:	EPA 3546	Initial/Final:	30.84 g / 2 mL
Batch:	0010436	Sequence:	0A16014	Calibration:	A9L0407
Instrument:	DUALECD2F				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.13	U
11104-28-2	Aroclor 1221	1	1.13	U
11141-16-5	Aroclor 1232	1	1.13	U
53469-21-9	Aroclor 1242	1	1.13	U
12672-29-6	Aroclor 1248	1	1.13	U
11097-69-1	Aroclor 1254	1	4.23	
11096-82-5	Aroclor 1260	1	4.97	
37324-23-5	Aroclor 1262	1	1.13	U
11100-14-4	Aroclor 1268	1	1.13	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	28.2	15.7	56	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-092SC-B-02-04-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-38	File ID:	ECD2R025.D
Sampled:	10/11/19 12:40	Prepared:	12/17/19 07:16	Analyzed:	12/23/19 14:59
Solids:	50.42	Preparation:	EPA 3546	Initial/Final:	30.46 g / 2 mL
Batch:	9120981	Sequence:	9L23020	Calibration:	A9J2803
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.31	U
11104-28-2	Aroclor 1221	1	1.31	U
11141-16-5	Aroclor 1232	1	1.31	U
53469-21-9	Aroclor 1242	1	1.31	U
12672-29-6	Aroclor 1248	1	1.31	U
11097-69-1	Aroclor 1254	1	2.60	U
11096-82-5	Aroclor 1260	1	5.66	
37324-23-5	Aroclor 1262	1	1.31	U
11100-14-4	Aroclor 1268	1	1.31	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	32.6	20.6	63	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-092SC-B-04-06-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-39	File ID:	ECD2R027.D
Sampled:	10/11/19 12:40	Prepared:	12/17/19 07:16	Analyzed:	12/23/19 15:34
Solids:	55.83	Preparation:	EPA 3546	Initial/Final:	30.77 g / 2 mL
Batch:	9120981	Sequence:	9L23020	Calibration:	A9J2803
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.17	U
11104-28-2	Aroclor 1221	1	1.17	U
11141-16-5	Aroclor 1232	1	1.17	U
53469-21-9	Aroclor 1242	1	1.17	U
12672-29-6	Aroclor 1248	1	1.17	U
11097-69-1	Aroclor 1254	1	1.17	U
11096-82-5	Aroclor 1260	1	1.17	U
37324-23-5	Aroclor 1262	1	1.17	U
11100-14-4	Aroclor 1268	1	1.17	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	29.1	17.2	59	43 - 120	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-092SC-B-06-08-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-40	File ID:	ECD2R029.D
Sampled:	10/11/19 12:40	Prepared:	12/17/19 07:16	Analyzed:	12/23/19 16:10
Solids:	62.70	Preparation:	EPA 3546	Initial/Final:	30.29 g / 2 mL
Batch:	9120981	Sequence:	9L23020	Calibration:	A9J2803
Instrument:	DUALECD2R				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.06	U
11104-28-2	Aroclor 1221	1	1.06	U
11141-16-5	Aroclor 1232	1	1.06	U
53469-21-9	Aroclor 1242	1	1.06	U
12672-29-6	Aroclor 1248	1	1.06	U
11097-69-1	Aroclor 1254	1	1.06	U
11096-82-5	Aroclor 1260	1	1.06	U
37324-23-5	Aroclor 1262	1	1.06	U
11100-14-4	Aroclor 1268	1	1.06	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	26.3	14.9	57	43 - 120	

* 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: 0010436
Batch Matrix: Sediment
Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0010436-BLK1	ECD2F004.D	01/15/20 10:24	
LCS	0010436-BS1	ECD2F005.D	01/15/20 10:24	
LCS Dup	0010436-BSD1	ECD2F006.D	01/15/20 11:34	
PDI-066SC-B-06-08-191011	A9J0514-31RE1	ECD2F007.D	01/15/20 10:24	
PDI-092SC-B-00-02-191011	A9J0514-37RE1	ECD2F009.D	01/15/20 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.

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 Cc
Batch: 0010536
Batch Matrix: Sediment
Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0010536-BLK1	ECD2F004.D	01/17/20 11:12	
LCS	0010536-BS1	ECD2F005.D	01/17/20 11:12	
LCS Dup	0010536-BSD1	ECD2F006.D	01/17/20 11:12	

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 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: 9120536 Batch Matrix: Soil
Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9120536-BLK1	ECD2F005.D	12/05/19 07:06	
LCS	9120536-BS1	ECD2F006.D	12/05/19 07:06	
PDI-066SC-A-05-06-191011 (MS)	9120536-MS1	ECD2R009.D	12/05/19 07:06	
PDI-066SC-A-05-06-191011 (MSD)	9120536-MSD1	ECD2R011.D	12/05/19 07:07	
PDI-066SC-A-05-06-191011	A9J0514-18	ECD2R007.D	12/05/19 07:06	
PDI-066SC-A-06-07-191011	A9J0514-19	ECD2R013.D	12/05/19 07:06	

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 8082A

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 9120981 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9120981-BLK1	ECD2F013.D	12/17/19 07:16	
LCS	9120981-BS1	ECD2F014.D	12/17/19 07:16	
PDI-066SC-B-00-02-191011	A9J0514-28	ECD2F015.D	12/17/19 07:16	
PDI-066SC-B-02-04-191011	A9J0514-29	ECD2R005.D	12/17/19 07:16	
PDI-066SC-B-04-06-191011	A9J0514-30	ECD2R007.D	12/17/19 07:16	
PDI-088SC-B-00-02-191011	A9J0514-32	ECD2R011.D	12/17/19 07:16	
PDI-088SC-B-02-04-191011	A9J0514-33	ECD2R013.D	12/17/19 07:16	
PDI-088SC-B-04-06-191011	A9J0514-34	ECD2R015.D	12/17/19 07:16	
PDI-088SC-B-06-08-191011	A9J0514-35	ECD2R019.D	12/17/19 07:16	
PDI-1088SC-B-04-06-191011	A9J0514-36	ECD2R021.D	12/17/19 07:16	
PDI-092SC-B-02-04-191011	A9J0514-38	ECD2R025.D	12/17/19 07:16	
PDI-092SC-B-04-06-191011	A9J0514-39	ECD2R027.D	12/17/19 07:16	
PDI-092SC-B-06-08-191011	A9J0514-40	ECD2R029.D	12/17/19 07:16	

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:	Sediment	Laboratory ID:	0010436-BLK1	File ID:	ECD2F004.D
Prepared:	01/15/20 10:24	Preparation:	EPA 3546	Initial/Final:	31 g / 2 mL
Analyzed:	01/16/20 08:31	Instrument:	DUALECD2F		
Batch:	0010436	Sequence:	0A16014	Calibration:	A9L0407

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
12674-11-2	Aroclor 1016	0.648	U
11104-28-2	Aroclor 1221	0.648	U
11141-16-5	Aroclor 1232	0.648	U
53469-21-9	Aroclor 1242	0.648	U
12672-29-6	Aroclor 1248	0.648	U
11097-69-1	Aroclor 1254	0.648	U
11096-82-5	Aroclor 1260	0.648	U
37324-23-5	Aroclor 1262	0.648	U
11100-14-4	Aroclor 1268	0.648	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	16.1	15.2	94	43 - 120	

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:	Soil	Laboratory ID:	9120536-BLK1	File ID:	ECD2F005.D
Prepared:	12/05/19 07:06	Preparation:	EPA 3546	Initial/Final:	31 g / 2 mL
Analyzed:	12/10/19 08:40	Instrument:	DUALECD2F		
Batch:	9120536	Sequence:	9L10023	Calibration:	A9L0407

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
12674-11-2	Aroclor 1016	0.648	U
11104-28-2	Aroclor 1221	0.648	U
11141-16-5	Aroclor 1232	0.648	U
53469-21-9	Aroclor 1242	0.648	U
12672-29-6	Aroclor 1248	0.648	U
11097-69-1	Aroclor 1254	0.648	U
11096-82-5	Aroclor 1260	0.648	U
37324-23-5	Aroclor 1262	0.648	U
11100-14-4	Aroclor 1268	0.648	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	16.1	15.0	93	43 - 120	

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:	Sediment	Laboratory ID:	9120981-BLK1	File ID:	ECD2F013.D
Prepared:	12/17/19 07:16	Preparation:	EPA 3546	Initial/Final:	31 g / 2 mL
Analyzed:	12/23/19 11:27	Instrument:	DUALECD2F		
Batch:	9120981	Sequence:	9L23019	Calibration:	A9L0407

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
12674-11-2	Aroclor 1016	0.648	U
11104-28-2	Aroclor 1221	0.648	U
11141-16-5	Aroclor 1232	0.648	U
53469-21-9	Aroclor 1242	0.648	U
12672-29-6	Aroclor 1248	0.648	U
11097-69-1	Aroclor 1254	0.648	U
11096-82-5	Aroclor 1260	0.648	U
37324-23-5	Aroclor 1262	0.648	U
11100-14-4	Aroclor 1268	0.648	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	16.1	15.4	96	43 - 120	

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:	Sediment		
Batch:	0010436	Laboratory ID:	0010436-BS1
Preparation:	EPA 3546	Initial/Final:	30 g / 2 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
Aroclor 1016	83.3	45.4	54	47 - 134
Aroclor 1260	83.3	67.2	81	53 - 140

* = 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:	Sediment		
Batch:	0010436	Laboratory ID:	0010436-BSD1
Preparation:	EPA 3546	Initial/Final:	30 g / 2 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS
Aroclor 1016	83.3	53.5	64	16	30	47 - 134
Aroclor 1260	83.3	68.8	83	2	30	53 - 140

* = 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:	Soil		
Batch:	9120536	Laboratory ID:	9120536-BS1
Preparation:	EPA 3546	Initial/Final:	30 g / 2 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
Aroclor 1016	83.3	48.8	59	47 - 134
Aroclor 1260	83.3	63.7	76	53 - 140

* = 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:	Sediment		
Batch:	9120981	Laboratory ID:	9120981-BS1
Preparation:	EPA 3546	Initial/Final:	30 g / 2 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
Aroclor 1016	83.3	63.2	76	47 - 134
Aroclor 1260	83.3	81.5	98	53 - 140

* = Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

PDI-066SC-A-05-06-191011

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Matrix:	Soil		
Batch:	9120536	Laboratory ID:	9120536-MS1
Preparation:	EPA 3546	Initial/Final:	30.6 g / 2 mL

Source Sample Name: PDI-066SC-A-05-06-191011

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Aroclor 1016	141	ND	67.4	48	47 - 134
Aroclor 1260	141	8.22	87.0	56	53 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8082A

PDI-066SC-A-05-06-191011

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Soil		
Batch:	9120536	Laboratory ID:	9120536-MSD1
Preparation:	EPA 3546	Initial/Final:	30.56 g / 2 mL

Source Sample Name: PDI-066SC-A-05-06-191011

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	142	60.0	42 *	12	30	47 - 134
Aroclor 1260	142	78.7	50 *	10	30	53 - 140

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:	0A16014	Instrument:	DUALECD2F
Matrix:	Sediment	Calibration:	A9L0407

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0A16014-CCV1	ECD2F002.D	01/16/20 07:56
Calibration Blank	0A16014-CCB1	ECD2F003.D	01/16/20 08:13
Blank	0010436-BLK1	ECD2F004.D	01/16/20 08:31
LCS	0010436-BS1	ECD2F005.D	01/16/20 08:49
LCS Dup	0010436-BSD1	ECD2F006.D	01/16/20 09:06
PDI-066SC-B-06-08-191011	A9J0514-31RE1	ECD2F007.D	01/16/20 09:24
PDI-092SC-B-00-02-191011	A9J0514-37RE1	ECD2F009.D	01/16/20 09:59
Calibration Check	0A16014-CCV2	ECD2F011.D	01/16/20 10:34
Calibration Blank	0A16014-CCB2	ECD2F012.D	01/16/20 10:52
Calibration Check	0A16014-CCV3	ECD2F019.D	01/16/20 12:56
Calibration Blank	0A16014-CCB3	ECD2F020.D	01/16/20 13:13
Calibration Check	0A16014-CCV4	ECD2F029.D	01/16/20 15:52
Calibration Blank	0A16014-CCB4	ECD2F030.D	01/16/20 16:10

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:	9J25014	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A9J2803

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	9J25014-ICB1	ECD2R003.D	10/25/19 08:01
Cal Standard	9J25014-CAL1	ECD2R004.D	10/25/19 08:19
Cal Standard	9J25014-CAL2	ECD2R005.D	10/25/19 08:37
Cal Standard	9J25014-CAL3	ECD2R006.D	10/25/19 08:54
Cal Standard	9J25014-CAL4	ECD2R007.D	10/25/19 09:12
Cal Standard	9J25014-CAL5	ECD2R008.D	10/25/19 09:29
Cal Standard	9J25014-CAL6	ECD2R009.D	10/25/19 09:47
Cal Standard	9J25014-CAL7	ECD2R010.D	10/25/19 10:05
Initial Cal Check	9J25014-ICV1	ECD2R012.D	10/25/19 10:40
Cal Standard	9J25014-CAL8	ECD2R013.D	10/25/19 10:58
Cal Standard	9J25014-CAL9	ECD2R014.D	10/25/19 11:15
Cal Standard	9J25014-CALA	ECD2R015.D	10/25/19 11:33
Cal Standard	9J25014-CALB	ECD2R016.D	10/25/19 11:50
Cal Standard	9J25014-CALC	ECD2R017.D	10/25/19 12:08
Cal Standard	9J25014-CALD	ECD2R018.D	10/25/19 12:26
Cal Standard	9J25014-CALE	ECD2R019.D	10/25/19 12:43
Initial Cal Check	9J25014-ICV2	ECD2R020.D	10/25/19 13:02
Initial Cal Check	9J25014-ICV3	ECD2R021.D	10/25/19 13:20
Initial Cal Check	9J25014-ICV4	ECD2R022.D	10/25/19 13:37
Initial Cal Check	9J25014-ICV5	ECD2R023.D	10/25/19 13:55

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:	9L03052	Instrument:	DUALECD2F
Matrix:	Sediment	Calibration:	A9L0407

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	9L03052-ICB1	ECD2F002.D	12/03/19 16:47
Cal Standard	9L03052-CAL1	ECD2F003.D	12/03/19 17:04
Cal Standard	9L03052-CAL2	ECD2F004.D	12/03/19 17:22
Cal Standard	9L03052-CAL3	ECD2F005.D	12/03/19 17:40
Cal Standard	9L03052-CAL4	ECD2F006.D	12/03/19 17:57
Cal Standard	9L03052-CAL5	ECD2F007.D	12/03/19 18:15
Cal Standard	9L03052-CAL6	ECD2F008.D	12/03/19 18:32
Cal Standard	9L03052-CAL7	ECD2F009.D	12/03/19 18:50
Initial Cal Check	9L03052-ICV1	ECD2F011.D	12/03/19 19:25
Cal Standard	9L03052-CAL8	ECD2F012.D	12/03/19 19:43
Cal Standard	9L03052-CAL9	ECD2F013.D	12/03/19 20:01
Cal Standard	9L03052-CALA	ECD2F014.D	12/03/19 20:18
Cal Standard	9L03052-CALB	ECD2F015.D	12/03/19 20:36
Cal Standard	9L03052-CALC	ECD2F016.D	12/03/19 20:53
Cal Standard	9L03052-CALD	ECD2F017.D	12/03/19 21:11
Cal Standard	9L03052-CALE	ECD2F018.D	12/03/19 21:29
Initial Cal Check	9L03052-ICV2	ECD2F019.D	12/03/19 21:46
Initial Cal Check	9L03052-ICV3	ECD2F020.D	12/03/19 22:04
Initial Cal Check	9L03052-ICV4	ECD2F021.D	12/03/19 22:21
Initial Cal Check	9L03052-ICV5	ECD2F022.D	12/03/19 22:39

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.

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:	9L10023	Instrument:	DUALECD2F
Matrix:	Soil	Calibration:	A9L0407

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L10023-CCV1	ECD2F003.D	12/10/19 08:04
Calibration Blank	9L10023-CCB1	ECD2F004.D	12/10/19 08:22
Blank	9120536-BLK1	ECD2F005.D	12/10/19 08:40
LCS	9120536-BS1	ECD2F006.D	12/10/19 08:57
Calibration Check	9L10023-CCV2	ECD2F017.D	12/10/19 12:11
Calibration Blank	9L10023-CCB2	ECD2F018.D	12/10/19 12:29

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:	9L12014	Instrument:	DUALECD2R
Matrix:	Soil	Calibration:	A9J2803

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L12014-CCV1	ECD2R003.D	12/12/19 08:07
Calibration Blank	9L12014-CCB1	ECD2R004.D	12/12/19 08:26
PDI-066SC-A-05-06-191011	A9J0514-18	ECD2R007.D	12/12/19 09:19
PDI-066SC-A-05-06-191011 (MS)	9120536-MS1	ECD2R009.D	12/12/19 09:54
PDI-066SC-A-05-06-191011 (MSD)	9120536-MSD1	ECD2R011.D	12/12/19 10:29
PDI-066SC-A-06-07-191011	A9J0514-19	ECD2R013.D	12/12/19 11:05
Calibration Check	9L12014-CCV2	ECD2R016.D	12/12/19 11:58
Calibration Blank	9L12014-CCB2	ECD2R017.D	12/12/19 12:16
Calibration Check	9L12014-CCV3	ECD2R030.D	12/12/19 16:05
Calibration Blank	9L12014-CCB3	ECD2R031.D	12/12/19 16:23

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 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:	9L23019	Instrument:	DUALECD2F
Matrix:	Sediment	Calibration:	A9L0407

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L23019-CCV1	ECD2F003.D	12/23/19 08:20
Calibration Blank	9L23019-CCB1	ECD2F004.D	12/23/19 08:37
Blank	9120981-BLK1	ECD2F013.D	12/23/19 11:27
LCS	9120981-BS1	ECD2F014.D	12/23/19 11:45
PDI-066SC-B-00-02-191011	A9J0514-28	ECD2F015.D	12/23/19 12:02
Calibration Check	9L23019-CCV2	ECD2F017.D	12/23/19 12:38
Calibration Blank	9L23019-CCB2	ECD2F018.D	12/23/19 12:55
Calibration Check	9L23019-CCV3	ECD2F031.D	12/23/19 16:45
Calibration Blank	9L23019-CCB3	ECD2F032.D	12/23/19 17:02

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:	9L23020	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A9J2803

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L23020-CCV1	ECD2R003.D	12/23/19 08:20
Calibration Blank	9L23020-CCB1	ECD2R004.D	12/23/19 08:37
PDI-066SC-B-02-04-191011	A9J0514-29	ECD2R005.D	12/23/19 09:06
PDI-066SC-B-04-06-191011	A9J0514-30	ECD2R007.D	12/23/19 09:41
PDI-088SC-B-00-02-191011	A9J0514-32	ECD2R011.D	12/23/19 10:52
PDI-088SC-B-02-04-191011	A9J0514-33	ECD2R013.D	12/23/19 11:27
PDI-088SC-B-04-06-191011	A9J0514-34	ECD2R015.D	12/23/19 12:02
Calibration Check	9L23020-CCV2	ECD2R017.D	12/23/19 12:38
Calibration Blank	9L23020-CCB2	ECD2R018.D	12/23/19 12:55
PDI-088SC-B-06-08-191011	A9J0514-35	ECD2R019.D	12/23/19 13:13
PDI-1088SC-B-04-06-191011	A9J0514-36	ECD2R021.D	12/23/19 13:48
PDI-092SC-B-02-04-191011	A9J0514-38	ECD2R025.D	12/23/19 14:59
PDI-092SC-B-04-06-191011	A9J0514-39	ECD2R027.D	12/23/19 15:34
PDI-092SC-B-06-08-191011	A9J0514-40	ECD2R029.D	12/23/19 16:10
Calibration Check	9L23020-CCV3	ECD2R031.D	12/23/19 16:45
Calibration Blank	9L23020-CCB3	ECD2R032.D	12/23/19 17:02

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: A9J2803 Date: 10/28/19 10:35 Instrument: DUALECD2R

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)	146790.4	Ave	11.13687	10.701	1.830451E-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: A9J2803

SDG: Gasco_PreRD_DG 2019

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

Instrument: DUALECD2R

Calibration Date: 10/28/19 10:35

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	10151.75	50	9873.36	100	9252.01	200	8409.495	500	8085.348	1000	8009.226
1016 (2)	20	17127.45	50	17019.64	100	16922.74	200	14752.13	500	16080.45	1000	15600.02
1016 (3)	20	8502.2	50	7706.02	100	7552.46	200	6698.305	500	7013.236	1000	6715.654
1016 (4)	20	8857.6	50	8177.26	100	7725.78	200	6856.835	500	6887.656	1000	6545.978
1016 (5)	20	9451.25	50	9136.26	100	8479.32	200	7726.305	500	7875.734	1000	7260.053
1016 (6)	20	9586.85	50	9057.04	100	8470.87	200	7444.98	500	7904.344	1000	7304.27
Aroclor 1016	20	~~0~~	50	~~0~~	100	~~0~~	200	~~0~~	500	~~0~~	1000	~~0~~
1260 (1)	20	16856.95	50	16484.42	100	15672.69	200	14707.76	500	15695	1000	14942.24
1260 (2)	20	20667.25	50	20515.12	100	19956.6	200	17709.33	500	20277.4	1000	17867.44
1260 (3)	20	20916.7	50	21060.16	100	19854.47	200	19120.24	500	20134.36	1000	19036.7
1260 (4)	20	30933.1	50	30992.52	100	30699.8	200	28633.93	500	29992.72	1000	31228.51
1260 (5)	20	18057.85	50	18606.18	100	17472.57	200	16459	500	17949.59	1000	17681.7
1260 (6)	20	7430.6	50	7501.98	100	6942.4	200	6147.22	500	6473.054	1000	6505.242
Aroclor 1260	20	~~0~~	50	~~0~~	100	~~0~~	200	~~0~~	500	~~0~~	1000	~~0~~
Decachlorobiphenyl (Surr)	10	131865.9	25	140307.6	50	137335.2	100	135426.9	250	151305.7	500	151703.6

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:	A9J2803	Instrument:	DUALECD2R
Matrix:		Calibration Date:	10/28/19 10:35

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	8400.486										
1016 (2)	1500	17040.45										
1016 (3)	1500	7372.987										
1016 (4)	1500	7150.067										
1016 (5)	1500	7828.54										
1016 (6)	1500	7849.247										
Aroclor 1016	1500	0										
1254 (1)											500	12925.06
1254 (2)											500	20247.58
1254 (3)											500	21427.7
1254 (4)											500	16516.58
1254 (5)											500	15693.16
1254 (6)											500	4890.148
Aroclor 1254											500	0
1260 (1)	1500	16121.04										
1260 (2)	1500	20022.96										
1260 (3)	1500	20802.53										
1260 (4)	1500	34142.69										
1260 (5)	1500	19053.46										
1260 (6)	1500	7289.34										
Aroclor 1260	1500	0										
Decachlorobiphenyl (Surr)	800	179588.1	200	0	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:	A9J2803	Instrument:	DUALECD2R
Matrix:		Calibration Date:	10/28/19 10:35

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	15133.52										
1262 (2)	500	21154.26										
1262 (3)	500	17468.28										
1262 (4)	500	35809.34										
1262 (5)	500	21964.82										
1262 (6)	500	9700.53										
Aroclor 1262	500	~~0~~										
Decachlorobiphenyl (Surr)	200	~~0~~	200	~~0~~								

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: A9L0407 Date: 12/04/19 16:35 Instrument: DUALECD2F

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)	111675.2	Ave	5.500462	9.577571	1.534808E-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: A9L0407

SDG: Gasco_PreRD_DG 2019

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

Instrument: DUALECD2F

Calibration Date: 12/04/19 16:35

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	4495.2	50	3868.58	100	3742.24	200	3518.675	500	3742.964	1000	3364.096
1016 (2)	20	8055.7	50	7041.6	100	7109.24	200	6629.815	500	7719.472	1000	6834.377
1016 (3)	20	4743.3	50	3989.8	100	3902.73	200	3716.885	500	4044.31	1000	3751.237
1016 (4)	20	4367.6	50	3817.86	100	3564.25	200	3253.31	500	3640.01	1000	3257.104
1016 (5)	20	4872.4	50	4418.04	100	4040.11	200	3837.1	500	4384.308	1000	3740.486
1016 (6)	20	3414.35	50	3075.66	100	2907.89	200	2718.155	500	2968.966	1000	2774.363
Aroclor 1016	20	ϴ	50	ϴ	100	ϴ	200	ϴ	500	ϴ	1000	ϴ
1260 (1)	20	9305.95	50	8378.72	100	8424.4	200	7900.825	500	8847.398	1000	7808.345
1260 (2)	20	11265.7	50	10133.76	100	10128.79	200	9613.795	500	10650.27	1000	9589.273
1260 (3)	20	8938.8	50	8042.48	100	8021.99	200	7279.085	500	7995.658	1000	7355.01
1260 (4)	20	18701.5	50	18890.76	100	18328.8	200	18081.26	500	20178.5	1000	17708.5
1260 (5)	20	12705.3	50	12305.94	100	12216.37	200	11356.71	500	12577.89	1000	11580.15
1260 (6)	20	5766.1	50	5178.38	100	5114.87	200	4648.95	500	5398.078	1000	4725.786
Aroclor 1260	20	ϴ	50	ϴ	100	ϴ	200	ϴ	500	ϴ	1000	ϴ
Decachlorobiphenyl (Surr)	10	108539.5	25	107985.3	50	113778.6	100	105778.6	250	124333.5	500	109807.6

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:	A9L0407	Instrument:	DUALECD2F
Matrix:		Calibration Date:	12/04/19 16:35

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	3433.924										
1016 (2)	1500	6967.146										
1016 (3)	1500	3662.205										
1016 (4)	1500	3141.323										
1016 (5)	1500	3767.969										
1016 (6)	1500	2673.243										
Aroclor 1016	1500	0										
1254 (1)											500	5998.118
1254 (2)											500	7287.568
1254 (3)											500	11209.97
1254 (4)											500	7130.028
1254 (5)											500	7658.99
1254 (6)											500	2493.888
Aroclor 1254											500	0
1260 (1)	1500	7628.894										
1260 (2)	1500	10035.16										
1260 (3)	1500	7423.086										
1260 (4)	1500	18439.97										
1260 (5)	1500	11929.48										
1260 (6)	1500	4970.047										
Aroclor 1260	1500	0										
Decachlorobiphenyl (Surr)	800	111502.9	200	0	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:	A9L0407	Instrument:	DUALECD2F
Matrix:		Calibration Date:	12/04/19 16:35

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	8046.414										
1262 (2)	500	11225.07										
1262 (3)	500	9704.932										
1262 (4)	500	20660.1										
1262 (5)	500	13082.36										
1262 (6)	500	6676.638										
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 T
Instrument ID:	DUALECD2R	Calibration:	A9J2803
Lab File ID:	ECD2R012.D		
Sequence:	9J25014	Inject Date:	10/25/19
Lab Sample ID:	9J25014-ICV1	Inject Time:	10:40

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1016	500	461	-7.8	70 - 130
Aroclor 1260	500	489	-2.3	70 - 130
Decachlorobiphenyl (Surr)	200	192	-4.1	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 T
Instrument ID:	DUALECD2R	Calibration:	A9J2803
Lab File ID:	ECD2R020.D		
Sequence:	9J25014	Inject Date:	10/25/19
Lab Sample ID:	9J25014-ICV2	Inject Time:	13:02

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1221	1000	1010	0.8	70 - 130
Aroclor 1254	500	516	3.3	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 T
Instrument ID:	DUALECD2R	Calibration:	A9J2803
Lab File ID:	ECD2R021.D		
Sequence:	9J25014	Inject Date:	10/25/19
Lab Sample ID:	9J25014-ICV3	Inject Time:	13:20

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1232	500	544	8.8	70 - 130
Aroclor 1262	500	486	-2.8	70 - 130
Decachlorobiphenyl (Surr)	80.0	89.0	11.3	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 T
Instrument ID:	DUALECD2R	Calibration:	A9J2803
Lab File ID:	ECD2R022.D		
Sequence:	9J25014	Inject Date:	10/25/19
Lab Sample ID:	9J25014-ICV4	Inject Time:	13:37

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1242	500	541	8.2	70 - 130
Aroclor 1268	500	509	1.9	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 T
Instrument ID:	DUALECD2R	Calibration:	A9J2803
Lab File ID:	ECD2R023.D		
Sequence:	9J25014	Inject Date:	10/25/19
Lab Sample ID:	9J25014-ICV5	Inject Time:	13:55

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1248	500	575	15.0	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 T
Instrument ID:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F011.D		
Sequence:	9L03052	Inject Date:	12/03/19
Lab Sample ID:	9L03052-ICV1	Inject Time:	19:25

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1016	500	434	-13.1	70 - 130
Aroclor 1260	500	429	-14.1	70 - 130
Decachlorobiphenyl (Surr)	200	184	-7.8	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 T
Instrument ID:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F019.D		
Sequence:	9L03052	Inject Date:	12/03/19
Lab Sample ID:	9L03052-ICV2	Inject Time:	21:46

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1221	1000	923	-7.7	70 - 130
Aroclor 1254	500	507	1.3	70 - 130
Decachlorobiphenyl (Surr)	80.0	81.5	1.8	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 T
Instrument ID:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F020.D		
Sequence:	9L03052	Inject Date:	12/03/19
Lab Sample ID:	9L03052-ICV3	Inject Time:	22:04

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1232	500	541	8.2	70 - 130
Aroclor 1262	500	492	-1.6	70 - 130
Decachlorobiphenyl (Surr)	80.0	83.5	4.4	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 T
Instrument ID:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F021.D		
Sequence:	9L03052	Inject Date:	12/03/19
Lab Sample ID:	9L03052-ICV4	Inject Time:	22:21

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1242	500	523	4.6	70 - 130
Aroclor 1268	500	490	-1.9	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 T
Instrument ID:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F022.D		
Sequence:	9L03052	Inject Date:	12/03/19
Lab Sample ID:	9L03052-ICV5	Inject Time:	22:39

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1248	500	544	8.7	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:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F002.D	Calibration Date:	12/04/19 16:35
Sequence:	0A16014	Injection Date:	01/16/20
Lab Sample ID:	0A16014-CCV1	Injection Time:	07:56

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	534				6.9	20
Aroclor 1260	Ave	500	530				5.9	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:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F011.D	Calibration Date:	12/04/19 16:35
Sequence:	0A16014	Injection Date:	01/16/20
Lab Sample ID:	0A16014-CCV2	Injection Time:	10:34

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	535				6.9	20
Aroclor 1260	Ave	500	527				5.4	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:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F019.D	Calibration Date:	12/04/19 16:35
Sequence:	0A16014	Injection Date:	01/16/20
Lab Sample ID:	0A16014-CCV3	Injection Time:	12:56

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				11.1	20
Aroclor 1260	Ave	500	531				6.2	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:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F029.D	Calibration Date:	12/04/19 16:35
Sequence:	0A16014	Injection Date:	01/16/20
Lab Sample ID:	0A16014-CCV4	Injection Time:	15:52

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	536				7.2	20
Aroclor 1260	Ave	500	521				4.3	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:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F003.D	Calibration Date:	12/04/19 16:35
Sequence:	9L10023	Injection Date:	12/10/19
Lab Sample ID:	9L10023-CCV1	Injection Time:	08:04

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	462				-7.7	20
Aroclor 1260	Ave	500	502				0.4	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:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F017.D	Calibration Date:	12/04/19 16:35
Sequence:	9L10023	Injection Date:	12/10/19
Lab Sample ID:	9L10023-CCV2	Injection Time:	12:11

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	473				-5.4	20
Aroclor 1260	Ave	500	513				2.5	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:	DUALECD2R	Calibration:	A9J2803
Lab File ID:	ECD2R003.D	Calibration Date:	10/28/19 10:35
Sequence:	9L12014	Injection Date:	12/12/19
Lab Sample ID:	9L12014-CCV1	Injection Time:	08:07

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	466				-6.9	20
Aroclor 1260	Ave	500	518				3.6	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:	DUALECD2R	Calibration:	A9J2803
Lab File ID:	ECD2R016.D	Calibration Date:	10/28/19 10:35
Sequence:	9L12014	Injection Date:	12/12/19
Lab Sample ID:	9L12014-CCV2	Injection Time:	11:58

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	456				-8.8	20
Aroclor 1260	Ave	500	494				-1.2	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:	DUALECD2R	Calibration:	A9J2803
Lab File ID:	ECD2R030.D	Calibration Date:	10/28/19 10:35
Sequence:	9L12014	Injection Date:	12/12/19
Lab Sample ID:	9L12014-CCV3	Injection Time:	16:05

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	478				-4.3	20
Aroclor 1260	Ave	500	532				6.4	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:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F003.D	Calibration Date:	12/04/19 16:35
Sequence:	9L23019	Injection Date:	12/23/19
Lab Sample ID:	9L23019-CCV1	Injection Time:	08:20

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	504				0.7	20
Aroclor 1260	Ave	500	544				8.8	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:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F017.D	Calibration Date:	12/04/19 16:35
Sequence:	9L23019	Injection Date:	12/23/19
Lab Sample ID:	9L23019-CCV2	Injection Time:	12:38

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	536				7.2	20
Aroclor 1260	Ave	500	548				9.6	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:	DUALECD2F	Calibration:	A9L0407
Lab File ID:	ECD2F031.D	Calibration Date:	12/04/19 16:35
Sequence:	9L23019	Injection Date:	12/23/19
Lab Sample ID:	9L23019-CCV3	Injection Time:	16:45

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	529				5.8	20
Aroclor 1260	Ave	500	557				11.5	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:	DUALECD2R	Calibration:	A9J2803
Lab File ID:	ECD2R003.D	Calibration Date:	10/28/19 10:35
Sequence:	9L23020	Injection Date:	12/23/19
Lab Sample ID:	9L23020-CCV1	Injection Time:	08:20

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	421				-15.9	20
Aroclor 1260	Ave	500	480				-4.0	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:	DUALECD2R	Calibration:	A9J2803
Lab File ID:	ECD2R017.D	Calibration Date:	10/28/19 10:35
Sequence:	9L23020	Injection Date:	12/23/19
Lab Sample ID:	9L23020-CCV2	Injection Time:	12:38

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	439				-12.2	20
Aroclor 1260	Ave	500	494				-1.2	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:	DUALECD2R	Calibration:	A9J2803
Lab File ID:	ECD2R031.D	Calibration Date:	10/28/19 10:35
Sequence:	9L23020	Injection Date:	12/23/19
Lab Sample ID:	9L23020-CCV3	Injection Time:	16:45

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	465				-7.1	20
Aroclor 1260	Ave	500	534				6.9	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:	0A16014	Instrument:	DUALECD2F
Matrix:	Sediment	Calibration:	A9L0407

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0A16014-CCV1)			Lab File ID: ECD2F002.D		Analyzed: 01/16/20 07:56			
Decachlorobiphenyl (Surr)	250	104	80 - 120	9.566	9.577571	-0.0116	+/-1.0	
Calibration Blank (0A16014-CCB1)			Lab File ID: ECD2F003.D		Analyzed: 01/16/20 08:13			
Decachlorobiphenyl (Surr)	100	101	43 - 120	9.563	9.577571	-0.0146	+/-1.0	
Blank (0010436-BLK1)			Lab File ID: ECD2F004.D		Analyzed: 01/16/20 08:31			
Decachlorobiphenyl (Surr)	16.1	94	43 - 120	9.563	9.577571	-0.0146	+/-1.0	
LCS (0010436-BS1)			Lab File ID: ECD2F005.D		Analyzed: 01/16/20 08:49			
Decachlorobiphenyl (Surr)	16.7	90	43 - 120	9.563	9.577571	-0.0146	+/-1.0	
LCS Dup (0010436-BSD1)			Lab File ID: ECD2F006.D		Analyzed: 01/16/20 09:06			
Decachlorobiphenyl (Surr)	16.7	93	43 - 120	9.562	9.577571	-0.0156	+/-1.0	
PDI-066SC-B-06-08-191011 (A9J0514-31RE1)			Lab File ID: ECD2F007.D		Analyzed: 01/16/20 09:24			
Decachlorobiphenyl (Surr)	28.5	53	43 - 120	9.565	9.577571	-0.0126	+/-1.0	
PDI-092SC-B-00-02-191011 (A9J0514-37RE1)			Lab File ID: ECD2F009.D		Analyzed: 01/16/20 09:59			
Decachlorobiphenyl (Surr)	28.2	56	43 - 120	9.562	9.577571	-0.0156	+/-1.0	
Calibration Check (0A16014-CCV2)			Lab File ID: ECD2F011.D		Analyzed: 01/16/20 10:34			
Decachlorobiphenyl (Surr)	250	108	80 - 120	9.562	9.577571	-0.0156	+/-1.0	
Calibration Blank (0A16014-CCB2)			Lab File ID: ECD2F012.D		Analyzed: 01/16/20 10:52			
Decachlorobiphenyl (Surr)	100	100	43 - 120	9.561	9.577571	-0.0166	+/-1.0	
Calibration Check (0A16014-CCV3)			Lab File ID: ECD2F019.D		Analyzed: 01/16/20 12:56			
Decachlorobiphenyl (Surr)	250	102	80 - 120	9.562	9.577571	-0.0156	+/-1.0	
Calibration Blank (0A16014-CCB3)			Lab File ID: ECD2F020.D		Analyzed: 01/16/20 13:13			
Decachlorobiphenyl (Surr)	100	104	43 - 120	9.561	9.577571	-0.0166	+/-1.0	
Calibration Check (0A16014-CCV4)			Lab File ID: ECD2F029.D		Analyzed: 01/16/20 15:52			
Decachlorobiphenyl (Surr)	250	108	80 - 120	9.562	9.577571	-0.0156	+/-1.0	
Calibration Blank (0A16014-CCB4)			Lab File ID: ECD2F030.D		Analyzed: 01/16/20 16:10			
Decachlorobiphenyl (Surr)	100	102	43 - 120	9.56	9.577571	-0.0176	+/-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:	9J25014	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A9J2803

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (9J25014-ICV1)			Lab File ID: ECD2R012.D		Analyzed: 10/25/19 10:40			
Decachlorobiphenyl (Surr)	200	96	70 - 130	10.701	10.701	0.0000	+/-1.0	
Initial Cal Check (9J25014-ICV2)			Lab File ID: ECD2R020.D		Analyzed: 10/25/19 13:02			
Decachlorobiphenyl (Surr)	80.0	107	70 - 130	10.701	10.701	0.0000	+/-1.0	
Initial Cal Check (9J25014-ICV3)			Lab File ID: ECD2R021.D		Analyzed: 10/25/19 13:20			
Decachlorobiphenyl (Surr)	80.0	111	70 - 130	10.699	10.701	-0.0020	+/-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:	9L03052	Instrument:	DUALECD2F
Matrix:	Sediment	Calibration:	A9L0407

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (9L03052-ICV1)			Lab File ID: ECD2F011.D		Analyzed: 12/03/19 19:25			
Decachlorobiphenyl (Surr)	200	92	70 - 130	9.577	9.577571	-0.0006	+/-1.0	
Initial Cal Check (9L03052-ICV2)			Lab File ID: ECD2F019.D		Analyzed: 12/03/19 21:46			
Decachlorobiphenyl (Surr)	80.0	102	70 - 130	9.576	9.577571	-0.0016	+/-1.0	
Initial Cal Check (9L03052-ICV3)			Lab File ID: ECD2F020.D		Analyzed: 12/03/19 22:04			
Decachlorobiphenyl (Surr)	80.0	104	70 - 130	9.577	9.577571	-0.0006	+/-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:	9L10023	Instrument:	DUALECD2F
Matrix:	Soil	Calibration:	A9L0407

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9L10023-CCV1)			Lab File ID: ECD2F003.D		Analyzed: 12/10/19 08:04			
Decachlorobiphenyl (Surr)	250	108	80 - 120	9.577	9.577571	-0.0006	+/-1.0	
Calibration Blank (9L10023-CCB1)			Lab File ID: ECD2F004.D		Analyzed: 12/10/19 08:22			
Decachlorobiphenyl (Surr)	100	103	43 - 120	9.576	9.577571	-0.0016	+/-1.0	
Blank (9120536-BLK1)			Lab File ID: ECD2F005.D		Analyzed: 12/10/19 08:40			
Decachlorobiphenyl (Surr)	16.1	93	43 - 120	9.576	9.577571	-0.0016	+/-1.0	
LCS (9120536-BS1)			Lab File ID: ECD2F006.D		Analyzed: 12/10/19 08:57			
Decachlorobiphenyl (Surr)	16.7	93	43 - 120	9.576	9.577571	-0.0016	+/-1.0	
Calibration Check (9L10023-CCV2)			Lab File ID: ECD2F017.D		Analyzed: 12/10/19 12:11			
Decachlorobiphenyl (Surr)	250	109	80 - 120	9.576	9.577571	-0.0016	+/-1.0	
Calibration Blank (9L10023-CCB2)			Lab File ID: ECD2F018.D		Analyzed: 12/10/19 12:29			
Decachlorobiphenyl (Surr)	100	107	43 - 120	9.576	9.577571	-0.0016	+/-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:	9L12014	Instrument:	DUALECD2R
Matrix:	Soil	Calibration:	A9J2803

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9L12014-CCV1)			Lab File ID: ECD2R003.D		Analyzed: 12/12/19 08:07			
Decachlorobiphenyl (Surr)	250	114	80 - 120	10.707	10.701	0.0060	+/-1.0	
Calibration Blank (9L12014-CCB1)			Lab File ID: ECD2R004.D		Analyzed: 12/12/19 08:26			
Decachlorobiphenyl (Surr)	100	112	43 - 120	10.705	10.701	0.0040	+/-1.0	
PDI-066SC-A-05-06-191011 (A9J0514-18)			Lab File ID: ECD2R007.D		Analyzed: 12/12/19 09:19			
Decachlorobiphenyl (Surr)	28.4	70	43 - 120	10.713	10.701	0.0120	+/-1.0	
Matrix Spike (9120536-MS1)			Lab File ID: ECD2R009.D		Analyzed: 12/12/19 09:54			
Decachlorobiphenyl (Surr)	28.3	69	43 - 120	10.712	10.701	0.0110	+/-1.0	
Matrix Spike Dup (9120536-MSD1)			Lab File ID: ECD2R011.D		Analyzed: 12/12/19 10:29			
Decachlorobiphenyl (Surr)	28.3	65	43 - 120	10.713	10.701	0.0120	+/-1.0	
PDI-066SC-A-06-07-191011 (A9J0514-19)			Lab File ID: ECD2R013.D		Analyzed: 12/12/19 11:05			
Decachlorobiphenyl (Surr)	29.8	56	43 - 120	10.711	10.701	0.0100	+/-1.0	
Calibration Check (9L12014-CCV2)			Lab File ID: ECD2R016.D		Analyzed: 12/12/19 11:58			
Decachlorobiphenyl (Surr)	250	117	80 - 120	10.707	10.701	0.0060	+/-1.0	
Calibration Blank (9L12014-CCB2)			Lab File ID: ECD2R017.D		Analyzed: 12/12/19 12:16			
Decachlorobiphenyl (Surr)	100	112	43 - 120	10.706	10.701	0.0050	+/-1.0	
Calibration Check (9L12014-CCV3)			Lab File ID: ECD2R030.D		Analyzed: 12/12/19 16:05			
Decachlorobiphenyl (Surr)	250	118	80 - 120	10.706	10.701	0.0050	+/-1.0	
Calibration Blank (9L12014-CCB3)			Lab File ID: ECD2R031.D		Analyzed: 12/12/19 16:23			
Decachlorobiphenyl (Surr)	100	120	43 - 120	10.703	10.701	0.0020	+/-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:	9L23019	Instrument:	DUALECD2F
Matrix:	Sediment	Calibration:	A9L0407

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9L23019-CCV1)			Lab File ID: ECD2F003.D		Analyzed: 12/23/19 08:20			
Decachlorobiphenyl (Surr)	250	110	80 - 120	9.579	9.577571	0.0014	+/-1.0	
Calibration Blank (9L23019-CCB1)			Lab File ID: ECD2F004.D		Analyzed: 12/23/19 08:37			
Decachlorobiphenyl (Surr)	100	112	43 - 120	9.578	9.577571	0.0004	+/-1.0	
Blank (9120981-BLK1)			Lab File ID: ECD2F013.D		Analyzed: 12/23/19 11:27			
Decachlorobiphenyl (Surr)	16.1	96	43 - 120	9.578	9.577571	0.0004	+/-1.0	
LCS (9120981-BS1)			Lab File ID: ECD2F014.D		Analyzed: 12/23/19 11:45			
Decachlorobiphenyl (Surr)	16.7	100	43 - 120	9.578	9.577571	0.0004	+/-1.0	
PDI-066SC-B-00-02-191011 (A9J0514-28)			Lab File ID: ECD2F015.D		Analyzed: 12/23/19 12:02			
Decachlorobiphenyl (Surr)	28.5	39	43 - 120	9.58	9.577571	0.0024	+/-1.0	*
Calibration Check (9L23019-CCV2)			Lab File ID: ECD2F017.D		Analyzed: 12/23/19 12:38			
Decachlorobiphenyl (Surr)	250	113	80 - 120	9.577	9.577571	-0.0006	+/-1.0	
Calibration Blank (9L23019-CCB2)			Lab File ID: ECD2F018.D		Analyzed: 12/23/19 12:55			
Decachlorobiphenyl (Surr)	100	118	43 - 120	9.577	9.577571	-0.0006	+/-1.0	
Calibration Check (9L23019-CCV3)			Lab File ID: ECD2F031.D		Analyzed: 12/23/19 16:45			
Decachlorobiphenyl (Surr)	250	118	80 - 120	9.578	9.577571	0.0004	+/-1.0	
Calibration Blank (9L23019-CCB3)			Lab File ID: ECD2F032.D		Analyzed: 12/23/19 17:02			
Decachlorobiphenyl (Surr)	100	127	43 - 120	9.579	9.577571	0.0014	+/-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:	9L23020	Instrument:	DUALECD2R
Matrix:	Sediment	Calibration:	A9J2803

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9L23020-CCV1)			Lab File ID: ECD2R003.D		Analyzed: 12/23/19 08:20			
Decachlorobiphenyl (Surr)	250	107	80 - 120	10.695	10.701	-0.0060	+/-1.0	
Calibration Blank (9L23020-CCB1)			Lab File ID: ECD2R004.D		Analyzed: 12/23/19 08:37			
Decachlorobiphenyl (Surr)	100	102	43 - 120	10.691	10.701	-0.0100	+/-1.0	
PDI-066SC-B-02-04-191011 (A9J0514-29)			Lab File ID: ECD2R005.D		Analyzed: 12/23/19 09:06			
Decachlorobiphenyl (Surr)	29.1	46	43 - 120	10.7	10.701	-0.0010	+/-1.0	
PDI-066SC-B-04-06-191011 (A9J0514-30)			Lab File ID: ECD2R007.D		Analyzed: 12/23/19 09:41			
Decachlorobiphenyl (Surr)	27.4	45	43 - 120	10.695	10.701	-0.0060	+/-1.0	
PDI-088SC-B-00-02-191011 (A9J0514-32)			Lab File ID: ECD2R011.D		Analyzed: 12/23/19 10:52			
Decachlorobiphenyl (Surr)	29.6	65	43 - 120	10.693	10.701	-0.0080	+/-1.0	
PDI-088SC-B-02-04-191011 (A9J0514-33)			Lab File ID: ECD2R013.D		Analyzed: 12/23/19 11:27			
Decachlorobiphenyl (Surr)	28.4	60	43 - 120	10.691	10.701	-0.0100	+/-1.0	
PDI-088SC-B-04-06-191011 (A9J0514-34)			Lab File ID: ECD2R015.D		Analyzed: 12/23/19 12:02			
Decachlorobiphenyl (Surr)	28.9	79	43 - 120	10.69	10.701	-0.0110	+/-1.0	
Calibration Check (9L23020-CCV2)			Lab File ID: ECD2R017.D		Analyzed: 12/23/19 12:38			
Decachlorobiphenyl (Surr)	250	114	80 - 120	10.691	10.701	-0.0100	+/-1.0	
Calibration Blank (9L23020-CCB2)			Lab File ID: ECD2R018.D		Analyzed: 12/23/19 12:55			
Decachlorobiphenyl (Surr)	100	106	43 - 120	10.688	10.701	-0.0130	+/-1.0	
PDI-088SC-B-06-08-191011 (A9J0514-35)			Lab File ID: ECD2R019.D		Analyzed: 12/23/19 13:13			
Decachlorobiphenyl (Surr)	27.5	61	43 - 120	10.692	10.701	-0.0090	+/-1.0	
PDI-1088SC-B-04-06-191011 (A9J0514-36)			Lab File ID: ECD2R021.D		Analyzed: 12/23/19 13:48			
Decachlorobiphenyl (Surr)	28.4	72	43 - 120	10.693	10.701	-0.0080	+/-1.0	
PDI-092SC-B-02-04-191011 (A9J0514-38)			Lab File ID: ECD2R025.D		Analyzed: 12/23/19 14:59			
Decachlorobiphenyl (Surr)	32.6	63	43 - 120	10.695	10.701	-0.0060	+/-1.0	
PDI-092SC-B-04-06-191011 (A9J0514-39)			Lab File ID: ECD2R027.D		Analyzed: 12/23/19 15:34			
Decachlorobiphenyl (Surr)	29.1	59	43 - 120	10.692	10.701	-0.0090	+/-1.0	
PDI-092SC-B-06-08-191011 (A9J0514-40)			Lab File ID: ECD2R029.D		Analyzed: 12/23/19 16:10			
Decachlorobiphenyl (Surr)	26.3	57	43 - 120	10.692	10.701	-0.0090	+/-1.0	
Calibration Check (9L23020-CCV3)			Lab File ID: ECD2R031.D		Analyzed: 12/23/19 16:45			
Decachlorobiphenyl (Surr)	250	123	80 - 120	10.693	10.701	-0.0080	+/-1.0	*
Calibration Blank (9L23020-CCB3)			Lab File ID: ECD2R032.D		Analyzed: 12/23/19 17:02			
Decachlorobiphenyl (Surr)	100	123	43 - 120	10.692	10.701	-0.0090	+/-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-066SC-A-05-06-191011	10/11/19 09:09	10/12/19 09:20	12/05/19 07:06	54.91	365.00	12/12/19 09:19	7.09	40.00	
PDI-066SC-A-06-07-191011	10/11/19 09:09	10/12/19 09:20	12/05/19 07:06	54.91	365.00	12/12/19 11:05	7.17	40.00	
PDI-066SC-B-00-02-191011	10/11/19 08:40	10/12/19 09:20	12/17/19 07:16	66.94	365.00	12/23/19 12:02	6.20	40.00	
PDI-066SC-B-02-04-191011	10/11/19 08:40	10/12/19 09:20	12/17/19 07:16	66.94	365.00	12/23/19 09:06	6.08	40.00	
PDI-066SC-B-04-06-191011	10/11/19 08:40	10/12/19 09:20	12/17/19 07:16	66.94	365.00	12/23/19 09:41	6.10	40.00	
PDI-066SC-B-06-08-191011	10/11/19 08:40	10/12/19 09:20	01/15/20 10:24	96.07	365.00	01/16/20 09:24	0.96	40.00	
PDI-088SC-B-00-02-191011	10/11/19 16:08	10/12/19 09:20	12/17/19 07:16	66.63	365.00	12/23/19 10:52	6.15	40.00	
PDI-088SC-B-02-04-191011	10/11/19 16:08	10/12/19 09:20	12/17/19 07:16	66.63	365.00	12/23/19 11:27	6.17	40.00	
PDI-088SC-B-04-06-191011	10/11/19 16:08	10/12/19 09:20	12/17/19 07:16	66.63	365.00	12/23/19 12:02	6.20	40.00	
PDI-088SC-B-06-08-191011	10/11/19 16:08	10/12/19 09:20	12/17/19 07:16	66.63	365.00	12/23/19 13:13	6.25	40.00	
PDI-1088SC-B-04-06-191011	10/11/19 16:08	10/12/19 09:20	12/17/19 07:16	66.63	365.00	12/23/19 13:48	6.27	40.00	
PDI-092SC-B-00-02-191011	10/11/19 12:40	10/12/19 09:20	01/15/20 10:24	95.91	365.00	01/16/20 09:59	0.98	40.00	
PDI-092SC-B-02-04-191011	10/11/19 12:40	10/12/19 09:20	12/17/19 07:16	66.78	365.00	12/23/19 14:59	6.32	40.00	
PDI-092SC-B-04-06-191011	10/11/19 12:40	10/12/19 09:20	12/17/19 07:16	66.78	365.00	12/23/19 15:34	6.35	40.00	
PDI-092SC-B-06-08-191011	10/11/19 12:40	10/12/19 09:20	12/17/19 07:16	66.78	365.00	12/23/19 16:10	6.37	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-066SC-A-05-06-191011	A9J0514-18	Sediment
PDI-066SC-A-06-07-191011	A9J0514-19	Sediment
PDI-066SC-B-00-02-191011	A9J0514-28	Sediment
PDI-066SC-B-02-04-191011	A9J0514-29	Sediment
PDI-066SC-B-04-06-191011	A9J0514-30	Sediment
PDI-066SC-B-06-08-191011	A9J0514-31	Sediment
PDI-088SC-B-00-02-191011	A9J0514-32	Sediment
PDI-088SC-B-02-04-191011	A9J0514-33	Sediment
PDI-088SC-B-04-06-191011	A9J0514-34	Sediment
PDI-088SC-B-06-08-191011	A9J0514-35	Sediment
PDI-1088SC-B-04-06-191011	A9J0514-36	Sediment
PDI-092SC-B-00-02-191011	A9J0514-37	Sediment
PDI-092SC-B-02-04-191011	A9J0514-38	Sediment
PDI-092SC-B-04-06-191011	A9J0514-39	Sediment
PDI-092SC-B-06-08-191011	A9J0514-40	Sediment

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: 1/28/2020 3:39PM
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: Sediment

Analyte	MDL	MRL	Units
2,4'-DDD	0.500	1.00	ug/kg
2,4'-DDD [2C]	0.500	1.00	ug/kg
2,4'-DDE	0.500	1.00	ug/kg
2,4'-DDE [2C]	0.500	1.00	ug/kg
2,4'-DDT	0.500	1.00	ug/kg
2,4'-DDT [2C]	0.500	1.00	ug/kg
4,4'-DDD	0.500	1.00	ug/kg
4,4'-DDD [2C]	0.500	1.00	ug/kg
4,4'-DDE	0.500	1.00	ug/kg
4,4'-DDE [2C]	0.500	1.00	ug/kg
4,4'-DDT	0.500	1.00	ug/kg
4,4'-DDT [2C]	0.500	1.00	ug/kg

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

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-066SC-A-05-06-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-18RE1	File ID:	ECD5-12201936.D
Sampled:	10/11/19 09:09	Prepared:	12/05/19 15:26	Analyzed:	12/20/19 21:43
Solids:	57.76	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.69 g / 10 mL
Batch:	9120734	Sequence:	9L20036	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	5	21.9	U
3424-82-6	2,4'-DDE	5	16.2	U
789-02-6	2,4'-DDT [2C]	5	21.9	U
72-54-8	4,4'-DDD	5	20.2	U
72-55-9	4,4'-DDE	5	16.2	U
50-29-3	4,4'-DDT [2C]	5	64.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	81.0	63.1	78	42 - 129	
Decachlorobiphenyl (Surr)	81.0	81.8	101	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-066SC-A-06-07-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-19RE1	File ID:	ECD5-12211915.D
Sampled:	10/11/19 09:09	Prepared:	12/05/19 15:26	Analyzed:	12/21/19 17:35
Solids:	55.35	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.43 g / 10 mL
Batch:	9120734	Sequence:	9L21009	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	5	8.66	U
3424-82-6	2,4'-DDE	5	8.66	U
789-02-6	2,4'-DDT [2C]	5	17.3	U
72-54-8	4,4'-DDD [2C]	5	8.66	U
72-55-9	4,4'-DDE [2C]	5	8.66	U
50-29-3	4,4'-DDT	5	23.4	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	86.6	58.9	68	42 - 129	
Decachlorobiphenyl (Surr) [2C]	86.6	108	125	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-066SC-B-00-02-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-28RE1	File ID:	ECD5-01042030.D
Sampled:	10/11/19 08:40	Prepared:	12/17/19 14:31	Analyzed:	01/05/20 00:37
Solids:	57.19	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.43 g / 20 mL
Batch:	9121314	Sequence:	0A04013	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	5	306	D
3424-82-6	2,4'-DDE [2C]	5	75.4	U
789-02-6	2,4'-DDT [2C]	5	33.5	U
72-54-8	4,4'-DDD	5	768	D
72-55-9	4,4'-DDE	5	101	D
50-29-3	4,4'-DDT [2C]	5	43.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	83.8	62.8	75	42 - 129	
Decachlorobiphenyl (Surr)	83.8	91.5	109	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-066SC-B-02-04-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-29RE1	File ID:	ECD5-01042032.D
Sampled:	10/11/19 08:40	Prepared:	12/17/19 14:31	Analyzed:	01/05/20 01:15
Solids:	56.09	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.25 g / 20 mL
Batch:	9121314	Sequence:	0A04013	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	5	248	D
3424-82-6	2,4'-DDE [2C]	5	52.2	U
789-02-6	2,4'-DDT [2C]	5	47.0	U
72-54-8	4,4'-DDD	5	527	D
72-55-9	4,4'-DDE	5	50.4	U
50-29-3	4,4'-DDT [2C]	5	76.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	87.0	62.1	71	42 - 129	
Decachlorobiphenyl (Surr)	87.0	98.0	113	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-066SC-B-04-06-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-30RE1	File ID:	ECD5-01042034.D
Sampled:	10/11/19 08:40	Prepared:	12/17/19 14:31	Analyzed:	01/05/20 01:52
Solids:	59.51	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.43 g / 20 mL
Batch:	9121314	Sequence:	0A04013	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	5	16.1	U
3424-82-6	2,4'-DDE	5	16.1	U
789-02-6	2,4'-DDT [2C]	5	16.1	U
72-54-8	4,4'-DDD	5	16.1	U
72-55-9	4,4'-DDE	5	16.1	U
50-29-3	4,4'-DDT [2C]	5	59.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	80.6	55.9	69	42 - 129	
Decachlorobiphenyl (Surr)	80.6	87.8	109	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-066SC-B-06-08-191011

Laboratory:	Apex Laboratories		SDG:	Gasco_PreRD_DG 2019	
Client:	Anchor QEA, LLC		Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co	
Matrix:	Sediment	Laboratory ID:	A9J0514-31RE1	File ID:	ECD5-01042036.D
Sampled:	10/11/19 08:40	Prepared:	12/17/19 14:31	Analyzed:	01/05/20 02:30
Solids:	57.41	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.19 g / 10 mL
Batch:	9121314	Sequence:	0A04013	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	5	17.1	U
3424-82-6	2,4'-DDE	5	8.55	U
789-02-6	2,4'-DDT [2C]	5	8.55	U
72-54-8	4,4'-DDD [2C]	5	8.55	U
72-55-9	4,4'-DDE	5	8.55	U
50-29-3	4,4'-DDT [2C]	5	21.4	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	85.5	62.8	74	42 - 129	
Decachlorobiphenyl (Surr)	85.5	82.9	97	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-088SC-B-00-02-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-32RE1	File ID:	ECD5-01042009.D
Sampled:	10/11/19 16:08	Prepared:	12/17/19 14:31	Analyzed:	01/04/20 18:08
Solids:	55.83	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.25 g / 10 mL
Batch:	9121314	Sequence:	0A04013	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	10.1	
3424-82-6	2,4'-DDE [2C]	1	5.53	
789-02-6	2,4'-DDT	1	3.49	U
72-54-8	4,4'-DDD [2C]	1	44.5	
72-55-9	4,4'-DDE	1	8.25	
50-29-3	4,4'-DDT	1	30.5	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	87.4	61.3	70	42 - 129	
Decachlorobiphenyl (Surr) [2C]	87.4	85.6	98	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-088SC-B-02-04-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-33RE1	File ID:	ECD5-01042011.D
Sampled:	10/11/19 16:08	Prepared:	12/17/19 14:31	Analyzed:	01/04/20 18:46
Solids:	57.86	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.63 g / 10 mL
Batch:	9121314	Sequence:	0A04013	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	16.9	
3424-82-6	2,4'-DDE [2C]	1	7.64	
789-02-6	2,4'-DDT	1	11.7	
72-54-8	4,4'-DDD [2C]	1	98.9	
72-55-9	4,4'-DDE	1	10.1	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	81.3	45.8	56	42 - 129	
Decachlorobiphenyl (Surr) [2C]	81.3	82.8	102	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-088SC-B-02-04-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-33RE2	File ID:	ECD5-01072032.D
Sampled:	10/11/19 16:08	Prepared:	12/17/19 14:31	Analyzed:	01/07/20 20:26
Solids:	57.86	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.63 g / 10 mL
Batch:	9121314	Sequence:	0A07035	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
50-29-3	4,4'-DDT	5	575	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	81.3	48.2	59	42 - 129	
Decachlorobiphenyl (Surr) [2C]	81.3	86.1	106	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-088SC-B-04-06-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-34RE1	File ID:	ECD5-01042013.D
Sampled:	10/11/19 16:08	Prepared:	12/17/19 14:31	Analyzed:	01/04/20 19:23
Solids:	57.42	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.38 g / 10 mL
Batch:	9121314	Sequence:	0A04013	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	67.3	
3424-82-6	2,4'-DDE [2C]	1	28.4	
789-02-6	2,4'-DDT	1	10.1	U
72-54-8	4,4'-DDD [2C]	1	200	
72-55-9	4,4'-DDE	1	23.3	
50-29-3	4,4'-DDT	1	108	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	83.9	53.9	64	42 - 129	
Decachlorobiphenyl (Surr) [2C]	83.9	78.1	93	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-088SC-B-06-08-191011

Laboratory:	Apex Laboratories		SDG:	Gasco_PreRD_DG 2019	
Client:	Anchor QEA, LLC		Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co	
Matrix:	Sediment	Laboratory ID:	A9J0514-35RE1	File ID:	ECD5-01072030.D
Sampled:	10/11/19 16:08	Prepared:	12/17/19 14:31	Analyzed:	01/07/20 19:49
Solids:	59.31	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.11 g / 10 mL
Batch:	9121314	Sequence:	0A07035	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	2	32.9	D
3424-82-6	2,4'-DDE [2C]	2	22.3	U
789-02-6	2,4'-DDT	2	15.3	U
72-54-8	4,4'-DDD [2C]	2	67.4	D
72-55-9	4,4'-DDE [2C]	2	50.4	U
50-29-3	4,4'-DDT	2	20.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	83.4	63.9	77	42 - 129	
Decachlorobiphenyl (Surr) [2C]	83.4	97.8	117	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-1088SC-B-04-06-191011

Laboratory:	Apex Laboratories		SDG:	Gasco_PreRD_DG 2019	
Client:	Anchor QEA, LLC		Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co	
Matrix:	Sediment	Laboratory ID:	A9J0514-36RE1	File ID:	ECD5-01042015.D
Sampled:	10/11/19 16:08	Prepared:	12/17/19 14:31	Analyzed:	01/04/20 20:01
Solids:	57.81	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.36 g / 10 mL
Batch:	9121314	Sequence:	0A04013	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	78.1	
3424-82-6	2,4'-DDE [2C]	1	30.9	
789-02-6	2,4'-DDT	1	10.7	U
72-54-8	4,4'-DDD [2C]	1	221	
72-55-9	4,4'-DDE	1	25.4	
50-29-3	4,4'-DDT	1	44.3	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	83.5	62.4	75	42 - 129	
Decachlorobiphenyl (Surr) [2C]	83.5	84.5	101	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-092SC-B-00-02-191011

Laboratory:	Apex Laboratories		SDG:	Gasco_PreRD_DG 2019	
Client:	Anchor QEA, LLC		Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co	
Matrix:	Sediment	Laboratory ID:	A9J0514-37RE1	File ID:	ECD5-01042038.D
Sampled:	10/11/19 12:40	Prepared:	12/17/19 14:31	Analyzed:	01/05/20 03:07
Solids:	57.50	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.71 g / 10 mL
Batch:	9121314	Sequence:	0A04013	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	2	23.5	D
3424-82-6	2,4'-DDE [2C]	2	11.0	U
789-02-6	2,4'-DDT [2C]	2	6.50	U
72-54-8	4,4'-DDD [2C]	2	39.3	D
72-55-9	4,4'-DDE	2	8.77	U
50-29-3	4,4'-DDT [2C]	2	11.4	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	81.2	60.6	75	42 - 129	
Decachlorobiphenyl (Surr) [2C]	81.2	97.4	120	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-092SC-B-02-04-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-38RE1	File ID:	ECD5-01072016.D
Sampled:	10/11/19 12:40	Prepared:	12/17/19 14:31	Analyzed:	01/07/20 15:24
Solids:	50.42	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.1 g / 10 mL
Batch:	9121314	Sequence:	0A07035	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	2	11.0	U
3424-82-6	2,4'-DDE [2C]	2	12.2	U
789-02-6	2,4'-DDT [2C]	2	9.82	U
72-54-8	4,4'-DDD [2C]	2	7.86	U
72-55-9	4,4'-DDE [2C]	2	10.2	U
50-29-3	4,4'-DDT [2C]	2	13.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	98.2	73.2	75	42 - 129	
Decachlorobiphenyl (Surr) [2C]	98.2	111	113	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-092SC-B-04-06-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-39RE1	File ID:	ECD5-01072018.D
Sampled:	10/11/19 12:40	Prepared:	12/17/19 14:31	Analyzed:	01/07/20 16:02
Solids:	55.83	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.1 g / 10 mL
Batch:	9121314	Sequence:	0A07035	Calibration:	A9L1807
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	2	19.9	U
3424-82-6	2,4'-DDE [2C]	2	20.6	U
789-02-6	2,4'-DDT [2C]	2	19.2	U
72-54-8	4,4'-DDD [2C]	2	10.3	U
72-55-9	4,4'-DDE [2C]	2	19.5	U
50-29-3	4,4'-DDT [2C]	2	16.7	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	88.7	60.1	68	42 - 129	
Decachlorobiphenyl (Surr) [2C]	88.7	89.3	101	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-092SC-B-06-08-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-40RE2	File ID:	ECD5-01092029.D
Sampled:	10/11/19 12:40	Prepared:	12/17/19 14:31	Analyzed:	01/09/20 19:16
Solids:	62.70	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.3 g / 10 mL
Batch:	9121314	Sequence:	0A09021	Calibration:	A0A0906
Instrument:	DUALECD5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	2	6.19	U
3424-82-6	2,4'-DDE	2	3.10	U
789-02-6	2,4'-DDT [2C]	2	3.10	U
72-54-8	4,4'-DDD [2C]	2	3.10	U
72-55-9	4,4'-DDE	2	3.10	U
50-29-3	4,4'-DDT [2C]	2	3.10	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	77.4	53.2	69	42 - 129	
Decachlorobiphenyl (Surr) [2C]	77.4	76.9	99	55 - 130	

* 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: 9120734 Batch Matrix: Sediment Preparation: EPA 3546/3640A (GPC)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9120734-BLK1	ECD5-12131921.D	12/05/19 15:26	
Blank	9120734-BLK2	ECD5-12201907.D	12/05/19 15:26	
LCS	9120734-BS1	ECD5-12131922.D	12/05/19 15:26	
LCS	9120734-BS2	ECD5-12201908.D	12/05/19 15:26	
PDI-066SC-A-05-06-191011 (MS)	9120734-MS1	ECD5-12201938.D	12/05/19 15:26	
PDI-066SC-A-05-06-191011 (MSD)	9120734-MSD1	ECD5-12201940.D	12/05/19 15:26	
PDI-066SC-A-05-06-191011	A9J0514-18RE1	ECD5-12201936.D	12/05/19 15:26	
PDI-066SC-A-06-07-191011	A9J0514-19RE1	ECD5-12211915.D	12/05/19 15:26	

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.

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: 9121314 Batch Matrix: Sediment Preparation: EPA 3546/3640A (GPC)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9121314-BLK1	ECD5-01042007.D	12/17/19 14:31	
LCS	9121314-BS1	ECD5-01042008.D	12/17/19 14:31	
PDI-066SC-B-00-02-191011	A9J0514-28RE1	ECD5-01042030.D	12/17/19 14:31	
PDI-066SC-B-02-04-191011	A9J0514-29RE1	ECD5-01042032.D	12/17/19 14:31	
PDI-066SC-B-04-06-191011	A9J0514-30RE1	ECD5-01042034.D	12/17/19 14:31	
PDI-066SC-B-06-08-191011	A9J0514-31RE1	ECD5-01042036.D	12/17/19 14:31	
PDI-088SC-B-00-02-191011	A9J0514-32RE1	ECD5-01042009.D	12/17/19 14:31	
PDI-088SC-B-02-04-191011	A9J0514-33RE1	ECD5-01042011.D	12/17/19 14:31	
PDI-088SC-B-02-04-191011	A9J0514-33RE2	ECD5-01072032.D	12/17/19 14:31	
PDI-088SC-B-04-06-191011	A9J0514-34RE1	ECD5-01042013.D	12/17/19 14:31	
PDI-088SC-B-06-08-191011	A9J0514-35RE1	ECD5-01072030.D	12/17/19 14:31	
PDI-1088SC-B-04-06-191011	A9J0514-36RE1	ECD5-01042015.D	12/17/19 14:31	
PDI-092SC-B-00-02-191011	A9J0514-37RE1	ECD5-01042038.D	12/17/19 14:31	
PDI-092SC-B-02-04-191011	A9J0514-38RE1	ECD5-01072016.D	12/17/19 14:31	
PDI-092SC-B-04-06-191011	A9J0514-39RE1	ECD5-01072018.D	12/17/19 14:31	
PDI-092SC-B-06-08-191011	A9J0514-40RE2	ECD5-01092029.D	12/17/19 14:31	

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.

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:	Sediment	Laboratory ID:	9120734-BLK1	File ID:	ECD5-12131921.D
Prepared:	12/05/19 15:26	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	11 g / 10 mL
Analyzed:	12/13/19 17:29	Instrument:	DUALECD5		
Batch:	9120734	Sequence:	9L13033	Calibration:	A9H2608

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
53-19-0	2,4'-DDD [2C]	0.909	U
3424-82-6	2,4'-DDE	0.909	U
789-02-6	2,4'-DDT	0.909	U
72-54-8	4,4'-DDD [2C]	0.909	U
72-55-9	4,4'-DDE [2C]	0.909	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	45.5	25.9	57	42 - 129	
Decachlorobiphenyl (Surr) [2C]	45.5	45.7	101	55 - 130	

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:	Sediment	Laboratory ID:	9120734-BLK2	File ID:	ECD5-12201907.D
Prepared:	12/05/19 15:26	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	11 g / 10 mL
Analyzed:	12/20/19 12:49	Instrument:	DUALECD5		
Batch:	9120734	Sequence:	9L20036	Calibration:	A9L1807

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
50-29-3	4,4'-DDT [2C]	0.909	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	45.5	29.0	64	42 - 129	
Decachlorobiphenyl (Surr) [2C]	45.5	40.0	88	55 - 130	

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:	Sediment	Laboratory ID:	9121314-BLK1	File ID:	ECD5-01042007.D
Prepared:	12/17/19 14:31	Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	11 g / 10 mL
Analyzed:	01/04/20 17:34	Instrument:	DUALECD5		
Batch:	9121314	Sequence:	0A04013	Calibration:	A9L1807

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
53-19-0	2,4'-DDD [2C]	0.909	U
3424-82-6	2,4'-DDE [2C]	0.909	U
789-02-6	2,4'-DDT [2C]	0.909	U
72-54-8	4,4'-DDD [2C]	0.909	U
72-55-9	4,4'-DDE [2C]	0.909	U
50-29-3	4,4'-DDT [2C]	0.909	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	45.5	31.5	69	42 - 129	
Decachlorobiphenyl (Surr) [2C]	45.5	38.0	84	55 - 130	

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:	Sediment		
Batch:	9120734	Laboratory ID:	9120734-BS1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
2,4'-DDD [2C]	50.0	44.1	88	50 - 150
2,4'-DDE [2C]	50.0	40.7	81	50 - 150
2,4'-DDT [2C]	50.0	55.6	111	50 - 150
4,4'-DDD [2C]	50.0	48.1	96	50 - 150
4,4'-DDE [2C]	50.0	45.3	91	50 - 150
4,4'-DDT [2C]	50.0	66.7	133	50 - 150

* = 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:	Sediment		
Batch:	9120734	Laboratory ID:	9120734-BS2
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
4,4'-DDT [2C]	50.0	55.8	112	50 - 150

* = 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:	Sediment		
Batch:	9121314	Laboratory ID:	9121314-BS1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
2,4'-DDD [2C]	50.0	48.2	96	50 - 150
2,4'-DDE [2C]	50.0	43.1	86	50 - 150
2,4'-DDT [2C]	50.0	61.5	123	50 - 150
4,4'-DDD [2C]	50.0	53.2	106	50 - 150
4,4'-DDE [2C]	50.0	48.8	98	50 - 150
4,4'-DDT	50.0	65.7	131	50 - 150

* = Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

PDI-066SC-A-05-06-191011

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Matrix:	Sediment		
Batch:	9120734	Laboratory ID:	9120734-MS1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.6 g / 10 mL

Source Sample Name: PDI-066SC-A-05-06-191011

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
2,4'-DDD [2C]	81.7	ND	74.7	91	50 - 150
2,4'-DDE	81.7	ND	93.8	115	50 - 150
2,4'-DDT [2C]	81.7	ND	101	124	50 - 150
4,4'-DDD	81.7	ND	101	124	50 - 150
4,4'-DDE	81.7	ND	94.6	116	50 - 150
4,4'-DDT [2C]	81.7	ND	115	140	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

PDI-066SC-A-05-06-191011

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	9120734	Laboratory ID:	9120734-MSD1
Preparation:	EPA 3546/3640A (GPC)	Initial/Final:	10.83 g / 10 mL

Source Sample Name: PDI-066SC-A-05-06-191011

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
2,4'-DDD [2C]	79.9	64.4	81	15	35	50 - 150
2,4'-DDE	79.9	72.2	90	26	35	50 - 150
2,4'-DDT [2C]	79.9	87.4	109	14	35	50 - 150
4,4'-DDD	79.9	77.9	97	26	30	50 - 150
4,4'-DDE	79.9	77.9	97	19	30	50 - 150
4,4'-DDT [2C]	79.9	98.3	42 *	15	30	50 - 150

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:	0A04013	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9L1807

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0A04013-CCV1	ECD5-01042004.D	01/04/20 16:43
Calibration Check	0A04013-CCV2	ECD5-01042005.D	01/04/20 17:00
Calibration Blank	0A04013-CCB1	ECD5-01042006.D	01/04/20 17:17
Blank	9121314-BLK1	ECD5-01042007.D	01/04/20 17:34
LCS	9121314-BS1	ECD5-01042008.D	01/04/20 17:51
PDI-088SC-B-00-02-191011	A9J0514-32RE1	ECD5-01042009.D	01/04/20 18:08
PDI-088SC-B-02-04-191011	A9J0514-33RE1	ECD5-01042011.D	01/04/20 18:46
PDI-088SC-B-04-06-191011	A9J0514-34RE1	ECD5-01042013.D	01/04/20 19:23
PDI-1088SC-B-04-06-191011	A9J0514-36RE1	ECD5-01042015.D	01/04/20 20:01
Calibration Check	0A04013-CCV3	ECD5-01042021.D	01/04/20 21:53
Calibration Check	0A04013-CCV4	ECD5-01042022.D	01/04/20 22:10
Calibration Blank	0A04013-CCB2	ECD5-01042023.D	01/04/20 22:27
PDI-066SC-B-00-02-191011	A9J0514-28RE1	ECD5-01042030.D	01/05/20 00:37
PDI-066SC-B-02-04-191011	A9J0514-29RE1	ECD5-01042032.D	01/05/20 01:15
PDI-066SC-B-04-06-191011	A9J0514-30RE1	ECD5-01042034.D	01/05/20 01:52
PDI-066SC-B-06-08-191011	A9J0514-31RE1	ECD5-01042036.D	01/05/20 02:30
PDI-092SC-B-00-02-191011	A9J0514-37RE1	ECD5-01042038.D	01/05/20 03:07
Calibration Check	0A04013-CCV5	ECD5-01042040.D	01/05/20 03:45
Calibration Check	0A04013-CCV6	ECD5-01042041.D	01/05/20 04:02
Calibration Blank	0A04013-CCB3	ECD5-01042042.D	01/05/20 04:19

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:	0A07035	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9L1807

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0A07035-CCV2	ECD5-01072013.D	01/07/20 14:32
Calibration Check	0A07035-CCV3	ECD5-01072014.D	01/07/20 14:49
Calibration Blank	0A07035-CCB2	ECD5-01072015.D	01/07/20 15:07
PDI-092SC-B-02-04-191011	A9J0514-38RE1	ECD5-01072016.D	01/07/20 15:24
PDI-092SC-B-04-06-191011	A9J0514-39RE1	ECD5-01072018.D	01/07/20 16:02
PDI-088SC-B-06-08-191011	A9J0514-35RE1	ECD5-01072030.D	01/07/20 19:49
PDI-088SC-B-02-04-191011	A9J0514-33RE2	ECD5-01072032.D	01/07/20 20:26
Calibration Check	0A07035-CCV4	ECD5-01072036.D	01/07/20 21:42
Calibration Check	0A07035-CCV5	ECD5-01072037.D	01/07/20 21:59
Calibration Blank	0A07035-CCB3	ECD5-01072038.D	01/07/20 22:16

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:	0A08041	Instrument:	DUALECD5
Matrix:	Water	Calibration:	A0A0906

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	0A08041-ICB1	ECD5-01082010.D	01/08/20 14:26
Cal Standard	0A08041-CAL1	ECD5-01082011.D	01/08/20 14:50
Cal Standard	0A08041-CAL2	ECD5-01082012.D	01/08/20 15:07
Cal Standard	0A08041-CAL3	ECD5-01082013.D	01/08/20 15:24
Cal Standard	0A08041-CAL4	ECD5-01082014.D	01/08/20 15:41
Cal Standard	0A08041-CAL5	ECD5-01082015.D	01/08/20 15:58
Cal Standard	0A08041-CAL6	ECD5-01082016.D	01/08/20 16:16
Cal Standard	0A08041-CAL7	ECD5-01082017.D	01/08/20 16:33
Cal Standard	0A08041-CAL8	ECD5-01082018.D	01/08/20 16:50
Cal Standard	0A08041-CAL9	ECD5-01082019.D	01/08/20 17:07
Initial Cal Check	0A08041-ICV1	ECD5-01082021.D	01/08/20 17:42
Cal Standard	0A08041-CALA	ECD5-01082022.D	01/08/20 17:59
Cal Standard	0A08041-CALB	ECD5-01082023.D	01/08/20 18:16
Cal Standard	0A08041-CALC	ECD5-01082024.D	01/08/20 18:33
Cal Standard	0A08041-CALD	ECD5-01082025.D	01/08/20 18:51
Cal Standard	0A08041-CALE	ECD5-01082026.D	01/08/20 19:08
Cal Standard	0A08041-CALF	ECD5-01082027.D	01/08/20 19:25
Cal Standard	0A08041-CALG	ECD5-01082028.D	01/08/20 19:42
Cal Standard	0A08041-CALH	ECD5-01082029.D	01/08/20 19:59
Cal Standard	0A08041-CALI	ECD5-01082030.D	01/08/20 20:16
Initial Cal Check	0A08041-ICV2	ECD5-01082032.D	01/08/20 20:50

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:	0A09021	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A0A0906

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0A09021-CCV1	ECD5-01092004.D	01/09/20 11:40
Calibration Check	0A09021-CCV2	ECD5-01092005.D	01/09/20 11:57
Calibration Blank	0A09021-CCB1	ECD5-01092006.D	01/09/20 12:14
Calibration Check	0A09021-CCV3	ECD5-01092024.D	01/09/20 17:47
Calibration Check	0A09021-CCV4	ECD5-01092025.D	01/09/20 18:04
Calibration Blank	0A09021-CCB2	ECD5-01092026.D	01/09/20 18:22
PDI-092SC-B-06-08-191011	A9J0514-40RE2	ECD5-01092029.D	01/09/20 19:16
Calibration Check	0A09021-CCV5	ECD5-01092041.D	01/09/20 23:02
Calibration Check	0A09021-CCV6	ECD5-01092042.D	01/09/20 23:19
Calibration Blank	0A09021-CCB3	ECD5-01092043.D	01/09/20 23:36

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:	9H23034	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9H2608

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	9H23034-ICB1	ECD5-08231907.D	08/23/19 13:33
Cal Standard	9H23034-CAL1	ECD5-08231908.D	08/23/19 13:51
Cal Standard	9H23034-CAL2	ECD5-08231909.D	08/23/19 14:08
Cal Standard	9H23034-CAL3	ECD5-08231910.D	08/23/19 14:25
Cal Standard	9H23034-CAL4	ECD5-08231911.D	08/23/19 14:42
Cal Standard	9H23034-CAL5	ECD5-08231912.D	08/23/19 15:00
Cal Standard	9H23034-CAL6	ECD5-08231913.D	08/23/19 15:17
Cal Standard	9H23034-CAL7	ECD5-08231914.D	08/23/19 15:34
Cal Standard	9H23034-CAL8	ECD5-08231915.D	08/23/19 15:52
Initial Cal Check	9H23034-ICV1	ECD5-08231917.D	08/23/19 16:26
Cal Standard	9H23034-CAL9	ECD5-08231918.D	08/23/19 16:44
Cal Standard	9H23034-CALA	ECD5-08231919.D	08/23/19 17:01
Cal Standard	9H23034-CALB	ECD5-08231920.D	08/23/19 17:18
Cal Standard	9H23034-CALC	ECD5-08231921.D	08/23/19 17:35
Cal Standard	9H23034-CALD	ECD5-08231922.D	08/23/19 17:53
Cal Standard	9H23034-CALE	ECD5-08231923.D	08/23/19 18:10
Cal Standard	9H23034-CALF	ECD5-08231924.D	08/23/19 18:27
Cal Standard	9H23034-CALG	ECD5-08231925.D	08/23/19 18:45
Initial Cal Check	9H23034-ICV2	ECD5-08231927.D	08/23/19 19:19

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:	9L13033	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9H2608

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L13033-CCV1	ECD5-12131904.D	12/13/19 12:12
Calibration Check	9L13033-CCV2	ECD5-12131905.D	12/13/19 12:29
Calibration Blank	9L13033-CCB1	ECD5-12131906.D	12/13/19 12:46
Blank	9120734-BLK1	ECD5-12131921.D	12/13/19 17:29
LCS	9120734-BS1	ECD5-12131922.D	12/13/19 17:46
Calibration Check	9L13033-CCV3	ECD5-12131924.D	12/13/19 18:20
Calibration Check	9L13033-CCV4	ECD5-12131925.D	12/13/19 18:37
Calibration Blank	9L13033-CCB2	ECD5-12131926.D	12/13/19 18:55
Calibration Check	9L13033-CCV5	ECD5-12131938.D	12/13/19 22:34
Calibration Check	9L13033-CCV6	ECD5-12131939.D	12/13/19 22:51
Calibration Blank	9L13033-CCB3	ECD5-12131940.D	12/13/19 23:08

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 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:	9L17040	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9L1807

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	9L17040-ICB1	ECD5-12171904.D	12/17/19 11:52
Cal Standard	9L17040-CAL1	ECD5-12171905.D	12/17/19 12:09
Cal Standard	9L17040-CAL2	ECD5-12171906.D	12/17/19 12:26
Cal Standard	9L17040-CAL3	ECD5-12171907.D	12/17/19 12:43
Cal Standard	9L17040-CAL4	ECD5-12171908.D	12/17/19 13:01
Cal Standard	9L17040-CAL5	ECD5-12171909.D	12/17/19 13:18
Cal Standard	9L17040-CAL6	ECD5-12171910.D	12/17/19 13:35
Cal Standard	9L17040-CAL7	ECD5-12171911.D	12/17/19 13:52
Cal Standard	9L17040-CAL8	ECD5-12171912.D	12/17/19 14:09
Cal Standard	9L17040-CAL9	ECD5-12171913.D	12/17/19 14:27
Initial Cal Check	9L17040-ICV1	ECD5-12171915.D	12/17/19 15:01
Cal Standard	9L17040-CALA	ECD5-12171916.D	12/17/19 15:18
Cal Standard	9L17040-CALB	ECD5-12171917.D	12/17/19 15:35
Cal Standard	9L17040-CALC	ECD5-12171918.D	12/17/19 15:53
Cal Standard	9L17040-CALD	ECD5-12171919.D	12/17/19 16:10
Cal Standard	9L17040-CALE	ECD5-12171920.D	12/17/19 16:27
Cal Standard	9L17040-CALF	ECD5-12171921.D	12/17/19 16:44
Cal Standard	9L17040-CALG	ECD5-12171922.D	12/17/19 17:01
Cal Standard	9L17040-CALH	ECD5-12171923.D	12/17/19 17:19
Cal Standard	9L17040-CALI	ECD5-12171924.D	12/17/19 17:36
Initial Cal Check	9L17040-ICV2	ECD5-12171926.D	12/17/19 18:10

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:	9L20036	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9L1807

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L20036-CCV1	ECD5-12201904.D	12/20/19 11:58
Calibration Check	9L20036-CCV2	ECD5-12201905.D	12/20/19 12:15
Calibration Blank	9L20036-CCB1	ECD5-12201906.D	12/20/19 12:32
Blank	9120734-BLK2	ECD5-12201907.D	12/20/19 12:49
LCS	9120734-BS2	ECD5-12201908.D	12/20/19 13:07
Calibration Check	9L20036-CCV3	ECD5-12201920.D	12/20/19 16:47
Calibration Check	9L20036-CCV4	ECD5-12201921.D	12/20/19 17:04
Calibration Blank	9L20036-CCB2	ECD5-12201922.D	12/20/19 17:22
PDI-066SC-A-05-06-191011	A9J0514-18RE1	ECD5-12201936.D	12/20/19 21:43
PDI-066SC-A-05-06-191011 (MS)	9120734-MS1	ECD5-12201938.D	12/20/19 22:21
PDI-066SC-A-05-06-191011 (MSD)	9120734-MSD1	ECD5-12201940.D	12/20/19 22:58
Calibration Check	9L20036-CCV5	ECD5-12201942.D	12/20/19 23:36
Calibration Check	9L20036-CCV6	ECD5-12201943.D	12/20/19 23:54
Calibration Blank	9L20036-CCB3	ECD5-12201944.D	12/21/19 00:11

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:	9L21009	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9L1807

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L21009-CCV1	ECD5-12211904.D	12/21/19 14:24
Calibration Check	9L21009-CCV2	ECD5-12211905.D	12/21/19 14:41
Calibration Blank	9L21009-CCB1	ECD5-12211906.D	12/21/19 14:58
PDI-066SC-A-06-07-191011	A9J0514-19RE1	ECD5-12211915.D	12/21/19 17:35
Calibration Check	9L21009-CCV3	ECD5-12211917.D	12/21/19 18:13
Calibration Check	9L21009-CCV4	ECD5-12211918.D	12/21/19 18:30
Calibration Blank	9L21009-CCB2	ECD5-12211919.D	12/21/19 18:47

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: A0A0906
Date: 01/09/20 14:49
Instrument: DUALECD5

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2,4'-DDD	127233.9	Ave	8.994727	7.715	5.572383E-03			20	
2,4'-DDD [2C]	184439.9	Ave	9.605745	8.643111	1.280134E-02			20	
2,4'-DDE	142591.4	Ave	9.811269	7.342222	7.204752E-03			20	
2,4'-DDE [2C]	210590.9	Ave	8.531601	8.268333	1.726557E-02			20	
2,4'-DDT	146476.3	Ave	9.825225	7.898555	1.066419E-02			20	
2,4'-DDT [2C]	207138.5	XXX	11.41942	8.870445	4.91588E-03				
4,4'-DDD	172653.6	Ave	2.178027	8.015889	1.803436E-02			20	
4,4'-DDE	206185.8	Ave	1.663277	7.594444	2.216168E-02			20	
4,4'-DDT	165661.7	Ave	4.350626	8.214889	2.098691E-02			20	
4,4'-DDT [2C]	228252.9	XXX	13.82611	9.137666	1.188783E-02				
2,4,5,6-TCMX (Surr) [2C]	298083.4	Ave	5.865502	6.126222	1.994939E-02			20	
Decachlorobiphenyl (Surr)	158816.5	XXX	10.60878	9.609556	1.864959E-02				
Decachlorobiphenyl (Surr) [2C]	177947	Ave	8.45679	10.74122	1.451108E-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 8081B

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A0A0906

SDG: Gasco_PreRD_DG 2019

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

Instrument: DUALECD5

Calibration Date: 01/09/20 14:49

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	172848	1	170626	2	175404	5	165919.6	10	168207.7	25	175695.7
4,4'-DDD [2C]	0.5	226570	1	228024	2	226703	5	228734.6	10	230106.3	25	246538.3
4,4'-DDE	0.5	205984	1	201598	2	205882.5	5	208070	10	202139.2	25	208465
4,4'-DDE [2C]	0.5	278282	1	277811	2	270717.5	5	284613	10	282646.2	25	308245.2
4,4'-DDT	0.5	169822	1	163203	2	159844	5	157993.8	10	154575.2	25	167817.7
4,4'-DDT [2C]	0.5	206192	1	203174	2	204336.5	5	205453.6	10	202334	25	229982.9
2,4,5,6-TCMX (Surr)	0.5	225726	1	211254	2	207758	5	190014.8	10	184038.3	25	185780.8
2,4,5,6-TCMX (Surr) [2C]	0.5	316438	1	311231	2	294522.5	5	275220.6	10	269632	25	289948.2
Decachlorobiphenyl (Surr)	0.5	192208	1	176609	2	170211.5	5	155122.6	10	147768.3	25	145968.8
Decachlorobiphenyl (Surr) [2C]	0.5	202416	1	194428	2	177552.5	5	166896.6	10	158682.9	25	163506.5

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: A0A0906
Instrument: DUALECD5
Matrix:
Calibration Date: 01/09/20 14:49

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	143736	1	143303	2	129266.5
2,4'-DDD [2C]							0.5	203698	1	193608	2	172787.5
2,4'-DDE							0.5	163452	1	161136	2	143165
2,4'-DDE [2C]							0.5	230012	1	220925	2	199825
2,4'-DDT							0.5	166662	1	162358	2	144684
2,4'-DDT [2C]							0.5	217156	1	215626	2	183950
4,4'-DDD	50	174327.1	100	177532	200	173322.2						
4,4'-DDD [2C]	50	262112.6	100	274047.5	200	289423.2						
4,4'-DDE	50	210966.2	100	209813.2	200	202754						
4,4'-DDE [2C]	50	326860	100	342401.6	200	350667.2						
4,4'-DDT	50	176497.5	100	172303.9	200	168898.5						
4,4'-DDT [2C]	50	251539.8	100	270459.7	200	280803.8						
2,4,5,6-TCMX (Surr)	50	186674.6	100	186080.1	200	180021						
2,4,5,6-TCMX (Surr) [2C]	50	299470	100	307263.2	200	319025						
Decachlorobiphenyl (Surr)	50	146485.7	100	147363.6	200	147610.5						
Decachlorobiphenyl (Surr) [2C]	50	167129.6	100	183258.6	200	187652.6						

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:	A0A0906	Instrument:	DUALECD5
Matrix:		Calibration Date:	01/09/20 14:49

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	130902.6	10	126332.6	25	111004.7	50	115879.8	100	116925.1	200	127755
2,4'-DDD [2C]	5	184836.2	10	173759.8	25	160041.2	50	170518.3	100	184379.2	200	216331.1
2,4'-DDE	5	150078.2	10	142639.2	25	125983	50	126180	100	129015.7	200	141673.8
2,4'-DDE [2C]	5	212891.8	10	200402.7	25	187451.1	50	193424.7	100	207630.4	200	242755.7
2,4'-DDT	5	153929.4	10	148509.6	25	124868.4	50	133927.9	100	130187.4	200	153160
2,4'-DDT [2C]	5	206068.8	10	199219.6	25	180318.5	50	190790.3	100	212105.1	200	259012.4

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: A9H2608
Date: 08/26/19 15:54
Instrument: DUALECD5

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2,4'-DDD	114125.1	Ave	3.654995	7.70525	1.493266E-02			20	
2,4'-DDD [2C]	188863.5	Ave	5.468165	8.495	9.988916E-03			20	
2,4'-DDE	128261.1	Ave	4.012395	7.333375	2.067566E-02			20	
2,4'-DDE [2C]	212138.1	Ave	4.517808	8.1225	1.164674E-02			20	
2,4'-DDT	109687.6	Ave	4.881428	7.888375	4.012057E-03			20	
2,4'-DDT [2C]	178339.3	Ave	6.244514	8.719	1.272704E-02			20	
4,4'-DDD	157140.6	Ave	3.110384	8.004875	2.289486E-02			20	
4,4'-DDE	188529.8	Ave	2.915791	7.584	2.433162E-02			20	
4,4'-DDT	119560.1	Ave	9.715941	8.202875	1.981001E-02			20	
4,4'-DDT [2C]	189158.9	XXX	11.87705	8.98525	9.169041E-03				
2,4,5,6-TCMX (Surr) [2C]	293366.8	Ave	3.539338	5.98975	1.128579E-02			20	
Decachlorobiphenyl (Surr)	141098.6	Ave	8.332442	9.5925	1.576214E-03			20	
Decachlorobiphenyl (Surr) [2C]	179763.1	Ave	6.182408	10.54062	6.517156E-03			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 8081B

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A9H2608

SDG: Gasco_PreRD_DG 2019

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

Instrument: DUALECD5

Calibration Date: 08/26/19 15:54

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	1	164956	2	157311	5	158099.6	10	156597.4	25	149081.4	50	154523.9
4,4'-DDD [2C]	1	251549	2	244060	5	241728.4	10	242549.6	25	245858.8	50	263189
4,4'-DDE	1	193435	2	194309	5	190670.2	10	189093.1	25	182842.6	50	183547.8
4,4'-DDE [2C]	1	298463	2	299033	5	297599.8	10	304979.2	25	300041.9	50	311094.2
4,4'-DDT	1	113897	2	109095	5	110601.8	10	114655.6	25	116978.7	50	124107.4
4,4'-DDT [2C]	1	179700	2	170891	5	174730.6	10	184111.9	25	179215.5	50	185709.8
2,4,5,6-TCMX (Surr)	1	176748	2	174986	5	166841.2	10	164444.7	25	160633.3	50	161429.6
2,4,5,6-TCMX (Surr) [2C]	1	300053	2	300383	5	287575.2	10	286585.4	25	282916.9	50	283935
Decachlorobiphenyl (Surr)	1	163865	2	154952	5	140210	10	133546.8	25	133705.4	50	133579.8
Decachlorobiphenyl (Surr) [2C]	1	191572	2	195003	5	174184.2	10	167872.8	25	166529.2	50	174613.8

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:	A9H2608	Instrument:	DUALECD5
Matrix:		Calibration Date:	08/26/19 15:54

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					1	120240	2	116544.5	5	112188.4	10	110358.7
2,4'-DDD [2C]					1	192040	2	186798	5	179739.4	10	177879
2,4'-DDE					1	137947	2	132606	5	126633.6	10	124526.5
2,4'-DDE [2C]					1	219164	2	205906	5	205937.4	10	201833.1
2,4'-DDT					1	107110	2	102104.5	5	107393.4	10	105156.5
2,4'-DDT [2C]					1	173338	2	166085	5	174614.8	10	170256.8
4,4'-DDD	100	154371.5	200	162184								
4,4'-DDD [2C]	100	262974.8	200	297801.4								
4,4'-DDE	100	180525.5	200	193815.4								
4,4'-DDE [2C]	100	324996	200	349211.8								
4,4'-DDT	100	121769.6	200	145376.1								
4,4'-DDT [2C]	100	197895	200	241017.2								
2,4,5,6-TCMX (Surr)	100	158509.2	200	164212.7								
2,4,5,6-TCMX (Surr) [2C]	100	292563.3	200	312922.3								
Decachlorobiphenyl (Surr)	100	134054	200	134876.2								
Decachlorobiphenyl (Surr) [2C]	100	177840.7	200	190488.9								

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:	A9H2608	Instrument:	DUALECD5
Matrix:		Calibration Date:	08/26/19 15:54

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	25	109807.1	50	118401.9	100	115875.5	200	109584.8				
2,4'-DDD [2C]	25	175567.4	50	198498.7	100	201189.2	200	199196.5				
2,4'-DDE	25	122376.8	50	130211.8	100	127690.7	200	124096				
2,4'-DDE [2C]	25	199969.3	50	220128	100	221644	200	222523				
2,4'-DDT	25	109151.8	50	113746.5	100	117713.5	200	115124.8				
2,4'-DDT [2C]	25	176222.2	50	176211.8	100	189989.7	200	199996.2				

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: A9L1807
Date: 12/18/19 15:03
Instrument: DUALECD5

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2,4'-DDD	98324.38	Ave	8.715795	7.686111	2.088084E-02			20	
2,4'-DDD [2C]	169537	Ave	9.943229	8.613111	1.621379E-02			20	
2,4'-DDE	107819.7	Ave	7.503468	7.312667	2.777779E-02			20	
2,4'-DDE [2C]	190178.5	Ave	7.97259	8.238222	1.113902E-02			20	
2,4'-DDT	96760.44	Ave	9.22025	7.867556	1.612578E-02			20	
2,4'-DDT [2C]	150094.1	XXX	12.54915	8.839222	4.622832E-03				
4,4'-DDD	135999.2	XXX	10.61143	7.987333	2.514885E-02				
4,4'-DDE	153637.2	Ave	9.652846	7.565222	2.082267E-02			20	
4,4'-DDT	104831.3	XXX	20.34715	8.183333	1.974754E-02				
4,4'-DDT [2C]	159742.6	XXX	25.39576	7.968125	40.4061				
2,4,5,6-TCMX (Surr) [2C]	296868.1	Ave	7.75886	6.092889	1.682337E-02			20	
Decachlorobiphenyl (Surr)	146321.6	XXX	12.54696	9.575555	4.558118E-03				
Decachlorobiphenyl (Surr) [2C]	170280.1	Ave	10.17659	10.70122	1.201289E-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 8081B

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A9L1807

SDG: Gasco_PreRD_DG 2019

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

Instrument: DUALECD5

Calibration Date: 12/18/19 15:03

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	164758	1	135077	2	126158	5	123181.8	10	120887.8	25	130548.6
4,4'-DDD [2C]	0.5	277890	1	228308	2	211511	5	211590	10	212658.9	25	220738.7
4,4'-DDE	0.5	162126	1	146606	2	137812.5	5	138633.8	10	142166.2	25	148891.4
4,4'-DDE [2C]	0.5	288504	1	262707	2	244749	5	251099.6	10	259705.7	25	273392.5
4,4'-DDT	0.5	106714	1	79677	2	81680.5	5	90783	10	92120.8	25	104496.9
4,4'-DDT [2C]	0.5	~~155438~~	1	120042	2	120646.5	5	132049.4	10	136904.1	25	153625.4
2,4,5,6-TCMX (Surr)	0.5	215680	1	184724	2	180511.5	5	168702	10	169926.6	25	169743.8
2,4,5,6-TCMX (Surr) [2C]	0.5	343610	1	297799	2	290295	5	274917.8	10	275999.2	25	279450.4
Decachlorobiphenyl (Surr)	0.5	184950	1	166387	2	151409	5	138652.4	10	133592.2	25	132255.9
Decachlorobiphenyl (Surr) [2C]	0.5	205712	1	184041	2	173601	5	153694.2	10	155928.3	25	153815.1

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: A9L1807
Instrument: DUALECD5
Matrix:
Calibration Date: 12/18/19 15:03

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	113832	1	105189	2	96856.5
2,4'-DDD [2C]							0.5	200956	1	184058	2	166304.5
2,4'-DDE							0.5	121020	1	113603	2	106656.5
2,4'-DDE [2C]							0.5	211188	1	195287	2	183516
2,4'-DDT							0.5	101148	1	95238	2	93433.5
2,4'-DDT [2C]							0.5	155514	1	144489	2	139384.5
4,4'-DDD	50	129990.1	100	141495.6	200	151895.7						
4,4'-DDD [2C]	50	229330	100	253248.8	200	273481						
4,4'-DDE	50	155557	100	170408.2	200	180534						
4,4'-DDE [2C]	50	286310.8	100	314001.5	200	338950.3						
4,4'-DDT	50	116483.3	100	130320.1	200	141205.8						
4,4'-DDT [2C]	50	182000.8	100	206625.9	200	226046.5						
2,4,5,6-TCMX (Surr)	50	168990.9	100	171977.2	200	175071.8						
2,4,5,6-TCMX (Surr) [2C]	50	283533	100	306406.2	200	319802.5						
Decachlorobiphenyl (Surr)	50	130480.9	100	136816.7	200	142350.1						
Decachlorobiphenyl (Surr) [2C]	50	161097.7	100	165184.8	200	179446.5						

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:	A9L1807	Instrument:	DUALECD5
Matrix:		Calibration Date:	12/18/19 15:03

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	93877.8	10	92443	25	88066.44	50	91322.18	100	95886.74	200	107445.8
2,4'-DDD [2C]	5	157022	10	153730.6	25	151384.4	50	158517.4	100	169923.3	200	183937.1
2,4'-DDE	5	101775.8	10	100761	25	98307	50	104033.8	100	105530.7	200	118689.3
2,4'-DDE [2C]	5	175811.6	10	176868.6	25	172155.6	50	186929.9	100	195613.8	200	214235.9
2,4'-DDT	5	87378.4	10	94074.6	25	87488.96	50	94069.72	100	101398.7	200	116614
2,4'-DDT [2C]	5	131959	10	136574.2	25	136232.9	50	149547.7	100	165600.4	200	191545.1

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:	DUALECD5	Calibration:	A0A0906
Lab File ID:	ECD5-01082021.D		
Sequence:	0A08041	Inject Date:	01/08/20
Lab Sample ID:	0A08041-ICV1	Inject Time:	17:42

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
4,4'-DDD	50.0	47.8	-4.5	70 - 130
4,4'-DDD [2C]	50.0	50.7	1.5	70 - 130
4,4'-DDE	50.0	49.1	-1.7	70 - 130
4,4'-DDE [2C]	50.0	50.1	0.2	70 - 130
4,4'-DDT	50.0	49.5	-0.9	70 - 130
4,4'-DDT [2C]	50.0	51.4	2.8	70 - 130
2,4,5,6-TCMX (Surr)	50.0	46.6	-6.8	70 - 130
2,4,5,6-TCMX (Surr) [2C]	50.0	47.2	-5.6	70 - 130
Decachlorobiphenyl (Surr)	50.0	47.7	-4.7	70 - 130
Decachlorobiphenyl (Surr) [2C]	50.0	45.4	-9.2	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
Instrument ID:	DUALECD5	Calibration:	A0A0906
Lab File ID:	ECD5-01082032.D		
Sequence:	0A08041	Inject Date:	01/08/20
Lab Sample ID:	0A08041-ICV2	Inject Time:	20:50

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,4'-DDD	50.0	48.0	-4.0	70 - 130
2,4'-DDD [2C]	50.0	49.9	-0.2	70 - 130
2,4'-DDE	50.0	46.9	-6.1	70 - 130
2,4'-DDE [2C]	50.0	49.9	-0.2	70 - 130
2,4'-DDT	50.0	47.1	-5.9	70 - 130
2,4'-DDT [2C]	50.0	50.6	1.1	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:	DUALECD5	Calibration:	A9H2608
Lab File ID:	ECD5-08231917.D		
Sequence:	9H23034	Inject Date:	08/23/19
Lab Sample ID:	9H23034-ICV1	Inject Time:	16:26

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
4,4'-DDD	50.0	51.2	2.4	70 - 130
4,4'-DDD [2C]	50.0	55.1	10.2	70 - 130
4,4'-DDE	50.0	51.3	2.6	70 - 130
4,4'-DDE [2C]	50.0	52.7	5.3	70 - 130
4,4'-DDT	50.0	53.8	7.5	70 - 130
4,4'-DDT [2C]	50.0	54.1	8.2	70 - 130
2,4,5,6-TCMX (Surr)	50.0	49.5	-1.1	70 - 130
2,4,5,6-TCMX (Surr) [2C]	50.0	49.3	-1.4	70 - 130
Decachlorobiphenyl (Surr)	50.0	49.1	-1.8	70 - 130
Decachlorobiphenyl (Surr) [2C]	50.0	48.2	-3.6	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:	DUALECD5	Calibration:	A9H2608
Lab File ID:	ECD5-08231927.D		
Sequence:	9H23034	Inject Date:	08/23/19
Lab Sample ID:	9H23034-ICV2	Inject Time:	19:19

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,4'-DDD	50.0	47.7	-4.7	70 - 130
2,4'-DDD [2C]	50.0	48.8	-2.4	70 - 130
2,4'-DDE	50.0	47.1	-5.7	70 - 130
2,4'-DDE [2C]	50.0	47.9	-4.3	70 - 130
2,4'-DDT	50.0	48.6	-2.8	70 - 130
2,4'-DDT [2C]	50.0	47.1	-5.8	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
Instrument ID:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-12171915.D		
Sequence:	9L17040	Inject Date:	12/17/19
Lab Sample ID:	9L17040-ICV1	Inject Time:	15:01

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
4,4'-DDD	50.0	53.0	5.9	70 - 130
4,4'-DDD [2C]	50.0	53.0	5.9	70 - 130
4,4'-DDE	50.0	53.0	5.9	70 - 130
4,4'-DDE [2C]	50.0	53.0	5.9	70 - 130
4,4'-DDT	50.0	57.3	14.5	70 - 130
4,4'-DDT [2C]	50.0	54.8	9.7	70 - 130
2,4,5,6-TCMX (Surr)	50.0	48.2	-3.5	70 - 130
2,4,5,6-TCMX (Surr) [2C]	50.0	50.4	0.8	70 - 130
Decachlorobiphenyl (Surr)	50.0	52.0	3.9	70 - 130
Decachlorobiphenyl (Surr) [2C]	50.0	48.8	-2.4	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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-12171926.D		
Sequence:	9L17040	Inject Date:	12/17/19
Lab Sample ID:	9L17040-ICV2	Inject Time:	18:10

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,4'-DDD	50.0	46.2	-7.6	70 - 130
2,4'-DDD [2C]	50.0	48.7	-2.7	70 - 130
2,4'-DDE	50.0	48.6	-2.7	70 - 130
2,4'-DDE [2C]	50.0	49.8	-0.5	70 - 130
2,4'-DDT	50.0	49.4	-1.3	70 - 130
2,4'-DDT [2C]	50.0	53.7	7.5	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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-01042004.D	Calibration Date:	12/18/19 15:03
Sequence:	0A04013	Injection Date:	01/04/20
Lab Sample ID:	0A04013-CCV1	Injection Time:	16:43

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	XXX	50.0	47.6	-4.9				20
4,4'-DDD [2C]	XXX	50.0	53.5	7.0				20
4,4'-DDE	Ave	50.0	47.6		153637.2	146112.9	-4.9	20
4,4'-DDE [2C]	XXX	50.0	52.5	5.1				20
4,4'-DDT	XXX	50.0	56.5	12.9				20
4,4'-DDT [2C]	XXX	50.0	62.6	25.2 *				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-01042005.D	Calibration Date:	12/18/19 15:03
Sequence:	0A04013	Injection Date:	01/04/20
Lab Sample ID:	0A04013-CCV2	Injection Time:	17:00

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	40.7		98324.38	79965.66	-18.7	20
2,4'-DDD [2C]	Ave	50.0	48.1		169537	163254.1	-3.7	20
2,4'-DDE	Ave	50.0	41.1		107819.7	88600.88	-17.8	20
2,4'-DDE [2C]	Ave	50.0	49.4		190178.5	188078.6	-1.1	20
2,4'-DDT	Ave	50.0	49.6		96760.44	96024.04	-0.8	20
2,4'-DDT [2C]	XXX	50.0	58.0	16.1				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-01042021.D	Calibration Date:	12/18/19 15:03
Sequence:	0A04013	Injection Date:	01/04/20
Lab Sample ID:	0A04013-CCV3	Injection Time:	21:53

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	XXX	100	95.9	-4.1				20
4,4'-DDD [2C]	XXX	100	109	9.1				20
4,4'-DDE	Ave	100	98.7		153637.2	151696.7	-1.3	20
4,4'-DDE [2C]	XXX	100	104	3.7				20
4,4'-DDT	XXX	100	106	6.4				20
4,4'-DDT [2C]	XXX	100	118	18.0				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-01042022.D	Calibration Date:	12/18/19 15:03
Sequence:	0A04013	Injection Date:	01/04/20
Lab Sample ID:	0A04013-CCV4	Injection Time:	22:10

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	100	88.5		98324.38	87006.13	-11.5	20
2,4'-DDD [2C]	Ave	100	108		169537	182325.6	7.5	20
2,4'-DDE	Ave	100	89.4		107819.7	96445.29	-10.5	20
2,4'-DDE [2C]	Ave	100	105		190178.5	198969.7	4.6	20
2,4'-DDT	Ave	100	109		96760.44	105858.2	9.4	20
2,4'-DDT [2C]	XXX	100	120	19.6				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-01042040.D	Calibration Date:	12/18/19 15:03
Sequence:	0A04013	Injection Date:	01/05/20
Lab Sample ID:	0A04013-CCV5	Injection Time:	03:45

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	XXX	50.0	47.2	-5.7				20
4,4'-DDD [2C]	XXX	50.0	54.5	9.1				20
4,4'-DDE	Ave	50.0	45.8		153637.2	140634.2	-8.5	20
4,4'-DDE [2C]	XXX	50.0	51.1	2.2				20
4,4'-DDT	XXX	50.0	58.1	16.1				20
4,4'-DDT [2C]	XXX	50.0	64.2	28.4 *				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-01042041.D	Calibration Date:	12/18/19 15:03
Sequence:	0A04013	Injection Date:	01/05/20
Lab Sample ID:	0A04013-CCV6	Injection Time:	04:02

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	40.2		98324.38	78965.14	-19.7	20
2,4'-DDD [2C]	Ave	50.0	48.8		169537	165556.8	-2.3	20
2,4'-DDE	Ave	50.0	41.1		107819.7	88643.06	-17.8	20
2,4'-DDE [2C]	Ave	50.0	49.2		190178.5	187260.8	-1.5	20
2,4'-DDT	Ave	50.0	52.1		96760.44	100887.2	4.3	20
2,4'-DDT [2C]	XXX	50.0	63.1	26.2 *				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-01072013.D	Calibration Date:	12/18/19 15:03
Sequence:	0A07035	Injection Date:	01/07/20
Lab Sample ID:	0A07035-CCV2	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	XXX	100	97.1	-2.9				20
4,4'-DDD [2C]	XXX	100	117	17.3				20
4,4'-DDE	Ave	100	106		153637.2	163442.8	6.4	20
4,4'-DDE [2C]	XXX	100	113	13.3				20
4,4'-DDT	XXX	100	113	13.4				20
4,4'-DDT [2C]	XXX	100	130	30.0 *				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-01072014.D	Calibration Date:	12/18/19 15:03
Sequence:	0A07035	Injection Date:	01/07/20
Lab Sample ID:	0A07035-CCV3	Injection Time:	14:49

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	100	78.1		98324.38	76806.86	-21.9*	20
2,4'-DDD [2C]	Ave	100	99.5		169537	168715.2	-0.5	20
2,4'-DDE	Ave	100	82.2		107819.7	88609.97	-17.8	20
2,4'-DDE [2C]	Ave	100	99.6		190178.5	189401.3	-0.4	20
2,4'-DDT	Ave	100	105		96760.44	101782.7	5.2	20
2,4'-DDT [2C]	XXX	100	117	17.2				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-01072036.D	Calibration Date:	12/18/19 15:03
Sequence:	0A07035	Injection Date:	01/07/20
Lab Sample ID:	0A07035-CCV4	Injection Time:	21:42

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	XXX	50.0	38.8	-22.4 *				20
4,4'-DDD [2C]	XXX	50.0	49.8	-0.5				20
4,4'-DDE	Ave	50.0	37.8		153637.2	116231.8	-24.3*	20
4,4'-DDE [2C]	XXX	50.0	48.2	-3.7				20
4,4'-DDT	XXX	50.0	52.8	5.5				20
4,4'-DDT [2C]	XXX	50.0	62.9	25.7 *				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-01072037.D	Calibration Date:	12/18/19 15:03
Sequence:	0A07035	Injection Date:	01/07/20
Lab Sample ID:	0A07035-CCV5	Injection Time:	21:59

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	35.6		98324.38	70093.78	-28.7*	20
2,4'-DDD [2C]	Ave	50.0	46.8		169537	158611.2	-6.4	20
2,4'-DDE	Ave	50.0	37.0		107819.7	79702.68	-26.1*	20
2,4'-DDE [2C]	Ave	50.0	47.9		190178.5	182275.2	-4.2	20
2,4'-DDT	Ave	50.0	51.8		96760.44	100194.4	3.5	20
2,4'-DDT [2C]	XXX	50.0	65.2	30.4 *				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:	DUALECD5	Calibration:	A0A0906
Lab File ID:	ECD5-01092004.D	Calibration Date:	01/09/20 14:49
Sequence:	0A09021	Injection Date:	01/09/20
Lab Sample ID:	0A09021-CCV1	Injection Time:	11:40

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		172653.6	168707.5	-2.3	20
4,4'-DDD [2C]	Ave	50.0	55.4		245806.6	272455.8	10.8	20
4,4'-DDE	Ave	50.0	49.7		206185.8	205025	-0.6	20
4,4'-DDE [2C]	XXX	50.0	53.9	7.9				20
4,4'-DDT	Ave	50.0	51.8		165661.7	171605.6	3.6	20
4,4'-DDT [2C]	XXX	50.0	56.5	13.0				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:	DUALECD5	Calibration:	A0A0906
Lab File ID:	ECD5-01092005.D	Calibration Date:	01/09/20 14:49
Sequence:	0A09021	Injection Date:	01/09/20
Lab Sample ID:	0A09021-CCV2	Injection Time:	11:57

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	45.7		127233.9	116389.6	-8.5	20
2,4'-DDD [2C]	Ave	50.0	50.1		184439.9	184897.9	0.2	20
2,4'-DDE	Ave	50.0	46.9		142591.4	133766.5	-6.2	20
2,4'-DDE [2C]	Ave	50.0	50.6		210590.9	213137.2	1.2	20
2,4'-DDT	Ave	50.0	48.0		146476.3	140713.3	-3.9	20
2,4'-DDT [2C]	XXX	50.0	52.4	4.8				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:	DUALECD5	Calibration:	A0A0906
Lab File ID:	ECD5-01092024.D	Calibration Date:	01/09/20 14:49
Sequence:	0A09021	Injection Date:	01/09/20
Lab Sample ID:	0A09021-CCV3	Injection Time:	17:47

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	115		172653.6	198561.4	15.0	20
4,4'-DDD [2C]	Ave	100	129		245806.6	317290.2	29.1*	20
4,4'-DDE	Ave	100	112		206185.8	230697.1	11.9	20
4,4'-DDE [2C]	XXX	100	118	17.6				20
4,4'-DDT	Ave	100	120		165661.7	199009.3	20.1*	20
4,4'-DDT [2C]	XXX	100	121	20.8 *				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:	DUALECD5	Calibration:	A0A0906
Lab File ID:	ECD5-01092025.D	Calibration Date:	01/09/20 14:49
Sequence:	0A09021	Injection Date:	01/09/20
Lab Sample ID:	0A09021-CCV4	Injection Time:	18:04

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	100	89.3		127233.9	113584.3	-10.7	20
2,4'-DDD [2C]	Ave	100	101		184439.9	185422.4	0.5	20
2,4'-DDE	Ave	100	88.9		142591.4	126731.9	-11.1	20
2,4'-DDE [2C]	Ave	100	101		210590.9	213585.1	1.4	20
2,4'-DDT	Ave	100	90.2		146476.3	132055.1	-9.8	20
2,4'-DDT [2C]	XXX	100	101	0.7				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:	DUALECD5	Calibration:	A0A0906
Lab File ID:	ECD5-01092041.D	Calibration Date:	01/09/20 14:49
Sequence:	0A09021	Injection Date:	01/09/20
Lab Sample ID:	0A09021-CCV5	Injection Time:	23:02

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	47.3		172653.6	163495.5	-5.3	20
4,4'-DDD [2C]	Ave	50.0	52.7		245806.6	259072.4	5.4	20
4,4'-DDE	Ave	50.0	46.5		206185.8	191750.6	-7.0	20
4,4'-DDE [2C]	XXX	50.0	50.5	1.0				20
4,4'-DDT	Ave	50.0	50.2		165661.7	166391.4	0.4	20
4,4'-DDT [2C]	XXX	50.0	53.6	7.2				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:	DUALECD5	Calibration:	A0A0906
Lab File ID:	ECD5-01092042.D	Calibration Date:	01/09/20 14:49
Sequence:	0A09021	Injection Date:	01/09/20
Lab Sample ID:	0A09021-CCV6	Injection Time:	23:19

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	47.5		127233.9	120956	-4.9	20
2,4'-DDD [2C]	Ave	50.0	52.3		184439.9	193065.2	4.7	20
2,4'-DDE	Ave	50.0	48.1		142591.4	137060.7	-3.9	20
2,4'-DDE [2C]	Ave	50.0	52.5		210590.9	220935.6	4.9	20
2,4'-DDT	Ave	50.0	50.8		146476.3	148690.4	1.5	20
2,4'-DDT [2C]	XXX	50.0	58.0	15.9				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:	DUALECD5	Calibration:	A9H2608
Lab File ID:	ECD5-12131904.D	Calibration Date:	08/26/19 15:54
Sequence:	9L13033	Injection Date:	12/13/19
Lab Sample ID:	9L13033-CCV1	Injection Time:	12:12

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	42.6		157140.6	134009.9	-14.7	20
4,4'-DDD [2C]	Ave	50.0	43.3		256213.9	222032.6	-13.3	20
4,4'-DDE	Ave	50.0	43.6		188529.8	164283.3	-12.9	20
4,4'-DDE [2C]	Ave	50.0	44.4		310677.4	275856.2	-11.2	20
4,4'-DDT	Ave	50.0	52.0		119560.1	124356.4	4.0	20
4,4'-DDT [2C]	XXX	50.0	46.7	-6.6				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:	DUALECD5	Calibration:	A9H2608
Lab File ID:	ECD5-12131905.D	Calibration Date:	08/26/19 15:54
Sequence:	9L13033	Injection Date:	12/13/19
Lab Sample ID:	9L13033-CCV2	Injection Time:	12:29

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	41.7		114125.1	95289.6	-16.5	20
2,4'-DDD [2C]	Ave	50.0	42.5		188863.5	160642.8	-14.9	20
2,4'-DDE	Ave	50.0	40.7		128261.1	104503.4	-18.5	20
2,4'-DDE [2C]	Ave	50.0	44.5		212138.1	188775	-11.0	20
2,4'-DDT	Ave	50.0	47.4		109687.6	104061.7	-5.1	20
2,4'-DDT [2C]	Ave	50.0	43.8		178339.3	156055.2	-12.5	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:	DUALECD5	Calibration:	A9H2608
Lab File ID:	ECD5-12131924.D	Calibration Date:	08/26/19 15:54
Sequence:	9L13033	Injection Date:	12/13/19
Lab Sample ID:	9L13033-CCV3	Injection Time:	18:20

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	87.0		157140.6	136636.9	-13.0	20
4,4'-DDD [2C]	Ave	100	96.2		256213.9	246471.6	-3.8	20
4,4'-DDE	Ave	100	88.6		188529.8	167059.2	-11.4	20
4,4'-DDE [2C]	Ave	100	93.4		310677.4	290064.9	-6.6	20
4,4'-DDT	Ave	100	113		119560.1	135679.1	13.5	20
4,4'-DDT [2C]	XXX	100	106	6.2				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:	DUALECD5	Calibration:	A9H2608
Lab File ID:	ECD5-12131925.D	Calibration Date:	08/26/19 15:54
Sequence:	9L13033	Injection Date:	12/13/19
Lab Sample ID:	9L13033-CCV4	Injection Time:	18:37

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	100	85.6		114125.1	97741.75	-14.4	20
2,4'-DDD [2C]	Ave	100	91.1		188863.5	172066.4	-8.9	20
2,4'-DDE	Ave	100	84.3		128261.1	108143.4	-15.7	20
2,4'-DDE [2C]	Ave	100	92.3		212138.1	195830.7	-7.7	20
2,4'-DDT	Ave	100	109		109687.6	119680.4	9.1	20
2,4'-DDT [2C]	Ave	100	107		178339.3	190263.9	6.7	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:	DUALECD5	Calibration:	A9H2608
Lab File ID:	ECD5-12131938.D	Calibration Date:	08/26/19 15:54
Sequence:	9L13033	Injection Date:	12/13/19
Lab Sample ID:	9L13033-CCV5	Injection Time:	22:34

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	50.0	38.1		157140.6	119823.7	-23.7*	20
4,4'-DDD [2C]	Ave	50.0	41.2		256213.9	210913.2	-17.7	20
4,4'-DDE	Ave	50.0	39.0		188529.8	146884.7	-22.1*	20
4,4'-DDE [2C]	Ave	50.0	39.0		310677.4	242321.8	-22.0*	20
4,4'-DDT	Ave	50.0	46.4		119560.1	110844.8	-7.3	20
4,4'-DDT [2C]	XXX	50.0	43.6	-12.9				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:	DUALECD5	Calibration:	A9H2608
Lab File ID:	ECD5-12131939.D	Calibration Date:	08/26/19 15:54
Sequence:	9L13033	Injection Date:	12/13/19
Lab Sample ID:	9L13033-CCV6	Injection Time:	22:51

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	36.6		114125.1	83536	-26.8*	20
2,4'-DDD [2C]	Ave	50.0	39.5		188863.5	149036.8	-21.1*	20
2,4'-DDE	Ave	50.0	37.5		128261.1	96270.3	-24.9*	20
2,4'-DDE [2C]	Ave	50.0	40.7		212138.1	172858.4	-18.5	20
2,4'-DDT	Ave	50.0	45.2		109687.6	99265.58	-9.5	20
2,4'-DDT [2C]	Ave	50.0	44.1		178339.3	157238.1	-11.8	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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-12201904.D	Calibration Date:	12/18/19 15:03
Sequence:	9L20036	Injection Date:	12/20/19
Lab Sample ID:	9L20036-CCV1	Injection Time:	11:58

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	XXX	50.0	52.6	5.2				20
4,4'-DDD [2C]	XXX	50.0	53.4	6.8				20
4,4'-DDE	Ave	50.0	51.2		153637.2	157282.1	2.4	20
4,4'-DDE [2C]	XXX	50.0	52.6	5.3				20
4,4'-DDT	XXX	50.0	55.2	10.4				20
4,4'-DDT [2C]	XXX	50.0	56.2	12.4				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-12201905.D	Calibration Date:	12/18/19 15:03
Sequence:	9L20036	Injection Date:	12/20/19
Lab Sample ID:	9L20036-CCV2	Injection Time:	12:15

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	44.2		98324.38	86994.36	-11.5	20
2,4'-DDD [2C]	Ave	50.0	45.4		169537	153791.8	-9.3	20
2,4'-DDE	Ave	50.0	46.3		107819.7	99890.34	-7.4	20
2,4'-DDE [2C]	Ave	50.0	46.2		190178.5	175734.6	-7.6	20
2,4'-DDT	Ave	50.0	49.1		96760.44	95079.54	-1.7	20
2,4'-DDT [2C]	XXX	50.0	52.5	4.9				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-12201920.D	Calibration Date:	12/18/19 15:03
Sequence:	9L20036	Injection Date:	12/20/19
Lab Sample ID:	9L20036-CCV3	Injection Time:	16:47

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	XXX	100	94.3	-5.7				20
4,4'-DDD [2C]	XXX	100	99.1	-0.9				20
4,4'-DDE	Ave	100	100		153637.2	154169.6	0.3	20
4,4'-DDE [2C]	XXX	100	98.0	-2.0				20
4,4'-DDT	XXX	100	99.5	-0.5				20
4,4'-DDT [2C]	XXX	100	106	5.6				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-12201921.D	Calibration Date:	12/18/19 15:03
Sequence:	9L20036	Injection Date:	12/20/19
Lab Sample ID:	9L20036-CCV4	Injection Time:	17:04

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	100	86.4		98324.38	84933.02	-13.6	20
2,4'-DDD [2C]	Ave	100	92.8		169537	157310.5	-7.2	20
2,4'-DDE	Ave	100	89.7		107819.7	96687.11	-10.3	20
2,4'-DDE [2C]	Ave	100	95.2		190178.5	181039.8	-4.8	20
2,4'-DDT	Ave	100	96.8		96760.44	93707.71	-3.2	20
2,4'-DDT [2C]	XXX	100	98.8	-1.2				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-12201942.D	Calibration Date:	12/18/19 15:03
Sequence:	9L20036	Injection Date:	12/20/19
Lab Sample ID:	9L20036-CCV5	Injection Time:	23:36

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	XXX	50.0	45.0	-10.0				20
4,4'-DDD [2C]	XXX	50.0	48.7	-2.7				20
4,4'-DDE	Ave	50.0	45.6		153637.2	140032.7	-8.9	20
4,4'-DDE [2C]	XXX	50.0	47.3	-5.4				20
4,4'-DDT	XXX	50.0	53.5	6.9				20
4,4'-DDT [2C]	XXX	50.0	54.7	9.4				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-12201943.D	Calibration Date:	12/18/19 15:03
Sequence:	9L20036	Injection Date:	12/20/19
Lab Sample ID:	9L20036-CCV6	Injection Time:	23:54

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	43.1		98324.38	84751.38	-13.8	20
2,4'-DDD [2C]	Ave	50.0	46.1		169537	156302.7	-7.8	20
2,4'-DDE	Ave	50.0	45.7		107819.7	98453.8	-8.7	20
2,4'-DDE [2C]	Ave	50.0	47.1		190178.5	179105.6	-5.8	20
2,4'-DDT	Ave	50.0	48.5		96760.44	93774.7	-3.1	20
2,4'-DDT [2C]	XXX	50.0	53.9	7.8				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-12211904.D	Calibration Date:	12/18/19 15:03
Sequence:	9L21009	Injection Date:	12/21/19
Lab Sample ID:	9L21009-CCV1	Injection Time:	14:24

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	XXX	50.0	54.1	8.3				20
4,4'-DDD [2C]	XXX	50.0	55.6	11.2				20
4,4'-DDE	Ave	50.0	52.6		153637.2	161500.2	5.1	20
4,4'-DDE [2C]	XXX	50.0	54.0	8.0				20
4,4'-DDT	XXX	50.0	59.9	19.9				20
4,4'-DDT [2C]	XXX	50.0	63.0	26.0 *				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-12211905.D	Calibration Date:	12/18/19 15:03
Sequence:	9L21009	Injection Date:	12/21/19
Lab Sample ID:	9L21009-CCV2	Injection Time:	14:41

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	47.5		98324.38	93469.96	-4.9	20
2,4'-DDD [2C]	Ave	50.0	49.6		169537	168030.3	-0.9	20
2,4'-DDE	Ave	50.0	48.0		107819.7	103529.4	-4.0	20
2,4'-DDE [2C]	Ave	50.0	50.7		190178.5	192732.6	1.3	20
2,4'-DDT	Ave	50.0	53.6		96760.44	103639.8	7.1	20
2,4'-DDT [2C]	XXX	50.0	59.9	19.7				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-12211917.D	Calibration Date:	12/18/19 15:03
Sequence:	9L21009	Injection Date:	12/21/19
Lab Sample ID:	9L21009-CCV3	Injection Time:	18:13

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	XXX	100	101	0.7				20
4,4'-DDD [2C]	XXX	100	105	4.6				20
4,4'-DDE	Ave	100	106		153637.2	162582.1	5.8	20
4,4'-DDE [2C]	XXX	100	102	1.8				20
4,4'-DDT	XXX	100	113	13.1				20
4,4'-DDT [2C]	XXX	100	118	18.1				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:	DUALECD5	Calibration:	A9L1807
Lab File ID:	ECD5-12211918.D	Calibration Date:	12/18/19 15:03
Sequence:	9L21009	Injection Date:	12/21/19
Lab Sample ID:	9L21009-CCV4	Injection Time:	18:30

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	100	89.4		98324.38	87945.66	-10.6	20
2,4'-DDD [2C]	Ave	100	97.8		169537	165884.3	-2.2	20
2,4'-DDE	Ave	100	94.0		107819.7	101307.3	-6.0	20
2,4'-DDE [2C]	Ave	100	99.9		190178.5	190028.2	-0.08	20
2,4'-DDT	Ave	100	108		96760.44	104688.3	8.2	20
2,4'-DDT [2C]	XXX	100	112	12.4				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:	0A04013	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9L1807

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0A04013-CCV1)			Lab File ID: ECD5-01042004.D		Analyzed: 01/04/20 16:43			
2,4,5,6-TCMX (Surr)	50.0	89	80 - 120	5.337	5.373445	-0.0364	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	103	80 - 120	6.054	6.092889	-0.0389	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	93	80 - 120	9.538	9.575555	-0.0376	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	98	80 - 120	10.646	10.70122	-0.0552	+/-1.0	
Calibration Blank (0A04013-CCB1)			Lab File ID: ECD5-01042006.D		Analyzed: 01/04/20 17:17			
2,4,5,6-TCMX (Surr) [2C]	100	98	42 - 129	6.053	6.092889	-0.0399	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	92	55 - 130	10.646	10.70122	-0.0552	+/-1.0	
Blank (9121314-BLK1)			Lab File ID: ECD5-01042007.D		Analyzed: 01/04/20 17:34			
2,4,5,6-TCMX (Surr) [2C]	45.5	69	42 - 129	6.053	6.092889	-0.0399	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	84	55 - 130	10.645	10.70122	-0.0562	+/-1.0	
LCS (9121314-BS1)			Lab File ID: ECD5-01042008.D		Analyzed: 01/04/20 17:51			
2,4,5,6-TCMX (Surr) [2C]	50.0	66	42 - 129	6.052	6.092889	-0.0409	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	89	55 - 130	10.644	10.70122	-0.0572	+/-1.0	
PDI-088SC-B-00-02-191011 (A9J0514-32RE1)			Lab File ID: ECD5-01042009.D		Analyzed: 01/04/20 18:08			
2,4,5,6-TCMX (Surr) [2C]	87.4	70	42 - 129	6.053	6.092889	-0.0399	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	87.4	98	55 - 130	10.646	10.70122	-0.0552	+/-1.0	
PDI-088SC-B-02-04-191011 (A9J0514-33RE1)			Lab File ID: ECD5-01042011.D		Analyzed: 01/04/20 18:46			
2,4,5,6-TCMX (Surr) [2C]	81.3	56	42 - 129	6.053	6.092889	-0.0399	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	81.3	102	55 - 130	10.645	10.70122	-0.0562	+/-1.0	
PDI-088SC-B-04-06-191011 (A9J0514-34RE1)			Lab File ID: ECD5-01042013.D		Analyzed: 01/04/20 19:23			
2,4,5,6-TCMX (Surr) [2C]	83.9	64	42 - 129	6.053	6.092889	-0.0399	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	83.9	93	55 - 130	10.645	10.70122	-0.0562	+/-1.0	
PDI-1088SC-B-04-06-191011 (A9J0514-36RE1)			Lab File ID: ECD5-01042015.D		Analyzed: 01/04/20 20:01			
2,4,5,6-TCMX (Surr) [2C]	83.5	75	42 - 129	6.052	6.092889	-0.0409	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	83.5	101	55 - 130	10.643	10.70122	-0.0582	+/-1.0	
Calibration Check (0A04013-CCV3)			Lab File ID: ECD5-01042021.D		Analyzed: 01/04/20 21:53			
2,4,5,6-TCMX (Surr)	100	93	80 - 120	5.336	5.373445	-0.0374	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	107	80 - 120	6.055	6.092889	-0.0379	+/-1.0	
Decachlorobiphenyl (Surr)	100	99	80 - 120	9.535	9.575555	-0.0406	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	110	80 - 120	10.646	10.70122	-0.0552	+/-1.0	
Calibration Blank (0A04013-CCB2)			Lab File ID: ECD5-01042023.D		Analyzed: 01/04/20 22:27			
2,4,5,6-TCMX (Surr) [2C]	100	102	42 - 129	6.052	6.092889	-0.0409	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	101	55 - 130	10.644	10.70122	-0.0572	+/-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 Co
Sequence:	0A04013	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9L1807

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
PDI-066SC-B-00-02-191011 (A9J0514-28RE1)			Lab File ID: ECD5-01042030.D		Analyzed: 01/05/20 00:37			
2,4,5,6-TCMX (Surr) [2C]	83.8	75	42 - 129	6.053	6.092889	-0.0399	+/-1.0	
Decachlorobiphenyl (Surr)	83.8	109	55 - 130	9.532	9.575555	-0.0436	+/-1.0	
PDI-066SC-B-02-04-191011 (A9J0514-29RE1)			Lab File ID: ECD5-01042032.D		Analyzed: 01/05/20 01:15			
2,4,5,6-TCMX (Surr) [2C]	87.0	71	42 - 129	6.054	6.092889	-0.0389	+/-1.0	
Decachlorobiphenyl (Surr)	87.0	113	55 - 130	9.532	9.575555	-0.0436	+/-1.0	
PDI-066SC-B-04-06-191011 (A9J0514-30RE1)			Lab File ID: ECD5-01042034.D		Analyzed: 01/05/20 01:52			
2,4,5,6-TCMX (Surr) [2C]	80.6	69	42 - 129	6.051	6.092889	-0.0419	+/-1.0	
Decachlorobiphenyl (Surr)	80.6	109	55 - 130	9.531	9.575555	-0.0446	+/-1.0	
PDI-066SC-B-06-08-191011 (A9J0514-31RE1)			Lab File ID: ECD5-01042036.D		Analyzed: 01/05/20 02:30			
2,4,5,6-TCMX (Surr) [2C]	85.5	74	42 - 129	6.051	6.092889	-0.0419	+/-1.0	
Decachlorobiphenyl (Surr)	85.5	97	55 - 130	9.531	9.575555	-0.0446	+/-1.0	
PDI-092SC-B-00-02-191011 (A9J0514-37RE1)			Lab File ID: ECD5-01042038.D		Analyzed: 01/05/20 03:07			
2,4,5,6-TCMX (Surr) [2C]	81.2	75	42 - 129	6.052	6.092889	-0.0409	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	81.2	120	55 - 130	10.643	10.70122	-0.0582	+/-1.0	
Calibration Check (0A04013-CCV5)			Lab File ID: ECD5-01042040.D		Analyzed: 01/05/20 03:45			
2,4,5,6-TCMX (Surr)	50.0	91	80 - 120	5.332	5.373445	-0.0414	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	102	80 - 120	6.051	6.092889	-0.0419	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	98	80 - 120	9.533	9.575555	-0.0426	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	108	80 - 120	10.642	10.70122	-0.0592	+/-1.0	
Calibration Blank (0A04013-CCB3)			Lab File ID: ECD5-01042042.D		Analyzed: 01/05/20 04:19			
2,4,5,6-TCMX (Surr) [2C]	100	98	42 - 129	6.051	6.092889	-0.0419	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	98	55 - 130	10.645	10.70122	-0.0562	+/-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:	0A07035	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9L1807

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0A07035-CCV2)			Lab File ID: ECD5-01072013.D		Analyzed: 01/07/20 14:32			
2,4,5,6-TCMX (Surr)	100	97	80 - 120	5.316	5.373445	-0.0574	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	113	80 - 120	6.036	6.092889	-0.0569	+/-1.0	
Decachlorobiphenyl (Surr)	100	102	80 - 120	9.52	9.575555	-0.0556	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	118	80 - 120	10.63	10.70122	-0.0712	+/-1.0	
Calibration Blank (0A07035-CCB2)			Lab File ID: ECD5-01072015.D		Analyzed: 01/07/20 15:07			
2,4,5,6-TCMX (Surr) [2C]	100	97	25 - 140	6.036	6.092889	-0.0569	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	99	30 - 135	10.63	10.70122	-0.0712	+/-1.0	
PDI-092SC-B-02-04-191011 (A9J0514-38RE1)			Lab File ID: ECD5-01072016.D		Analyzed: 01/07/20 15:24			
2,4,5,6-TCMX (Surr) [2C]	98.2	75	42 - 129	6.036	6.092889	-0.0569	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	98.2	113	55 - 130	10.629	10.70122	-0.0722	+/-1.0	
PDI-092SC-B-04-06-191011 (A9J0514-39RE1)			Lab File ID: ECD5-01072018.D		Analyzed: 01/07/20 16:02			
2,4,5,6-TCMX (Surr) [2C]	88.7	68	42 - 129	6.036	6.092889	-0.0569	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	88.7	101	55 - 130	10.627	10.70122	-0.0742	+/-1.0	
PDI-088SC-B-06-08-191011 (A9J0514-35RE1)			Lab File ID: ECD5-01072030.D		Analyzed: 01/07/20 19:49			
2,4,5,6-TCMX (Surr) [2C]	83.4	77	42 - 129	6.035	6.092889	-0.0579	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	83.4	117	55 - 130	10.628	10.70122	-0.0732	+/-1.0	
PDI-088SC-B-02-04-191011 (A9J0514-33RE2)			Lab File ID: ECD5-01072032.D		Analyzed: 01/07/20 20:26			
2,4,5,6-TCMX (Surr) [2C]	81.3	59	42 - 129	6.035	6.092889	-0.0579	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	81.3	106	55 - 130	10.626	10.70122	-0.0752	+/-1.0	
Calibration Check (0A07035-CCV4)			Lab File ID: ECD5-01072036.D		Analyzed: 01/07/20 21:42			
2,4,5,6-TCMX (Surr)	50.0	84	80 - 120	5.315	5.373445	-0.0584	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	93	80 - 120	6.036	6.092889	-0.0569	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	94	80 - 120	9.518	9.575555	-0.0576	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	103	80 - 120	10.628	10.70122	-0.0732	+/-1.0	
Calibration Blank (0A07035-CCB3)			Lab File ID: ECD5-01072038.D		Analyzed: 01/07/20 22:16			
2,4,5,6-TCMX (Surr) [2C]	100	102	25 - 140	6.037	6.092889	-0.0559	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	107	30 - 135	10.63	10.70122	-0.0712	+/-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:	0A08041	Instrument:	DUALECD5
Matrix:	Water	Calibration:	A0A0906

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0A08041-ICV1)				Lab File ID: ECD5-01082021.D		Analyzed: 01/08/20 17:42		
2,4,5,6-TCMX (Surr)	50.0	93	70 - 130	5.402	5.402555	-0.0006	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	94	70 - 130	6.125	6.126222	-0.0012	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	95	70 - 130	9.608	9.609556	-0.0016	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	91	70 - 130	10.74	10.74122	-0.0012	+/-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:	0A09021	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A0A0906

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0A09021-CCV1)			Lab File ID: ECD5-01092004.D		Analyzed: 01/09/20 11:40			
2,4,5,6-TCMX (Surr)	50.0	93	80 - 120	5.404	5.402555	0.0014	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	103	80 - 120	6.127	6.126222	0.0008	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	96	80 - 120	9.607	9.609556	-0.0026	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	99	80 - 120	10.738	10.74122	-0.0032	+/-1.0	
Calibration Blank (0A09021-CCB1)			Lab File ID: ECD5-01092006.D		Analyzed: 01/09/20 12:14			
2,4,5,6-TCMX (Surr) [2C]	100	101	42 - 129	6.127	6.126222	0.0008	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	96	55 - 130	10.737	10.74122	-0.0042	+/-1.0	
Calibration Check (0A09021-CCV3)			Lab File ID: ECD5-01092024.D		Analyzed: 01/09/20 17:47			
2,4,5,6-TCMX (Surr)	100	104	80 - 120	5.4	5.402555	-0.0026	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	115	80 - 120	6.124	6.126222	-0.0022	+/-1.0	
Decachlorobiphenyl (Surr)	100	107	80 - 120	9.6	9.609556	-0.0096	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	117	80 - 120	10.732	10.74122	-0.0092	+/-1.0	
Calibration Blank (0A09021-CCB2)			Lab File ID: ECD5-01092026.D		Analyzed: 01/09/20 18:22			
2,4,5,6-TCMX (Surr) [2C]	100	103	42 - 129	6.122	6.126222	-0.0042	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	97	55 - 130	10.733	10.74122	-0.0082	+/-1.0	
PDI-092SC-B-06-08-191011 (A9J0514-40RE2)			Lab File ID: ECD5-01092029.D		Analyzed: 01/09/20 19:16			
2,4,5,6-TCMX (Surr) [2C]	77.4	69	42 - 129	6.123	6.126222	-0.0032	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	77.4	99	55 - 130	10.733	10.74122	-0.0082	+/-1.0	
Calibration Check (0A09021-CCV5)			Lab File ID: ECD5-01092041.D		Analyzed: 01/09/20 23:02			
2,4,5,6-TCMX (Surr)	50.0	87	80 - 120	5.403	5.402555	0.0004	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	93	80 - 120	6.126	6.126222	-0.0002	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	95	80 - 120	9.604	9.609556	-0.0056	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	96	80 - 120	10.736	10.74122	-0.0052	+/-1.0	
Calibration Blank (0A09021-CCB3)			Lab File ID: ECD5-01092043.D		Analyzed: 01/09/20 23:36			
2,4,5,6-TCMX (Surr) [2C]	100	106	42 - 129	6.126	6.126222	-0.0002	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	104	55 - 130	10.738	10.74122	-0.0032	+/-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:	9H23034	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9H2608

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (9H23034-ICV1)				Lab File ID: ECD5-08231917.D		Analyzed: 08/23/19 16:26		
2,4,5,6-TCMX (Surr)	50.0	99	70 - 130	5.395	5.39525	-0.0003	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	99	70 - 130	5.989	5.98975	-0.0008	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	98	70 - 130	9.589	9.5925	-0.0035	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	96	70 - 130	10.539	10.54062	-0.0016	+/-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:	9L13033	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9H2608

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9L13033-CCV1)			Lab File ID: ECD5-12131904.D		Analyzed: 12/13/19 12:12			
2,4,5,6-TCMX (Surr)	50.0	100	80 - 120	5.156	5.39525	-0.2393	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	96	80 - 120	5.743	5.98975	-0.2468	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	95	80 - 120	9.341	9.5925	-0.2515	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	108	80 - 120	10.244	10.54062	-0.2966	+/-1.0	
Calibration Blank (9L13033-CCB1)			Lab File ID: ECD5-12131906.D		Analyzed: 12/13/19 12:46			
2,4,5,6-TCMX (Surr) [2C]	100	102	42 - 129	5.741	5.98975	-0.2488	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	116	55 - 130	10.242	10.54062	-0.2986	+/-1.0	
Blank (9120734-BLK1)			Lab File ID: ECD5-12131921.D		Analyzed: 12/13/19 17:29			
2,4,5,6-TCMX (Surr) [2C]	45.5	57	42 - 129	5.739	5.98975	-0.2508	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	101	55 - 130	10.239	10.54062	-0.3016	+/-1.0	
LCS (9120734-BS1)			Lab File ID: ECD5-12131922.D		Analyzed: 12/13/19 17:46			
2,4,5,6-TCMX (Surr) [2C]	50.0	62	42 - 129	5.738	5.98975	-0.2517	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	102	55 - 130	10.24	10.54062	-0.3006	+/-1.0	
Calibration Check (9L13033-CCV3)			Lab File ID: ECD5-12131924.D		Analyzed: 12/13/19 18:20			
2,4,5,6-TCMX (Surr)	100	101	80 - 120	5.152	5.39525	-0.2433	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	96	80 - 120	5.739	5.98975	-0.2508	+/-1.0	
Decachlorobiphenyl (Surr)	100	101	80 - 120	9.338	9.5925	-0.2545	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	113	80 - 120	10.24	10.54062	-0.3006	+/-1.0	
Calibration Blank (9L13033-CCB2)			Lab File ID: ECD5-12131926.D		Analyzed: 12/13/19 18:55			
2,4,5,6-TCMX (Surr) [2C]	100	99	42 - 129	5.739	5.98975	-0.2508	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	121	55 - 130	10.241	10.54062	-0.2996	+/-1.0	
Calibration Check (9L13033-CCV5)			Lab File ID: ECD5-12131938.D		Analyzed: 12/13/19 22:34			
2,4,5,6-TCMX (Surr)	50.0	94	80 - 120	5.152	5.39525	-0.2433	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	81	80 - 120	5.739	5.98975	-0.2508	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	94	80 - 120	9.336	9.5925	-0.2565	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	109	80 - 120	10.238	10.54062	-0.3026	+/-1.0	
Calibration Blank (9L13033-CCB3)			Lab File ID: ECD5-12131940.D		Analyzed: 12/13/19 23:08			
2,4,5,6-TCMX (Surr) [2C]	100	94	42 - 129	5.737	5.98975	-0.2528	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	115	55 - 130	10.239	10.54062	-0.3016	+/-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:	9L17040	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9L1807

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (9L17040-ICV1)			Lab File ID: ECD5-12171915.D		Analyzed: 12/17/19 15:01			
2,4,5,6-TCMX (Surr)	50.0	96	70 - 130	5.373	5.373445	-0.0004	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	101	70 - 130	6.093	6.092889	0.0001	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	104	70 - 130	9.576	9.575555	0.0004	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	98	70 - 130	10.701	10.70122	-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:	9L20036	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9L1807

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9L20036-CCV1)			Lab File ID: ECD5-12201904.D		Analyzed: 12/20/19 11:58			
2,4,5,6-TCMX (Surr)	50.0	88	80 - 120	5.359	5.373445	-0.0144	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	94	80 - 120	6.078	6.092889	-0.0149	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	97	80 - 120	9.559	9.575555	-0.0166	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	90	80 - 120	10.68	10.70122	-0.0212	+/-1.0	
Calibration Blank (9L20036-CCB1)			Lab File ID: ECD5-12201906.D		Analyzed: 12/20/19 12:32			
2,4,5,6-TCMX (Surr) [2C]	100	97	42 - 129	6.077	6.092889	-0.0159	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	96	55 - 130	10.68	10.70122	-0.0212	+/-1.0	
Blank (9120734-BLK2)			Lab File ID: ECD5-12201907.D		Analyzed: 12/20/19 12:49			
2,4,5,6-TCMX (Surr) [2C]	45.5	64	42 - 129	6.076	6.092889	-0.0169	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	88	55 - 130	10.678	10.70122	-0.0232	+/-1.0	
LCS (9120734-BS2)			Lab File ID: ECD5-12201908.D		Analyzed: 12/20/19 13:07			
2,4,5,6-TCMX (Surr) [2C]	50.0	62	42 - 129	6.076	6.092889	-0.0169	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	84	55 - 130	10.679	10.70122	-0.0222	+/-1.0	
Calibration Check (9L20036-CCV3)			Lab File ID: ECD5-12201920.D		Analyzed: 12/20/19 16:47			
2,4,5,6-TCMX (Surr)	100	86	80 - 120	5.355	5.373445	-0.0184	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	95	80 - 120	6.074	6.092889	-0.0189	+/-1.0	
Decachlorobiphenyl (Surr)	100	93	80 - 120	9.556	9.575555	-0.0196	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	95	80 - 120	10.675	10.70122	-0.0262	+/-1.0	
Calibration Blank (9L20036-CCB2)			Lab File ID: ECD5-12201922.D		Analyzed: 12/20/19 17:22			
2,4,5,6-TCMX (Surr) [2C]	100	94	42 - 129	6.074	6.092889	-0.0189	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	92	55 - 130	10.676	10.70122	-0.0252	+/-1.0	
PDI-066SC-A-05-06-191011 (A9J0514-18RE1)			Lab File ID: ECD5-12201936.D		Analyzed: 12/20/19 21:43			
2,4,5,6-TCMX (Surr) [2C]	81.0	78	42 - 129	6.076	6.092889	-0.0169	+/-1.0	
Decachlorobiphenyl (Surr)	81.0	101	55 - 130	9.553	9.575555	-0.0226	+/-1.0	
Matrix Spike (9120734-MS1)			Lab File ID: ECD5-12201938.D		Analyzed: 12/20/19 22:21			
2,4,5,6-TCMX (Surr) [2C]	81.7	78	42 - 129	6.075	6.092889	-0.0179	+/-1.0	
Decachlorobiphenyl (Surr)	81.7	112	55 - 130	9.554	9.575555	-0.0216	+/-1.0	
Matrix Spike Dup (9120734-MSD1)			Lab File ID: ECD5-12201940.D		Analyzed: 12/20/19 22:58			
2,4,5,6-TCMX (Surr) [2C]	79.9	74	42 - 129	6.075	6.092889	-0.0179	+/-1.0	
Decachlorobiphenyl (Surr)	79.9	94	55 - 130	9.553	9.575555	-0.0226	+/-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:	9L20036	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9L1807

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9L20036-CCV5)			Lab File ID: ECD5-12201942.D		Analyzed: 12/20/19 23:36			
2,4,5,6-TCMX (Surr)	50.0	86	80 - 120	5.353	5.373445	-0.0204	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	90	80 - 120	6.072	6.092889	-0.0209	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	89	80 - 120	9.554	9.575555	-0.0216	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	89	80 - 120	10.672	10.70122	-0.0292	+/-1.0	
Calibration Blank (9L20036-CCB3)			Lab File ID: ECD5-12201944.D		Analyzed: 12/21/19 00:11			
2,4,5,6-TCMX (Surr) [2C]	100	96	42 - 129	6.071	6.092889	-0.0219	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	96	55 - 130	10.673	10.70122	-0.0282	+/-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:	9L21009	Instrument:	DUALECD5
Matrix:	Sediment	Calibration:	A9L1807

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9L21009-CCV1)			Lab File ID: ECD5-12211904.D		Analyzed: 12/21/19 14:24			
2,4,5,6-TCMX (Surr)	50.0	93	80 - 120	5.355	5.373445	-0.0184	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	98	80 - 120	6.073	6.092889	-0.0199	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	102	80 - 120	9.556	9.575555	-0.0196	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	100	80 - 120	10.674	10.70122	-0.0272	+/-1.0	
Calibration Blank (9L21009-CCB1)			Lab File ID: ECD5-12211906.D		Analyzed: 12/21/19 14:58			
2,4,5,6-TCMX (Surr) [2C]	100	102	25 - 140	6.073	6.092889	-0.0199	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	104	30 - 135	10.675	10.70122	-0.0262	+/-1.0	
PDI-066SC-A-06-07-191011 (A9J0514-19RE1)			Lab File ID: ECD5-12211915.D		Analyzed: 12/21/19 17:35			
2,4,5,6-TCMX (Surr) [2C]	86.6	68	42 - 129	6.075	6.092889	-0.0179	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	86.6	125	55 - 130	10.675	10.70122	-0.0262	+/-1.0	
Calibration Check (9L21009-CCV3)			Lab File ID: ECD5-12211917.D		Analyzed: 12/21/19 18:13			
2,4,5,6-TCMX (Surr)	100	91	80 - 120	5.353	5.373445	-0.0204	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	100	80 - 120	6.073	6.092889	-0.0199	+/-1.0	
Decachlorobiphenyl (Surr)	100	99	80 - 120	9.552	9.575555	-0.0236	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	104	80 - 120	10.671	10.70122	-0.0302	+/-1.0	
Calibration Blank (9L21009-CCB2)			Lab File ID: ECD5-12211919.D		Analyzed: 12/21/19 18:47			
2,4,5,6-TCMX (Surr) [2C]	100	102	25 - 140	6.071	6.092889	-0.0219	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	104	30 - 135	10.671	10.70122	-0.0302	+/-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-066SC-A-05-06-191011	10/11/19 09:09	10/12/19 09:20	12/05/19 15:26	55.26	14.00	12/20/19 21:43	15.26	40.00	*
PDI-066SC-A-06-07-191011	10/11/19 09:09	10/12/19 09:20	12/05/19 15:26	55.26	14.00	12/21/19 17:35	16.09	40.00	*
PDI-066SC-B-00-02-191011	10/11/19 08:40	10/12/19 09:20	12/17/19 14:31	67.24	14.00	01/05/20 00:37	18.42	40.00	*
PDI-066SC-B-02-04-191011	10/11/19 08:40	10/12/19 09:20	12/17/19 14:31	67.24	14.00	01/05/20 01:15	18.45	40.00	*
PDI-066SC-B-04-06-191011	10/11/19 08:40	10/12/19 09:20	12/17/19 14:31	67.24	14.00	01/05/20 01:52	18.47	40.00	*
PDI-066SC-B-06-08-191011	10/11/19 08:40	10/12/19 09:20	12/17/19 14:31	67.24	14.00	01/05/20 02:30	18.50	40.00	*
PDI-088SC-B-00-02-191011	10/11/19 16:08	10/12/19 09:20	12/17/19 14:31	66.93	14.00	01/04/20 18:08	18.15	40.00	*
PDI-088SC-B-02-04-191011	10/11/19 16:08	10/12/19 09:20	12/17/19 14:31	66.93	14.00	01/04/20 18:46	18.18	40.00	*
PDI-088SC-B-02-04-191011	10/11/19 16:08	10/12/19 09:20	12/17/19 14:31	66.93	14.00	01/07/20 20:26	21.25	40.00	*
PDI-088SC-B-04-06-191011	10/11/19 16:08	10/12/19 09:20	12/17/19 14:31	66.93	14.00	01/04/20 19:23	18.20	40.00	*
PDI-088SC-B-06-08-191011	10/11/19 16:08	10/12/19 09:20	12/17/19 14:31	66.93	14.00	01/07/20 19:49	21.22	40.00	*
PDI-1088SC-B-04-06-191011	10/11/19 16:08	10/12/19 09:20	12/17/19 14:31	66.93	14.00	01/04/20 20:01	18.23	40.00	*
PDI-092SC-B-00-02-191011	10/11/19 12:40	10/12/19 09:20	12/17/19 14:31	67.08	14.00	01/05/20 03:07	18.53	40.00	*
PDI-092SC-B-02-04-191011	10/11/19 12:40	10/12/19 09:20	12/17/19 14:31	67.08	14.00	01/07/20 15:24	21.04	40.00	*
PDI-092SC-B-04-06-191011	10/11/19 12:40	10/12/19 09:20	12/17/19 14:31	67.08	14.00	01/07/20 16:02	21.06	40.00	*
PDI-092SC-B-06-08-191011	10/11/19 12:40	10/12/19 09:20	12/17/19 14:31	67.08	14.00	01/09/20 19:16	23.20	40.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GCMS

METHOD: EPA 8270D PAH

ANALYSES DATA PACKAGE COVER PAGE

EPA 8270D PAH

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-066SC-A-05-06-191011	A9J0514-18	Sediment
PDI-066SC-A-06-07-191011	A9J0514-19	Sediment

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: 1/28/2020 3:39PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D PAH

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

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

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Acenaphthene	1.25	2.50	ug/kg
Acenaphthylene	1.25	2.50	ug/kg
Anthracene	1.25	2.50	ug/kg
Benz(a)anthracene	1.25	2.50	ug/kg
Benzo(a)pyrene	1.25	2.50	ug/kg
Benzo(b)fluoranthene	1.25	2.50	ug/kg
Benzo(k)fluoranthene	1.25	2.50	ug/kg
Benzo(g,h,i)perylene	1.25	2.50	ug/kg
Chrysene	1.25	2.50	ug/kg
Dibenz(a,h)anthracene	1.25	2.50	ug/kg
Fluoranthene	1.25	2.50	ug/kg
Fluorene	1.25	2.50	ug/kg
Indeno(1,2,3-cd)pyrene	1.25	2.50	ug/kg
2-Methylnaphthalene	1.25	2.50	ug/kg
Naphthalene	1.25	2.50	ug/kg
Phenanthrene	1.25	2.50	ug/kg
Pyrene	1.25	2.50	ug/kg

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

ORGANIC ANALYSIS DATA SHEET

EPA 8270D PAH

PDI-066SC-A-05-06-191011

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment	Laboratory ID:	A9J0514-18	File ID:	N12051918.D
Sampled:	10/11/19 09:09	Prepared:	12/05/19 10:22	Analyzed:	12/05/19 19:08
Solids:	57.76	Preparation:	EPA 3546	Initial/Final:	10.27 g / 5 mL
Batch:	9120555	Sequence:	9L05045	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	10000	386000	D
208-96-8	Acenaphthylene	10000	30500	JD
120-12-7	Anthracene	10000	203000	D
56-55-3	Benz(a)anthracene	10000	146000	D
50-32-8	Benzo(a)pyrene	10000	207000	D
205-99-2	Benzo(b)fluoranthene	10000	174000	D
207-08-9	Benzo(k)fluoranthene	10000	56000	D
191-24-2	Benzo(g,h,i)perylene	10000	174000	D
218-01-9	Chrysene	10000	185000	D
53-70-3	Dibenz(a,h)anthracene	10000	21100	U
206-44-0	Fluoranthene	10000	625000	D
86-73-7	Fluorene	10000	202000	D
193-39-5	Indeno(1,2,3-cd)pyrene	10000	144000	D
91-57-6	2-Methylnaphthalene	10000	441000	D
91-20-3	Naphthalene	10000	1900000	BD
85-01-8	Phenanthrene	10000	1180000	D
129-00-0	Pyrene	10000	710000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	84.3	0.00		44 - 115	D
p-Terphenyl-d14 (Surr)	84.3	0.00		54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	158795	7.784	175985	7.79	
Acenaphthene-d10 (ISTD)	99171	9.538	109857	9.539	
Phenanthrene-d10 (ISTD)	155968	11.042	190548	11.048	
Chrysene-d12 (ISTD)	132299	14.726	164589	14.732	
Perylene-d12 (ISTD)	128496	18.194	157007	18.2	
Dibenz(a,h)anthracene-d14 (ISTD)	106470	20.578	133037	20.59	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270D PAH

PDI-066SC-A-06-07-191011

Laboratory:	Apex Laboratories		SDG:	Gasco_PreRD_DG 2019	
Client:	Anchor QEA, LLC		Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co	
Matrix:	Sediment	Laboratory ID:	A9J0514-19	File ID:	N12051921.D
Sampled:	10/11/19 09:09	Prepared:	12/05/19 10:22	Analyzed:	12/05/19 20:45
Solids:	55.35	Preparation:	EPA 3546	Initial/Final:	10.36 g / 5 mL
Batch:	9120555	Sequence:	9L05045	Calibration:	A9I1001
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	10000	219000	D
208-96-8	Acenaphthylene	10000	35100	JD
120-12-7	Anthracene	10000	142000	D
56-55-3	Benz(a)anthracene	10000	118000	D
50-32-8	Benzo(a)pyrene	10000	171000	D
205-99-2	Benzo(b)fluoranthene	10000	144000	D
207-08-9	Benzo(k)fluoranthene	10000	54000	D
191-24-2	Benzo(g,h,i)perylene	10000	136000	D
218-01-9	Chrysene	10000	160000	D
53-70-3	Dibenz(a,h)anthracene	10000	21800	U
206-44-0	Fluoranthene	10000	518000	D
86-73-7	Fluorene	10000	119000	D
193-39-5	Indeno(1,2,3-cd)pyrene	10000	121000	D
91-57-6	2-Methylnaphthalene	10000	267000	D
91-20-3	Naphthalene	10000	1280000	BD
85-01-8	Phenanthrene	10000	877000	D
129-00-0	Pyrene	10000	576000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	87.2	0.00		44 - 115	D
p-Terphenyl-d14 (Surr)	87.2	0.00		54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	149766	7.784	175985	7.79	
Acenaphthene-d10 (ISTD)	84919	9.533	109857	9.539	
Phenanthrene-d10 (ISTD)	132641	11.042	190548	11.048	
Chrysene-d12 (ISTD)	111539	14.72	164589	14.732	
Perylene-d12 (ISTD)	113543	18.188	157007	18.2	
Dibenz(a,h)anthracene-d14 (ISTD)	99138	20.578	133037	20.59	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8270D PAH

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 9120555 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9120555-BLK1	N12051913.D	12/05/19 10:22	
LCS	9120555-BS1	N12051914.D	12/05/19 10:22	
PDI-066SC-A-05-06-191011 (MS)	9120555-MS1	N12051919.D	12/05/19 10:22	
PDI-066SC-A-05-06-191011 (MSD)	9120555-MSD1	N12051920.D	12/05/19 10:22	
PDI-066SC-A-05-06-191011	A9J0514-18	N12051918.D	12/05/19 10:22	
PDI-066SC-A-06-07-191011	A9J0514-19	N12051921.D	12/05/19 10:22	

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 PAH

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Sediment	Laboratory ID:	9120555-BLK1	File ID:	N12051913.D
Prepared:	12/05/19 10:22	Preparation:	EPA 3546	Initial/Final:	11 g / 5 mL
Analyzed:	12/05/19 16:27	Instrument:	SV-GCMS14		
Batch:	9120555	Sequence:	9L05045	Calibration:	A9I1001

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
83-32-9	Acenaphthene	1.14	U
208-96-8	Acenaphthylene	1.14	U
120-12-7	Anthracene	1.14	U
56-55-3	Benz(a)anthracene	1.14	U
50-32-8	Benzo(a)pyrene	1.14	U
205-99-2	Benzo(b)fluoranthene	1.14	U
207-08-9	Benzo(k)fluoranthene	1.14	U
191-24-2	Benzo(g,h,i)perylene	1.14	U
218-01-9	Chrysene	1.14	U
53-70-3	Dibenz(a,h)anthracene	1.14	U
206-44-0	Fluoranthene	1.14	U
86-73-7	Fluorene	1.14	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.14	U
91-57-6	2-Methylnaphthalene	1.14	U
91-20-3	Naphthalene	6.61	B
85-01-8	Phenanthrene	1.14	U
129-00-0	Pyrene	1.14	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	45.5	41.3	91	44 - 115	
p-Terphenyl-d14 (Surr)	45.5	41.8	92	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	154641	7.784	175985	7.79	
Acenaphthene-d10 (ISTD)	94054	9.538	109857	9.539	
Phenanthrene-d10 (ISTD)	156863	11.042	190548	11.048	
Chrysene-d12 (ISTD)	142964	14.726	164589	14.732	
Perylene-d12 (ISTD)	140488	18.194	157007	18.2	
Dibenz(a,h)anthracene-d14 (ISTD)	120066	20.578	133037	20.59	

LCS / LCS DUPLICATE RECOVERY

EPA 8270D PAH

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	9120555	Laboratory ID:	9120555-BS1
Preparation:	EPA 3546	Initial/Final:	10 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	20.0	19.0	95	40 - 122
Acenaphthylene	20.0	17.8	89	32 - 132
Anthracene	20.0	18.8	94	47 - 123
Benz(a)anthracene	20.0	18.8	94	49 - 126
Benzo(a)pyrene	20.0	21.2	106	45 - 129
Benzo(b)fluoranthene	20.0	21.0	105	45 - 132
Benzo(k)fluoranthene	20.0	19.2	96	47 - 132
Benzo(g,h,i)perylene	20.0	20.2	101	43 - 134
Chrysene	20.0	20.7	103	50 - 124
Dibenz(a,h)anthracene	20.0	18.3	91	45 - 134
Fluoranthene	20.0	23.4	117	50 - 127
Fluorene	20.0	18.3	92	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	19.8	99	45 - 133
2-Methylnaphthalene	20.0	16.1	80	38 - 122
Naphthalene	20.0	30.3	152 *	35 - 123
Phenanthrene	20.0	22.0	110	50 - 121
Pyrene	20.0	21.0	105	47 - 127

* = Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D PAH

PDI-066SC-A-05-06-191011

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	9120555	Laboratory ID:	9120555-MS1
Preparation:	EPA 3546	Initial/Final:	10.53 g / 5 mL

Source Sample Name: PDI-066SC-A-05-06-191011

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	32.9	386000	372000	-42800 *	40 - 122
Acenaphthylene	32.9	30500	29000	-4510 *	32 - 132
Anthracene	32.9	203000	196000	-23100 *	47 - 123
Benz(a)anthracene	32.9	146000	138000	-24000 *	49 - 126
Benzo(a)pyrene	32.9	207000	196000	-32500 *	45 - 129
Benzo(b)fluoranthene	32.9	174000	168000	-18700 *	45 - 132
Benzo(k)fluoranthene	32.9	56000	51800	-13000 *	47 - 132
Benzo(g,h,i)perylene	32.9	174000	165000	-28400 *	43 - 134
Chrysene	32.9	185000	179000	-19200 *	50 - 124
Dibenz(a,h)anthracene	32.9	ND	ND	*	45 - 134
Fluoranthene	32.9	625000	592000	-101000 *	50 - 127
Fluorene	32.9	202000	191000	-34400 *	43 - 125
Indeno(1,2,3-cd)pyrene	32.9	144000	133000	-32400 *	45 - 133
2-Methylnaphthalene	32.9	441000	419000	-67000 *	38 - 122
Naphthalene	32.9	1900000	1840000	-184000 *	35 - 123
Phenanthrene	32.9	1180000	1140000	-145000 *	50 - 121
Pyrene	32.9	710000	684000	-80000 *	47 - 127

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D PAH

PDI-066SC-A-05-06-191011

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Sediment		
Batch:	9120555	Laboratory ID:	9120555-MSD1
Preparation:	EPA 3546	Initial/Final:	10.26 g / 5 mL

Source Sample Name: PDI-066SC-A-05-06-191011

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	33.7	464000	233000 *	22	30	40 - 122
Acenaphthylene	33.7	36500	17900 *	23	30	32 - 132
Anthracene	33.7	247000	131000 *	23	30	47 - 123
Benz(a)anthracene	33.7	175000	87100 *	24	30	49 - 126
Benzo(a)pyrene	33.7	251000	131000 *	25	30	45 - 129
Benzo(b)fluoranthene	33.7	205000	92400 *	20	30	45 - 132
Benzo(k)fluoranthene	33.7	73800	52500 *	35 *	30	47 - 132
Benzo(g,h,i)perylene	33.7	209000	103000 *	24	30	43 - 134
Chrysene	33.7	225000	116000 *	23	30	50 - 124
Dibenz(a,h)anthracene	33.7	ND	*		30	45 - 134
Fluoranthene	33.7	761000	402000 *	25	30	50 - 127
Fluorene	33.7	241000	116000 *	23	30	43 - 125
Indeno(1,2,3-cd)pyrene	33.7	173000	86200 *	26	30	45 - 133
2-Methylnaphthalene	33.7	550000	321000 *	27	30	38 - 122
Naphthalene	33.7	2240000	989000 *	19	30	35 - 123
Phenanthrene	33.7	1430000	735000 *	23	30	50 - 121
Pyrene	33.7	852000	422000 *	22	30	47 - 127

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D PAH

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	9I06028	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	9I06028-TUN1	N09061911.D	09/06/19 15:51
Initial Cal Blank	9I06028-ICB1	N09061912.D	09/06/19 16:18
Cal Standard	9I06028-CAL1	N09061913.D	09/06/19 16:51
Cal Standard	9I06028-CAL2	N09061914.D	09/06/19 17:23
Cal Standard	9I06028-CAL3	N09061915.D	09/06/19 17:55
Cal Standard	9I06028-CAL4	N09061916.D	09/06/19 18:27
Cal Standard	9I06028-CAL5	N09061917.D	09/06/19 19:00
Cal Standard	9I06028-CAL6	N09061918.D	09/06/19 19:32
Cal Standard	9I06028-CAL7	N09061919.D	09/06/19 20:04
Cal Standard	9I06028-CAL8	N09061920.D	09/06/19 20:37
Cal Standard	9I06028-CAL9	N09061921.D	09/06/19 21:09
Cal Standard	9I06028-CALA	N09061922.D	09/06/19 21:41
Initial Cal Check	9I06028-ICV1	N09061924.D	09/06/19 22:45

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 PAH

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	9L05045	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	9L05045-TUN1	N12051910.D	12/05/19 14:54
Calibration Check	9L05045-CCV1	N12051911.D	12/05/19 15:22
Calibration Blank	9L05045-CCB1	N12051912.D	12/05/19 15:54
Blank	9120555-BLK1	N12051913.D	12/05/19 16:27
LCS	9120555-BS1	N12051914.D	12/05/19 16:59
PDI-066SC-A-05-06-191011	A9J0514-18	N12051918.D	12/05/19 19:08
PDI-066SC-A-05-06-191011 (MS)	9120555-MS1	N12051919.D	12/05/19 19:40
PDI-066SC-A-05-06-191011 (MSD)	9120555-MSD1	N12051920.D	12/05/19 20:13
PDI-066SC-A-06-07-191011	A9J0514-19	N12051921.D	12/05/19 20:45

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 PAH

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:	N09061911.D	Injection Date:	09/06/19
Instrument ID:	SV-GCMS14	Injection Time:	15:51
Sequence:	9I06028	Lab Sample ID:	9I06028-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.53	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.47	PASS
m/z 197	Less than 2% of m/z 198	0.48	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.86	PASS
m/z 365	1 - 100% of m/z 198	3.62	PASS
m/z 441	Less than 150% of m/z 443	78.02	PASS
m/z 442	0.1 - 200% of m/z 198	93.14	PASS
m/z 443	15 - 24% of m/z 442	19.59	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D PAH

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:	N12051910.D	Injection Date:	12/05/19
Instrument ID:	SV-GCMS14	Injection Time:	14:54
Sequence:	9L05045	Lab Sample ID:	9L05045-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.71	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.59	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	6.88	PASS
m/z 365	1 - 100% of m/z 198	3.81	PASS
m/z 441	Less than 150% of m/z 443	77.50	PASS
m/z 442	0.1 - 200% of m/z 198	121.04	PASS
m/z 443	15 - 24% of m/z 442	19.38	PASS

INITIAL CALIBRATION DATA (Summary)

EPA 8270D PAH

Laboratory: Apex Laboratories SDG: Gasco_PreRD_DG 2019

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

Calibration: A9I1001 Date: 09/10/19 10:37 Instrument: SV-GCMS14

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.421956	Ave	2.101464	9.6727	1.195025E-02			20	
Acenaphthylene	2.170985	Ave	2.552096	9.498	1.184114E-02			20	
Anthracene	1.088444	Ave	2.157422	11.223	6.057048E-03			20	
Benz(a)anthracene	1.161023	Ave	7.869327	14.886	2.183092E-02			20	
Benzo(a)pyrene	0.9876419	Ave	9.000056	18.2396	6.304434E-02			20	
Benzo(b)fluoranthene	1.153887	Ave	5.67895	17.4697	5.010002E-02			20	
Benzo(k)fluoranthene	1.136093	Ave	6.126	17.5355	5.121218E-02			20	
Benzo(g,h,i)perylene	1.308305	Ave	5.850826	21.3008	4.687611E-02			20	
Chrysene	1.098706	Ave	1.523471	14.9673	0.0413593			20	
Dibenz(a,h)anthracene	1.158853	Ave	3.005339	20.8333	3.856247E-02			20	
Fluoranthene	1.178979	Ave	4.301023	12.435	3.109609E-02			20	
Fluorene	1.455085	Ave	3.852542	10.1928	3.089686E-02			20	
Indeno(1,2,3-cd)pyrene	1.233305	Ave	3.076119	20.7652	4.855178E-02			20	
2-Methylnaphthalene	0.9346173	Ave	5.160882	8.5884	7.334806E-03			20	
Naphthalene	1.102926	Ave	2.419226	7.9059	1.784269E-02			20	
Phenanthrene	1.170171	Ave	3.845982	11.1707	1.240085E-02			20	
Pyrene	1.562337	Ave	6.478501	12.7234	2.554012E-02			20	
2-Fluorobiphenyl (Surr)	1.491847	Ave	2.25656	8.9523	3.166423E-02			20	
p-Terphenyl-d14 (Surr)	1.051726	Ave	4.2222	12.9315	1.002441E-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 8270D PAH

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A9I1001

SDG: Gasco_PreRD_DG 2019

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

Instrument: SV-GCMS14

Calibration Date: 09/10/19 10:37

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	1	1.438843	2.5	1.487282	5	1.404065	10	1.417353	25	1.419193	50	1.394003
Acenaphthylene	1	2.050122	2.5	2.174081	5	2.138587	10	2.170914	25	2.195113	50	2.171664
Anthracene	1	1.097223	2.5	1.089279	5	1.048542	10	1.062312	25	1.06872	50	1.076085
Benz(a)anthracene	1	1.393885	2.5	1.220902	5	1.088043	10	1.09326	25	1.113653	50	1.097579
Benzo(a)pyrene	1	0.9831077	2.5	0.860229	5	0.8587498	10	0.9020412	25	0.976879	50	1.004382
Benzo(b)fluoranthene	1	1.117055	2.5	1.085157	5	1.064599	10	1.091936	25	1.128411	50	1.163732
Benzo(k)fluoranthene	1	1.067445	2.5	1.081921	5	1.086293	10	1.035921	25	1.12827	50	1.118386
Benzo(b+k)fluoranthene(s)	2	1.112094	5	1.118006	10	1.116503	20	1.114938	50	1.172148	100	1.178575
Benzo(g,h,i)perylene	1	1.244973	2.5	1.184733	5	1.240673	10	1.251188	25	1.288531	50	1.327508
Chrysene	1	1.134167	2.5	1.107207	5	1.086845	10	1.086606	25	1.097682	50	1.081788
Dibenz(a,h)anthracene	1	1.172765	2.5	1.143563	5	1.121188	10	1.116162	25	1.120297	50	1.14373
Fluoranthene	1	1.194051	2.5	1.126776	5	1.104079	10	1.123912	25	1.161779	50	1.170777
Fluorene	1	1.368696	2.5	1.404786	5	1.408744	10	1.421664	25	1.460973	50	1.446685
Indeno(1,2,3-cd)pyrene	1	1.207624	2.5	1.279667	5	1.185249	10	1.191109	25	1.192038	50	1.22331
1-Methylnaphthalene	1	0.8213813	2.5	0.8752222	5	0.8374479	10	0.9164978	25	0.9229373	50	0.9636201
2-Methylnaphthalene	1	0.8933817	2.5	0.9068991	5	0.8805457	10	0.8856102	25	0.8950085	50	0.9411598
Naphthalene	1	1.158343	2.5	1.134973	5	1.097604	10	1.122705	25	1.090082	50	1.082918
Phenanthrene	1	1.287154	2.5	1.193603	5	1.137078	10	1.164716	25	1.154027	50	1.151784
Pyrene	1	1.63414	2.5	1.742266	5	1.585271	10	1.635519	25	1.580246	50	1.570799
Carbazole	1	0.8723786	2.5	0.8303246	5	0.809563	10	0.8178062	25	0.8662439	50	0.8707417
Dibenzofuran	1	1.760349	2.5	1.772666	5	1.736411	10	1.780314	25	1.790475	50	1.776721
2-Fluorobiphenyl (Surr)	1	1.423811	2.5	1.562065	5	1.481173	10	1.49926	25	1.499776	50	1.48226
p-Terphenyl-d14 (Surr)	1	1.150274	2.5	1.092469	5	1.036656	10	1.057709	25	1.06012	50	1.045507

INITIAL CALIBRATION DATA (Continued)

EPA 8270D PAH

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration: A9I1001
Instrument: SV-GCMS14
Matrix:
Calibration Date: 09/10/19 10:37

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	100	1.443403	200	1.431066	300	1.387896	400	1.396451				
Acenaphthylene	100	2.247844	200	2.243032	300	2.16069	400	2.157799				
Anthracene	100	1.109829	200	1.115327	300	1.102277	400	1.114841				
Benz(a)anthracene	100	1.142091	200	1.148716	300	1.139155	400	1.17295				
Benzo(a)pyrene	100	1.043258	200	1.084563	300	1.067927	400	1.095282				
Benzo(b)fluoranthene	100	1.194311	200	1.23063	300	1.216813	400	1.246224				
Benzo(k)fluoranthene	100	1.195543	200	1.221498	300	1.197767	400	1.227883				
Benzo(b+k)fluoranthene(s)	200	1.228745	400	1.259094	600	1.236491	800	1.266041				
Benzo(g,h,i)perylene	100	1.387838	200	1.395223	300	1.36793	400	1.394456				
Chrysene	100	1.095048	200	1.103107	300	1.080265	400	1.114348				
Dibenz(a,h)anthracene	100	1.178156	200	1.193501	300	1.181668	400	1.217496				
Fluoranthene	100	1.201514	200	1.227472	300	1.217957	400	1.261473				
Fluorene	100	1.525529	200	1.545124	300	1.492702	400	1.475951				
Indeno(1,2,3-cd)pyrene	100	1.260309	200	1.262162	300	1.248776	400	1.282806				
1-Methylnaphthalene	100	0.9858109	200	1.024788	300	1.01574	400	0.9810225				
2-Methylnaphthalene	100	0.9654102	200	1.001432	300	1.001474	400	0.9752517				
Naphthalene	100	1.082489	200	1.091885	300	1.077863	400	1.090395				
Phenanthrene	100	1.157739	200	1.178493	300	1.133633	400	1.143483				
Pyrene	100	1.559688	200	1.478103	300	1.415905	400	1.421434				
Carbazole	100	0.9049028	200	0.9454096	300	0.9401746	400	0.949796				
Dibenzofuran	100	1.831193	200	1.826652	300	1.770993	400	1.764878				
2-Fluorobiphenyl (Surr)	100	1.499049	200	1.496115	300	1.47728	400	1.49768				
p-Terphenyl-d14 (Surr)	100	1.048827	200	1.020622	300	0.9928344	400	1.012238				

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D PAH

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Instrument ID:	SV-GCMS14	Calibration:	A9I1001
Lab File ID:	N09061924.D		
Sequence:	9I06028	Inject Date:	09/06/19
Lab Sample ID:	9I06028-ICV1	Inject Time:	22:45

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Acenaphthene	50.0	50.3	0.7	70 - 130
Acenaphthylene	50.0	51.9	3.9	70 - 130
Anthracene	50.0	51.8	3.6	70 - 130
Benz(a)anthracene	50.0	48.5	-3.0	70 - 130
Benzo(a)pyrene	50.0	51.2	2.4	70 - 130
Benzo(b)fluoranthene	50.0	50.6	1.2	70 - 130
Benzo(k)fluoranthene	50.0	50.0	-0.06	70 - 130
Benzo(g,h,i)perylene	50.0	53.6	7.2	70 - 130
Chrysene	50.0	52.4	4.8	70 - 130
Dibenz(a,h)anthracene	50.0	49.3	-1.3	70 - 130
Fluoranthene	50.0	50.6	1.1	70 - 130
Fluorene	50.0	50.9	1.7	70 - 130
Indeno(1,2,3-cd)pyrene	50.0	50.0	-0.05	70 - 130
2-Methylnaphthalene	50.0	46.8	-6.3	70 - 130
Naphthalene	50.0	49.9	-0.1	70 - 130
Phenanthrene	50.0	50.4	0.8	70 - 130
Pyrene	50.0	50.6	1.2	70 - 130
2-Fluorobiphenyl (Surr)	50.0	49.7	-0.7	70 - 130
p-Terphenyl-d14 (Surr)	50.0	48.7	-2.6	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8270D PAH

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-GCMS14	Calibration:	A9I1001
Lab File ID:	N12051911.D	Calibration Date:	09/10/19 10:37
Sequence:	9L05045	Injection Date:	12/05/19
Lab Sample ID:	9L05045-CCV1	Injection Time:	15:22

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	50.0	47.7		1.421956	1.355945	-4.6	20
Acenaphthylene	Ave	50.0	45.5		2.170985	1.974203	-9.1	20
Anthracene	Ave	50.0	45.4		1.088444	0.9880135	-9.2	20
Benz(a)anthracene	Ave	50.0	44.7		1.161023	1.038247	-10.6	20
Benzo(a)pyrene	Ave	50.0	49.5		0.9876419	0.9775615	-1.0	20
Benzo(b)fluoranthene	Ave	50.0	48.4		1.153887	1.117543	-3.1	20
Benzo(k)fluoranthene	Ave	50.0	48.2		1.136093	1.096295	-3.5	20
Benzo(g,h,i)perylene	Ave	50.0	45.1		1.308305	1.179176	-9.9	20
Chrysene	Ave	50.0	46.1		1.098706	1.013215	-7.8	20
Dibenz(a,h)anthracene	Ave	50.0	47.5		1.158853	1.10025	-5.1	20
Fluoranthene	Ave	50.0	48.8		1.178979	1.149904	-2.5	20
Fluorene	Ave	50.0	46.3		1.455085	1.347643	-7.4	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	45.3		1.233305	1.116577	-9.5	20
2-Methylnaphthalene	Ave	50.0	40.5		0.9346173	0.7576668	-18.9	20
Naphthalene	Ave	50.0	48.5		1.102926	1.070716	-2.9	20
Phenanthrene	Ave	50.0	47.4		1.170171	1.109768	-5.2	20
Pyrene	Ave	50.0	44.5		1.562337	1.389218	-11.1	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 PAH

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	9I06028	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (9I06028-ICV1)			Lab File ID: N09061924.D		Analyzed: 09/06/19 22:45			
2-Fluorobiphenyl (Surr)	50.0	99	70 - 130	8.95	8.9523	-0.0023	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	97	70 - 130	12.925	12.9315	-0.0065	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D PAH

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	9L05045	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (9L05045-CCV1)			Lab File ID: N12051911.D		Analyzed: 12/05/19 15:22			
2-Fluorobiphenyl (Surr)	50.0	104	80 - 120	8.857	8.9523	-0.0953	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	92	80 - 120	12.797	12.9315	-0.1345	+/-1.0	
Calibration Blank (9L05045-CCB1)			Lab File ID: N12051912.D		Analyzed: 12/05/19 15:54			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	0	12.9315	-12.9315	+/-1.0	
Blank (9120555-BLK1)			Lab File ID: N12051913.D		Analyzed: 12/05/19 16:27			
2-Fluorobiphenyl (Surr)	45.5	91	44 - 115	8.851	8.9523	-0.1013	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	92	54 - 127	12.797	12.9315	-0.1345	+/-1.0	
LCS (9120555-BS1)			Lab File ID: N12051914.D		Analyzed: 12/05/19 16:59			
2-Fluorobiphenyl (Surr)	50.0	95	44 - 115	8.851	8.9523	-0.1013	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	89	54 - 127	12.797	12.9315	-0.1345	+/-1.0	
PDI-066SC-A-05-06-191011 (A9J0514-18)			Lab File ID: N12051918.D		Analyzed: 12/05/19 19:08			
2-Fluorobiphenyl (Surr)	84.3		44 - 115	0	8.9523	-8.9523	+/-1.0	*
p-Terphenyl-d14 (Surr)	84.3		54 - 127	0	12.9315	-12.9315	+/-1.0	*
Matrix Spike (9120555-MS1)			Lab File ID: N12051919.D		Analyzed: 12/05/19 19:40			
2-Fluorobiphenyl (Surr)	82.2		44 - 115	0	8.9523	-8.9523	+/-1.0	*
p-Terphenyl-d14 (Surr)	82.2		54 - 127	0	12.9315	-12.9315	+/-1.0	*
Matrix Spike Dup (9120555-MSD1)			Lab File ID: N12051920.D		Analyzed: 12/05/19 20:13			
2-Fluorobiphenyl (Surr)	84.4		44 - 115	0	8.9523	-8.9523	+/-1.0	*
p-Terphenyl-d14 (Surr)	84.4		54 - 127	0	12.9315	-12.9315	+/-1.0	*
PDI-066SC-A-06-07-191011 (A9J0514-19)			Lab File ID: N12051921.D		Analyzed: 12/05/19 20:45			
2-Fluorobiphenyl (Surr)	87.2		44 - 115	0	8.9523	-8.9523	+/-1.0	*
p-Terphenyl-d14 (Surr)	87.2		54 - 127	0	12.9315	-12.9315	+/-1.0	*

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D PAH

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	9L05045	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (9L05045-CCV1)			Lab File ID: N12051911.D			Analyzed: 12/05/19 15:22			
Naphthalene-d8 (ISTD)	175985	7.79	148351	7.883	119	50 - 200	-0.0930	+/-0.50	
Acenaphthene-d10 (ISTD)	109857	9.539	117951	9.638	93	50 - 200	-0.0990	+/-0.50	
Phenanthrene-d10 (ISTD)	190548	11.048	219661	11.147	87	50 - 200	-0.0990	+/-0.50	
Chrysene-d12 (ISTD)	164589	14.732	169841	14.907	97	50 - 200	-0.1750	+/-0.50	
Perylene-d12 (ISTD)	157007	18.2	142416	18.375	110	50 - 200	-0.1750	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	133037	20.59	93265	20.765	143	50 - 200	-0.1750	+/-0.50	
Calibration Blank (9L05045-CCB1)			Lab File ID: N12051912.D			Analyzed: 12/05/19 15:54			
Naphthalene-d8 (ISTD)	145509	7.79	175985	7.79	83	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	84735	9.538	109857	9.539	77	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	125078	11.048	190548	11.048	66	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	108921	14.732	164589	14.732	66	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	106644	18.2	157007	18.2	68	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	96042	20.584	133037	20.59	72	50 - 200	-0.0060	+/-0.50	
Blank (9120555-BLK1)			Lab File ID: N12051913.D			Analyzed: 12/05/19 16:27			
Naphthalene-d8 (ISTD)	154641	7.784	175985	7.79	88	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	94054	9.538	109857	9.539	86	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	156863	11.042	190548	11.048	82	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	142964	14.726	164589	14.732	87	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	140488	18.194	157007	18.2	89	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	120066	20.578	133037	20.59	90	50 - 200	-0.0120	+/-0.50	
LCS (9120555-BS1)			Lab File ID: N12051914.D			Analyzed: 12/05/19 16:59			
Naphthalene-d8 (ISTD)	162573	7.784	175985	7.79	92	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	99578	9.539	109857	9.539	91	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	172919	11.042	190548	11.048	91	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	158580	14.726	164589	14.732	96	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	155284	18.194	157007	18.2	99	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	132594	20.578	133037	20.59	100	50 - 200	-0.0120	+/-0.50	
PDI-066SC-A-05-06-191011 (A9J0514-18)			Lab File ID: N12051918.D			Analyzed: 12/05/19 19:08			
Naphthalene-d8 (ISTD)	158795	7.784	175985	7.79	90	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	99171	9.538	109857	9.539	90	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	155968	11.042	190548	11.048	82	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	132299	14.726	164589	14.732	80	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	128496	18.194	157007	18.2	82	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	106470	20.578	133037	20.59	80	50 - 200	-0.0120	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D PAH

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Sequence:	9L05045	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (9120555-MS1)			Lab File ID: N12051919.D			Analyzed: 12/05/19 19:40			
Naphthalene-d8 (ISTD)	162134	7.784	175985	7.79	92	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	98568	9.538	109857	9.539	90	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	154736	11.042	190548	11.048	81	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	129587	14.726	164589	14.732	79	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	126030	18.188	157007	18.2	80	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	104661	20.578	133037	20.59	79	50 - 200	-0.0120	+/-0.50	
Matrix Spike Dup (9120555-MSD1)			Lab File ID: N12051920.D			Analyzed: 12/05/19 20:13			
Naphthalene-d8 (ISTD)	161913	7.784	175985	7.79	92	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	101431	9.533	109857	9.539	92	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	161684	11.042	190548	11.048	85	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	140483	14.726	164589	14.732	85	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	137390	18.188	157007	18.2	88	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	112707	20.578	133037	20.59	85	50 - 200	-0.0120	+/-0.50	
PDI-066SC-A-06-07-191011 (A9J0514-19)			Lab File ID: N12051921.D			Analyzed: 12/05/19 20:45			
Naphthalene-d8 (ISTD)	149766	7.784	175985	7.79	85	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	84919	9.533	109857	9.539	77	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10 (ISTD)	132641	11.042	190548	11.048	70	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	111539	14.72	164589	14.732	68	50 - 200	-0.0120	+/-0.50	
Perylene-d12 (ISTD)	113543	18.188	157007	18.2	72	50 - 200	-0.0120	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	99138	20.578	133037	20.59	75	50 - 200	-0.0120	+/-0.50	

HOLDING TIME SUMMARY

EPA 8270D PAH

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-066SC-A-05-06-191011	10/11/19 09:09	10/12/19 09:20	12/05/19 10:22	55.05	14.00	12/05/19 19:08	0.37	40.00	*
PDI-066SC-A-06-07-191011	10/11/19 09:09	10/12/19 09:20	12/05/19 10:22	55.05	14.00	12/05/19 20:45	0.43	40.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: WET

METHOD: SM 5310 B MOD

ANALYSES DATA PACKAGE COVER PAGE

SM 5310 B MOD

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-066SC-A-05-06-191011	A9J0514-18	Sediment
PDI-066SC-A-06-07-191011	A9J0514-19	Sediment

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: 1/28/2020 3:39PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

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

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Total Organic Carbon	200	200	mg/kg

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

METHOD DETECTION AND REPORTING LIMITS

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

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

Batch Matrix: Soil

Analyte	MDL	MRL	Units
Total Organic Carbon	0.020	0.020	% by Weight

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

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-066SC-A-05-06-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-18
Sampled: 10/11/19 09:09
Prepared: 12/05/19 19:51
Analyzed: 12/11/19 11:10
Solids: 57.76
Preparation: PSEP-5310B TOC
Initial/Final: 5 N/A / 5 N/A
Batch: 9120592
Sequence: 9L11031
Calibration: A8B0203
Instrument: TOC

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	11	1	E	SM 5310 B MOD

INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-066SC-A-06-07-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-19
Sampled: 10/11/19 09:09
Prepared: 12/05/19 19:51
Analyzed: 12/11/19 11:52
Solids: 55.35
Preparation: PSEP-5310B TOC
Initial/Final: 5 N/A / 5 N/A
Batch: 9120592
Sequence: 9L11031
Calibration: A8B0203
Instrument: TOC

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	8.0	1	E	SM 5310 B MOD

PREPARATION BATCH SUMMARY

SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 9120592 Batch Matrix: Soil
Preparation: PSEP-5310B TOC

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9120592-BLK1		12/05/19 19:51	
LCS	9120592-BS1		12/05/19 19:51	
PDI-066SC-A-05-06-191011 (Dup)	9120592-DUP1		12/05/19 19:51	
PDI-066SC-A-05-06-191011	A9J0514-18		12/05/19 19:51	
PDI-066SC-A-06-07-191011	A9J0514-19		12/05/19 19:51	

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
SM 5310 B MOD

Laboratory:	Apex Laboratories			SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC			Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix:	Soil	Laboratory ID:	9120592-BLK1	File ID:	
Prepared:	12/05/19 19:51	Preparation:	PSEP-5310B TOC	Initial/Final:	5 N/A / 5 N/A
Analyzed:	12/11/19 10:08	Instrument:	TOC		
Batch:	9120592	Sequence:	9L11031	Calibration:	A8B0203

CAS NO.	COMPOUND	CONC. (% by Weight)	Q
TOC	Total Organic Carbon	0.020	U

LCS / LCS DUPLICATE RECOVERY

SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co
Matrix:	Soil		
Batch:	9120592	Laboratory ID:	9120592-BS1
Preparation:	PSEP-5310B TOC	Initial/Final:	5 N/A / 5 N/A

COMPOUND	SPIKE ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS % REC. (*=Out)	QC LIMITS REC.
Total Organic Carbon	10000	10000	101	90 - 110

* = Values outside of QC limits

PDI-066SC-A-05-06-191011

DUPLICATES

SM 5310 B MOD

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Soil
Batch: 9120592
Preparation: PSEP-5310B TOC
Source Sample Name: PDI-066SC-A-05-06-191011

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Laboratory ID: 9120592-DUP1
Lab Source ID: A9J0514-18
Initial/Final: 5 N/A / 5 N/A
% Solids: 57.76

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Organic Carbon	20	11		11		0.5		SM 5310 B MOD

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY
SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	8B02022	Instrument:	TOC
Matrix:	Sediment	Calibration:	A8B0203

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	8B02022-CAL2		02/02/18 17:35
Cal Standard	8B02022-CAL3		02/02/18 17:35
Cal Standard	8B02022-CAL4		02/02/18 17:35
Cal Standard	8B02022-CAL5		02/02/18 17:35
Cal Standard	8B02022-CAL6		02/02/18 17:35
Cal Standard	8B02022-CAL7		02/02/18 17:35
Cal Standard	8B02022-CAL8		02/02/18 17:35
Cal Standard	8B02022-CAL9		02/02/18 17:35
Cal Standard	8B02022-CALA		02/02/18 17:35
Cal Standard	8B02022-CALB		02/02/18 17:35
Initial Cal Check	8B02022-ICV2		02/02/18 17:35
Initial Cal Blank	8B02022-ICB2		02/02/18 17:35

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
SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Sequence:	9L11031	Instrument:	TOC
Matrix:	Soil	Calibration:	A8B0203

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L11031-CCV1		12/11/19 09:45
Calibration Blank	9L11031-CCB1		12/11/19 10:03
Blank	9120592-BLK1		12/11/19 10:08
LCS	9120592-BS1		12/11/19 10:25
PDI-066SC-A-05-06-191011	A9J0514-18		12/11/19 11:10
PDI-066SC-A-05-06-191011 (Dup)	9120592-DUP1		12/11/19 11:28
PDI-066SC-A-06-07-191011	A9J0514-19		12/11/19 11:52
Calibration Check	9L11031-CCV2		12/11/19 15:22
Calibration Blank	9L11031-CCB2		12/11/19 15:40
Calibration Check	9L11031-CCV3		12/11/19 17:31
Calibration Blank	9L11031-CCB3		12/11/19 17:50

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)

SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing
Calibration: A8B0203
Date: 02/02/18 15:56
Instrument: TOC

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Total Organic Carbon		Lin				0.00000			

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

SM 5310 B MOD

Laboratory: Apex Laboratories

Client: Anchor QEA, LLC

Calibration: A8B0203

SDG: Gasco_PreRD_DG 2019

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

Instrument: TOC

Calibration Date: 02/02/18 15:56

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF
Total Organic Carbon	1000		2500		5000		10000		15000		20000	

INITIAL CALIBRATION DATA (Continued)

SM 5310 B MOD

Laboratory:	Apex Laboratories	SDG:	Gasco_PreRD_DG 2019
Client:	Anchor QEA, LLC	Project:	Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Te
Calibration:	A8B0203	Instrument:	TOC
Matrix:		Calibration Date:	02/02/18 15:56

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF
Total Organic Carbon	25000		30000		35000		40000					

INITIAL AND CONTINUING CALIBRATION CHECK

SM 5310 B MOD

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: TOC
Calibration: A8B0203
Control Limt: +/- 10.00%
Sequence: 8B02022

Lab Sample ID	Analyte	True	Found	%R	Units	Method
8B02022-ICV2	Total Organic Carbon	10000	10000	104	mg/kg	SM 5310 B MOD

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

SM 5310 B MOD

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: TOC
Calibration: A8B0203
Control Limt: +/- 10.00%
Sequence: 9L11031

Lab Sample ID	Analyte	True	Found	%R	Units	Method
9L11031-CCV1	Total Organic Carbon	10000	9900	99	mg/kg	SM 5310 B MOD
9L11031-CCV2	Total Organic Carbon	10000	10000	103	mg/kg	SM 5310 B MOD
9L11031-CCV3	Total Organic Carbon	10000	10000	104	mg/kg	SM 5310 B MOD

* Values outside of QC limits

INSTRUMENT BLANKS
SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Instrument ID: TOC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Sequence: 8B02022
Calibration: A8B0203

Lab Sample ID	Analyte	Found	RL	Units	C	Method
8B02022-ICB2	Total Organic Carbon	260	200 (Inst)	mg/kg	*	SM 5310 B MOD

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

INSTRUMENT BLANKS
SM 5310 B MOD

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Instrument ID: TOC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Sequence: 9L11031
Calibration: A8B0203

Lab Sample ID	Analyte	Found	RL	Units	C	Method
9L11031-CCB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9L11031-CCB2	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9L11031-CCB3	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD

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

HOLDING TIME SUMMARY

SM 5310 B MOD

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-066SC-A-05-06-191011	10/11/19 09:09	10/12/19 09:20	12/05/19 19:51	55.45	28.00	12/11/19 11:10	61.08	28.00	*
PDI-066SC-A-06-07-191011	10/11/19 09:09	10/12/19 09:20	12/05/19 19:51	55.45	28.00	12/11/19 11:52	61.11	28.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: WET

METHOD: SM 2540 G

ANALYSES DATA PACKAGE COVER PAGE

SM 2540 G

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-066SC-A-05-06-191011	A9J0514-18	Sediment
PDI-066SC-A-06-07-191011	A9J0514-19	Sediment
PDI-066SC-B-00-02-191011	A9J0514-28	Sediment
PDI-066SC-B-02-04-191011	A9J0514-29	Sediment
PDI-066SC-B-04-06-191011	A9J0514-30	Sediment
PDI-066SC-B-06-08-191011	A9J0514-31	Sediment
PDI-088SC-B-00-02-191011	A9J0514-32	Sediment
PDI-088SC-B-02-04-191011	A9J0514-33	Sediment
PDI-088SC-B-04-06-191011	A9J0514-34	Sediment
PDI-088SC-B-06-08-191011	A9J0514-35	Sediment
PDI-1088SC-B-04-06-191011	A9J0514-36	Sediment
PDI-092SC-B-00-02-191011	A9J0514-37	Sediment
PDI-092SC-B-02-04-191011	A9J0514-38	Sediment
PDI-092SC-B-04-06-191011	A9J0514-39	Sediment
PDI-092SC-B-06-08-191011	A9J0514-40	Sediment

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: 1/28/2020 3:39PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G

Laboratory: Apex Laboratories

SDG: Gasco_PreRD_DG 2019

Client: Anchor QEA, LLC

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

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Total Solids	1.00	1.00	% by Weight

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

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-066SC-A-05-06-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-18
Sampled: 10/11/19 09:09
Prepared: 12/06/19 17:00
Analyzed: 12/09/19 17:32
Solids: 57.76
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120506
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	57.8	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-066SC-A-06-07-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-19
Sampled: 10/11/19 09:09
Prepared: 12/06/19 17:00
Analyzed: 12/09/19 17:32
Solids: 55.35
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120506
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	55.4	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-066SC-B-00-02-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-28
Sampled: 10/11/19 08:40
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 57.19
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	57.2	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-066SC-B-02-04-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-29
Sampled: 10/11/19 08:40
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 56.09
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	56.1	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-066SC-B-04-06-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-30
Sampled: 10/11/19 08:40
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 59.51
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	59.5	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-066SC-B-06-08-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-31
Sampled: 10/11/19 08:40
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 57.41
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	57.4	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-088SC-B-00-02-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-32
Sampled: 10/11/19 16:08
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 55.83
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	55.8	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-088SC-B-02-04-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-33
Sampled: 10/11/19 16:08
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 57.86
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	57.9	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-088SC-B-04-06-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-34
Sampled: 10/11/19 16:08
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 57.42
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	57.4	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-088SC-B-06-08-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-35
Sampled: 10/11/19 16:08
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 59.31
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	59.3	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-1088SC-B-04-06-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-36
Sampled: 10/11/19 16:08
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 57.81
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	57.8	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-092SC-B-00-02-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-37
Sampled: 10/11/19 12:40
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 57.50
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	57.5	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-092SC-B-02-04-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-38
Sampled: 10/11/19 12:40
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 50.42
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	50.4	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-092SC-B-04-06-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-39
Sampled: 10/11/19 12:40
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 55.83
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	55.8	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-092SC-B-06-08-191011

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores
Matrix: Sediment
Laboratory ID: A9J0514-40
Sampled: 10/11/19 12:40
Prepared: 12/14/19 09:25
Analyzed: 12/19/19 18:32
Solids: 62.70
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 9120919
Calibration:
Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	62.7	1		SM 2540 G

PREPARATION BATCH SUMMARY

SM 2540 G

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 9120506 Batch Matrix: Sediment Preparation: Total Solids (SM2540G/PSEP)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PDI-066SC-A-05-06-191011 (Dup)	9120506-DUP1		12/06/19 17:00	
PDI-066SC-A-05-06-191011	A9J0514-18		12/06/19 17:00	
PDI-066SC-A-06-07-191011	A9J0514-19		12/06/19 17:00	

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.

PREPARATION BATCH SUMMARY

SM 2540 G

Laboratory: Apex Laboratories
SDG: Gasco_PreRD_DG 2019
Client: Anchor QEA, LLC
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cc
Batch: 9120919 Batch Matrix: Sediment Preparation: Total Solids (SM2540G/PSEP)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PDI-066SC-B-00-02-191011 (Dup)	9120919-DUP1		12/14/19 09:25	
PDI-092SC-B-00-02-191011 (Dup)	9120919-DUP2		12/14/19 09:25	
PDI-066SC-B-00-02-191011	A9J0514-28		12/14/19 09:25	
PDI-066SC-B-02-04-191011	A9J0514-29		12/14/19 09:25	
PDI-066SC-B-04-06-191011	A9J0514-30		12/14/19 09:25	
PDI-066SC-B-06-08-191011	A9J0514-31		12/14/19 09:25	
PDI-088SC-B-00-02-191011	A9J0514-32		12/14/19 09:25	
PDI-088SC-B-02-04-191011	A9J0514-33		12/14/19 09:25	
PDI-088SC-B-04-06-191011	A9J0514-34		12/14/19 09:25	
PDI-088SC-B-06-08-191011	A9J0514-35		12/14/19 09:25	
PDI-1088SC-B-04-06-191011	A9J0514-36		12/14/19 09:25	
PDI-092SC-B-00-02-191011	A9J0514-37		12/14/19 09:25	
PDI-092SC-B-02-04-191011	A9J0514-38		12/14/19 09:25	
PDI-092SC-B-04-06-191011	A9J0514-39		12/14/19 09:25	
PDI-092SC-B-06-08-191011	A9J0514-40		12/14/19 09:25	

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.

PDI-066SC-A-05-06-191011

DUPLICATES

SM 2540 G

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 9120506
Preparation: Total Solids (SM2540G/PSEP)
Source Sample Name: PDI-066SC-A-05-06-191011

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP T
Laboratory ID: 9120506-DUP1
Lab Source ID: A9J0514-18
Initial/Final: 1 N/A / 1 N/A
% Solids: 57.76

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Solids	10	57.8		57.8		0.03		SM 2540 G

* Values outside of QC limits

PDI-066SC-B-00-02-191011

DUPLICATES

SM 2540 G

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 9120919
Preparation: Total Solids (SM2540G/PSEP)
Source Sample Name: PDI-066SC-B-00-02-191011

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Laboratory ID: 9120919-DUP1
Lab Source ID: A9J0514-28
Initial/Final: 1 N/A / 1 N/A
% Solids: 57.19

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Solids	10	57.2		58.0		1		SM 2540 G

* Values outside of QC limits

PDI-092SC-B-00-02-191011

DUPLICATES

SM 2540 G

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 9120919
Preparation: Total Solids (SM2540G/PSEP)
Source Sample Name: PDI-092SC-B-00-02-191011

SDG: Gasco_PreRD_DG 2019
Project: Gasco_PreRD_DG 2019 - 4a-b. DOC-CAP
Laboratory ID: 9120919-DUP2
Lab Source ID: A9J0514-37
Initial/Final: 1 N/A / 1 N/A
% Solids: 57.50

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Solids	10	57.5		56.9		1		SM 2540 G

* Values outside of QC limits

HOLDING TIME SUMMARY

SM 2540 G

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-066SC-A-05-06-191011	10/11/19 09:09	10/12/19 09:20	12/06/19 17:00	56.33	180.00	12/09/19 17:32	3.02		
PDI-066SC-A-06-07-191011	10/11/19 09:09	10/12/19 09:20	12/06/19 17:00	56.33	180.00	12/09/19 17:32	3.02		
PDI-066SC-B-00-02-191011	10/11/19 08:40	10/12/19 09:20	12/14/19 09:25	64.03	180.00	12/19/19 18:32	5.38		
PDI-066SC-B-02-04-191011	10/11/19 08:40	10/12/19 09:20	12/14/19 09:25	64.03	180.00	12/19/19 18:32	5.38		
PDI-066SC-B-04-06-191011	10/11/19 08:40	10/12/19 09:20	12/14/19 09:25	64.03	180.00	12/19/19 18:32	5.38		
PDI-066SC-B-06-08-191011	10/11/19 08:40	10/12/19 09:20	12/14/19 09:25	64.03	180.00	12/19/19 18:32	5.38		
PDI-088SC-B-00-02-191011	10/11/19 16:08	10/12/19 09:20	12/14/19 09:25	63.72	180.00	12/19/19 18:32	5.38		
PDI-088SC-B-02-04-191011	10/11/19 16:08	10/12/19 09:20	12/14/19 09:25	63.72	180.00	12/19/19 18:32	5.38		
PDI-088SC-B-04-06-191011	10/11/19 16:08	10/12/19 09:20	12/14/19 09:25	63.72	180.00	12/19/19 18:32	5.38		
PDI-088SC-B-06-08-191011	10/11/19 16:08	10/12/19 09:20	12/14/19 09:25	63.72	180.00	12/19/19 18:32	5.38		
PDI-1088SC-B-04-06-191011	10/11/19 16:08	10/12/19 09:20	12/14/19 09:25	63.72	180.00	12/19/19 18:32	5.38		
PDI-092SC-B-00-02-191011	10/11/19 12:40	10/12/19 09:20	12/14/19 09:25	63.86	180.00	12/19/19 18:32	5.38		
PDI-092SC-B-02-04-191011	10/11/19 12:40	10/12/19 09:20	12/14/19 09:25	63.86	180.00	12/19/19 18:32	5.38		
PDI-092SC-B-04-06-191011	10/11/19 12:40	10/12/19 09:20	12/14/19 09:25	63.86	180.00	12/19/19 18:32	5.38		
PDI-092SC-B-06-08-191011	10/11/19 12:40	10/12/19 09:20	12/14/19 09:25	63.86	180.00	12/19/19 18:32	5.38		

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

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data

Batch 9120536
Sequence 9L12014 (A9J0514-18,19)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120536 (Soil)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	9120536-BLK1		QC	12/05/19 07:06	31	2				100					
	9120536-BS1		QC	12/05/19 07:06	30	2	A19K318		100	100					
	A9J0095-32	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.7	2				100	PDI-071SC-A-08-09-191001	+1262,1268			
	A9J0095-33	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.37	2				100	PDI-071SC-A-09-10-191001	+1262,1268			
	A9J0096-23	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.69	2				100	PDI-042SC-A-01-02-190930	+1262,1268			
	A9J0096-24	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.66	2				100	PDI-042SC-A-02-03-190930	+1262,1268			
	A9J0096-34	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.15	2				100	PDI-044SC-A-00-01-190930	+1262,1268			
	A9J0096-35	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.16	2				100	PDI-044SC-A-01-02-190930	+1262,1268			
	A9J0353-41	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.15	2				100	PDI-043SC-A-02-03-191008	+1262,1268			
	A9J0353-42	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.07	2				100	PDI-043SC-A-03-04-191008	+1262,1268			
	A9J0463-39	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.45	2				100	PDI-045SC-A-02-03-191010	+1262,1268			
	A9J0463-39RE1	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.45	2				100	PDI-045SC-A-02-03-191010	Front Column, Added 12/12/2019 By KAK			
	A9J0463-40	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.09	2				100	PDI-045SC-A-03-04-191010	+1262,1268			
	A9J0463-40RE1	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.09	2				100	PDI-045SC-A-03-04-191010	Front Column, Added 12/12/2019 By KAK			
	A9J0463-57	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.45	2				100	PDI-067SC-A-04-05-191010	+1262,1268			
	A9J0463-58	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.46	2				100	PDI-067SC-A-05-06-191010	+1262,1268			
	A9J0514-18	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.53	2				100	PDI-066SC-A-05-06-191011	MS/MSD, +1262,1268			
	9120536-MS1		QC	12/05/19 07:06	30.6	2	A19K318	A9J0514-18	100	100					
	9120536-MSD1		QC	12/05/19 07:07	30.56	2	A19K318	A9J0514-18	100	100					
	A9J0514-18RE1	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.53	2				100	PDI-066SC-A-05-06-191011	Added 12/26/2019 by KAK			

Prepared By: _____ Date _____

Reviewed By: _____ Date 1/7/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120536 (Soil)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH ≤2	pH 8-10	pH >11
	A9J0514-19	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.33	2				100	PDI-066SC-A-06 -07-191011	+1262,1268			
	A9J0514-19RE1	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.33	2				100	PDI-066SC-A-06 -07-191011	Added 12/26/2019 by KAK			
	A9J0553-36	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.38	2				100	PDI-074SC-A-08 -09-191012	+1262,1268			
	A9J0553-37	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.09	2				100	PDI-074SC-A-09 -10-191012	+1262,1268			
	A9J0558-38	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.03	2				100	PDI-076SC-A-04 -05-191013	+1262,1268			
	A9J0558-39	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.34	2				100	PDI-076SC-A-05 -06-191013	+1262,1268			
	A9J0558-39RE1	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.34	2				100	PDI-076SC-A-05 -06-191013	Front ColumnAdded 12/16/2019 By KAK			
	A9J0594-16	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.06	2				100	PDI-077SC-A-00 -01-191014	+1262,1268			
	A9J0594-17	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30.55	2				100	PDI-077SC-A-01 -02-191014	+1262,1268			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19C104	09/03/23	Florisil Lot 817211-CM
A19G280	01/18/20	Sulfuric Acid
A19H411	08/31/21	n-Hexane Lot# 192712
A19I211	05/07/22	Copper, Granular Lot# J260003
A19I263	03/18/20	DCM CHEM PROD. 194934
A19K010	10/29/25	Sodium Sulfate Lot # 188777

Analyte Spike(s)

Std ID	Exp. Date	Description
A19K318	02/28/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: Date

Reviewed By: Date

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120536 (Soil)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	9120536-BLK1		QC	12/05/19 07:06	30 31.00	2				100					
	9120536-BS1		QC	12/05/19 07:06	30	2	A19K318		100	100					
	A9J0095-32	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.70	2				100	PDI-071SC-A-08-09-191001	+1262,1268 sediment/mud, odor			
	A9J0095-33	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.37	2				100	PDI-071SC-A-09-10-191001	+1262,1268 mud			
	A9J0096-23	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.69	2				100	PDI-042SC-A-01-02-190930	+1262,1268 soil, rocks			
	A9J0096-24	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.66	2				100	PDI-042SC-A-02-03-190930	+1262,1268			
	A9J0096-34	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.15	2				100	PDI-044SC-A-00-01-190930	+1262,1268 mud, org			
	A9J0096-35	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.16	2				100	PDI-044SC-A-01-02-190930	+1262,1268 mud/sand, org			
	A9J0353-41	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.15	2				100	PDI-043SC-A-02-03-191008	+1262,1268 mud, org, odor			
	A9J0353-42	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.07	2				100	PDI-043SC-A-03-04-191008	+1262,1268			
	A9J0463-39	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.45	2				100	PDI-045SC-A-02-03-191010	+1262,1268 mud, org			
	A9J0463-40	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.09	2				100	PDI-045SC-A-03-04-191010	+1262,1268 mud, org			
	A9J0463-57	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.45	2				100	PDI-067SC-A-04-05-191010	+1262,1268 S			
	A9J0463-58	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.46	2				100	PDI-067SC-A-05-06-191010	+1262,1268 S			
	A9J0514-18	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.53	2				100	PDI-066SC-A-05-06-191011	MS/MSD, +1262,1268 mud, org, odor S			
	9120536-MS1		QC	12/05/19 07:06	30 30.60	2	A19K318	A9J0514-18	100	100		S			
	9120536-MSD1		QC	12/05/19 07:07	30 30.54	2	A19K318	A9J0514-18	100	100		S			
	A9J0514-19	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.33	2				100	PDI-066SC-A-06-07-191011	+1262,1268 mud, org S			
	A9J0553-36	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.38	2				100	PDI-074SC-A-08-09-191012	+1262,1268 sand, mud S			
	A9J0553-37	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.09	2				100	PDI-074SC-A-09-10-191012	+1262,1268 sand S			

Prepared By: JAG — Date: 12/5/19

Reviewed By: CAH — Date: 12/5/19

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120536 (Soil)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
42	A9J0558-38	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.03	2				100	PDI-076SC-A-04-05-191013	+1262,1268 mud S			
44	A9J0558-39	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.34	2				100	PDI-076SC-A-05-06-191013	+1262,1268 S			
46	A9J0594-16	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.06	2				100	PDI-077SC-A-00-01-191014	+1262,1268 S			
40	A9J0594-17	A	8082 PCBs - Low Level (30g/2mL)	12/05/19 07:06	30 30.55	2				100	PDI-077SC-A-01-02-191014	+1262,1268 S			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19C104	09/03/23	Florisil Lot 817211-CM
A19G280	01/18/20	Sulfuric Acid
A19H411	08/31/21	n-Hexane Lot# 192712
A19I211	05/07/22	Copper, Granular Lot# J260003
A19I263	03/18/20	DCM CHEM PROD. 194934
A19K010	10/29/25	Sodium Sulfate Lot # 188777

Analyte Spike(s)

Std ID	Exp. Date	Description
A19K318	02/28/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

S- Stained TurboVap

Method 3546 digestion time and temperture achieved. yes
Initial: MM

Witness: JAG 12/5/19

MM 12/5/19
Prepared By: Date

Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9L12014** Instrument: **DUALECD2R**

Date: **12/12/19 07:22** Calibration: **A9J2803**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L12014-CCV1	Soil	QC	QC				A19K315
2	9L12014-CCB1	Soil	QC	QC				A19L018
3	A9J0463-58	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
4	9L12014-IBL1	Soil	QC	QC				
5	A9J0514-18	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
6	9L12014-IBL2	Soil	QC	QC				
7	9120536-MS1	Soil	QC	QC		9120536		
8	9L12014-IBL3	Soil	QC	QC				
9	9120536-MSD1	Soil	QC	QC		9120536		
10	9L12014-IBL4	Soil	QC	QC				
11	A9J0514-19	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
12	9L12014-IBL5	Soil	QC	QC				
13	9L12014-CCV2	Soil	QC	QC				A19K315
14	9L12014-CCB2	Soil	QC	QC				A19L018
15	A9J0553-36	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
16	9L12014-IBL6	Soil	QC	QC				
17	A9J0553-37	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
18	9L12014-IBL7	Soil	QC	QC				
19	A9J0558-38	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
20	9L12014-IBL8	Soil	QC	QC				
21	A9J0558-39	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
22	9L12014-IBL9	Soil	QC	QC				
23	A9J0594-16	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
24	9L12014-IBLA	Soil	QC	QC				
25	A9J0594-17	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
26	9L12014-IBLB	Soil	QC	QC				
27	9L12014-CCV3	Soil	QC	QC				A19K315
28	9L12014-CCB3	Soil	QC	QC				A19L018

Comments:

Data Entered By: 12/19/19

Data Reviewed By: MJB 12/19/19

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.

9L12014-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	458.42
1016 (2)	463.72
1016 (3)	463.83
1016 (4)	468.66
1016 (5)	467.39
1016 (6)	471.36
Average:	**465.56**

Aroclor 1260

Peak	Initial Res
1260 (1)	500.15
1260 (2)	503.10
1260 (3)	516.25
1260 (4)	527.60
1260 (5)	529.80
1260 (6)	531.92
Average:	**518.14**

9120536-MS1

Aroclor 1016

Peak	Initial Res
1016 (1)	528.11
1016 (2)	661.96
1016 (3)	581.03
1016 (4)	617.67
1016 (5)	614.96
1016 (6)	571.50
Average:	**595.87**

Aroclor 1260

Peak	Initial Res
1260 (1)	719.72
1260 (2)	912.75
1260 (3)	726.45
1260 (4)	793.68
1260 (5)	789.54
1260 (6)	765.58
Average:	~~**784.62**~~ 768.81 ~~762.99~~

MB 12/19/19

12/19/19

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.

9120536-MSD1

Aroclor 1016

Peak	Initial Res
1016 (1)	438.75
1016 (2)	585.61
1016 (3)	503.66
1016 (4)	570.05
1016 (5)	571.09
1016 (6)	507.02
Average:	**529.36** ✓

Aroclor 1260

Peak	Initial Res
1260 (1)	Ø 686.21
1260 (2)	Ø 881.67
1260 (3)	675.18
1260 (4)	704.17
1260 (5)	718.77
1260 (6)	679.32
Average:	~~**724.22**~~ 694.36 ✓

12/19/19

9L12014-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	467.95
1016 (2)	463.11
1016 (3)	451.69
1016 (4)	442.87
1016 (5)	447.71
1016 (6)	463.22
Average:	**456.09** ✓

Aroclor 1260

Peak	Initial Res
1260 (1)	480.60
1260 (2)	496.91
1260 (3)	475.63
1260 (4)	511.02
1260 (5)	508.73
1260 (6)	489.81
Average:	**493.78** ✓

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.

9L12014-CCV3

Aroclor 1016

Peak	Initial Res
1016 (1)	470.09
1016 (2)	471.35
1016 (3)	472.19
1016 (4)	479.13
1016 (5)	493.18
1016 (6)	483.69
Average:	**478.27**

Aroclor 1260

Peak	Initial Res
1260 (1)	515.93
1260 (2)	513.04
1260 (3)	523.91
1260 (4)	532.98
1260 (5)	558.66
1260 (6)	546.18
Average:	**531.78**

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 8:07
Operator : MJB / KAK
Sample : 9L12014-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:01:06 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/16/19

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.721	72741595	277.289	ng/ml
62)	S DCBP (S)	10.707	41692434	284.027	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.392	4072197	458.421	ng/ml
3)	Aroclor 1016 (2)	6.883	7588010	463.722	ng/ml
4)	Aroclor 1016 (3)	7.010	3416493	463.830	ng/ml
5)	Aroclor 1016 (4)	7.094	3494969	468.663	ng/ml
6)	Aroclor 1016 (5)	7.140	3856438	467.387	ng/ml
7)	Aroclor 1016 (6)	7.265	3879790	471.358	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.895	289472	135.024	ng/ml
10)	Aroclor 1221 (2)	5.969	525252	240.280	ng/ml
11)	Aroclor 1221 (3)	6.057	2369752	334.957	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.057	2369752	413.954	ng/ml
14)	Aroclor 1232 (2)	6.392	4072197	1171.436	ng/ml
15)	Aroclor 1232 (3)	6.883	7588010	1172.029	ng/ml
16)	Aroclor 1232 (4)	7.094	3494969	1463.800	ng/ml
17)	Aroclor 1232 (5)	7.140	3856438	1411.400	ng/ml
18)	Aroclor 1232 (6)	7.265	3879790	1308.079	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.392	4072197	621.570	ng/ml
21)	Aroclor 1242 (2)	6.883	7588010	641.327	ng/ml
22)	Aroclor 1242 (3)	7.010	3416493	646.763	ng/ml
23)	Aroclor 1242 (4)	7.094	3494969	700.011	ng/ml
24)	Aroclor 1242 (5)	7.140	3856438	663.294	ng/ml
25)	Aroclor 1242 (6)	7.265	3879790	626.269	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.856	6455810	865.115	ng/ml
28)	Aroclor 1248 (2)	7.094	3494969	374.348	ng/ml
29)	Aroclor 1248 (3)	7.140	3856438	439.752	ng/ml
30)	Aroclor 1248 (4)	7.265	3879790	370.543	ng/ml
31)	Aroclor 1248 (5)	7.630	854876	66.100	ng/ml
32)	Aroclor 1248 (6)	7.788	3263979	276.817	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.607	2817556	217.992	ng/ml
35)	Aroclor 1254 (2)	7.788	3263979	161.203	ng/ml
36)	Aroclor 1254 (3)	8.099	1850837	86.376	ng/ml
37)	Aroclor 1254 (4)	8.339	1299912	78.703	ng/ml
38)	Aroclor 1254 (5)	8.674	10393329	662.284	ng/ml
39)	Aroclor 1254 (6)	8.890	1431738	292.780	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.235	7893787	500.149	ng/ml
42)	Aroclor 1260 (2)	8.441	9847641	503.105	ng/ml
43)	Aroclor 1260 (3)	8.674	10393329	516.255	ng/ml
44)	Aroclor 1260 (4)	9.165	16327094	527.596	ng/ml
45)	Aroclor 1260 (5)	9.432	9482002	529.804	ng/ml
46)	Aroclor 1260 (6)	10.018	3669503	531.924	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

465.56

518.14

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 8:07
Operator : MJB / KAK
Sample : 9L12014-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:01:06 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

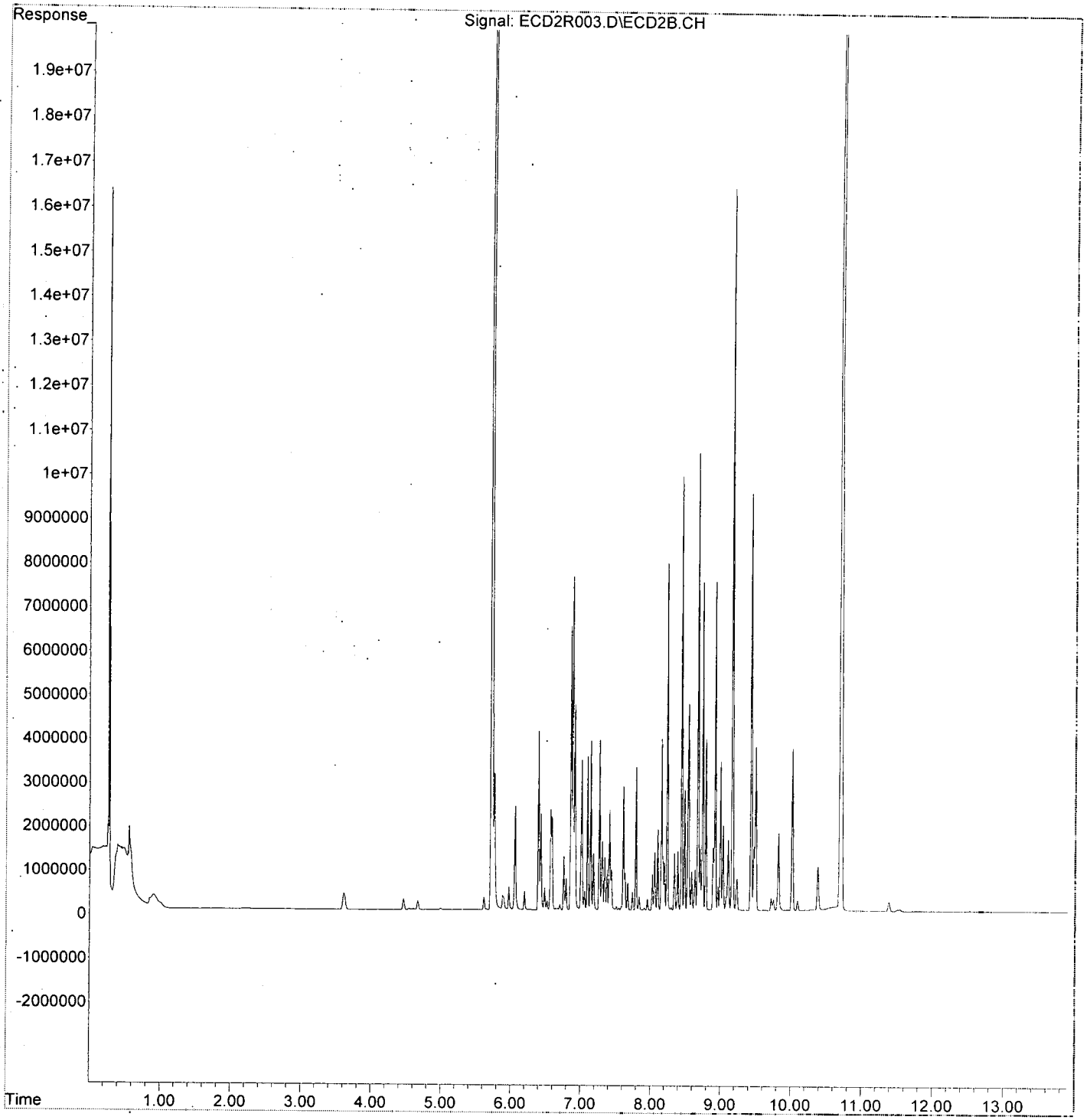
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.441	9847641	650.717	ng/ml
49)	Aroclor 1262 (2)	8.742	7451356	352.239	ng/ml
50)	Aroclor 1262 (3)	8.920	7488635	428.699	ng/ml
51)	Aroclor 1262 (4)	9.165	16327094	455.945	ng/ml
52)	Aroclor 1262 (5)	9.432	9482002	431.690	ng/ml
53)	Aroclor 1262 (6)	10.018	3669503	378.279	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.960	551522	59.092	ng/ml
56)	Aroclor 1268 (2)	9.432	9482002	241.665	ng/ml
57)	Aroclor 1268 (3)	9.497	3710610	117.696	ng/ml
58)	Aroclor 1268 (4)	9.721	281097	10.378	ng/ml
59)	Aroclor 1268 (5)	10.018	3669503	346.304	ng/ml
60)	Aroclor 1268 (6)	10.382	1000175	13.611	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 : K:\DATA\9L12014\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 8:07
Operator : MJB / KAK
Sample : 9L12014-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:01:06 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 8:26
Operator : MJB / KAK
Sample : 9L12014-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:01:28 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/16/19

clean

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.719	27062037	103.160 ng/ml
62)	S DCBP (S)	10.705	16410209	111.793 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.397	2663	0.300 ng/ml
3)	Aroclor 1016 (2)	6.872	2245	0.137 ng/ml
4)	Aroclor 1016 (3)	7.001	2089	0.284 ng/ml
5)	Aroclor 1016 (4)	7.094	2573	0.345 ng/ml
6)	Aroclor 1016 (5)	7.135	2419	0.293 ng/ml
7)	Aroclor 1016 (6)	7.264	2191	0.266 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.896	14510	6.768 ng/ml
10)	Aroclor 1221 (2)	5.973	9671	4.424 ng/ml
11)	Aroclor 1221 (3)	6.040	47600	6.728 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.040	47600	8.315 ng/ml
14)	Aroclor 1232 (2)	6.397	2663	0.766 ng/ml
15)	Aroclor 1232 (3)	6.872	2245	0.347 ng/ml
16)	Aroclor 1232 (4)	7.094	2573	1.078 ng/ml
17)	Aroclor 1232 (5)	7.135	2419	0.885 ng/ml
18)	Aroclor 1232 (6)	7.264	2191	0.739 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.397	2663	0.407 ng/ml
21)	Aroclor 1242 (2)	6.872	2245	0.190 ng/ml
22)	Aroclor 1242 (3)	7.001	2089	0.395 ng/ml
23)	Aroclor 1242 (4)	7.094	2573	0.515 ng/ml
24)	Aroclor 1242 (5)	7.135	2419	0.416 ng/ml
25)	Aroclor 1242 (6)	7.264	2191	0.354 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.865	2183	0.292 ng/ml
28)	Aroclor 1248 (2)	7.094	2573	0.276 ng/ml
29)	Aroclor 1248 (3)	7.135	2419	0.276 ng/ml
30)	Aroclor 1248 (4)	7.264	2191	0.209 ng/ml
31)	Aroclor 1248 (5)	7.630	624	0.048 ng/ml
32)	Aroclor 1248 (6)	7.791	9851	0.835 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.608	574	0.044 ng/ml
35)	Aroclor 1254 (2)	7.791	9851	0.487 ng/ml
36)	Aroclor 1254 (3)	8.097	8044	0.375 ng/ml
37)	Aroclor 1254 (4)	8.331	4467	0.270 ng/ml
38)	Aroclor 1254 (5)	8.669	5033	0.321 ng/ml
39)	Aroclor 1254 (6)	8.908	4304	0.880 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.234	6086	0.386 ng/ml
42)	Aroclor 1260 (2)	8.436	7348	0.375 ng/ml
43)	Aroclor 1260 (3)	8.669	5033	0.250 ng/ml
44)	Aroclor 1260 (4)	9.166	3555	0.115 ng/ml
45)	Aroclor 1260 (5)	9.436	3507	0.196 ng/ml
46)	Aroclor 1260 (6)	10.022	3128	0.453 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 8:26
Operator : MJB / KAK
Sample : 9L12014-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:01:28 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

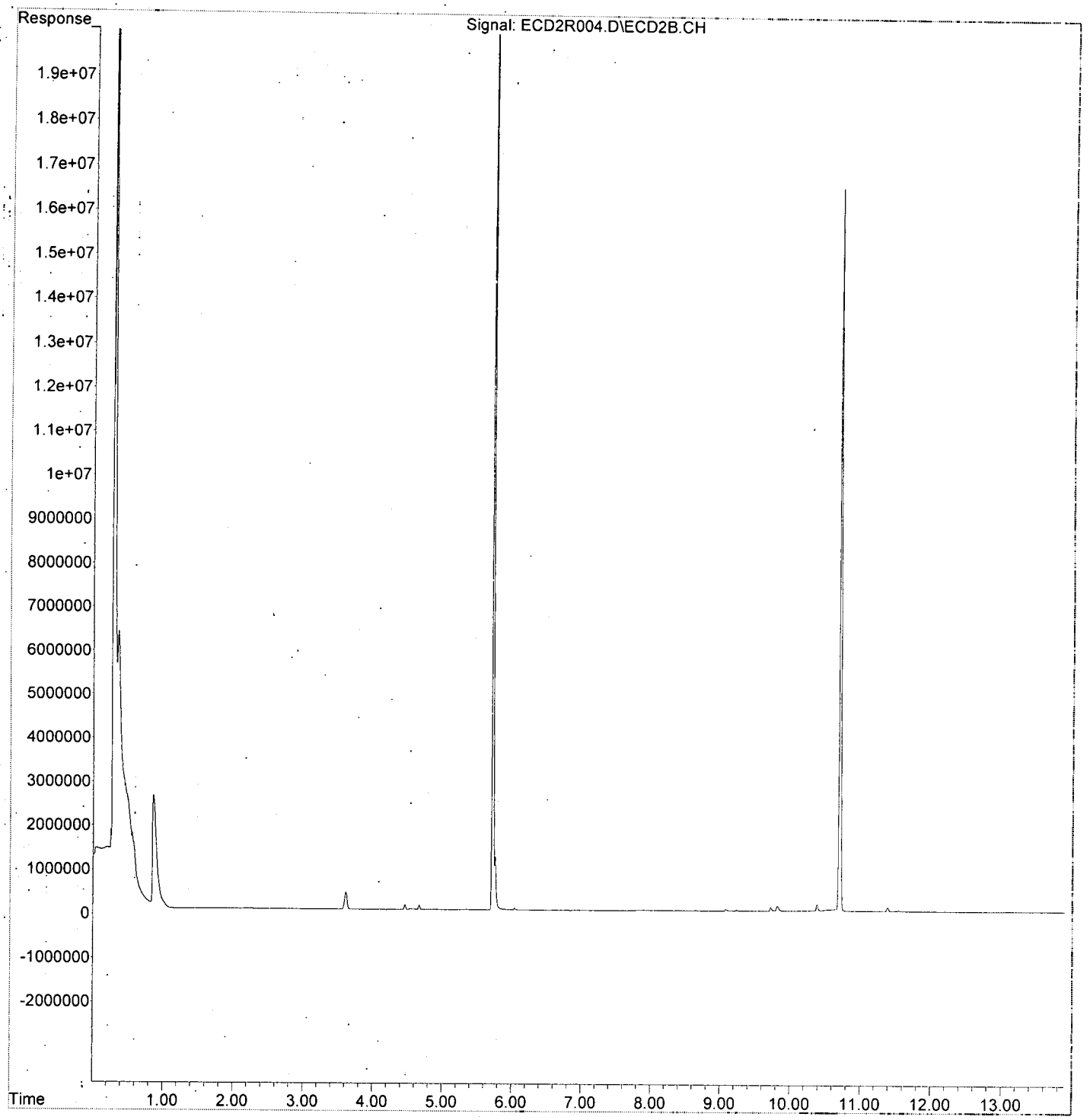
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.436	7348	0.486 ng/ml
49)	Aroclor 1262 (2)	8.737	3889	0.184 ng/ml
50)	Aroclor 1262 (3)	8.916	4258	0.244 ng/ml
51)	Aroclor 1262 (4)	9.166	3555	0.099 ng/ml
52)	Aroclor 1262 (5)	9.436	3507	0.160 ng/ml
53)	Aroclor 1262 (6)	10.022	3128	0.322 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.963	3257	0.349 ng/ml
56)	Aroclor 1268 (2)	9.436	3507	0.089 ng/ml
57)	Aroclor 1268 (3)	9.497	1797	0.057 ng/ml
58)	Aroclor 1268 (4)	9.723	87077	3.215 ng/ml
59)	Aroclor 1268 (5)	10.022	3128	0.295 ng/ml
60)	Aroclor 1268 (6)	10.385	141733	1.929 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 : K:\DATA\9L12014\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 8:26
Operator : MJB / KAK
Sample : 9L12014-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:01:28 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 9:19
Operator : MJB / KAK
Sample : A9J0514-18
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:02:09 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.727	40921728	155.992	ng/ml
62) S	DCBP (S)	10.713	25625917	174.575	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.405	21247	2.392	ng/ml
3)	Aroclor 1016 (2)	6.886	47626	2.911	ng/ml
4)	Aroclor 1016 (3)	7.018	52679	7.152	ng/ml
5)	Aroclor 1016 (4)	7.101	145838	19.556	ng/ml
6)	Aroclor 1016 (5)	7.148	124734	15.117	ng/ml
7)	Aroclor 1016 (6)	7.271	82873	10.068	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.885	20217	9.430	ng/ml
10)	Aroclor 1221 (2)	5.927f	42112	19.264	ng/ml
11)	Aroclor 1221 (3)	6.045	57376	8.110	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.045	57376	10.023	ng/ml
14)	Aroclor 1232 (2)	6.405	21247	6.112	ng/ml
15)	Aroclor 1232 (3)	6.886	47626	7.356	ng/ml
16)	Aroclor 1232 (4)	7.101	145838	61.081	ng/ml
17)	Aroclor 1232 (5)	7.148	124734	45.651	ng/ml
18)	Aroclor 1232 (6)	7.271	82873	27.941	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.405	21247	3.243	ng/ml
21)	Aroclor 1242 (2)	6.886	47626	4.025	ng/ml
22)	Aroclor 1242 (3)	7.018	52679	9.972	ng/ml
23)	Aroclor 1242 (4)	7.101	145838	29.210	ng/ml
24)	Aroclor 1242 (5)	7.148	124734	21.454	ng/ml
25)	Aroclor 1242 (6)	7.271	82873	13.377	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.858	47285	6.336	ng/ml
28)	Aroclor 1248 (2)	7.101	145838	15.621	ng/ml
29)	Aroclor 1248 (3)	7.148	124734	14.223	ng/ml
30)	Aroclor 1248 (4)	7.271	82873	7.915	ng/ml
31)	Aroclor 1248 (5)	7.613	400842	30.994	ng/ml
32)	Aroclor 1248 (6)	7.793	721121	61.158	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.613	400842	31.013	ng/ml
35)	Aroclor 1254 (2)	7.793	721121	35.615	ng/ml
36)	Aroclor 1254 (3)	8.102	584245	27.266	ng/ml
37)	Aroclor 1254 (4)	8.341	464953	28.151	ng/ml
38)	Aroclor 1254 (5)	8.676	1531603 Ø	97.597	ng/ml
39)	Aroclor 1254 (6)	8.898	386753 Ø	79.088	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.226	3680496 Ø	233.196	ng/ml
42)	Aroclor 1260 (2)	8.444	5801837 Ø	296.409	ng/ml
43)	Aroclor 1260 (3)	8.676	1531603	76.077	ng/ml
44)	Aroclor 1260 (4)	9.169	1956509	63.223	ng/ml
45)	Aroclor 1260 (5)	9.438	1578986	88.225	ng/ml
46)	Aroclor 1260 (6)	10.025	429376	62.241	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

12/16/19
~~1254~~ 1260 P-10
Q-42
Confirm on front Column
Seq: 9L18019
File 8
~~30.511~~ R-02 12/19/19
72.442

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 9:19
Operator : MJB / KAK
Sample : A9J0514-18
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:02:09 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

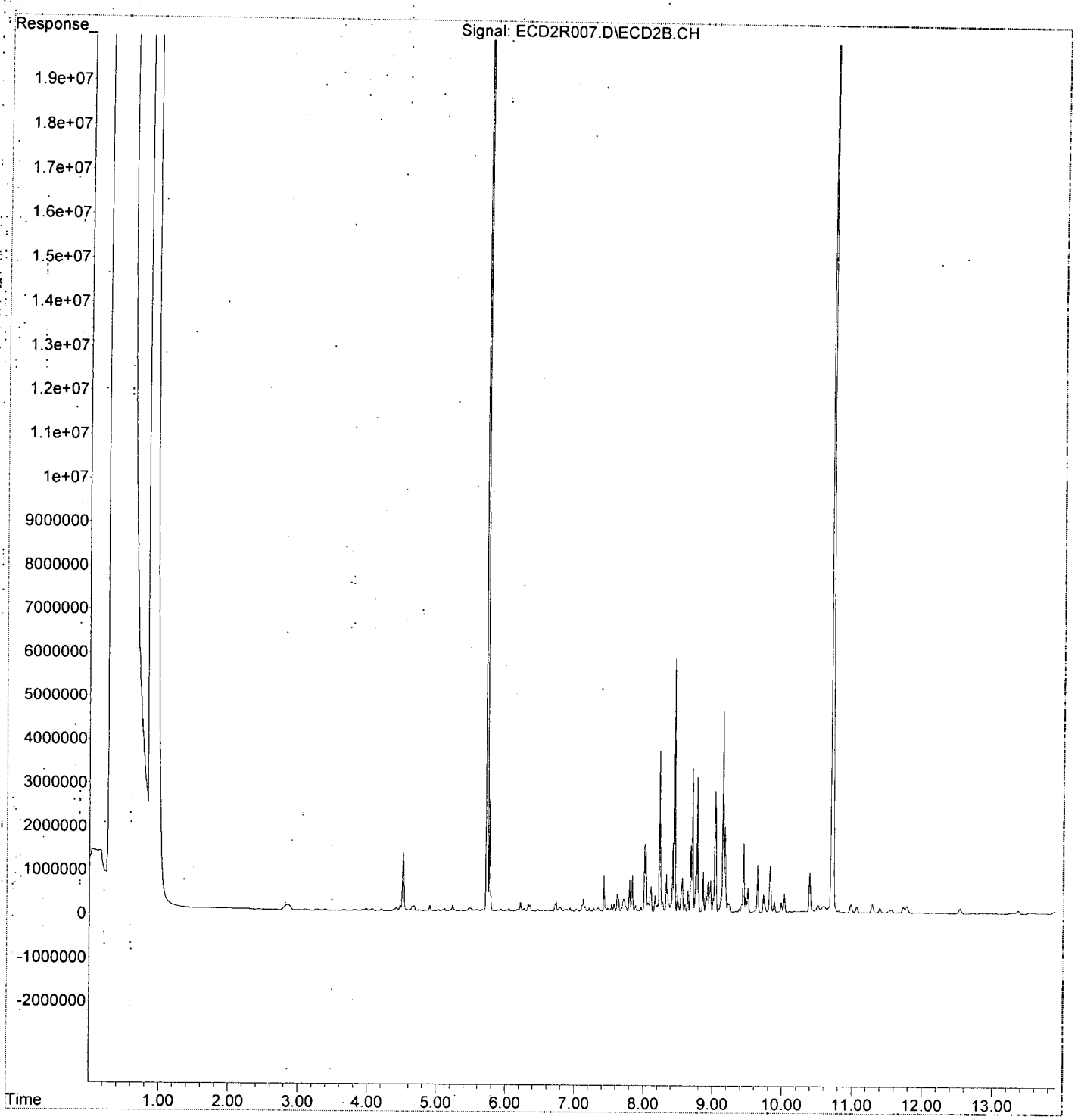
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.444	5801837	383.377 ng/ml
49)	Aroclor 1262 (2)	8.745	851544	40.254 ng/ml
50)	Aroclor 1262 (3)	8.924	696001	39.844 ng/ml
51)	Aroclor 1262 (4)	9.169	1956509	54.637 ng/ml
52)	Aroclor 1262 (5)	9.438	1578986	71.887 ng/ml
53)	Aroclor 1262 (6)	10.025	429376	44.263 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.962	726371	77.825 ng/ml
56)	Aroclor 1268 (2)	9.438	1578986	40.243 ng/ml
57)	Aroclor 1268 (3)	9.503	561567	17.812 ng/ml
58)	Aroclor 1268 (4)	9.727	412314	15.223 ng/ml
59)	Aroclor 1268 (5)	10.025	429376	40.522 ng/ml
60)	Aroclor 1268 (6)	10.389	908148	12.359 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 : K:\DATA\9L12014\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 9:19
Operator : MJB / KAK
Sample : A9J0514-18
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:02:09 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 9:54
Operator : MJB / KAK
Sample : 9120536-MS1
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 19 16:26:01 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/19/19

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.727	41239652	157.204	ng/ml
62)	S DCBP (S)	10.712	25494959	173.683	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.402	4691289	528.114	ng/ml
3)	Aroclor 1016 (2)	6.886	10831854	661.962	ng/ml
4)	Aroclor 1016 (3)	7.015	4279743	581.026	ng/ml
5)	Aroclor 1016 (4)	7.100	4606141	617.668	ng/ml
6)	Aroclor 1016 (5)	7.145	5074044	614.956	ng/ml
7)	Aroclor 1016 (6)	7.270	4704041	571.497	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.899	311786	145.432	ng/ml
10)	Aroclor 1221 (2)	5.973	614935	281.306	ng/ml
11)	Aroclor 1221 (3)	6.060	3268721	462.024	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.060	3268721	570.989	ng/ml
14)	Aroclor 1232 (2)	6.402	4691289	1349.529	ng/ml
15)	Aroclor 1232 (3)	6.886	10831854	1673.066	ng/ml
16)	Aroclor 1232 (4)	7.100	4606141	1929.192	ng/ml
17)	Aroclor 1232 (5)	7.145	5074044	1857.026	ng/ml
18)	Aroclor 1232 (6)	7.270	4704041	1585.978	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.402	4691289	716.067	ng/ml
21)	Aroclor 1242 (2)	6.886	10831854	915.491	ng/ml
22)	Aroclor 1242 (3)	7.015	4279743	810.181	ng/ml
23)	Aroclor 1242 (4)	7.100	4606141	922.569	ng/ml
24)	Aroclor 1242 (5)	7.145	5074044	872.718	ng/ml
25)	Aroclor 1242 (6)	7.270	4704041	759.318	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.859	8908107	1193.737	ng/ml
28)	Aroclor 1248 (2)	7.100	4606141	493.366	ng/ml
29)	Aroclor 1248 (3)	7.145	5074044	578.596	ng/ml
30)	Aroclor 1248 (4)	7.270	4704041	449.264	ng/ml
31)	Aroclor 1248 (5)	7.635	1150750	88.978	ng/ml
32)	Aroclor 1248 (6)	7.793	4761302	403.805	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.613	3744314	289.694	ng/ml
35)	Aroclor 1254 (2)	7.793	4761302	235.154	ng/ml
36)	Aroclor 1254 (3)	8.102	2616838	122.124	ng/ml
37)	Aroclor 1254 (4)	8.341	1879224	113.778	ng/ml
38)	Aroclor 1254 (5)	8.677	14624965	931.933	ng/ml
39)	Aroclor 1254 (6)	8.894	2207445	451.407	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.238	11359269	719.731	ng/ml
42)	Aroclor 1260 (2)	8.444	17866016	912.753	ng/ml
43)	Aroclor 1260 (3)	8.677	14624965	726.448	ng/ml
44)	Aroclor 1260 (4)	9.169	24561301	793.678	ng/ml
45)	Aroclor 1260 (5)	9.436	14130471	789.536	ng/ml
46)	Aroclor 1260 (6)	10.023	5281419	765.584	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

595.87

782.93

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 9:54
Operator : MJB / KAK
Sample : 9120536-MS1
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 19 16:26:01 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

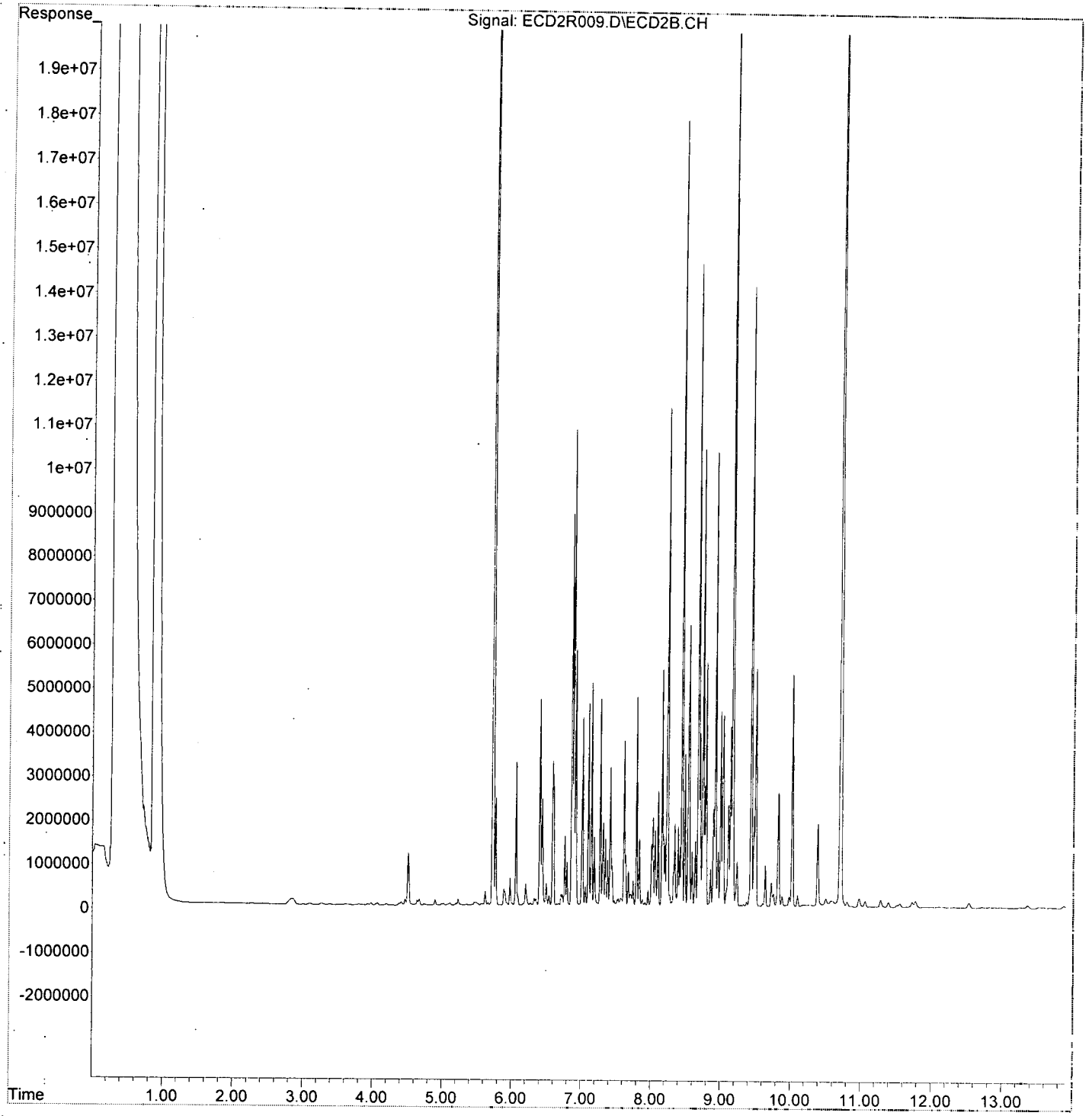
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.444	17866016	1180.559	ng/ml
49)	Aroclor 1262 (2)	8.745	10401840	491.714	ng/ml
50)	Aroclor 1262 (3)	8.924	10341040	591.990	ng/ml
51)	Aroclor 1262 (4)	9.169	24561301	685.891	ng/ml
52)	Aroclor 1262 (5)	9.436	14130471	643.323	ng/ml
53)	Aroclor 1262 (6)	10.023	5281419	544.446	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.963	1235212	132.344	ng/ml
56)	Aroclor 1268 (2)	9.436	14130471	360.139	ng/ml
57)	Aroclor 1268 (3)	9.502	5428108	172.173	ng/ml
58)	Aroclor 1268 (4)	9.725	544469	20.102	ng/ml
59)	Aroclor 1268 (5)	10.023	5281419	498.427	ng/ml
60)	Aroclor 1268 (6)	10.386	1858486	25.292	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 : K:\DATA\9L12014\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 9:54
Operator : MJB / KAK
Sample : 9120536-MS1
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 19 16:26:01 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 10:29
Operator : MJB / KAK
Sample : 9120536-MSD1
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:02:49 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/19/19

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.729	38888587	148.242 ng/ml
62) S	DCBP (S)	10.713	23712453	161.540 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.407	3897426	438.746 ng/ml
3)	Aroclor 1016 (2)	6.889	9582526	585.612 ng/ml
4)	Aroclor 1016 (3)	7.018	3709851	503.656 ng/ml
5)	Aroclor 1016 (4)	7.103	4251078	570.055 ng/ml
6)	Aroclor 1016 (5)	7.147	4712116	571.092 ng/ml
7)	Aroclor 1016 (6)	7.273	4173310	507.018 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.887	330701	154.256 ng/ml
10)	Aroclor 1221 (2)	5.974	549450	251.349 ng/ml
11)	Aroclor 1221 (3)	6.062	2841840	401.685 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.062	2841840	496.420 ng/ml
14)	Aroclor 1232 (2)	6.407	3897426	1121.160 ng/ml
15)	Aroclor 1232 (3)	6.889	9582526	1480.098 ng/ml
16)	Aroclor 1232 (4)	7.103	4251078	1780.481 ng/ml
17)	Aroclor 1232 (5)	7.147	4712116	1724.565 ng/ml
18)	Aroclor 1232 (6)	7.273	4173310	1407.040 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.407	3897426	594.894 ng/ml
21)	Aroclor 1242 (2)	6.889	9582526	809.900 ng/ml
22)	Aroclor 1242 (3)	7.018	3709851	702.297 ng/ml
23)	Aroclor 1242 (4)	7.103	4251078	851.453 ng/ml
24)	Aroclor 1242 (5)	7.147	4712116	810.468 ng/ml
25)	Aroclor 1242 (6)	7.273	4173310	673.649 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.862	8219698	1101.486 ng/ml
28)	Aroclor 1248 (2)	7.103	4251078	455.335 ng/ml
29)	Aroclor 1248 (3)	7.147	4712116	537.325 ng/ml
30)	Aroclor 1248 (4)	7.273	4173310	398.576 ng/ml
31)	Aroclor 1248 (5)	7.639	1033193	79.888 ng/ml
32)	Aroclor 1248 (6)	7.795	4571390	387.699 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.617	3185941	246.493 ng/ml
35)	Aroclor 1254 (2)	7.795	4571390	225.775 ng/ml
36)	Aroclor 1254 (3)	8.104	2457372	114.682 ng/ml
37)	Aroclor 1254 (4)	8.342	1795396	108.703 ng/ml
38)	Aroclor 1254 (5)	8.678	13592775	866.159 ng/ml
39)	Aroclor 1254 (6)	8.896	2049839	419.177 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.239	10830433	686.214 ng/ml
42)	Aroclor 1260 (2)	8.445	17257496	881.666 ng/ml
43)	Aroclor 1260 (3)	8.678	13592775	675.177 ng/ml
44)	Aroclor 1260 (4)	9.170	21791366	704.170 ng/ml
45)	Aroclor 1260 (5)	9.437	12863878	718.765 ng/ml
46)	Aroclor 1260 (6)	10.023	4686333	679.322 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

529.36 Q-01

694.36

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 10:29
Operator : MJB / KAK
Sample : 9120536-MSD1
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:02:49 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

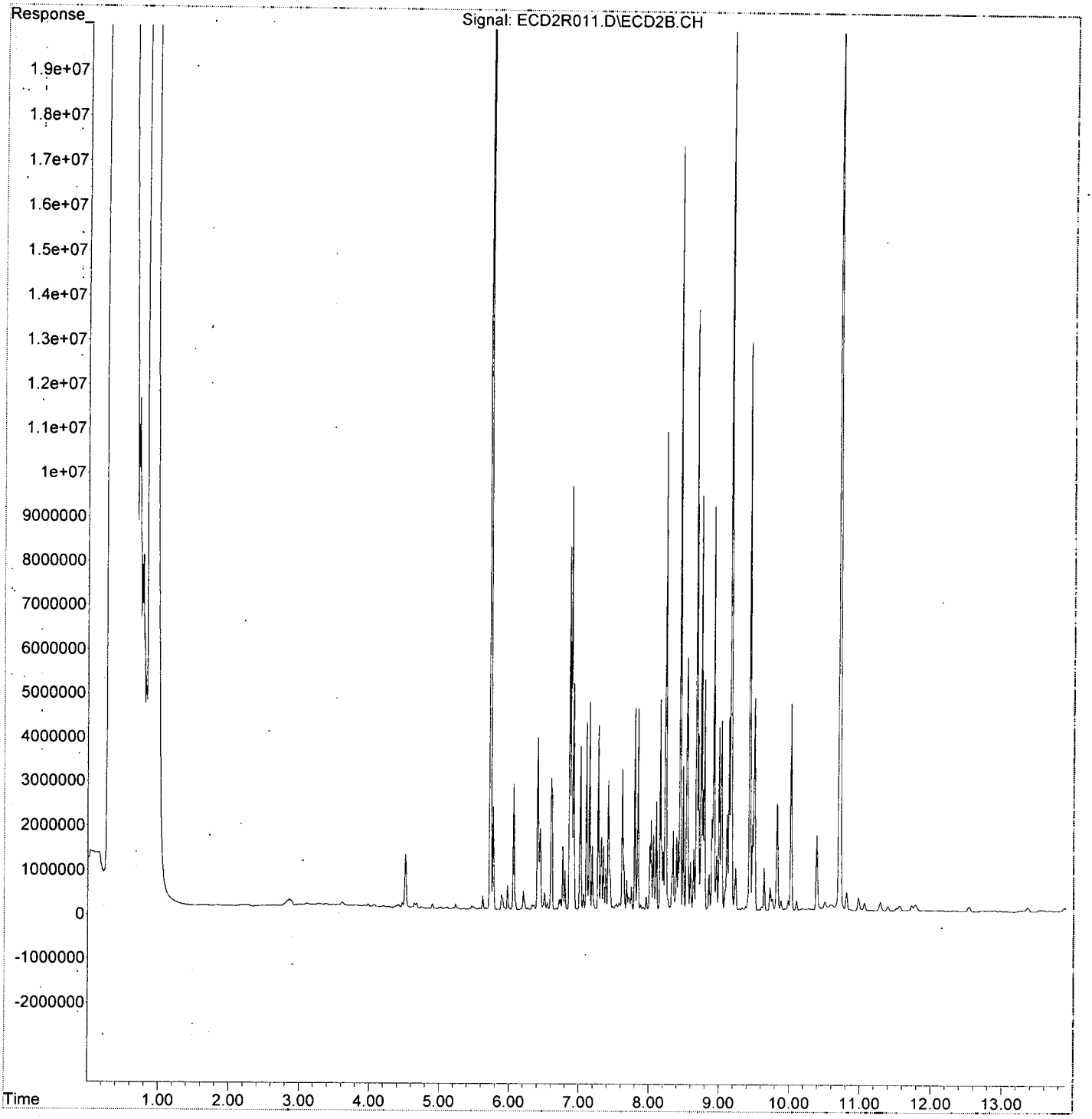
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.445	17257496	1140.349	ng/ml
49)	Aroclor 1262 (2)	8.746	9398468	444.282	ng/ml
50)	Aroclor 1262 (3)	8.924	9133777	522.878	ng/ml
51)	Aroclor 1262 (4)	9.170	21791366	608.539	ng/ml
52)	Aroclor 1262 (5)	9.437	12863878	585.658	ng/ml
53)	Aroclor 1262 (6)	10.023	4686333	483.101	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.963	1254042	134.361	ng/ml
56)	Aroclor 1268 (2)	9.437	12863878	327.857	ng/ml
57)	Aroclor 1268 (3)	9.503	4809421	152.549	ng/ml
58)	Aroclor 1268 (4)	9.726	529734	19.558	ng/ml
59)	Aroclor 1268 (5)	10.023	4686333	442.266	ng/ml
60)	Aroclor 1268 (6)	10.387	1670501	22.734	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 10:29
Operator : MJB / KAK
Sample : 9120536-MSD1
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:02:49 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 11:05
Operator : MJB / KAK
Sample : A9J0514-19
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:03:09 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/16/19

~~1254~~ ~~12/19/19~~ ~~R-10~~
1260 R-10

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.723	37001482	141.048 ng/ml
62)	S DCBP (S)	10.711	20660633	140.749 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.404	18466	2.079 ng/ml
3)	Aroclor 1016 (2)	6.884	33771	2.064 ng/ml
4)	Aroclor 1016 (3)	7.015	40646	5.518 ng/ml
5)	Aroclor 1016 (4)	7.098	125519	16.832 ng/ml
6)	Aroclor 1016 (5)	7.145	82787	10.033 ng/ml
7)	Aroclor 1016 (6)	7.268	84579	10.276 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.882	4244	1.980 ng/ml
10)	Aroclor 1221 (2)	6.004	5607	2.565 ng/ml
11)	Aroclor 1221 (3)	6.042	37219	5.261 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.042	37219	6.501 ng/ml
14)	Aroclor 1232 (2)	6.404	18466	5.312 ng/ml
15)	Aroclor 1232 (3)	6.884	33771	5.216 ng/ml
16)	Aroclor 1232 (4)	7.098	125519	52.571 ng/ml
17)	Aroclor 1232 (5)	7.145	82787	30.299 ng/ml
18)	Aroclor 1232 (6)	7.268	84579	28.516 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.404	18466	2.819 ng/ml
21)	Aroclor 1242 (2)	6.884	33771	2.854 ng/ml
22)	Aroclor 1242 (3)	7.015	40646	7.694 ng/ml
23)	Aroclor 1242 (4)	7.098	125519	25.140 ng/ml
24)	Aroclor 1242 (5)	7.145	82787	14.239 ng/ml
25)	Aroclor 1242 (6)	7.268	84579	13.653 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.851	34750	4.657 ng/ml
28)	Aroclor 1248 (2)	7.098	125519	13.444 ng/ml
29)	Aroclor 1248 (3)	7.145	82787	9.440 ng/ml
30)	Aroclor 1248 (4)	7.268	84579	8.078 ng/ml
31)	Aroclor 1248 (5)	7.611	384767	29.751 ng/ml
32)	Aroclor 1248 (6)	7.791	644418	54.653 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.611	384767	29.769 ng/ml
35)	Aroclor 1254 (2)	7.791	644418	31.827 ng/ml
36)	Aroclor 1254 (3)	8.101	457303	21.342 ng/ml
37)	Aroclor 1254 (4)	8.340	354531	21.465 ng/ml
38)	Aroclor 1254 (5)	8.675	1620462 Ø	103.259 ng/ml
39)	Aroclor 1254 (6)	8.895	426003 Ø	87.114 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.223	2124833 Ø	134.629 ng/ml
42)	Aroclor 1260 (2)	8.442	4440991 Ø	226.885 ng/ml
43)	Aroclor 1260 (3)	8.675	1620462	80.491 ng/ml
44)	Aroclor 1260 (4)	9.167	2448996	79.137 ng/ml
45)	Aroclor 1260 (5)	9.436	1662107	92.870 ng/ml
46)	Aroclor 1260 (6)	10.022	532040	77.123 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Run on front Column to confirm 1254 Seq: 9L18019 File 10

~~26.tot~~ ~~12/19/19~~ R-02

82.405

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 11:05
Operator : MJB / KAK
Sample : A9J0514-19
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:03:09 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

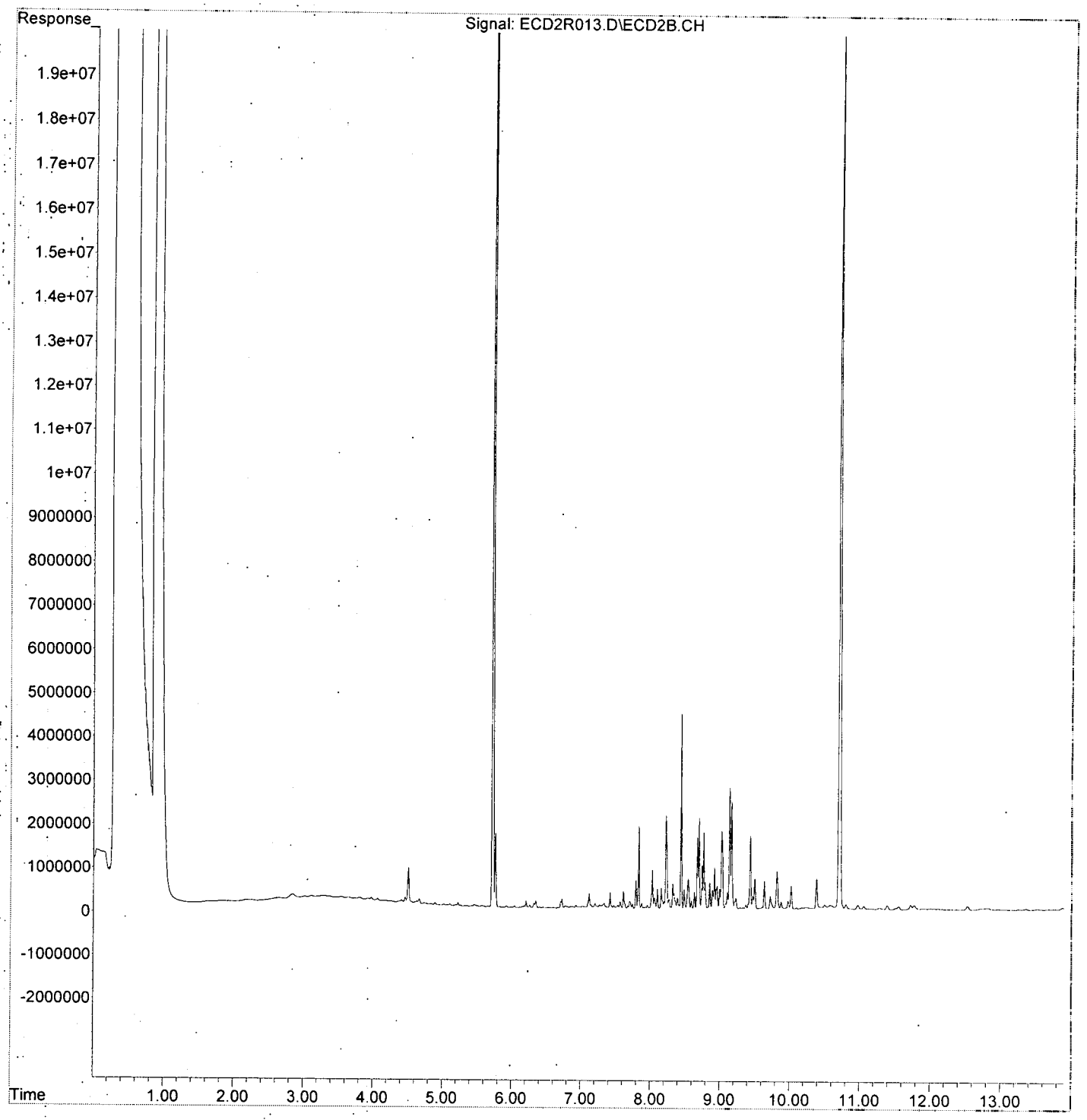
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.442	4440991	293.454 ng/ml
49)	Aroclor 1262 (2)	8.743	1000393	47.290 ng/ml
50)	Aroclor 1262 (3)	8.922	943051	53.986 ng/ml
51)	Aroclor 1262 (4)	9.167	2448996	68.390 ng/ml
52)	Aroclor 1262 (5)	9.436	1662107	75.671 ng/ml
53)	Aroclor 1262 (6)	10.022	532040	54.846 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.959	518700	55.575 ng/ml
56)	Aroclor 1268 (2)	9.436	1662107	42.362 ng/ml
57)	Aroclor 1268 (3)	9.502	690328	21.896 ng/ml
58)	Aroclor 1268 (4)	9.724	299220	11.047 ng/ml
59)	Aroclor 1268 (5)	10.022	532040	50.211 ng/ml
60)	Aroclor 1268 (6)	10.385	698076	9.500 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 : K:\DATA\9L12014\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 11:05
Operator : MJB / KAK
Sample : A9J0514-19
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:03:09 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 11:58
Operator : MJB / KAK
Sample : 9L12014-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:03:29 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/16/19

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.721	76506330	291.640 ng/ml
62)	S DCBP (S)	10.707	43086800	293.526 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.392	4156811	467.946 ng/ml
3)	Aroclor 1016 (2)	6.883	7577935	463.106 ng/ml
4)	Aroclor 1016 (3)	7.010	3327090	451.692 ng/ml
5)	Aroclor 1016 (4)	7.095	3302636	442.872 ng/ml
6)	Aroclor 1016 (5)	7.140	3694087	447.710 ng/ml
7)	Aroclor 1016 (6)	7.265	3812793	463.219 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.895	294153	137.208 ng/ml
10)	Aroclor 1221 (2)	5.969	533884	244.229 ng/ml
11)	Aroclor 1221 (3)	6.057	2447655	345.969 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.057	2447655	427.563 ng/ml
14)	Aroclor 1232 (2)	6.392	4156811	1195.777 ng/ml
15)	Aroclor 1232 (3)	6.883	7577935	1170.473 ng/ml
16)	Aroclor 1232 (4)	7.095	3302636	1383.245 ng/ml
17)	Aroclor 1232 (5)	7.140	3694087	1351.982 ng/ml
18)	Aroclor 1232 (6)	7.265	3812793	1285.491 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.392	4156811	634.486 ng/ml
21)	Aroclor 1242 (2)	6.883	7577935	640.475 ng/ml
22)	Aroclor 1242 (3)	7.010	3327090	629.838 ng/ml
23)	Aroclor 1242 (4)	7.095	3302636	661.488 ng/ml
24)	Aroclor 1242 (5)	7.140	3694087	635.370 ng/ml
25)	Aroclor 1242 (6)	7.265	3812793	615.455 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.855	6441553	863.205 ng/ml
28)	Aroclor 1248 (2)	7.095	3302636	353.747 ng/ml
29)	Aroclor 1248 (3)	7.140	3694087	421.239 ng/ml
30)	Aroclor 1248 (4)	7.265	3812793	364.145 ng/ml
31)	Aroclor 1248 (5)	7.630	805777	62.304 ng/ml
32)	Aroclor 1248 (6)	7.788	3093566	262.365 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.607	2589628	200.357 ng/ml
35)	Aroclor 1254 (2)	7.788	3093566	152.787 ng/ml
36)	Aroclor 1254 (3)	8.100	1680325	78.418 ng/ml
37)	Aroclor 1254 (4)	8.338	1176791	71.249 ng/ml
38)	Aroclor 1254 (5)	8.673	9575459	610.168 ng/ml
39)	Aroclor 1254 (6)	8.891	1368861	279.922 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.235	7585232	480.599 ng/ml
42)	Aroclor 1260 (2)	8.441	9726291	496.905 ng/ml
43)	Aroclor 1260 (3)	8.673	9575459	475.630 ng/ml
44)	Aroclor 1260 (4)	9.165	15814267	511.025 ng/ml
45)	Aroclor 1260 (5)	9.432	9104785	508.727 ng/ml
46)	Aroclor 1260 (6)	10.018	3378985	489.811 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

456.09

493.76

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 11:58
Operator : MJB / KAK
Sample : 9L12014-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:03:29 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

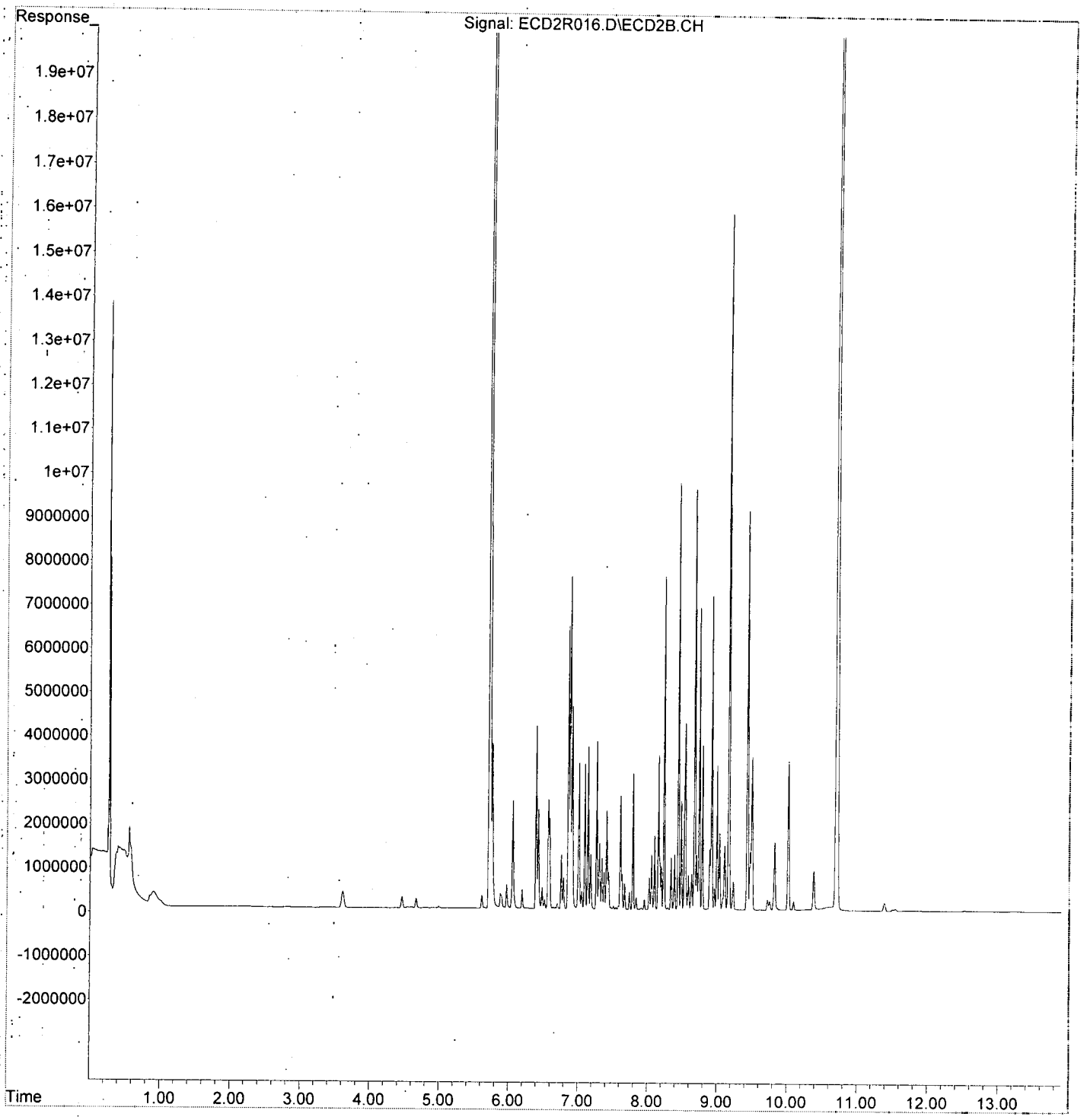
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.441	9726291	642.699 ng/ml
49)	Aroclor 1262 (2)	8.742	6887092	325.565 ng/ml
50)	Aroclor 1262 (3)	8.920	7140285	408.757 ng/ml
51)	Aroclor 1262 (4)	9.165	15814267	441.624 ng/ml
52)	Aroclor 1262 (5)	9.432	9104785	414.517 ng/ml
53)	Aroclor 1262 (6)	10.018	3378985	348.330 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.961	487984	52.284 ng/ml
56)	Aroclor 1268 (2)	9.432	9104785	232.051 ng/ml
57)	Aroclor 1268 (3)	9.497	3488060	110.637 ng/ml
58)	Aroclor 1268 (4)	9.722	235354	8.689 ng/ml
59)	Aroclor 1268 (5)	10.018	3378985	318.887 ng/ml
60)	Aroclor 1268 (6)	10.381	877671	11.944 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 : K:\DATA\9L12014\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 11:58
Operator : MJB / KAK
Sample : 9L12014-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 08:03:29 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 12:16
Operator : MJB / KAK
Sample : 9L12014-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 09:26:48 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/16/19

clear

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.719	28640491	109.177 ng/ml
62)	S DCBP (S)	10.706	16476088	112.242 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.391	3338	0.376 ng/ml
3)	Aroclor 1016 (2)	6.890	3690	0.226 ng/ml
4)	Aroclor 1016 (3)	7.005	2034	0.276 ng/ml
5)	Aroclor 1016 (4)	7.091	2359	0.316 ng/ml
6)	Aroclor 1016 (5)	7.141	2413	0.292 ng/ml
7)	Aroclor 1016 (6)	7.260	1742	0.212 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.898	13140	6.129 ng/ml
10)	Aroclor 1221 (2)	5.972	9465	4.330 ng/ml
11)	Aroclor 1221 (3)	6.040	50345	7.116 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.040	50345	8.794 ng/ml
14)	Aroclor 1232 (2)	6.391	3338	0.960 ng/ml
15)	Aroclor 1232 (3)	6.890	3690	0.570 ng/ml
16)	Aroclor 1232 (4)	7.091	2359	0.988 ng/ml
17)	Aroclor 1232 (5)	7.141	2413	0.883 ng/ml
18)	Aroclor 1232 (6)	7.260	1742	0.587 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.391	3338	0.510 ng/ml
21)	Aroclor 1242 (2)	6.890	3690	0.312 ng/ml
22)	Aroclor 1242 (3)	7.005	2034	0.385 ng/ml
23)	Aroclor 1242 (4)	7.091	2359	0.473 ng/ml
24)	Aroclor 1242 (5)	7.141	2413	0.415 ng/ml
25)	Aroclor 1242 (6)	7.260	1742	0.281 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.845	2547	0.341 ng/ml
28)	Aroclor 1248 (2)	7.091	2359	0.253 ng/ml
29)	Aroclor 1248 (3)	7.141	2413	0.275 ng/ml
30)	Aroclor 1248 (4)	7.260	1742	0.166 ng/ml
31)	Aroclor 1248 (5)	7.629	469	0.036 ng/ml
32)	Aroclor 1248 (6)	7.794	5202	0.441 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.608	994	0.077 ng/ml
35)	Aroclor 1254 (2)	7.794	5202	0.257 ng/ml
36)	Aroclor 1254 (3)	8.098	4852	0.226 ng/ml
37)	Aroclor 1254 (4)	8.332	1048	0.063 ng/ml
38)	Aroclor 1254 (5)	8.667	2393	0.152 ng/ml
39)	Aroclor 1254 (6)	8.883	3789	0.775 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.233	3562	0.226 ng/ml
42)	Aroclor 1260 (2)	8.436	2649	0.135 ng/ml
43)	Aroclor 1260 (3)	8.667	2393	0.119 ng/ml
44)	Aroclor 1260 (4)	9.189	4372	0.141 ng/ml
45)	Aroclor 1260 (5)	9.435	7359	0.411 ng/ml
46)	Aroclor 1260 (6)	10.013	2820	0.409 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 12:16
Operator : MJB / KAK
Sample : 9L12014-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 09:26:48 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

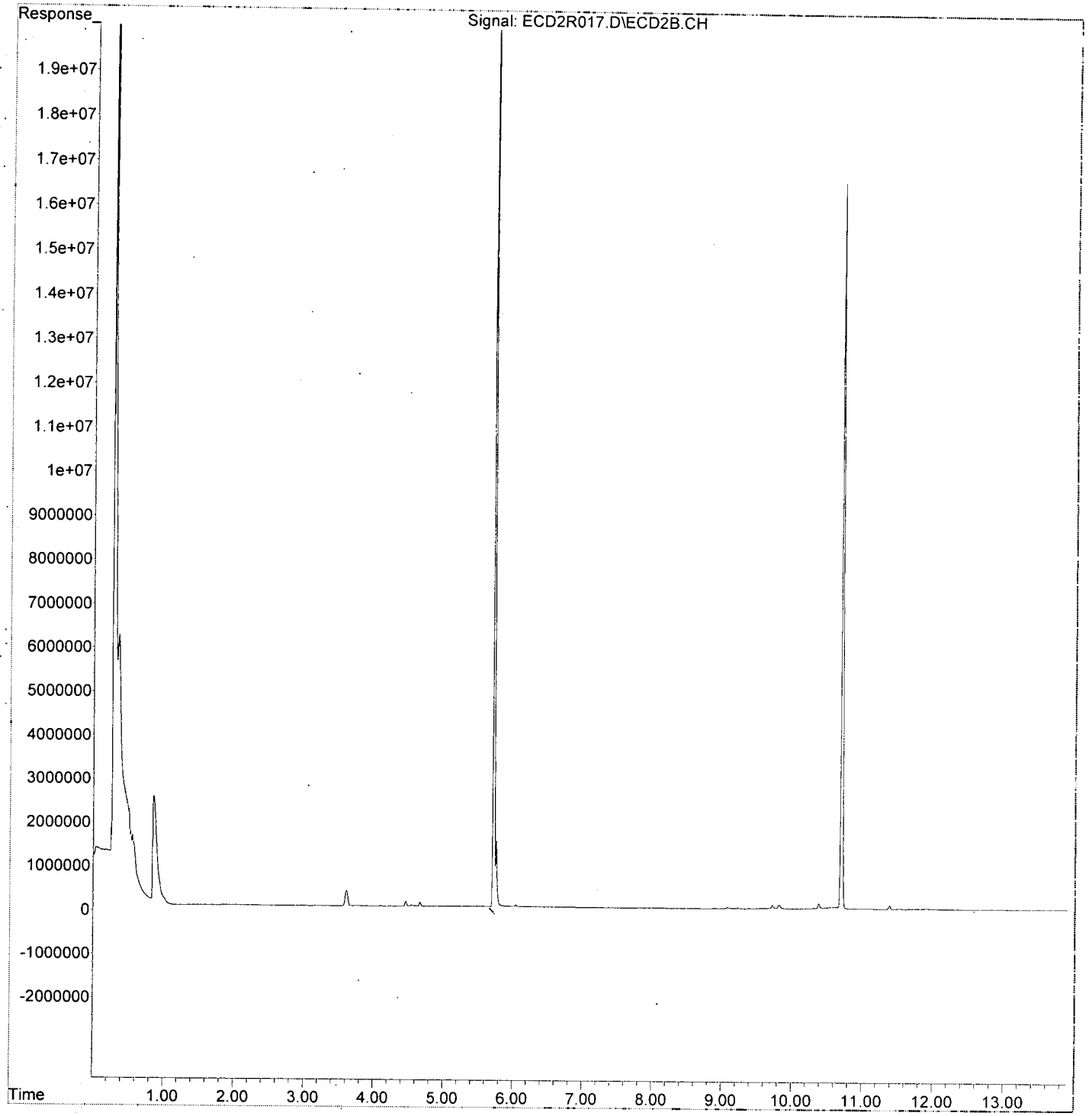
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.436	2649	0.175 ng/ml
49)	Aroclor 1262 (2)	8.747	1164	0.055 ng/ml
50)	Aroclor 1262 (3)	8.943	1034	0.059 ng/ml
51)	Aroclor 1262 (4)	9.189	4372	0.122 ng/ml
52)	Aroclor 1262 (5)	9.435	7359	0.335 ng/ml
53)	Aroclor 1262 (6)	10.013	2820	0.291 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.961	1481	0.159 ng/ml
56)	Aroclor 1268 (2)	9.435	7359	0.188 ng/ml
57)	Aroclor 1268 (3)	9.500	8224	0.261 ng/ml
58)	Aroclor 1268 (4)	9.722	84749	3.129 ng/ml
59)	Aroclor 1268 (5)	10.013	2820	0.266 ng/ml
60)	Aroclor 1268 (6)	10.383	123722	1.684 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 : K:\DATA\9L12014\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 12:16
Operator : MJB / KAK
Sample : 9L12014-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 09:26:48 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R030.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 16:05
Operator : MJB / KAK
Sample : 9L12014-CCV2/3
Misc : 12/16/19
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 09:29:21 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/16/19

	Compound	R.T.	Response	Conc Units	
System Monitoring Compounds					
1) S	TCMX (S)	5.721	78389308	298.817 ng/ml	
62) S	DCBP (S)	10.706	43295820	294.950 ng/ml	
Target Compounds					
2)	Aroclor 1016 (1)	6.392	4175834	470.088 ng/ml	478.27
3)	Aroclor 1016 (2)	6.883	7712767	471.346 ng/ml	
4)	Aroclor 1016 (3)	7.010	3478111	472.195 ng/ml	
5)	Aroclor 1016 (4)	7.094	3573027	479.131 ng/ml	
6)	Aroclor 1016 (5)	7.139	4069289	493.184 ng/ml	
7)	Aroclor 1016 (6)	7.265	3981299	483.690 ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml	
9)	Aroclor 1221 (1)	5.895	295812	137.981 ng/ml	
10)	Aroclor 1221 (2)	5.970	546811	250.142 ng/ml	
11)	Aroclor 1221 (3)	6.057	2477551	350.194 ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml	
13)	Aroclor 1232 (1)	6.057	2477551	432.785 ng/ml	
14)	Aroclor 1232 (2)	6.392	4175834	1201.249 ng/ml	
15)	Aroclor 1232 (3)	6.883	7712767	1191.298 ng/ml	
16)	Aroclor 1232 (4)	7.094	3573027	1496.493 ng/ml	
17)	Aroclor 1232 (5)	7.139	4069289	1489.300 ng/ml	
18)	Aroclor 1232 (6)	7.265	3981299	1342.304 ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml	
20)	Aroclor 1242 (1)	6.392	4175834	637.389 ng/ml	
21)	Aroclor 1242 (2)	6.883	7712767	651.871 ng/ml	
22)	Aroclor 1242 (3)	7.010	3478111	658.427 ng/ml	
23)	Aroclor 1242 (4)	7.094	3573027	715.645 ng/ml	
24)	Aroclor 1242 (5)	7.139	4069289	699.904 ng/ml	
25)	Aroclor 1242 (6)	7.265	3981299	642.655 ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml	
27)	Aroclor 1248 (1)	6.855	6396767	857.203 ng/ml	
28)	Aroclor 1248 (2)	7.094	3573027	382.709 ng/ml	
29)	Aroclor 1248 (3)	7.139	4069289	464.023 ng/ml	
30)	Aroclor 1248 (4)	7.265	3981299	380.238 ng/ml	
31)	Aroclor 1248 (5)	7.630	901413	69.699 ng/ml	
32)	Aroclor 1248 (6)	7.788	3350521	284.157 ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml	
34)	Aroclor 1254 (1)	7.607	2810831	217.471 ng/ml	
35)	Aroclor 1254 (2)	7.788	3350521	165.478 ng/ml	
36)	Aroclor 1254 (3)	8.099	1907316	89.012 ng/ml	
37)	Aroclor 1254 (4)	8.339	1295368	78.428 ng/ml	
38)	Aroclor 1254 (5)	8.673	10547494	672.108 ng/ml	
39)	Aroclor 1254 (6)	8.890	1445012	295.495 ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml	
41)	Aroclor 1260 (1)	8.234	8142819	515.928 ng/ml	531.78
42)	Aroclor 1260 (2)	8.440	10042131	513.041 ng/ml	
43)	Aroclor 1260 (3)	8.673	10547494	523.912 ng/ml	
44)	Aroclor 1260 (4)	9.164	16493790	532.983 ng/ml	
45)	Aroclor 1260 (5)	9.431	9998409	558.658 ng/ml	
46)	Aroclor 1260 (6)	10.018	3767851	546.181 ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R030.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 16:05
Operator : MJB / KAK
Sample : 9L12014-CCV/3
Misc : 12/16/19
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 09:29:21 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

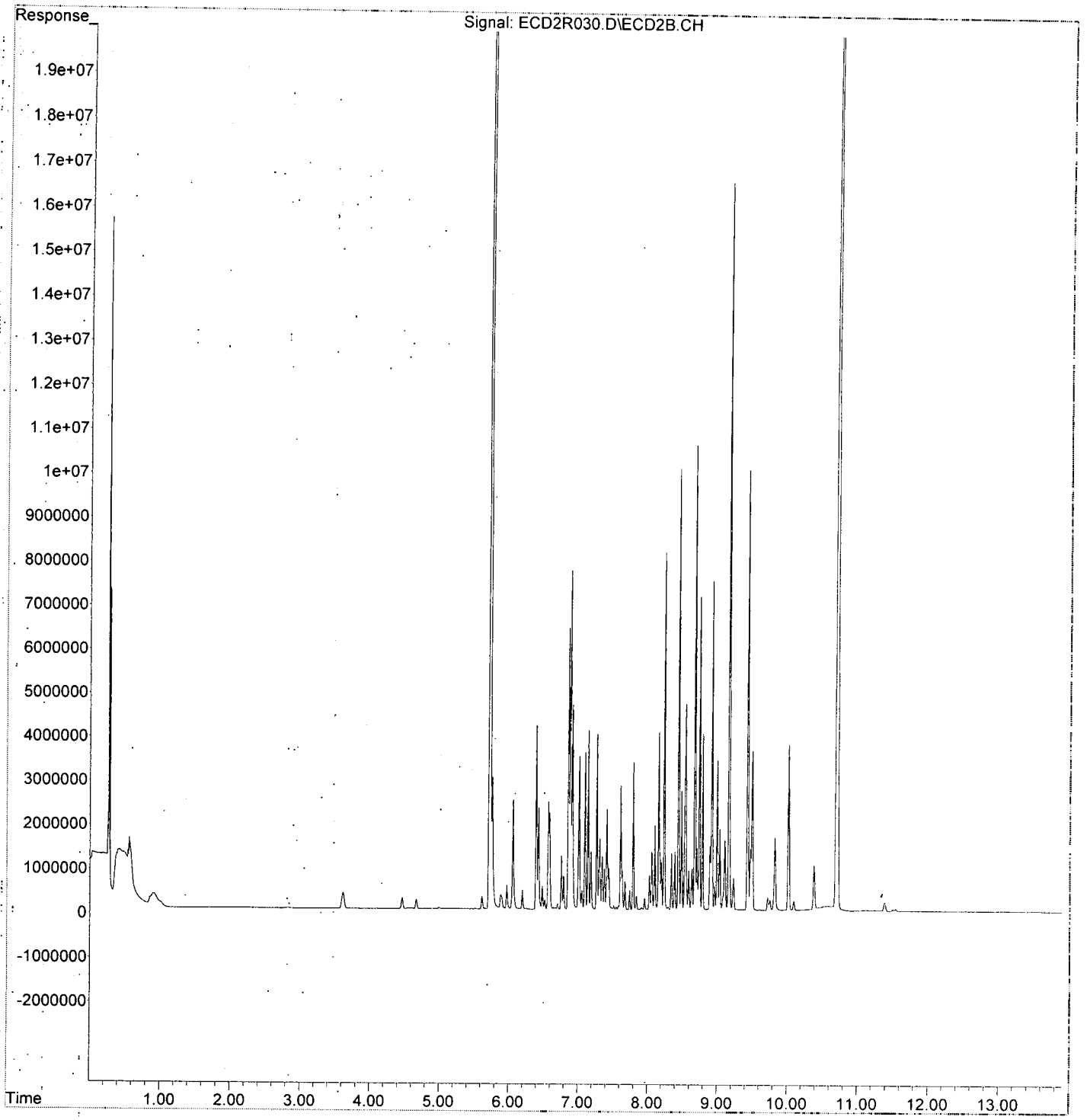
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.440	10042131	663.569 ng/ml
49)	Aroclor 1262 (2)	8.742	7134082	337.241 ng/ml
50)	Aroclor 1262 (3)	8.920	7477075	428.037 ng/ml
51)	Aroclor 1262 (4)	9.164	16493790	460.600 ng/ml
52)	Aroclor 1262 (5)	9.431	9998409	455.201 ng/ml
53)	Aroclor 1262 (6)	10.018	3767851	388.417 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.960	539516	57.805 ng/ml
56)	Aroclor 1268 (2)	9.431	9998409	254.826 ng/ml
57)	Aroclor 1268 (3)	9.497	3619937	114.820 ng/ml
58)	Aroclor 1268 (4)	9.721	294636	10.878 ng/ml
59)	Aroclor 1268 (5)	10.018	3767851	355.586 ng/ml
60)	Aroclor 1268 (6)	10.381	986928	13.431 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 : K:\DATA\9L12014\
Data File : ECD2R030.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 16:05
Operator : MJB / KAK
Sample : 9L12014-CCV23
Misc : 12/16/19
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 09:29:21 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R031.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 16:23
Operator : MJB / KAK
Sample : 9L12014-CCB23
Misc : 12/16/19
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 09:29:42 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/16/19 clean

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.719	29901640	113.984 ng/ml
52) S	DCBP (S)	10.703	17625978	120.076 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.395	3312	0.373 ng/ml
3)	Aroclor 1016 (2)	6.892	3905	0.239 ng/ml
4)	Aroclor 1016 (3)	7.002	2216	0.301 ng/ml
5)	Aroclor 1016 (4)	7.087	2349	0.315 ng/ml
6)	Aroclor 1016 (5)	7.136	2491	0.302 ng/ml
7)	Aroclor 1016 (6)	7.266	1497	0.182 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.902	13617	6.352 ng/ml
10)	Aroclor 1221 (2)	5.969	9686	4.431 ng/ml
11)	Aroclor 1221 (3)	6.039	50543	7.144 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.039	50543	8.829 ng/ml
14)	Aroclor 1232 (2)	6.395	3312	0.953 ng/ml
15)	Aroclor 1232 (3)	6.892	3905	0.603 ng/ml
16)	Aroclor 1232 (4)	7.087	2349	0.984 ng/ml
17)	Aroclor 1232 (5)	7.136	2491	0.912 ng/ml
18)	Aroclor 1232 (6)	7.266	1497	0.505 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.395	3312	0.505 ng/ml
21)	Aroclor 1242 (2)	6.892	3905	0.330 ng/ml
22)	Aroclor 1242 (3)	7.002	2216	0.420 ng/ml
23)	Aroclor 1242 (4)	7.087	2349	0.470 ng/ml
24)	Aroclor 1242 (5)	7.136	2491	0.428 ng/ml
25)	Aroclor 1242 (6)	7.266	1497	0.242 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.845	1358	0.182 ng/ml
28)	Aroclor 1248 (2)	7.087	2349	0.252 ng/ml
29)	Aroclor 1248 (3)	7.136	2491	0.284 ng/ml
30)	Aroclor 1248 (4)	7.266	1497	0.143 ng/ml
31)	Aroclor 1248 (5)	7.629	847	0.065 ng/ml
32)	Aroclor 1248 (6)	7.791	5753	0.488 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.609	1004	0.078 ng/ml
35)	Aroclor 1254 (2)	7.791	5753	0.284 ng/ml
36)	Aroclor 1254 (3)	8.102	5120	0.239 ng/ml
37)	Aroclor 1254 (4)	8.332	1864	0.113 ng/ml
38)	Aroclor 1254 (5)	8.671	3907	0.249 ng/ml
39)	Aroclor 1254 (6)	8.875	14968	3.061 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.229	3279	0.208 ng/ml
42)	Aroclor 1260 (2)	8.443	6137	0.314 ng/ml
43)	Aroclor 1260 (3)	8.671	3907	0.194 ng/ml
44)	Aroclor 1260 (4)	9.196	1544	0.050 ng/ml
45)	Aroclor 1260 (5)	9.431	3097	0.173 ng/ml
46)	Aroclor 1260 (6)	10.019	1633	0.237 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R031.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 16:23
Operator : MJB / KAK
Sample : 9L12014-CCB23
Misc : 12/16/19
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 16 09:29:42 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.443	6137	0.406 ng/ml
49)	Aroclor 1262 (2)	8.743	4020	0.190 ng/ml
50)	Aroclor 1262 (3)	8.950	4083	0.234 ng/ml
51)	Aroclor 1262 (4)	9.196	1544	0.043 ng/ml
52)	Aroclor 1262 (5)	9.431	3097	0.141 ng/ml
53)	Aroclor 1262 (6)	10.019	1633	0.168 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.959	4003	0.429 ng/ml
56)	Aroclor 1268 (2)	9.431	3097	0.079 ng/ml
57)	Aroclor 1268 (3)	9.497	1187	0.038 ng/ml
58)	Aroclor 1268 (4)	9.720	86155	3.181 ng/ml
59)	Aroclor 1268 (5)	10.019	1633	0.154 ng/ml
60)	Aroclor 1268 (6)	10.381	129392	1.761 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

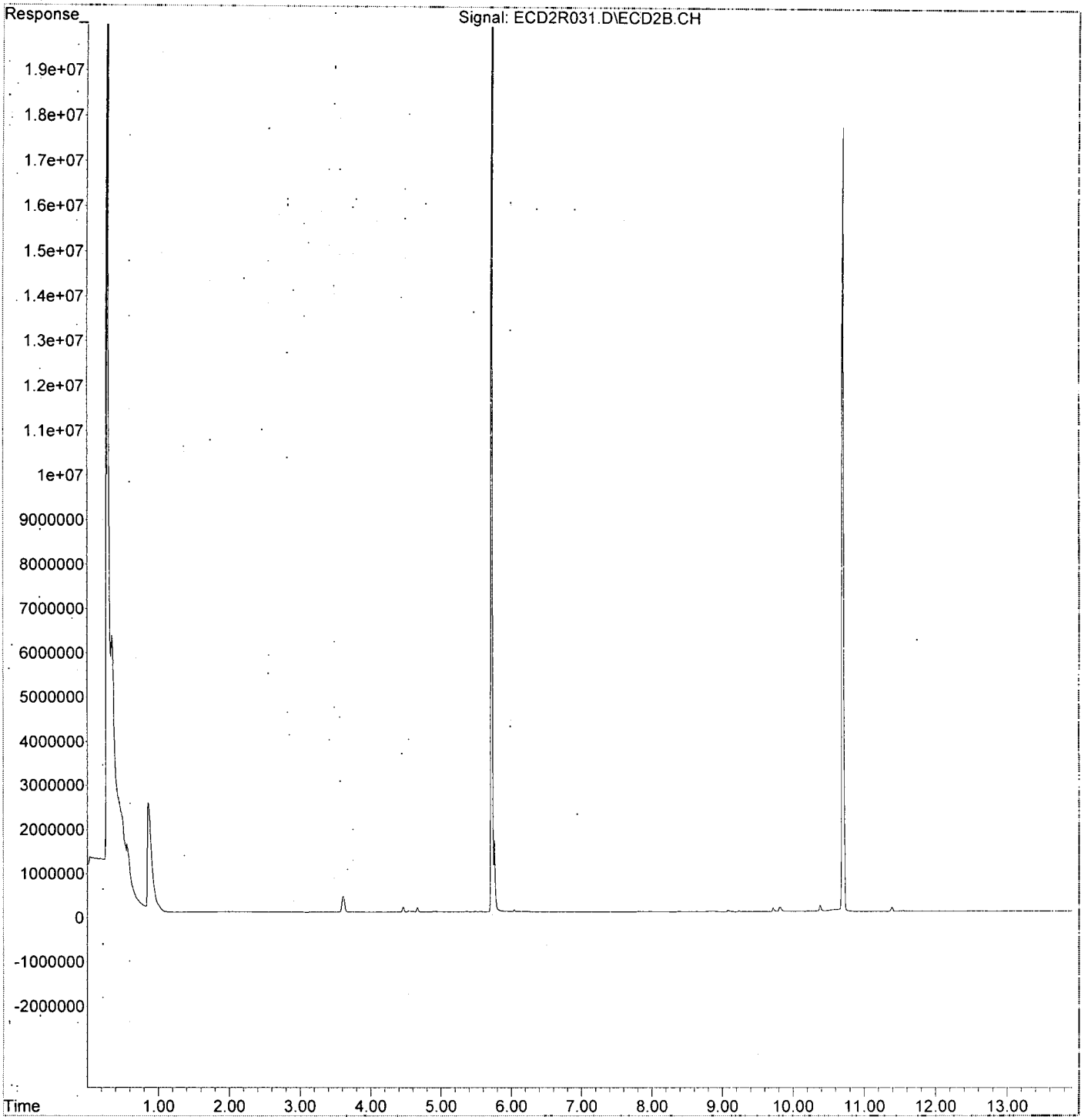
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L12014\
Data File : ECD2R031.D
Signal(s) : ECD2B.CH
Acq On : 12 Dec 2019 16:23
Operator : MJB / KAK
Sample : 9L12014-CCB23
Misc :
ALS Vial : 53 Sample Multiplier: 1

12/16/19

Integration File: events.e
Quant Time: Dec 16 09:29:42 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
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

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data

Sequence 9L10023 (QC Only)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**9L10023**	Instrument:	**DUALECD2F**
Date:	**12/10/19 07:15**	Calibration:	**A9L0407**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L10023-CCV1	Soil	QC	QC				A19K315
2	9L10023-CCB1	Soil	QC	QC				A19L018
3	9120536-BLK1	Soil	QC	QC		9120536		
4	9120536-BS1	Soil	QC	QC		9120536		
5	A9J0095-32	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
6	9L10023-IBL1	Soil	QC	QC				
7	A9J0095-33	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
8	9L10023-IBL2	Soil	QC	QC				
9	A9J0096-23	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
10	9L10023-IBL3	Soil	QC	QC				
11	A9J0096-24	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
12	9L10023-IBL4	Soil	QC	QC				
13	A9J0096-34	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120536		
14	9L10023-IBL5	Soil	QC	QC				
15	9L10023-CCV2	Soil	QC	QC				A19K315
16	9L10023-CCB2	Soil	QC	QC				A19L018

Comments:

Data Entered By: 12/12/19

Data Reviewed By: MJB 12/12/19

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.

9L10023-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	446.57
1016 (2)	468.93
1016 (3)	462.56
1016 (4)	455.25
1016 (5)	466.07
1016 (6)	470.99
Average:	**461.73**

Aroclor 1260

Peak	Initial Res
1260 (1)	490.02
1260 (2)	505.59
1260 (3)	488.41
1260 (4)	521.38
1260 (5)	515.27
1260 (6)	492.10
Average:	**502.13**

9120536-BS1

Aroclor 1016

Peak	Initial Res
1016 (1)	669.17
1016 (2)	792.39
1016 (3)	713.93
1016 (4)	786.20
1016 (5)	735.95
1016 (6)	697.78
Average:	**732.57**

Aroclor 1260

Peak	Initial Res
1260 (1)	879.11
1260 (2)	967.79
1260 (3)	910.65
1260 (4)	1,015.80
1260 (5)	959.60
1260 (6)	996.23
Average:	**954.86**

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.

9L10023-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	450.77
1016 (2)	489.79
1016 (3)	477.35
1016 (4)	480.89
1016 (5)	468.64
1016 (6)	470.48
Average:	**472.99**

Aroclor 1260

Peak	Initial Res
1260 (1)	491.65
1260 (2)	524.00
1260 (3)	489.82
1260 (4)	522.37
1260 (5)	543.91
1260 (6)	503.66
Average:	**512.57**

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L10023\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 8:04
Operator : MJB / KAK
Sample : 9L10023-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:33:58 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/12/19

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	4.812	16110485	241.944	ng/ml	
62)	S DCBP (S)	9.577	30057063	269.147	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	5.731	1669243	446.565	ng/ml	461.73
3)	Aroclor 1016 (2)	6.144	3373423	468.928	ng/ml	
4)	Aroclor 1016 (3)	6.227	1837717	462.560	ng/ml	
5)	Aroclor 1016 (4)	6.383	1628575	455.246	ng/ml	
6)	Aroclor 1016 (5)	6.605	1934891	466.072	ng/ml	
7)	Aroclor 1016 (6)	6.731	1381524	470.991	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.169	160850	148.600	ng/ml	
10)	Aroclor 1221 (2)	5.288	177099	246.805	ng/ml	
11)	Aroclor 1221 (3)	5.369	761598	325.454	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.369	761598	428.786	ng/ml	
14)	Aroclor 1232 (2)	6.144	3373423	1213.382	ng/ml	
15)	Aroclor 1232 (3)	6.227	1837717	1252.754	ng/ml	
16)	Aroclor 1232 (4)	6.383	1628575	1429.371	ng/ml	
17)	Aroclor 1232 (5)	6.605	1934891	1347.436	ng/ml	
18)	Aroclor 1232 (6)	6.731	1381524	1153.075	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	5.731	1669243	628.474	ng/ml	
21)	Aroclor 1242 (2)	6.144	3373423	650.351	ng/ml	
22)	Aroclor 1242 (3)	6.227	1837717	651.633	ng/ml	
23)	Aroclor 1242 (4)	6.383	1628575	711.423	ng/ml	
24)	Aroclor 1242 (5)	6.605	1934891	648.268	ng/ml	
25)	Aroclor 1242 (6)	6.731	1381524	550.579	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.144	3373423	991.223	ng/ml	
28)	Aroclor 1248 (2)	6.383	1628575	360.686	ng/ml	
29)	Aroclor 1248 (3)	6.605	1934891	370.750	ng/ml	
30)	Aroclor 1248 (4)	6.898	376370	64.834	ng/ml	
31)	Aroclor 1248 (5)	6.932	1305541	211.962	ng/ml	
32)	Aroclor 1248 (6)	7.419	3048540	892.059	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	6.932	1305541	217.658	ng/ml	
35)	Aroclor 1254 (2)	7.042	1441074	197.744	ng/ml	
36)	Aroclor 1254 (3)	7.419	3048540	271.949	ng/ml	
37)	Aroclor 1254 (4)	7.579	430793	60.420	ng/ml	
38)	Aroclor 1254 (5)	7.958	3828712	499.898	ng/ml	
39)	Aroclor 1254 (6)	8.251	438314	175.755	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	7.531	4080768	490.018	ng/ml	502.13
42)	Aroclor 1260 (2)	7.665	5158222	505.589	ng/ml	
43)	Aroclor 1260 (3)	8.221	3841424	488.410	ng/ml	
44)	Aroclor 1260 (4)	8.391	9707378	521.384	ng/ml	
45)	Aroclor 1260 (5)	8.690	6232697	515.270	ng/ml	
46)	Aroclor 1260 (6)	9.081	2516886	492.098	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L10023\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 8:04
Operator : MJB / KAK
Sample : 9L10023-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:33:58 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

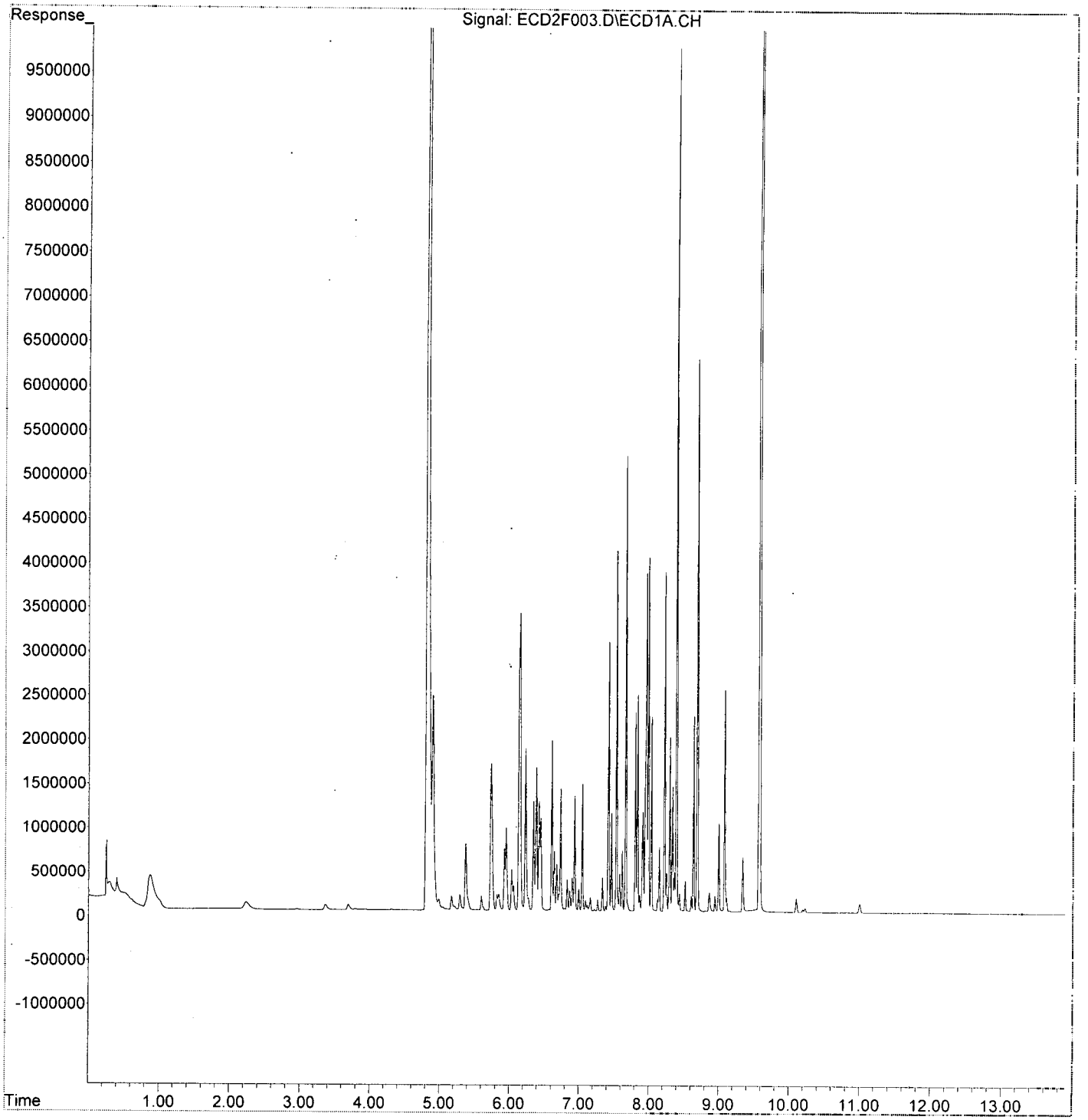
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.665	5158222	641.059 ng/ml
49)	Aroclor 1262 (2)	7.989	4011060	357.330 ng/ml
50)	Aroclor 1262 (3)	8.221	3841424	395.822 ng/ml
51)	Aroclor 1262 (4)	8.391	9707378	469.861 ng/ml
52)	Aroclor 1262 (5)	8.690	6232697	476.420 ng/ml
53)	Aroclor 1262 (6)	9.081	2516886	376.969 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.221	3841424	752.595 ng/ml
56)	Aroclor 1268 (2)	8.638	2206623	89.972 ng/ml
57)	Aroclor 1268 (3)	8.690	6232697	305.312 ng/ml
58)	Aroclor 1268 (4)	8.865	217947	11.379 ng/ml
59)	Aroclor 1268 (5)	9.081	2516886	324.771 ng/ml
60)	Aroclor 1268 (6)	9.341	620554	11.869 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 : K:\DATA\9L10023\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 8:04
Operator : MJB / KAK
Sample : 9L10023-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:33:58 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L10023\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 8:22
Operator : MJB / KAK
Sample : 9L10023-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:34:16 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/12/19

clear

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.813	6183016	92.855 ng/ml
62) S	DCBP (S)	9.576	11517566	103.135 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.719	2572	0.688 ng/ml
3)	Aroclor 1016 (2)	6.149	3740	0.520 ng/ml
4)	Aroclor 1016 (3)	6.215	916	0.231 ng/ml
5)	Aroclor 1016 (4)	6.390	1649	0.461 ng/ml
6)	Aroclor 1016 (5)	6.612	2321	0.559 ng/ml
7)	Aroclor 1016 (6)	6.737	1743	0.594 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.170	8267	7.637 ng/ml
10)	Aroclor 1221 (2)	5.298	7265	10.124 ng/ml
11)	Aroclor 1221 (3)	5.367	6555	2.801 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.367	6555	3.691 ng/ml
14)	Aroclor 1232 (2)	6.149	3740	1.345 ng/ml
15)	Aroclor 1232 (3)	6.215	916	0.625 ng/ml
16)	Aroclor 1232 (4)	6.390	1649	1.448 ng/ml
17)	Aroclor 1232 (5)	6.612	2321	1.617 ng/ml
18)	Aroclor 1232 (6)	6.737	1743	1.455 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.719	2572	0.969 ng/ml
21)	Aroclor 1242 (2)	6.149	3740	0.721 ng/ml
22)	Aroclor 1242 (3)	6.215	916	0.325 ng/ml
23)	Aroclor 1242 (4)	6.390	1649	0.721 ng/ml
24)	Aroclor 1242 (5)	6.612	2321	0.778 ng/ml
25)	Aroclor 1242 (6)	6.737	1743	0.695 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.119	919	0.270 ng/ml
28)	Aroclor 1248 (2)	6.390	1649	0.365 ng/ml
29)	Aroclor 1248 (3)	6.612	2321	0.445 ng/ml
30)	Aroclor 1248 (4)	6.904	909	0.157 ng/ml
31)	Aroclor 1248 (5)	6.934	996	0.162 ng/ml
32)	Aroclor 1248 (6)	7.417	2265	0.663 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.934	996	0.166 ng/ml
35)	Aroclor 1254 (2)	7.048	1188	0.163 ng/ml
36)	Aroclor 1254 (3)	7.417	2265	0.202 ng/ml
37)	Aroclor 1254 (4)	7.579	1696	0.238 ng/ml
38)	Aroclor 1254 (5)	7.963	3794	0.495 ng/ml
39)	Aroclor 1254 (6)	8.252	572	0.229 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.533	2514	0.302 ng/ml
42)	Aroclor 1260 (2)	7.666	4449	0.436 ng/ml
43)	Aroclor 1260 (3)	8.221	1454	0.185 ng/ml
44)	Aroclor 1260 (4)	8.393	8445	0.454 ng/ml
45)	Aroclor 1260 (5)	8.691	3616	0.299 ng/ml
46)	Aroclor 1260 (6)	9.081	3384	0.662 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L10023\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 8:22
Operator : MJB / KAK
Sample : 9L10023-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:34:16 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

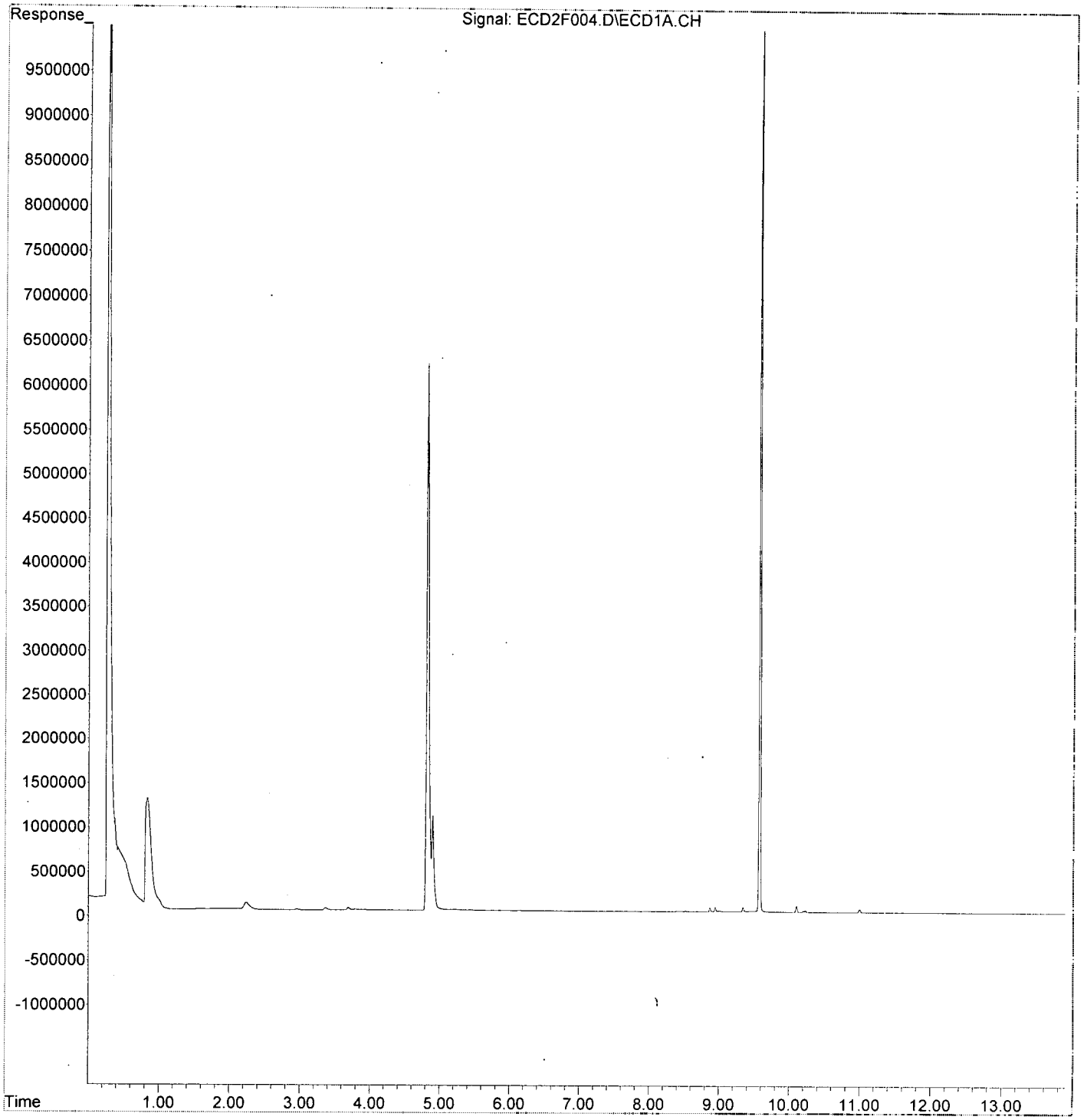
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.666	4449	0.553 ng/ml
49)	Aroclor 1262 (2)	7.987	2437	0.217 ng/ml
50)	Aroclor 1262 (3)	8.221	1454	0.150 ng/ml
51)	Aroclor 1262 (4)	8.393	8445	0.409 ng/ml
52)	Aroclor 1262 (5)	8.691	3616	0.276 ng/ml
53)	Aroclor 1262 (6)	9.081	3384	0.507 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.221	1454	0.285 ng/ml
56)	Aroclor 1268 (2)	8.639	1961	0.080 ng/ml
57)	Aroclor 1268 (3)	8.691	3616	0.177 ng/ml
58)	Aroclor 1268 (4)	8.870	49705	2.595 ng/ml
59)	Aroclor 1268 (5)	9.081	3384	0.437 ng/ml
60)	Aroclor 1268 (6)	9.343	54618	1.045 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 : K:\DATA\9L10023\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 8:22
Operator : MJB / KAK
Sample : 9L10023-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:34:16 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L10023\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 8:40
Operator : MJB / KAK
Sample : 9120536-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:34:36 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/12/19

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.811	10049017	150.914 ng/ml
62) S	DCBP (S)	9.576	25968426	232.535 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.725	2105	0.563 ng/ml
3)	Aroclor 1016 (2)	6.146	1661	0.231 ng/ml
4)	Aroclor 1016 (3)	6.240	868	0.218 ng/ml
5)	Aroclor 1016 (4)	6.382	4501	1.258 ng/ml
6)	Aroclor 1016 (5)	6.604	3945	0.950 ng/ml
7)	Aroclor 1016 (6)	6.730	2354	0.802 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.163	7151	6.606 ng/ml
10)	Aroclor 1221 (2)	5.307	5115	7.128 ng/ml
11)	Aroclor 1221 (3)	5.359	9057	3.870 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.359	9057	5.099 ng/ml
14)	Aroclor 1232 (2)	6.146	1661	0.597 ng/ml
15)	Aroclor 1232 (3)	6.240	868	0.591 ng/ml
16)	Aroclor 1232 (4)	6.382	4501	3.951 ng/ml
17)	Aroclor 1232 (5)	6.604	3945	2.747 ng/ml
18)	Aroclor 1232 (6)	6.730	2354	1.965 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.725	2105	0.793 ng/ml
21)	Aroclor 1242 (2)	6.146	1661	0.320 ng/ml
22)	Aroclor 1242 (3)	6.208	541	0.192 ng/ml
23)	Aroclor 1242 (4)	6.382	4501	1.966 ng/ml
24)	Aroclor 1242 (5)	6.604	3945	1.322 ng/ml
25)	Aroclor 1242 (6)	6.730	2354	0.938 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.119	486	0.143 ng/ml
28)	Aroclor 1248 (2)	6.382	4501	0.997 ng/ml
29)	Aroclor 1248 (3)	6.604	3945	0.756 ng/ml
30)	Aroclor 1248 (4)	6.897	14786	2.547 ng/ml
31)	Aroclor 1248 (5)	6.931	22488	3.651 ng/ml
32)	Aroclor 1248 (6)	7.412	73489	21.504 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.931	22488	3.749 ng/ml
35)	Aroclor 1254 (2)	7.041	46131	6.330 ng/ml
36)	Aroclor 1254 (3)	7.412	73489	6.556 ng/ml
37)	Aroclor 1254 (4)	7.578	69736	9.781 ng/ml
38)	Aroclor 1254 (5)	7.958	70275	9.176 ng/ml
39)	Aroclor 1254 (6)	8.249	23252	9.324 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.531	33974	4.080 ng/ml
42)	Aroclor 1260 (2)	7.663	47374	4.643 ng/ml
43)	Aroclor 1260 (3)	8.219	6488	0.825 ng/ml
44)	Aroclor 1260 (4)	8.389	26089	1.401 ng/ml
45)	Aroclor 1260 (5)	8.689	16295	1.347 ng/ml
46)	Aroclor 1260 (6)	9.080	7078	1.384 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

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Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L10023\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 8:40
Operator : MJB / KAK
Sample : 9120536-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:34:36 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

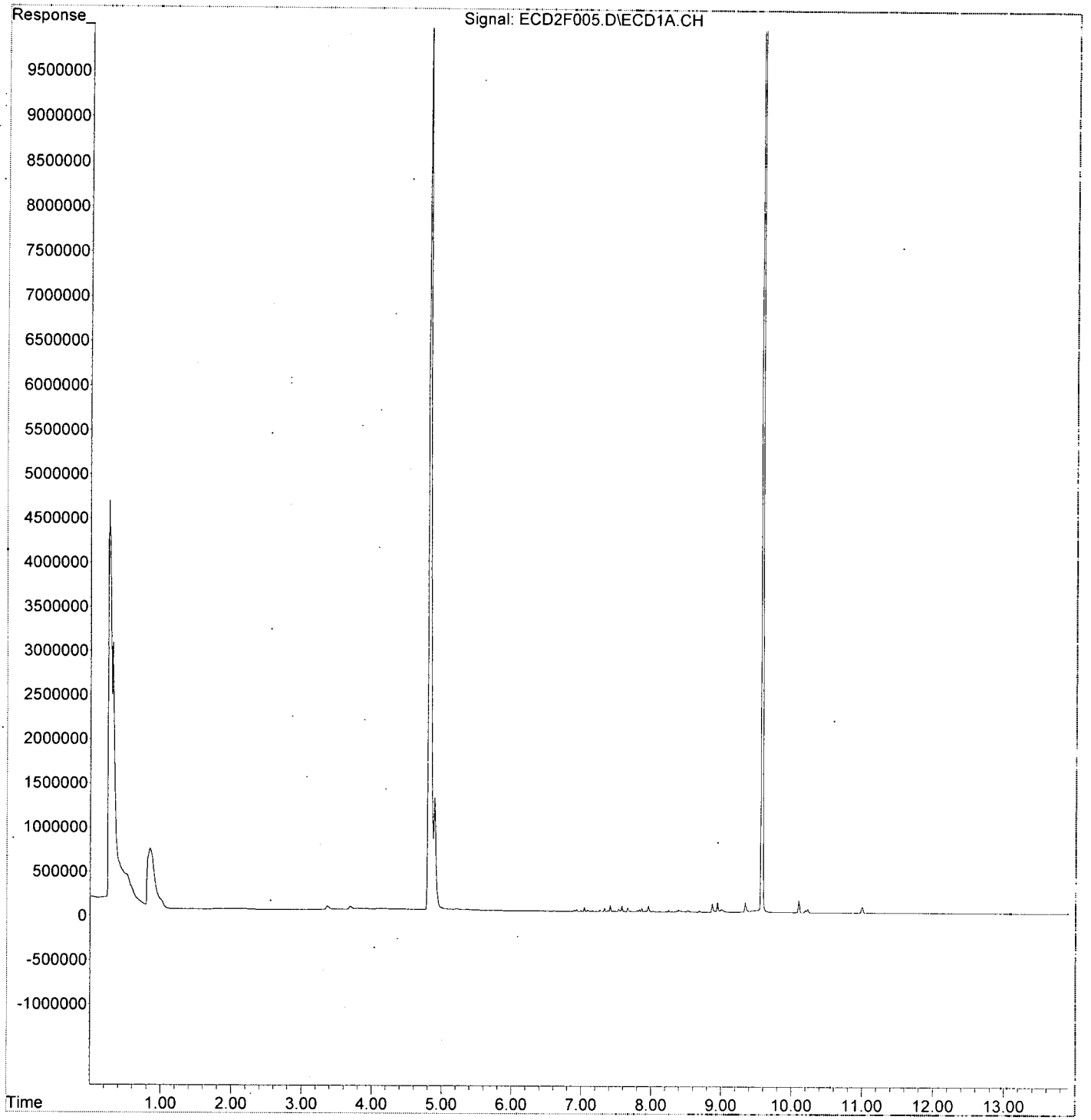
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.663	47374	5.888 ng/ml
49)	Aroclor 1262 (2)	7.988	8828	0.786 ng/ml
50)	Aroclor 1262 (3)	8.219	6488	0.669 ng/ml
51)	Aroclor 1262 (4)	8.389	26089	1.263 ng/ml
52)	Aroclor 1262 (5)	8.689	16295	1.246 ng/ml
53)	Aroclor 1262 (6)	9.080	7078	1.060 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.219	6488	1.271 ng/ml
56)	Aroclor 1268 (2)	8.637	5338	0.218 ng/ml
57)	Aroclor 1268 (3)	8.689	16295	0.798 ng/ml
58)	Aroclor 1268 (4)	8.869	100052	5.224 ng/ml
59)	Aroclor 1268 (5)	9.080	7078	0.913 ng/ml
60)	Aroclor 1268 (6)	9.341	114718	2.194 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 : K:\DATA\9L10023\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 8:40
Operator : MJB / KAK
Sample : 9120536-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:34:36 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L10023\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 8:57
Operator : MJB / KAK
Sample : 9120536-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:34:55 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/12/19

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	4.811	9931586	149.150	ng/ml	
62)	S DCBP (S)	9.576	25884384	231.783	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	5.730	2501338	669.172	ng/ml	732.57
3)	Aroclor 1016 (2)	6.143	5700397	792.392	ng/ml	
4)	Aroclor 1016 (3)	6.225	2836379	713.927	ng/ml	
5)	Aroclor 1016 (4)	6.382	2812506	786.197	ng/ml	
6)	Aroclor 1016 (5)	6.603	3055277	735.948	ng/ml	
7)	Aroclor 1016 (6)	6.729	2046739	697.777	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.167	210073	194.075	ng/ml	
10)	Aroclor 1221 (2)	5.287	247010	344.232	ng/ml	
11)	Aroclor 1221 (3)	5.368	1124771	480.648	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.368	1124771	633.256	ng/ml	
14)	Aroclor 1232 (2)	6.143	5700397	2050.368	ng/ml	
15)	Aroclor 1232 (3)	6.225	2836379	1933.533	ng/ml	
16)	Aroclor 1232 (4)	6.382	2812506	2468.486	ng/ml	
17)	Aroclor 1232 (5)	6.603	3055277	2127.661	ng/ml	
18)	Aroclor 1232 (6)	6.729	2046739	1708.290	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	5.730	2501338	941.760	ng/ml	
21)	Aroclor 1242 (2)	6.143	5700397	1098.960	ng/ml	
22)	Aroclor 1242 (3)	6.225	2836379	1005.747	ng/ml	
23)	Aroclor 1242 (4)	6.382	2812506	1228.608	ng/ml	
24)	Aroclor 1242 (5)	6.603	3055277	1023.644	ng/ml	
25)	Aroclor 1242 (6)	6.729	2046739	815.687	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.143	5700397	1674.964	ng/ml	
28)	Aroclor 1248 (2)	6.382	2812506	622.895	ng/ml	
29)	Aroclor 1248 (3)	6.603	3055277	585.430	ng/ml	
30)	Aroclor 1248 (4)	6.897	638824	110.045	ng/ml	
31)	Aroclor 1248 (5)	6.931	2280395	370.236	ng/ml	
32)	Aroclor 1248 (6)	7.419	5339002	1562.291	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	6.931	2280395	380.185	ng/ml	
35)	Aroclor 1254 (2)	7.041	2635930	361.702	ng/ml	
36)	Aroclor 1254 (3)	7.419	5339002	476.272	ng/ml	
37)	Aroclor 1254 (4)	7.577	787311	110.422	ng/ml	
38)	Aroclor 1254 (5)	7.958	7423118	969.203	ng/ml	
39)	Aroclor 1254 (6)	8.250	721398	289.266	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	7.531	7321014	879.106	ng/ml	954.86
42)	Aroclor 1260 (2)	7.664	9873747	967.787	ng/ml	
43)	Aroclor 1260 (3)	8.220	7162402	910.649	ng/ml	
44)	Aroclor 1260 (4)	8.391	18912639	1015.800	ng/ml	
45)	Aroclor 1260 (5)	8.689	11607248	959.596	ng/ml	
46)	Aroclor 1260 (6)	9.081	5095316	996.229	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L10023\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 8:57
Operator : MJB / KAK
Sample : 9120536-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:34:55 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

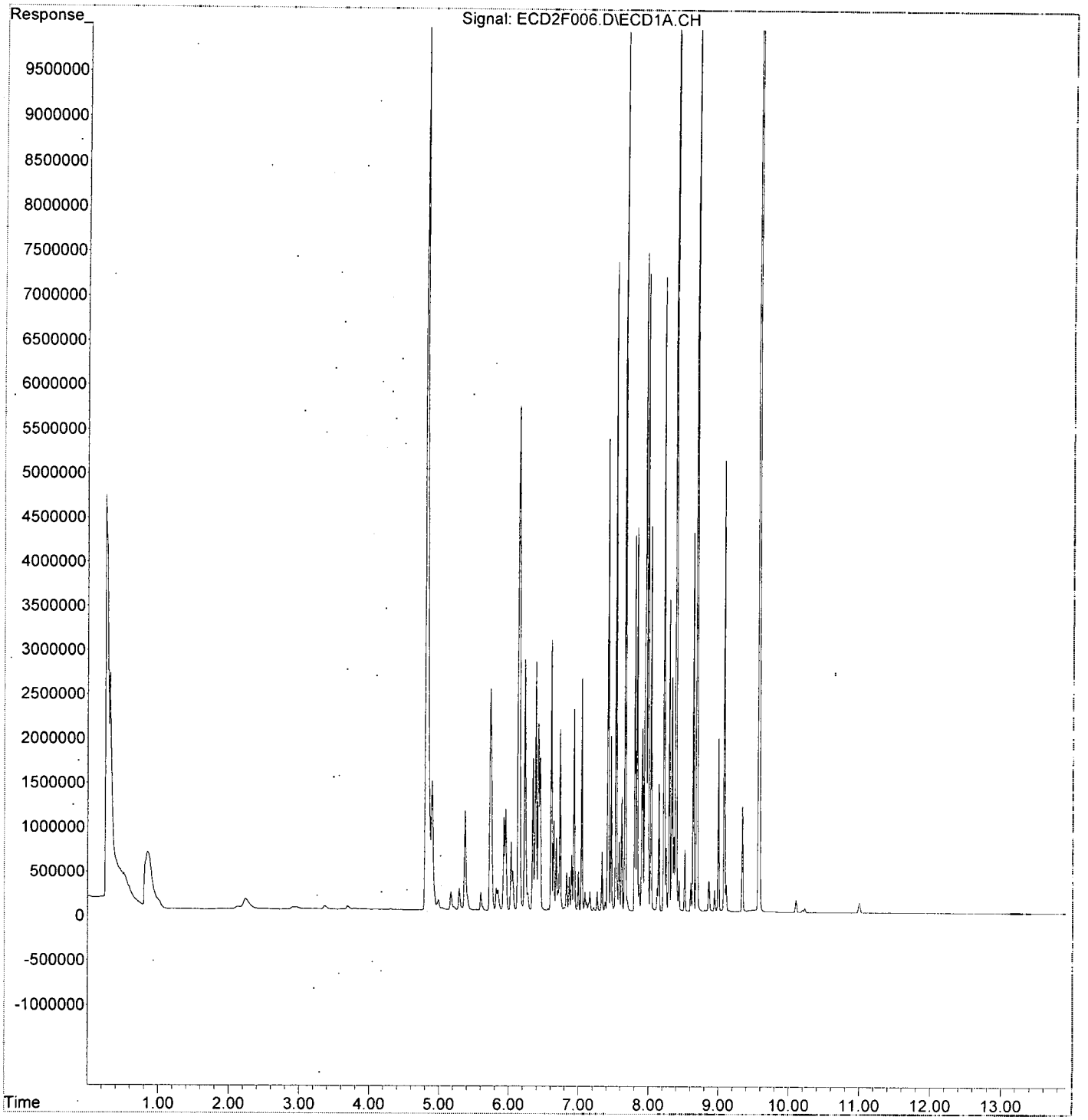
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.664	9873747	1227.099	ng/ml
49)	Aroclor 1262 (2)	7.988	7201680	641.571	ng/ml
50)	Aroclor 1262 (3)	8.220	7162402	738.017	ng/ml
51)	Aroclor 1262 (4)	8.391	18912639	915.419	ng/ml
52)	Aroclor 1262 (5)	8.689	11607248	887.244	ng/ml
53)	Aroclor 1262 (6)	9.081	5095316	763.156	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.220	7162402	1403.227	ng/ml
56)	Aroclor 1268 (2)	8.637	4289683	174.906	ng/ml
57)	Aroclor 1268 (3)	8.689	11607248	568.587	ng/ml
58)	Aroclor 1268 (4)	8.861	352269	18.392	ng/ml
59)	Aroclor 1268 (5)	9.081	5095316	657.483	ng/ml
60)	Aroclor 1268 (6)	9.340	1195808	22.872	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 : K:\DATA\9L10023\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 8:57
Operator : MJB / KAK
Sample : 9120536-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:34:55 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L10023\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 12:11
Operator : MJB / KAK
Sample : 9L10023-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:36:49 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/12/19

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.812	16013539	240.488	ng/ml
62) S	DCBP (S)	9.576	30459018	272.747	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.730	1684977	450.775	ng/ml
3)	Aroclor 1016 (2)	6.143	3523524	489.793	ng/ml
4)	Aroclor 1016 (3)	6.226	1896487	477.353	ng/ml
5)	Aroclor 1016 (4)	6.382	1720326	480.893	ng/ml
6)	Aroclor 1016 (5)	6.604	1945538	468.636	ng/ml
7)	Aroclor 1016 (6)	6.731	1380040	470.485	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.168	165944	153.307	ng/ml
10)	Aroclor 1221 (2)	5.288	182313	254.070	ng/ml
11)	Aroclor 1221 (3)	5.370	774844	331.114	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.370	774844	436.244	ng/ml
14)	Aroclor 1232 (2)	6.143	3523524	1267.371	ng/ml
15)	Aroclor 1232 (3)	6.226	1896487	1292.818	ng/ml
16)	Aroclor 1232 (4)	6.382	1720326	1509.899	ng/ml
17)	Aroclor 1232 (5)	6.604	1945538	1354.851	ng/ml
18)	Aroclor 1232 (6)	6.731	1380040	1151.837	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.730	1684977	634.398	ng/ml
21)	Aroclor 1242 (2)	6.143	3523524	679.288	ng/ml
22)	Aroclor 1242 (3)	6.226	1896487	672.473	ng/ml
23)	Aroclor 1242 (4)	6.382	1720326	751.503	ng/ml
24)	Aroclor 1242 (5)	6.604	1945538	651.836	ng/ml
25)	Aroclor 1242 (6)	6.731	1380040	549.987	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.143	3523524	1035.328	ng/ml
28)	Aroclor 1248 (2)	6.382	1720326	381.006	ng/ml
29)	Aroclor 1248 (3)	6.604	1945538	372.790	ng/ml
30)	Aroclor 1248 (4)	6.898	381411	65.702	ng/ml
31)	Aroclor 1248 (5)	6.932	1346247	218.571	ng/ml
32)	Aroclor 1248 (6)	7.419	3100662	907.311	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.932	1346247	224.445	ng/ml
35)	Aroclor 1254 (2)	7.042	1429243	196.121	ng/ml
36)	Aroclor 1254 (3)	7.419	3100662	276.599	ng/ml
37)	Aroclor 1254 (4)	7.579	428799	60.140	ng/ml
38)	Aroclor 1254 (5)	7.959	3922695	512.169	ng/ml
39)	Aroclor 1254 (6)	8.250	451317	180.969	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.531	4094384	491.653	ng/ml
42)	Aroclor 1260 (2)	7.665	5346033	523.998	ng/ml
43)	Aroclor 1260 (3)	8.221	3852545	489.824	ng/ml
44)	Aroclor 1260 (4)	8.391	9725814	522.375	ng/ml
45)	Aroclor 1260 (5)	8.689	6579086	543.907	ng/ml
46)	Aroclor 1260 (6)	9.080	2576024	503.661	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

472.99

512.57

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L10023\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 12:11
Operator : MJB / KAK
Sample : 9L10023-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:36:49 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

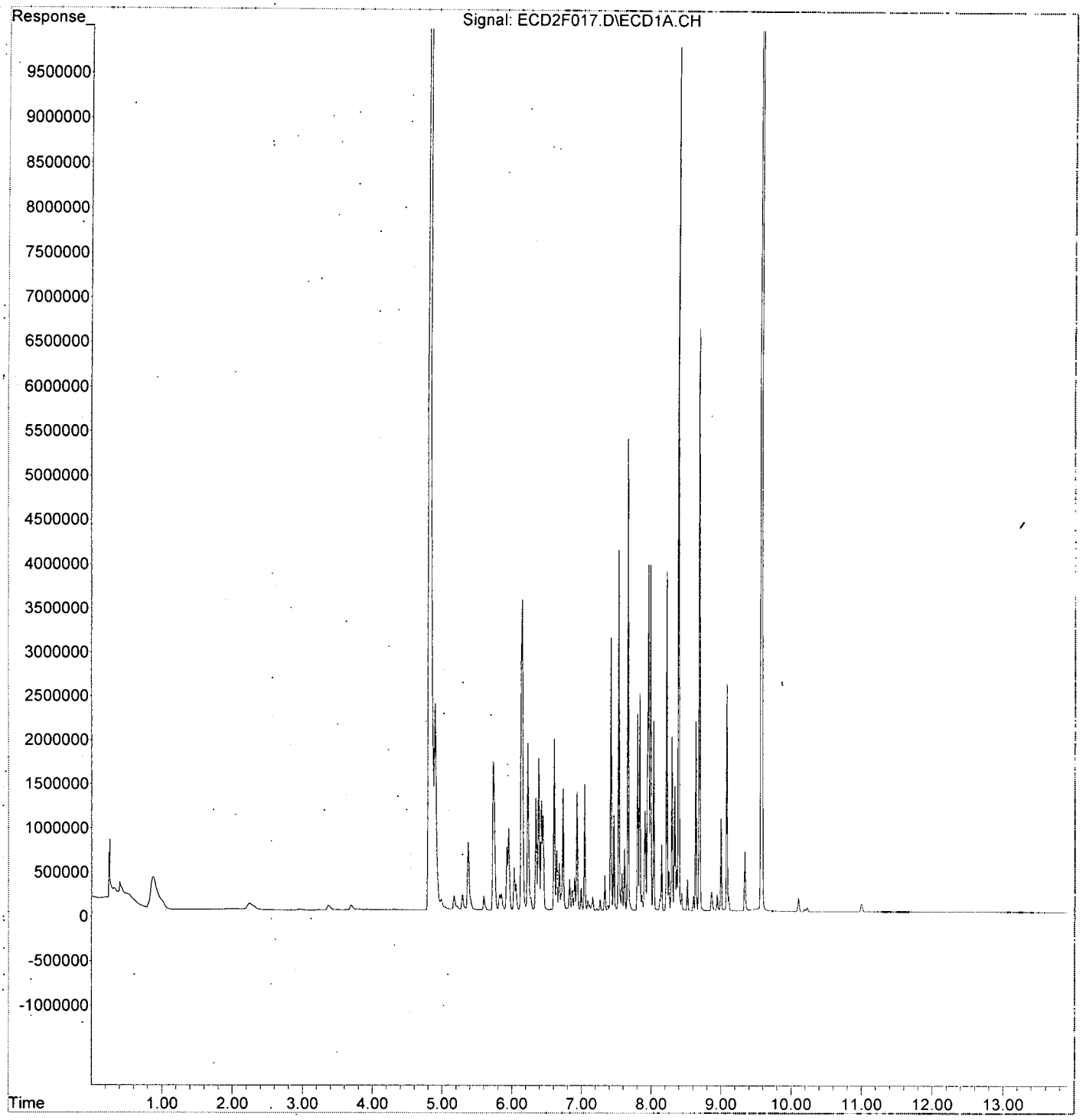
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.665	5346033	664.400	ng/ml
49)	Aroclor 1262 (2)	7.988	3923994	349.574	ng/ml
50)	Aroclor 1262 (3)	8.221	3852545	396.968	ng/ml
51)	Aroclor 1262 (4)	8.391	9725814	470.754	ng/ml
52)	Aroclor 1262 (5)	8.689	6579086	502.897	ng/ml
53)	Aroclor 1262 (6)	9.080	2576024	385.827	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.221	3852545	754.774	ng/ml
56)	Aroclor 1268 (2)	8.637	2149222	87.632	ng/ml
57)	Aroclor 1268 (3)	8.689	6579086	322.280	ng/ml
58)	Aroclor 1268 (4)	8.864	224303	11.711	ng/ml
59)	Aroclor 1268 (5)	9.080	2576024	332.402	ng/ml
60)	Aroclor 1268 (6)	9.339	681065	13.026	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 : K:\DATA\9L10023\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 12:11
Operator : MJB / KAK
Sample : 9L10023-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:36:49 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L10023\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 12:29
Operator : MJB / KAK
Sample : 9L10023-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:37:08 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/12/19

Clear

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.813	6436337	96.659 ng/ml
62) S	DCBP (S)	9.576	11976494	107.244 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.727	3222	0.862 ng/ml
3)	Aroclor 1016 (2)	6.149	4152	0.577 ng/ml
4)	Aroclor 1016 (3)	6.237	3307	0.832 ng/ml
5)	Aroclor 1016 (4)	6.378	1601	0.448 ng/ml
6)	Aroclor 1016 (5)	6.611	2774	0.668 ng/ml
7)	Aroclor 1016 (6)	6.737	2199	0.750 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.171	9040	8.352 ng/ml
10)	Aroclor 1221 (2)	5.291	8029	11.189 ng/ml
11)	Aroclor 1221 (3)	5.375	7547	3.225 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.375	7547	4.249 ng/ml
14)	Aroclor 1232 (2)	6.149	4152	1.494 ng/ml
15)	Aroclor 1232 (3)	6.237	3307	2.254 ng/ml
16)	Aroclor 1232 (4)	6.378	1601	1.405 ng/ml
17)	Aroclor 1232 (5)	6.611	2774	1.932 ng/ml
18)	Aroclor 1232 (6)	6.737	2199	1.835 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.727	3222	1.213 ng/ml
21)	Aroclor 1242 (2)	6.149	4152	0.801 ng/ml
22)	Aroclor 1242 (3)	6.212	1762	0.625 ng/ml
23)	Aroclor 1242 (4)	6.378	1601	0.699 ng/ml
24)	Aroclor 1242 (5)	6.611	2774	0.929 ng/ml
25)	Aroclor 1242 (6)	6.737	2199	0.876 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.117	1654	0.486 ng/ml
28)	Aroclor 1248 (2)	6.378	1601	0.355 ng/ml
29)	Aroclor 1248 (3)	6.594	1683	0.322 ng/ml
30)	Aroclor 1248 (4)	6.902	1620	0.279 ng/ml
31)	Aroclor 1248 (5)	6.938	1706	0.277 ng/ml
32)	Aroclor 1248 (6)	7.416	2932	0.858 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.938	1706	0.284 ng/ml
35)	Aroclor 1254 (2)	7.043	1894	0.260 ng/ml
36)	Aroclor 1254 (3)	7.416	2932	0.262 ng/ml
37)	Aroclor 1254 (4)	7.574	2214	0.311 ng/ml
38)	Aroclor 1254 (5)	7.963	3889	0.508 ng/ml
39)	Aroclor 1254 (6)	8.250	532	0.213 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.533	2759	0.331 ng/ml
42)	Aroclor 1260 (2)	7.665	4369	0.428 ng/ml
43)	Aroclor 1260 (3)	8.220	1198	0.152 ng/ml
44)	Aroclor 1260 (4)	8.392	7299	0.392 ng/ml
45)	Aroclor 1260 (5)	8.690	2729	0.226 ng/ml
46)	Aroclor 1260 (6)	9.079	2869	0.561 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L10023\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 12:29
Operator : MJB / KAK
Sample : 9L10023-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:37:08 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

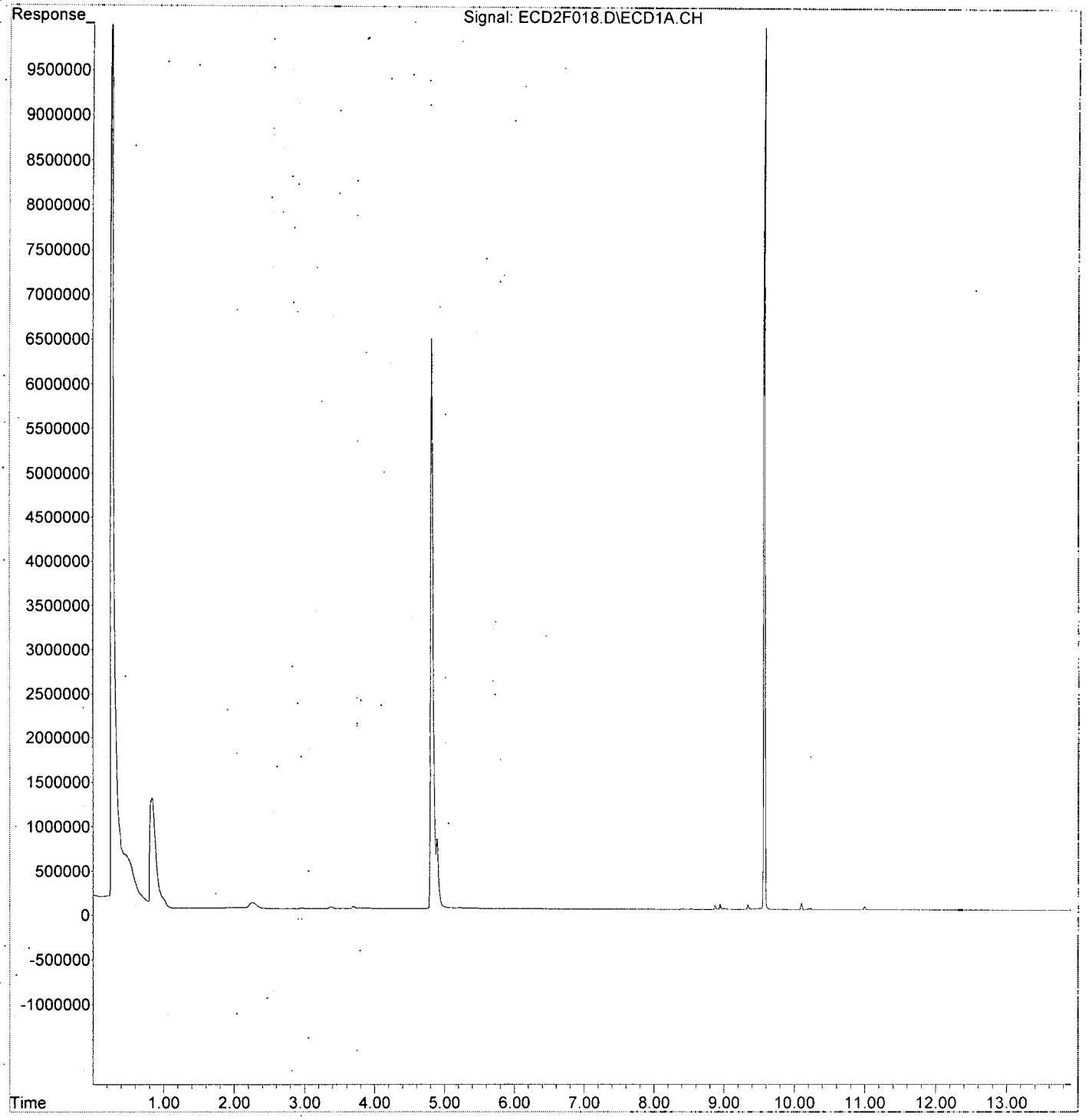
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.665	4369	0.543 ng/ml
49)	Aroclor 1262 (2)	7.988	2447	0.218 ng/ml
50)	Aroclor 1262 (3)	8.220	1198	0.123 ng/ml
51)	Aroclor 1262 (4)	8.392	7299	0.353 ng/ml
52)	Aroclor 1262 (5)	8.690	2729	0.209 ng/ml
53)	Aroclor 1262 (6)	9.079	2869	0.430 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.220	1198	0.235 ng/ml
56)	Aroclor 1268 (2)	8.635	1390	0.057 ng/ml
57)	Aroclor 1268 (3)	8.690	2729	0.134 ng/ml
58)	Aroclor 1268 (4)	8.870	51905	2.710 ng/ml
59)	Aroclor 1268 (5)	9.079	2869	0.370 ng/ml
60)	Aroclor 1268 (6)	9.343	62447	1.194 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 : K:\DATA\9L10023\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 10 Dec 2019 12:29
Operator : MJB / KAK
Sample : 9L10023-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 11 08:37:08 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
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

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data

Batch 9120981
Sequence 9L23019 (A9J0514-28)

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

JAN 1 6 2020

BATCH #: 9120981 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	9120981-BLK1		QC	12/17/19 07:16	31	2				100					
	9120981-BS1		QC	12/17/19 07:16	30	2	A19L171		100	100					
	A9J0514-28	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.64	2				100	PDI-066SC-B-00-02-191011	+1262,1268			
	A9J0514-29	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.63	2				100	PDI-066SC-B-02-04-191011	+1262,1268			
	A9J0514-30	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.65	2				100	PDI-066SC-B-04-06-191011	+1262,1268			
	A9J0514-31	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.57	2				100	PDI-066SC-B-06-08-191011	+1262,1268			
	A9J0514-32	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.27	2				100	PDI-088SC-B-00-02-191011	+1262,1268			
	A9J0514-33	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.42	2				100	PDI-088SC-B-02-04-191011	+1262,1268			
	A9J0514-34	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.09	2				100	PDI-088SC-B-04-06-191011	+1262,1268			
	A9J0514-35	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.63	2				100	PDI-088SC-B-06-08-191011	+1262,1268			
	A9J0514-36	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.47	2				100	PDI-1088SC-B-04-06-191011	+1262,1268			
	A9J0514-37	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.55	2				100	PDI-092SC-B-00-02-191011	+1262,1268			
	A9J0514-38	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.46	2				100	PDI-092SC-B-02-04-191011	+1262,1268			
	A9J0514-39	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.77	2				100	PDI-092SC-B-04-06-191011	+1262,1268			
	A9J0514-40	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.29	2				100	PDI-092SC-B-06-08-191011	+1262,1268			
	A9J0553-39	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.41	2				100	PDI-074SC-B-00-02-191012	+1262,1268			
	A9J0553-40	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.19	2				100	PDI-074SC-B-02-04-191012	+1262,1268			
	A9J0553-41	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.58	2				100	PDI-074SC-B-04-06-191012	+1262,1268			
	A9J0553-42	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.71	2				100	PDI-074SC-B-06-08-191012	+1262,1268			

Prepared By: _____ Date _____

Reviewed By: _____ Date 1/16/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120981 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH other	pH >11
	A9J0553-43	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.83	2				100	PDI-086SC-B-00 -02-191012	+1262,1268			
	A9J0553-44	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.9	2				100	PDI-086SC-B-02 -04-191012	+1262,1268			
	A9J0553-45	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30.58	2				100	PDI-086SC-B-04 -06-191012	MS/MSD this sample, +1262,1268			
	9120981-MS1		QC	12/17/19 07:16	30.55	2	A19L171	A9J0553-45	100	100					
	9120981-MSD1		QC	12/17/19 07:16	30.1	2	A19L171	A9J0553-45	100	100					

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19C104	09/03/23	Florisil Lot 817211-CM
A19G279	01/18/20	Sulfuric Acid
A19H411	08/31/21	n-Hexane Lot# 192712
A19I211	05/07/22	Copper, Granular Lot# J260003
A19I263	03/18/20	DCM CHEM PROD. 194934
A19L091	06/02/22	Sodium Sulfate Lot # 196883

Analyte Spike(s)

Std ID	Exp. Date	Description
A19L171	02/28/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: Date

Reviewed By: Date

APEX LABORATORIES

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PREPARATION BENCH SHEET

12/17/19 JDG Sediment

BATCH #: 9120981 (Soil)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
1/2	9120981-BLK1		QC	12/17/19 07:16	30 31.00	2				100					
3/4	9120981-BS1		QC	12/17/19 07:16	30	2	A19L171		100	100					
5/6	A9J0514-28	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.64	2				100	PDI-066SC-B-00-02-191011	+1262,1268 mud S			
7/8	A9J0514-29	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.63	2				100	PDI-066SC-B-02-04-191011	+1262,1268 mud S			
9/10	A9J0514-30	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.65	2				100	PDI-066SC-B-04-06-191011	+1262,1268 mud S			
11/12	A9J0514-31	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.57	2				100	PDI-066SC-B-06-08-191011	+1262,1268 mud S			
13/14	A9J0514-32	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.27	2				100	PDI-088SC-B-00-02-191011	+1262,1268 mud S			
15/16	A9J0514-33	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.42	2				100	PDI-088SC-B-02-04-191011	+1262,1268 mud S			
17/18	A9J0514-34	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.09	2				100	PDI-088SC-B-04-06-191011	+1262,1268 mud S			
19/20	A9J0514-35	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.63	2				100	PDI-088SC-B-06-08-191011	+1262,1268 mud S			
21/22	A9J0514-36	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.47	2				100	PDI-1088SC-B-04-06-191011	+1262,1268 mud S			
23/24	A9J0514-37	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.55	2				100	PDI-092SC-B-00-02-191011	+1262,1268 mud S			
25/26	A9J0514-38	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.46	2				100	PDI-092SC-B-02-04-191011	+1262,1268 mud S			
27/28	A9J0514-39	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.77	2				100	PDI-092SC-B-04-06-191011	+1262,1268 mud S			
29/30	A9J0514-40	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.29	2				100	PDI-092SC-B-06-08-191011	+1262,1268 mud S			
31/32	A9J0553-39	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.41	2				100	PDI-074SC-B-00-02-191012	+1262,1268 mud, odor S			
33/34	A9J0553-40	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.19	2				100	PDI-074SC-B-02-04-191012	+1262,1268 mud S			
35/36	A9J0553-41	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.50	2				100	PDI-074SC-B-04-06-191012	+1262,1268 dirt/sand, odor S			
37/38	A9J0553-42	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.71	2				100	PDI-074SC-B-06-08-191012	+1262,1268 mud S			

ADG 12-17-19
Prepared By: Date

SGG 12/17/2019
Reviewed By: Date

JDG 12/17/19

Printed: 12/17/2019 7:17:16AM

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120981 (Soil)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
41/42	A9J0553-43	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.53	2				100	PDI-086SC-B-00 -02-191012	+1262,1268 mixed S			
41/42	A9J0553-44	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.90	2				100	PDI-086SC-B-02 -04-191012	+1262,1268 mixed S			
43/44	A9J0553-45	A	8082 PCBs - Low Level (30g/2mL)	12/17/19 07:16	30 30.58	2				100	PDI-086SC-B-04 -06-191012	MS/MSD this sample, +1262,1268 mixed S			
45/46	9120981-MS1		QC	12/17/19 07:16	30 30.55	2	A19L171	A9J0553-45	100	100		S			
47/48	9120981-MSD1		QC	12/17/19 07:16	30 30.10	2	A19L171	A9J0553-45	100	100		S			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19C104	09/03/23	Florisil Lot 817211-CM
A19G279	01/18/20	Sulfuric Acid
A19H411	08/31/21	n-Hexane Lot# 192712
A19I211	05/07/22	Copper, Granular Lot# J260003
A19I263	03/18/20	DCM CHEM PROD. 194934
A19L091	06/02/22	Sodium Sulfate Lot # 196883

Analyte Spike(s)

Std ID	Exp. Date	Description
A19L171	02/28/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved. yes
Initial: AOO

Witness: JAG 12/17/19

S= staining on turbovap tube during and after solvent exchange
AOO 12/17/19

AOO 12-17-19
Prepared By: Date

JAG 12/17/19

Reviewed By: Date

Printed: 12/17/2019 7:17:16AM

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9L23019** Instrument: **DUALECD2F**

Date: **12/23/19 07:37** Calibration: **A9L0407**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L23019-CCV1	Sediment	QC	QC				A19K315
2	9L23019-CCB1	Sediment	QC	QC				A19L018
3	A9J0463-67	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/26/19	9120877		
4	9L23019-IBL1	Sediment	QC	QC				
5	A9J0463-68	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/26/19	9120877		
6	9L23019-IBL2	Sediment	QC	QC				
7	9120877-MS1	Sediment	QC	QC		9120877		
8	9L23019-IBL3	Sediment	QC	QC				
9	9120877-MSD1	Sediment	QC	QC		9120877		
10	9L23019-IBL4	Sediment	QC	QC				
11	9120981-BLK1	Sediment	QC	QC		9120981		
12	9120981-BS1	Sediment	QC	QC		9120981		
13	A9J0514-28	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
14	9L23019-IBL5	Sediment	QC	QC				
15	9L23019-CCV2	Sediment	QC	QC				A19K315
16	9L23019-CCB2	Sediment	QC	QC				A19L018
17	A9J0553-39	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
18	9L23019-IBL6	Sediment	QC	QC				
19	A9J0553-40	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
20	9L23019-IBL7	Sediment	QC	QC				
21	A9J0553-41	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
22	9L23019-IBL8	Sediment	QC	QC				
23	A9J0553-42	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
24	9L23019-IBL9	Sediment	QC	QC				
25	A9J0553-43	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
26	9L23019-IBLA	Sediment	QC	QC				
27	A9J0553-44	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
28	9L23019-IBLB	Sediment	QC	QC				
29	9L23019-CCV3	Sediment	QC	QC				A19K315
30	9L23019-CCB3	Sediment	QC	QC				A19L018

Comments:

Data Entered By: 1/4/20

Data Reviewed By: 1/6/20

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.

9L23019-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	482.46
1016 (2)	508.95
1016 (3)	491.96
1016 (4)	508.29
1016 (5)	518.73
1016 (6)	511.40
Average:	**503.63**

Aroclor 1260

Peak	Initial Res
1260 (1)	513.27
1260 (2)	543.23
1260 (3)	544.97
1260 (4)	554.69
1260 (5)	576.96
1260 (6)	531.20
Average:	**544.05**

9120877-MS1

Aroclor 1016

Peak	Initial Res
1016 (1)	858.80
1016 (2)	1,007.22
1016 (3)	875.92
1016 (4)	897.58
1016 (5)	862.62
1016 (6)	820.06
Average:	**887.03**

Aroclor 1260

Peak	Initial Res
1260 (1)	1,026.99
1260 (2)	1,065.62
1260 (3)	954.24
1260 (4)	1,058.59
1260 (5)	1,030.35
1260 (6)	1,051.54
Average:	**1,031.22**

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.

9120877-MSD1

Aroclor 1016

Peak	Initial Res
1016 (1)	839.75
1016 (2)	995.55
1016 (3)	858.57
1016 (4)	869.29
1016 (5)	871.22
1016 (6)	811.50
Average:	**874.31**

Aroclor 1260

Peak	Initial Res
1260 (1)	970.25
1260 (2)	1,059.96
1260 (3)	999.29
1260 (4)	1,101.90
1260 (5)	1,074.00
1260 (6)	1,046.79
Average:	**1,042.03**

9120981-BS1

Aroclor 1016

Peak	Initial Res
1016 (1)	868.44
1016 (2)	1,000.84
1016 (3)	917.22
1016 (4)	983.63
1016 (5)	963.11
1016 (6)	953.33
Average:	**947.76**

Aroclor 1260

Peak	Initial Res
1260 (1)	1,104.87
1260 (2)	1,232.42
1260 (3)	1,152.69
1260 (4)	1,263.41
1260 (5)	1,252.10
1260 (6)	1,325.95
Average:	**1,221.91**

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.

9L23019-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	515.31
1016 (2)	544.60
1016 (3)	538.27
1016 (4)	543.32
1016 (5)	538.20
1016 (6)	536.05
Average:	**535.96**

Aroclor 1260

Peak	Initial Res
1260 (1)	542.70
1260 (2)	536.55
1260 (3)	544.39
1260 (4)	563.64
1260 (5)	568.71
1260 (6)	532.74
Average:	**548.12**

9L23019-CCV3

Aroclor 1016

Peak	Initial Res
1016 (1)	506.77
1016 (2)	558.73
1016 (3)	514.51
1016 (4)	529.66
1016 (5)	533.73
1016 (6)	531.60
Average:	**529.17**

Aroclor 1260

Peak	Initial Res
1260 (1)	547.77
1260 (2)	558.58
1260 (3)	547.64
1260 (4)	560.62
1260 (5)	567.51
1260 (6)	562.49
Average:	**557.44**

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 8:20
Operator : MJB / KAK
Sample : 9L23019-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:49:40 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/31/19

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.810	18148435	272.549	ng/ml
62)	S DCBP (S)	9.579	30809296	275.883	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.728	1803403	482.457	ng/ml
3)	Aroclor 1016 (2)	6.141	3661331	508.949	ng/ml
4)	Aroclor 1016 (3)	6.224	1954539	491.965	ng/ml
5)	Aroclor 1016 (4)	6.380	1818316	508.285	ng/ml
6)	Aroclor 1016 (5)	6.603	2153508	518.732	ng/ml
7)	Aroclor 1016 (6)	6.728	1500055	511.401	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.167	178417	164.830	ng/ml
10)	Aroclor 1221 (2)	5.286	187235	260.930	ng/ml
11)	Aroclor 1221 (3)	5.366	827551	353.637	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.366	827551	465.919	ng/ml
14)	Aroclor 1232 (2)	6.141	3661331	1316.939	ng/ml
15)	Aroclor 1232 (3)	6.224	1954539	1332.391	ng/ml
16)	Aroclor 1232 (4)	6.380	1818316	1595.903	ng/ml
17)	Aroclor 1232 (5)	6.603	2153508	1499.679	ng/ml
18)	Aroclor 1232 (6)	6.728	1500055	1252.006	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.728	1803403	678.986	ng/ml
21)	Aroclor 1242 (2)	6.141	3661331	705.855	ng/ml
22)	Aroclor 1242 (3)	6.224	1954539	693.057	ng/ml
23)	Aroclor 1242 (4)	6.380	1818316	794.309	ng/ml
24)	Aroclor 1242 (5)	6.603	2153508	721.514	ng/ml
25)	Aroclor 1242 (6)	6.728	1500055	597.817	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.141	3661331	1075.820	ng/ml
28)	Aroclor 1248 (2)	6.380	1818316	402.709	ng/ml
29)	Aroclor 1248 (3)	6.603	2153508	412.640	ng/ml
30)	Aroclor 1248 (4)	6.896	414856	71.464	ng/ml
31)	Aroclor 1248 (5)	6.929	1495931	242.873	ng/ml
32)	Aroclor 1248 (6)	7.417	3431637	1004.161	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.929	1495931	249.400	ng/ml
35)	Aroclor 1254 (2)	7.040	1610887	221.046	ng/ml
36)	Aroclor 1254 (3)	7.417	3431637	306.124	ng/ml
37)	Aroclor 1254 (4)	7.577	452416	63.452	ng/ml
38)	Aroclor 1254 (5)	7.958	4443851	580.214	ng/ml
39)	Aroclor 1254 (6)	8.250	494494	198.282	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.530	4274414	513.271	ng/ml
42)	Aroclor 1260 (2)	7.663	5542225	543.228	ng/ml
43)	Aroclor 1260 (3)	8.220	4286276	544.970	ng/ml
44)	Aroclor 1260 (4)	8.390	10327529	554.693	ng/ml
45)	Aroclor 1260 (5)	8.689	6978951	576.965	ng/ml
46)	Aroclor 1260 (6)	9.082	2716902	531.205	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 8:20
Operator : MJB / KAK
Sample : 9L23019-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:49:40 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

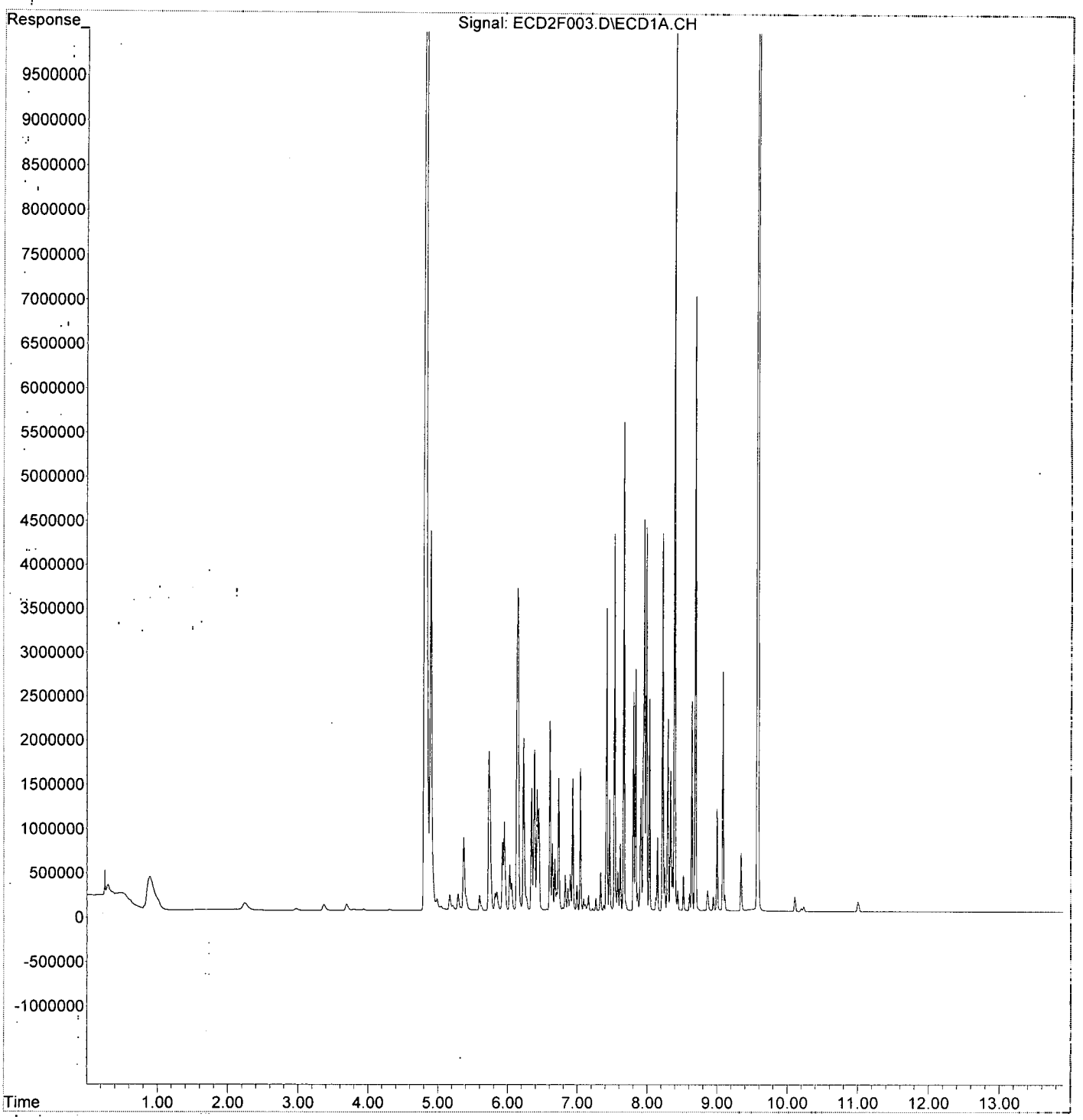
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.663	5542225	688.782 ng/ml
49)	Aroclor 1262 (2)	7.987	4354899	387.962 ng/ml
50)	Aroclor 1262 (3)	8.220	4286276	441.660 ng/ml
51)	Aroclor 1262 (4)	8.390	10327529	499.878 ng/ml
52)	Aroclor 1262 (5)	8.689	6978951	533.463 ng/ml
53)	Aroclor 1262 (6)	9.082	2716902	406.927 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.220	4286276	839.749 ng/ml
56)	Aroclor 1268 (2)	8.637	2374938	96.835 ng/ml
57)	Aroclor 1268 (3)	8.689	6978951	341.868 ng/ml
58)	Aroclor 1268 (4)	8.863	230394	12.029 ng/ml
59)	Aroclor 1268 (5)	9.082	2716902	350.580 ng/ml
60)	Aroclor 1268 (6)	9.340	663721	12.695 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 : K:\DATA\9L23019\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 8:20
Operator : MJB / KAK
Sample : 9L23019-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:49:40 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 8:37
Operator : MJB / KAK
Sample : 9L23019-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:50:02 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.812	7377321	110.791 ng/ml
62) S	DCBP (S)	9.578	12520152	112.112 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.732	4074	1.090 ng/ml
3)	Aroclor 1016 (2)	6.144	9864	1.371 ng/ml
4)	Aroclor 1016 (3)	6.238	6708	1.688 ng/ml
5)	Aroclor 1016 (4)	6.388	2909	0.813 ng/ml
6)	Aroclor 1016 (5)	6.607	3316	0.799 ng/ml
7)	Aroclor 1016 (6)	6.732	3074	1.048 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.163	10021	9.258 ng/ml
10)	Aroclor 1221 (2)	5.295	8661	12.069 ng/ml
11)	Aroclor 1221 (3)	5.362	8449	3.611 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.362	8449	4.757 ng/ml
14)	Aroclor 1232 (2)	6.144	9864	3.548 ng/ml
15)	Aroclor 1232 (3)	6.238	6708	4.573 ng/ml
16)	Aroclor 1232 (4)	6.388	2909	2.553 ng/ml
17)	Aroclor 1232 (5)	6.607	3316	2.309 ng/ml
18)	Aroclor 1232 (6)	6.732	3074	2.565 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.724	3929	1.479 ng/ml
21)	Aroclor 1242 (2)	6.144	9864	1.902 ng/ml
22)	Aroclor 1242 (3)	6.238	6708	2.379 ng/ml
23)	Aroclor 1242 (4)	6.388	2909	1.271 ng/ml
24)	Aroclor 1242 (5)	6.607	3316	1.111 ng/ml
25)	Aroclor 1242 (6)	6.732	3074	1.225 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.144	9864	2.898 ng/ml
28)	Aroclor 1248 (2)	6.388	2909	0.644 ng/ml
29)	Aroclor 1248 (3)	6.607	3316	0.635 ng/ml
30)	Aroclor 1248 (4)	6.900	2446	0.421 ng/ml
31)	Aroclor 1248 (5)	6.937	2084	0.338 ng/ml
32)	Aroclor 1248 (6)	7.416	2746	0.803 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.937	2084	0.347 ng/ml
35)	Aroclor 1254 (2)	7.042	1984	0.272 ng/ml
36)	Aroclor 1254 (3)	7.416	2746	0.245 ng/ml
37)	Aroclor 1254 (4)	7.577	2883	0.404 ng/ml
38)	Aroclor 1254 (5)	7.964	5388	0.703 ng/ml
39)	Aroclor 1254 (6)	8.249	594	0.238 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.530	3248	0.390 ng/ml
42)	Aroclor 1260 (2)	7.665	5161	0.506 ng/ml
43)	Aroclor 1260 (3)	8.218	1170	0.149 ng/ml
44)	Aroclor 1260 (4)	8.387	10306	0.554 ng/ml
45)	Aroclor 1260 (5)	8.689	3137	0.259 ng/ml
46)	Aroclor 1260 (6)	9.082	2931	0.573 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 8:37
Operator : MJB / KAK
Sample : 9L23019-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:50:02 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

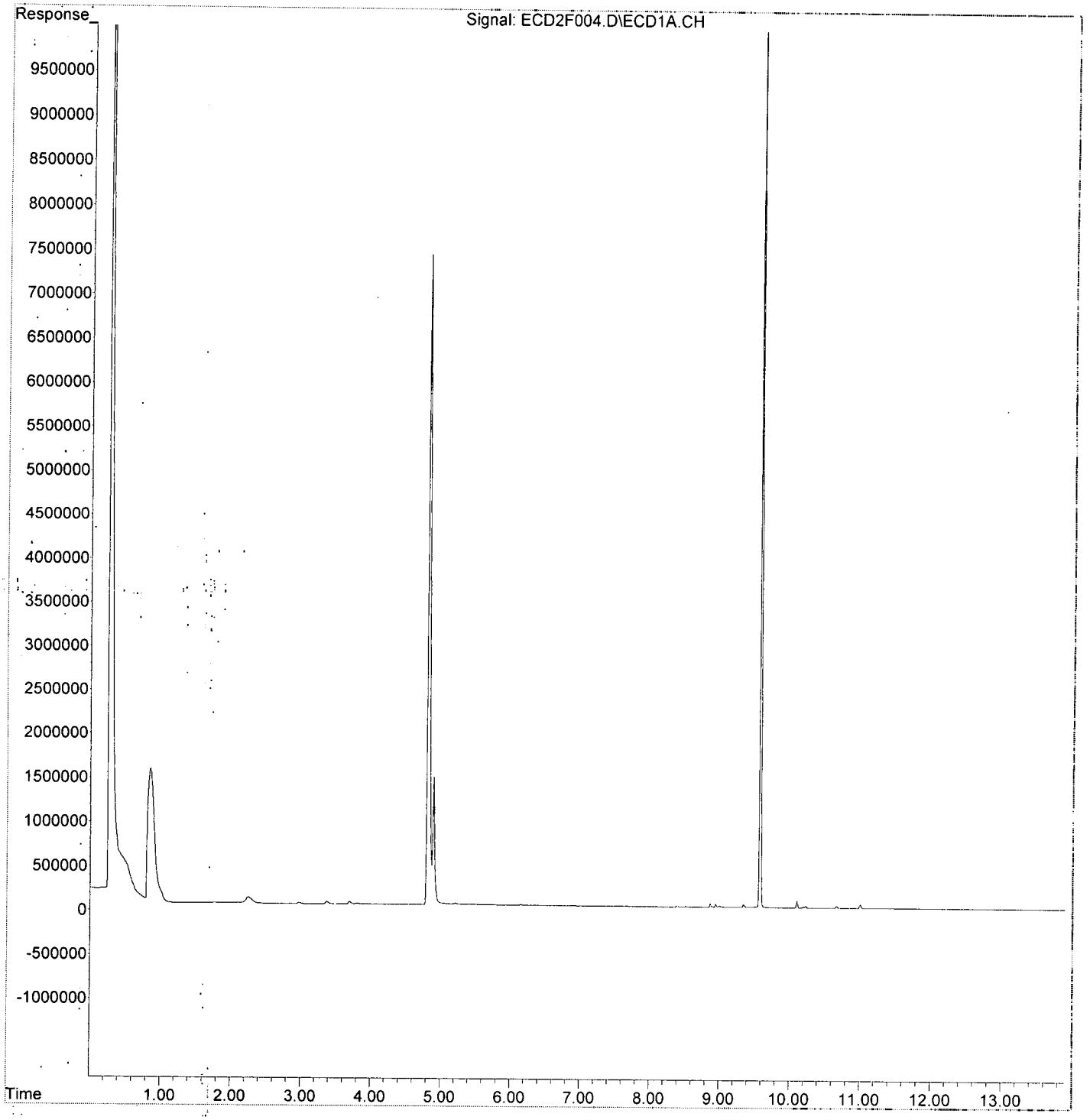
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.665	5161	0.641 ng/ml
49)	Aroclor 1262 (2)	7.989	2129	0.190 ng/ml
50)	Aroclor 1262 (3)	8.218	1170	0.121 ng/ml
51)	Aroclor 1262 (4)	8.387	10306	0.499 ng/ml
52)	Aroclor 1262 (5)	8.689	3137	0.240 ng/ml
53)	Aroclor 1262 (6)	9.082	2931	0.439 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.218	1170	0.229 ng/ml
56)	Aroclor 1268 (2)	8.640	1099	0.045 ng/ml
57)	Aroclor 1268 (3)	8.689	3137	0.154 ng/ml
58)	Aroclor 1268 (4)	8.868	41164	2.149 ng/ml
59)	Aroclor 1268 (5)	9.082	2931	0.378 ng/ml
60)	Aroclor 1268 (6)	9.345	33142	0.634 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 : K:\DATA\9L23019\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 8:37
Operator : MJB / KAK
Sample : 9L23019-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:50:02 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 10:52
Operator : MJB / KAK
Sample : 9120877-MSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:51:31 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/31/19

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.807	13423848	201.596	ng/ml
62) S	DCBP (S)	9.576	25290526	226.465	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.724	3138932	839.745	ng/ml
3)	Aroclor 1016 (2)	6.138	7161915	995.553	ng/ml
4)	Aroclor 1016 (3)	6.219	3411018	858.566	ng/ml
5)	Aroclor 1016 (4)	6.377	3109750	869.287	ng/ml
6)	Aroclor 1016 (5)	6.600	3616875	871.224	ng/ml
7)	Aroclor 1016 (6)	6.725	2380310	811.498	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.162	258089	238.434	ng/ml
10)	Aroclor 1221 (2)	5.282	300419	418.663	ng/ml
11)	Aroclor 1221 (3)	5.363	1521004	649.970	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.363	1521004	856.338	ng/ml
14)	Aroclor 1232 (2)	6.138	7161915	2576.059	ng/ml
15)	Aroclor 1232 (3)	6.219	3411018	2325.259	ng/ml
16)	Aroclor 1232 (4)	6.377	3109750	2729.371	ng/ml
17)	Aroclor 1232 (5)	6.600	3616875	2518.751	ng/ml
18)	Aroclor 1232 (6)	6.725	2380310	1986.702	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.724	3138932	1181.816	ng/ml
21)	Aroclor 1242 (2)	6.138	7161915	1380.721	ng/ml
22)	Aroclor 1242 (3)	6.219	3411018	1209.508	ng/ml
23)	Aroclor 1242 (4)	6.377	3109750	1358.455	ng/ml
24)	Aroclor 1242 (5)	6.600	3616875	1211.803	ng/ml
25)	Aroclor 1242 (6)	6.725	2380310	948.625	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.138	7161915	2104.407	ng/ml
28)	Aroclor 1248 (2)	6.377	3109750	688.727	ng/ml
29)	Aroclor 1248 (3)	6.600	3616875	693.039	ng/ml
30)	Aroclor 1248 (4)	6.892	682876	117.633	ng/ml
31)	Aroclor 1248 (5)	6.927	2584214	419.563	ng/ml
32)	Aroclor 1248 (6)	7.415	5908415	1728.912	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.927	2584214	430.837	ng/ml
35)	Aroclor 1254 (2)	7.037	2973938	408.084	ng/ml
36)	Aroclor 1254 (3)	7.415	5908415	527.068	ng/ml
37)	Aroclor 1254 (4)	7.574	798120	111.938	ng/ml
38)	Aroclor 1254 (5)	7.956	7922732	1034.436	ng/ml
39)	Aroclor 1254 (6)	8.247	743305	298.051	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.528	8080043	970.251	ng/ml
42)	Aroclor 1260 (2)	7.662	10814103	1059.957	ng/ml
43)	Aroclor 1260 (3)	8.218	7859558	999.288	ng/ml
44)	Aroclor 1260 (4)	8.389	20515775	1101.904	ng/ml
45)	Aroclor 1260 (5)	8.688	12991083	1074.000	ng/ml
46)	Aroclor 1260 (6)	9.080	5353911	1046.789	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 10:52
Operator : MJB / KAK
Sample : 9120877-MSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:51:31 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

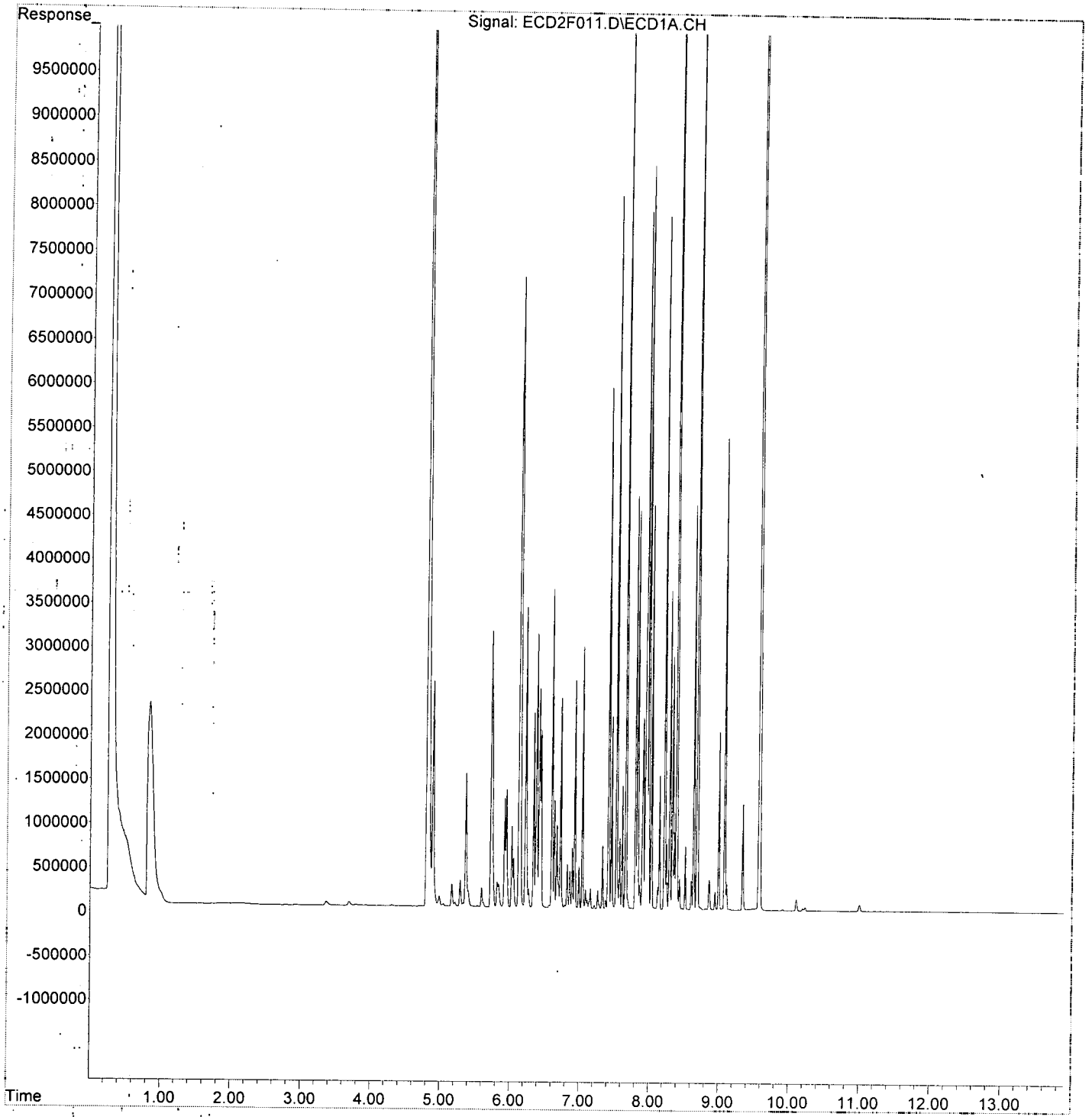
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.662	10814103	1343.966	ng/ml
49)	Aroclor 1262 (2)	7.986	8420812	750.179	ng/ml
50)	Aroclor 1262 (3)	8.218	7859558	809.852	ng/ml
51)	Aroclor 1262 (4)	8.389	20515775	993.015	ng/ml
52)	Aroclor 1262 (5)	8.688	12991083	993.023	ng/ml
53)	Aroclor 1262 (6)	9.080	5353911	801.887	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.218	7859558	1539.811	ng/ml
56)	Aroclor 1268 (2)	8.636	4594992	187.355	ng/ml
57)	Aroclor 1268 (3)	8.688	12991083	636.375	ng/ml
58)	Aroclor 1268 (4)	8.859	337641	17.628	ng/ml
59)	Aroclor 1268 (5)	9.080	5353911	690.851	ng/ml
60)	Aroclor 1268 (6)	9.340	1205388	23.055	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 : K:\DATA\9L23019\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 10:52
Operator : MJB / KAK
Sample : 9120877-MSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:51:31 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 11:27
Operator : MJB / KAK
Sample : 9120981-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:51:53 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/31/19
Clean

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
1)	S	TCMX (S)	4.810	12030063	180.665	ng/ml
62)	S	DCBP (S)	9.578	26705975	239.140	ng/ml
Target Compounds						
2)		Aroclor 1016 (1)	5.722	5077	1.358	ng/ml
3)		Aroclor 1016 (2)	6.143	7326	1.018	ng/ml
4)		Aroclor 1016 (3)	6.235	4968	1.251	ng/ml
5)		Aroclor 1016 (4)	6.386	2837	0.793	ng/ml
6)		Aroclor 1016 (5)	6.606	2889	0.696	ng/ml
7)		Aroclor 1016 (6)	6.732	2607	0.889	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.168	12387	11.444	ng/ml
10)		Aroclor 1221 (2)	5.290	8852	12.336	ng/ml
11)		Aroclor 1221 (3)	5.362	12105	5.173	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.362	12105	6.815	ng/ml
14)		Aroclor 1232 (2)	6.143	7326	2.635	ng/ml
15)		Aroclor 1232 (3)	6.235	4968	3.387	ng/ml
16)		Aroclor 1232 (4)	6.386	2837	2.490	ng/ml
17)		Aroclor 1232 (5)	6.606	2889	2.012	ng/ml
18)		Aroclor 1232 (6)	6.732	2607	2.176	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	5.722	5077	1.912	ng/ml
21)		Aroclor 1242 (2)	6.143	7326	1.412	ng/ml
22)		Aroclor 1242 (3)	6.212	2382	0.845	ng/ml
23)		Aroclor 1242 (4)	6.386	2837	1.239	ng/ml
24)		Aroclor 1242 (5)	6.606	2889	0.968	ng/ml
25)		Aroclor 1242 (6)	6.732	2607	1.039	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.143	7326	2.153	ng/ml
28)		Aroclor 1248 (2)	6.386	2837	0.628	ng/ml
29)		Aroclor 1248 (3)	6.606	2889	0.553	ng/ml
30)		Aroclor 1248 (4)	6.899	2426	0.418	ng/ml
31)		Aroclor 1248 (5)	6.935	2414	0.392	ng/ml
32)		Aroclor 1248 (6)	7.410	3585	1.049	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	6.935	2414	0.402	ng/ml
35)		Aroclor 1254 (2)	7.041	2666	0.366	ng/ml
36)		Aroclor 1254 (3)	7.410	3585	0.320	ng/ml
37)		Aroclor 1254 (4)	7.578	4008	0.562	ng/ml
38)		Aroclor 1254 (5)	7.965	6530	0.853	ng/ml
39)		Aroclor 1254 (6)	8.247	1276	0.512	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	7.531	3724	0.447	ng/ml
42)		Aroclor 1260 (2)	7.663	5482	0.537	ng/ml
43)		Aroclor 1260 (3)	8.217	1666	0.212	ng/ml
44)		Aroclor 1260 (4)	8.386	8304	0.446	ng/ml
45)		Aroclor 1260 (5)	8.688	3640	0.301	ng/ml
46)		Aroclor 1260 (6)	9.081	4340	0.849	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 11:27
Operator : MJB / KAK
Sample : 9120981-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:51:53 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

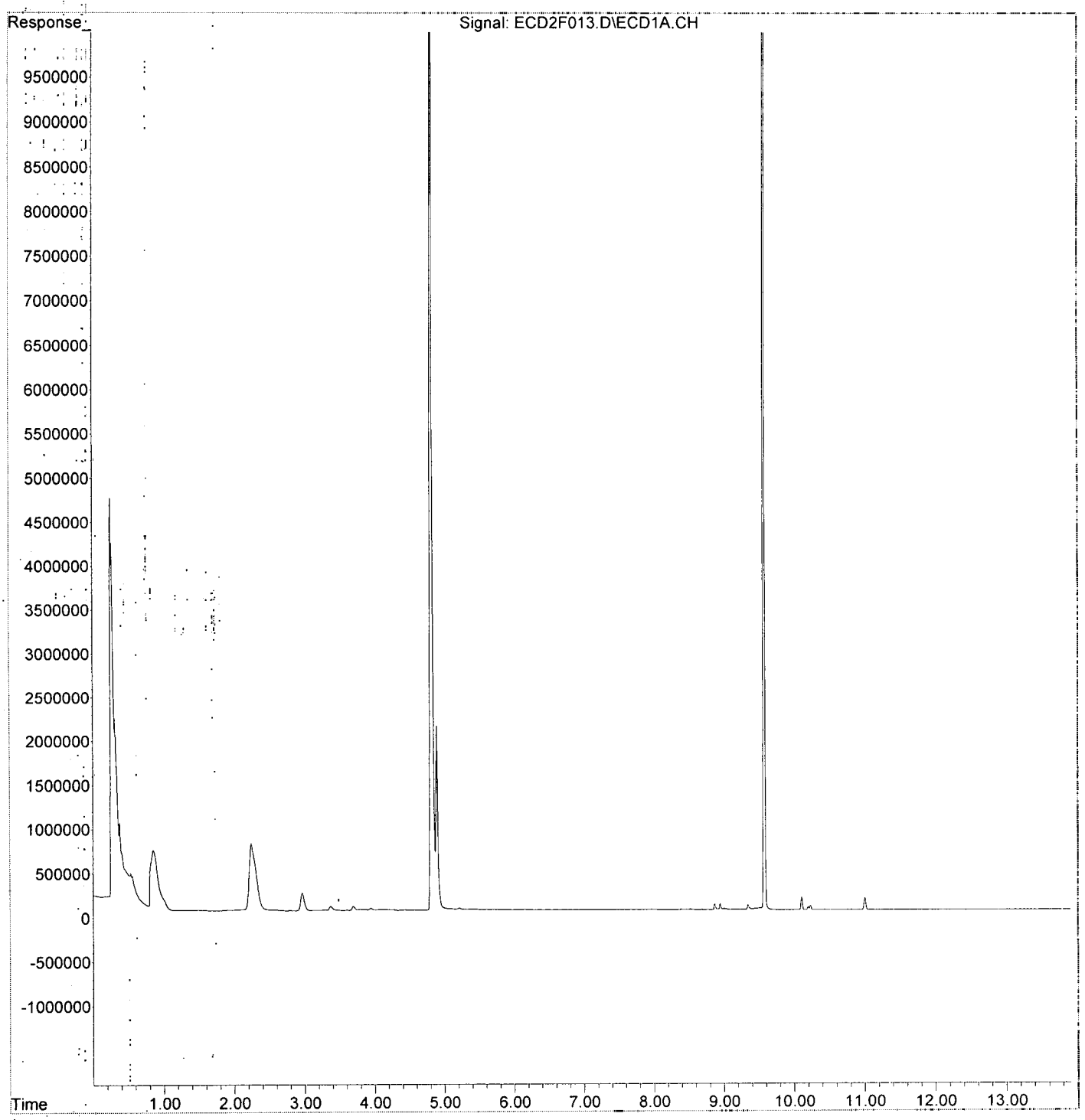
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.663	5482	0.681 ng/ml
49)	Aroclor 1262 (2)	7.987	2624	0.234 ng/ml
50)	Aroclor 1262 (3)	8.217	1666	0.172 ng/ml
51)	Aroclor 1262 (4)	8.386	8304	0.402 ng/ml
52)	Aroclor 1262 (5)	8.688	3640	0.278 ng/ml
53)	Aroclor 1262 (6)	9.081	4340	0.650 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.217	1666	0.326 ng/ml
56)	Aroclor 1268 (2)	8.638	1907	0.078 ng/ml
57)	Aroclor 1268 (3)	8.688	3640	0.178 ng/ml
58)	Aroclor 1268 (4)	8.867	65289	3.409 ng/ml
59)	Aroclor 1268 (5)	9.081	4340	0.560 ng/ml
60)	Aroclor 1268 (6)	9.342	55073	1.053 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 : K:\DATA\9L23019\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 11:27
Operator : MJB / KAK
Sample : 9120981-BLK1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:51:53 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 11:45
Operator : MJB / KAK
Sample : 9120981-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:15 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/13/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.809	12607778	189.341	ng/ml ✓
62)	S DCBP (S)	9.578	28056695	251.235	ng/ml ✓
	Target Compounds				
2)	Aroclor 1016 (1)	5.727	3246202	868.443	ng/ml
3)	Aroclor 1016 (2)	6.140	7199928	1000.837	ng/ml
4)	Aroclor 1016 (3)	6.222	3644066	917.225	ng/ml
5)	Aroclor 1016 (4)	6.379	3518809	983.634	ng/ml ✓
6)	Aroclor 1016 (5)	6.601	3998331	963.108	ng/ml
7)	Aroclor 1016 (6)	6.727	2796324	953.326	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.165	291698	269.484	ng/ml
10)	Aroclor 1221 (2)	5.285	317019	441.796	ng/ml
11)	Aroclor 1221 (3)	5.365	1419710	606.685	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.365	1419710	799.309	ng/ml
14)	Aroclor 1232 (2)	6.140	7199928	2589.732	ng/ml
15)	Aroclor 1232 (3)	6.222	3644066	2484.126	ng/ml
16)	Aroclor 1232 (4)	6.379	3518809	3088.395	ng/ml
17)	Aroclor 1232 (5)	6.601	3998331	2784.393	ng/ml
18)	Aroclor 1232 (6)	6.727	2796324	2333.924	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.727	3246202	1222.203	ng/ml
21)	Aroclor 1242 (2)	6.140	7199928	1388.049	ng/ml
22)	Aroclor 1242 (3)	6.222	3644066	1292.144	ng/ml
23)	Aroclor 1242 (4)	6.379	3518809	1537.148	ng/ml
24)	Aroclor 1242 (5)	6.601	3998331	1339.606	ng/ml
25)	Aroclor 1242 (6)	6.727	2796324	1114.419	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.140	7199928	2115.576	ng/ml
28)	Aroclor 1248 (2)	6.379	3518809	779.323	ng/ml
29)	Aroclor 1248 (3)	6.601	3998331	766.131	ng/ml
30)	Aroclor 1248 (4)	6.895	808903	139.343	ng/ml
31)	Aroclor 1248 (5)	6.928	2850288	462.761	ng/ml
32)	Aroclor 1248 (6)	7.416	6723916	1967.543	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.928	2850288	475.197	ng/ml
35)	Aroclor 1254 (2)	7.038	3378090	463.542	ng/ml
36)	Aroclor 1254 (3)	7.416	6723916	599.816	ng/ml
37)	Aroclor 1254 (4)	7.575	964673	135.297	ng/ml
38)	Aroclor 1254 (5)	7.956	9399205	1227.212	ng/ml
39)	Aroclor 1254 (6)	8.248	940240	377.018	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.529	9201166	1104.875	ng/ml
42)	Aroclor 1260 (2)	7.663	12573623	1232.419	ng/ml
43)	Aroclor 1260 (3)	8.219	9066079	1152.689	ng/ml
44)	Aroclor 1260 (4)	8.390	23522730	1263.408	ng/ml ✓
45)	Aroclor 1260 (5)	8.689	15145316	1252.095	ng/ml
46)	Aroclor 1260 (6)	9.080	6781718	1325.952	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 11:45
Operator : MJB / KAK
Sample : 9120981-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:15 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

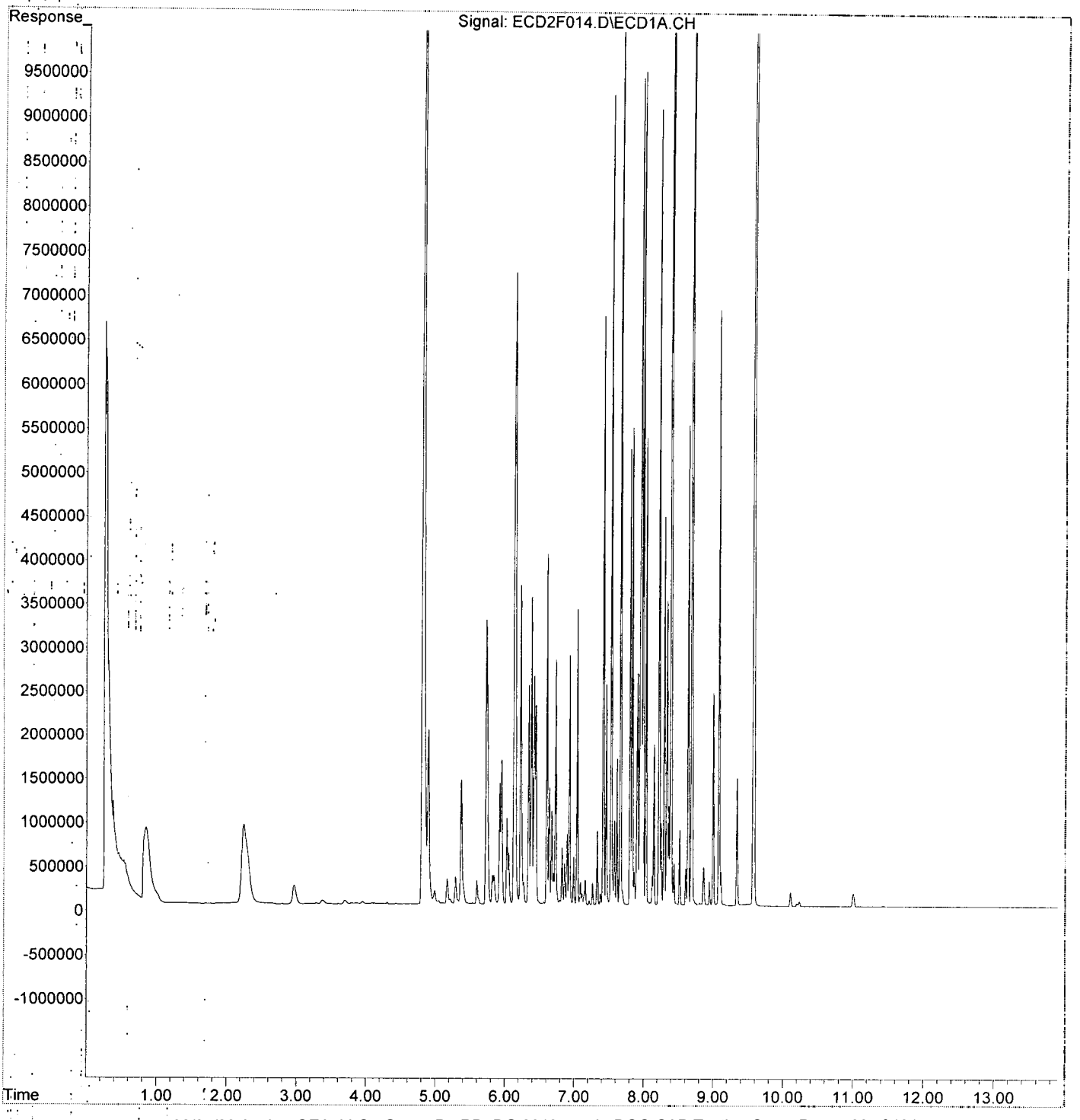
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.663	12573623	1562.637	ng/ml
49)	Aroclor 1262 (2)	7.987	9467657	843.439	ng/ml
50)	Aroclor 1262 (3)	8.219	9066079	934.172	ng/ml
51)	Aroclor 1262 (4)	8.390	23522730	1138.559	ng/ml
52)	Aroclor 1262 (5)	8.689	15145316	1157.690	ng/ml
53)	Aroclor 1262 (6)	9.080	6781718	1015.738	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.219	9066079	1776.187	ng/ml
56)	Aroclor 1268 (2)	8.637	5472774	223.145	ng/ml
57)	Aroclor 1268 (3)	8.689	15145316	741.901	ng/ml
58)	Aroclor 1268 (4)	8.860	444303	23.197	ng/ml
59)	Aroclor 1268 (5)	9.080	6781718	875.090	ng/ml
60)	Aroclor 1268 (6)	9.339	1452733	27.786	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 : K:\DATA\9L23019\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 11:45
Operator : MJB / KAK
Sample : 9120981-BS1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:15 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-28
Misc : 5 1/8/20
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/13/20

1260

RR-7

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.820	6762964	101.565	ng/ml
62) S	DCBP (S)	9.580	10767366	96.417	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.714	129032	34.519	ng/mlm
3)	Aroclor 1016 (2)	6.142	203325	28.263	ng/ml
4)	Aroclor 1016 (3)	6.229	125834	31.673	ng/mlm
5)	Aroclor 1016 (4)	6.385	393844	110.094	ng/ml
6)	Aroclor 1016 (5)	6.612	725883	174.849	ng/ml
7)	Aroclor 1016 (6)	6.728	200323	68.294	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.171	37685	34.815	ng/ml
10)	Aroclor 1221 (2)	5.287	42173	58.772	ng/ml
11)	Aroclor 1221 (3)	5.372	620295	265.071	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.372	620295	349.232	ng/ml
14)	Aroclor 1232 (2)	6.142	203325	73.134	ng/ml
15)	Aroclor 1232 (3)	6.229	125698	85.687	ng/mlm
16)	Aroclor 1232 (4)	6.385	393844	345.670	ng/ml
17)	Aroclor 1232 (5)	6.612	725883	505.497	ng/ml
18)	Aroclor 1232 (6)	6.728	200323	167.197	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.718	98644	37.140	ng/mlm
21)	Aroclor 1242 (2)	6.142	203325	39.198	ng/ml
22)	Aroclor 1242 (3)	6.229	125762	44.594	ng/mlm
23)	Aroclor 1242 (4)	6.385	393844	172.046	ng/ml
24)	Aroclor 1242 (5)	6.612	725883	243.201	ng/ml
25)	Aroclor 1242 (6)	6.728	200323	79.835	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.142	203325	59.744	ng/ml
28)	Aroclor 1248 (2)	6.385	393844	87.226	ng/ml
29)	Aroclor 1248 (3)	6.612	725883	139.089	ng/ml
30)	Aroclor 1248 (4)	6.908	587353	101.178	ng/ml
31)	Aroclor 1248 (5)	6.934	664654	107.911	ng/ml
32)	Aroclor 1248 (6)	7.416	1214572	355.406	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.934	664654	110.810	ng/ml
35)	Aroclor 1254 (2)	7.022	1023164	140.399	ng/ml
36)	Aroclor 1254 (3)	7.416	1214572	108.347	ng/ml
37)	Aroclor 1254 (4)	7.578	499254	70.021	ng/ml
38)	Aroclor 1254 (5)	7.959	1343245	175.381	ng/ml
39)	Aroclor 1254 (6)	8.250	217561	87.238	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.531	1234249	148.209	ng/ml
42)	Aroclor 1260 (2)	7.667	1943843	190.528	ng/ml
43)	Aroclor 1260 (3)	8.222	746726	94.941	ng/ml
44)	Aroclor 1260 (4)	8.393	2075416	111.471	ng/ml
45)	Aroclor 1260 (5)	8.692	1341182	110.878	ng/ml
46)	Aroclor 1260 (6)	9.085	421994	82.508	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

R-02

99.950

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-28
Misc : 5 XX 1/8/20
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

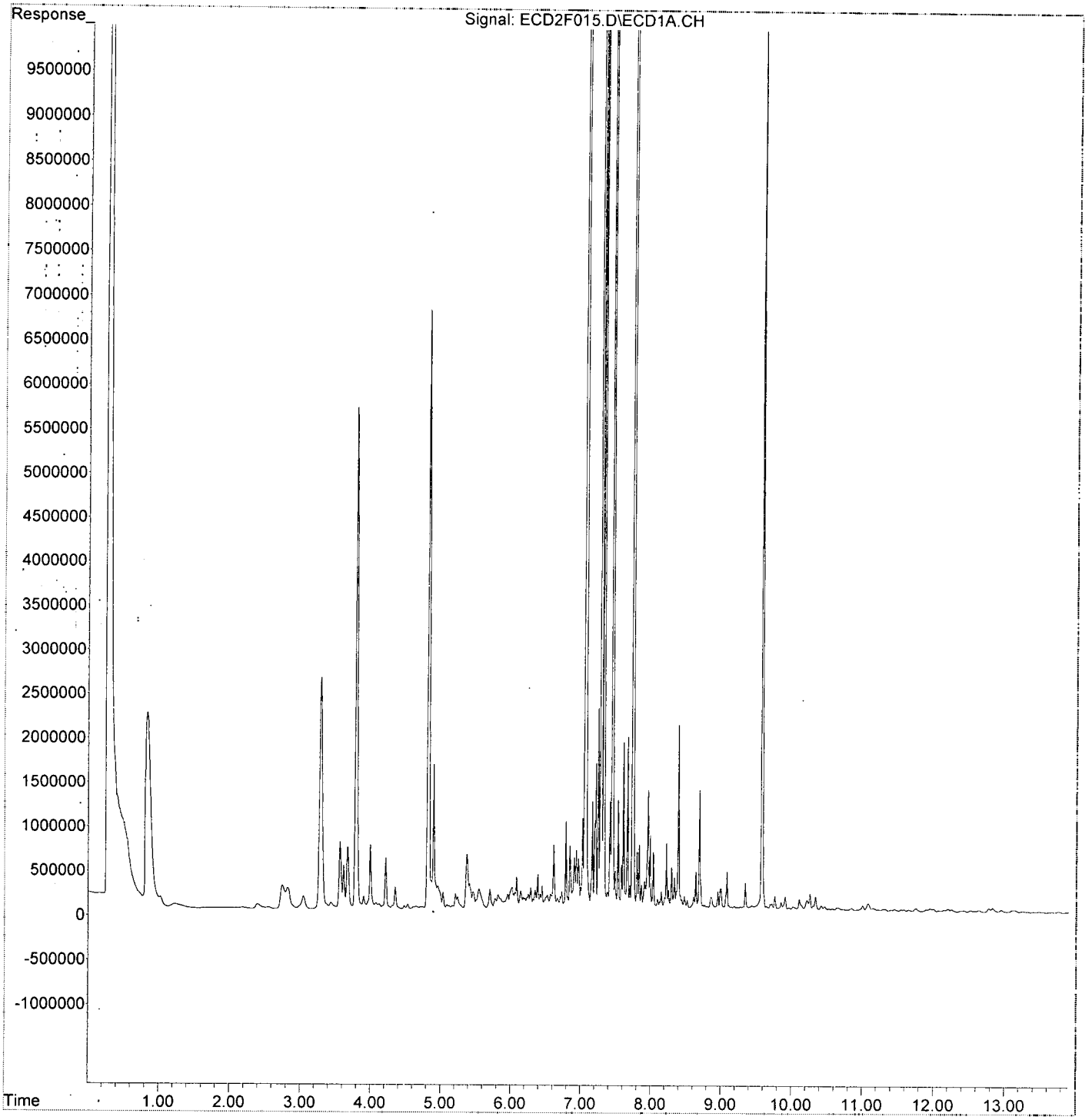
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.667	1943843	241.579 ng/ml
49)	Aroclor 1262 (2)	7.989	830450	73.982 ng/ml
50)	Aroclor 1262 (3)	8.222	746726	76.943 ng/ml
51)	Aroclor 1262 (4)	8.393	2075416	100.455 ng/ml
52)	Aroclor 1262 (5)	8.692	1341182	102.518 ng/ml
53)	Aroclor 1262 (6)	9.085	421994	63.205 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.222	746726	146.295 ng/ml
56)	Aroclor 1268 (2)	8.641	420419	17.142 ng/ml
57)	Aroclor 1268 (3)	8.692	1341182	65.698 ng/ml
58)	Aroclor 1268 (4)	8.866	128637	6.716 ng/ml
59)	Aroclor 1268 (5)	9.085	421994	54.453 ng/ml
60)	Aroclor 1268 (6)	9.344	299179	5.722 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-28
Misc : 5 RE 1/14/20
ALS Vial : 10 Sample Multiplier: 1

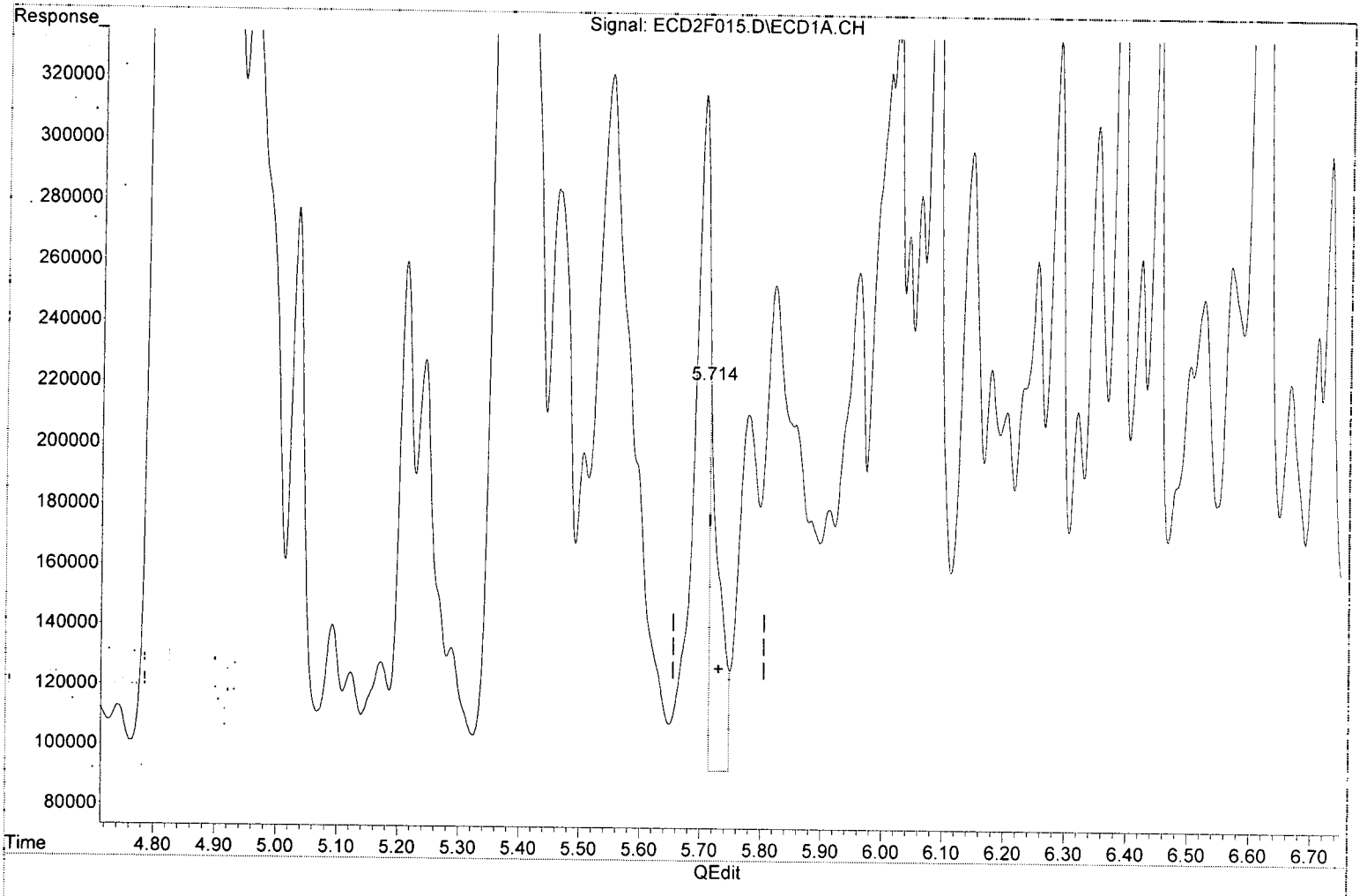
Integration File: PCB1.e
Quant Time: Dec 23 16:52:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : K:\DATA\9L23019\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-28
Misc : 5 x/c 1/9/20
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(2) Aroclor 1016 (1)

5.714min 34.519 ng/ml (m) 1/3/20

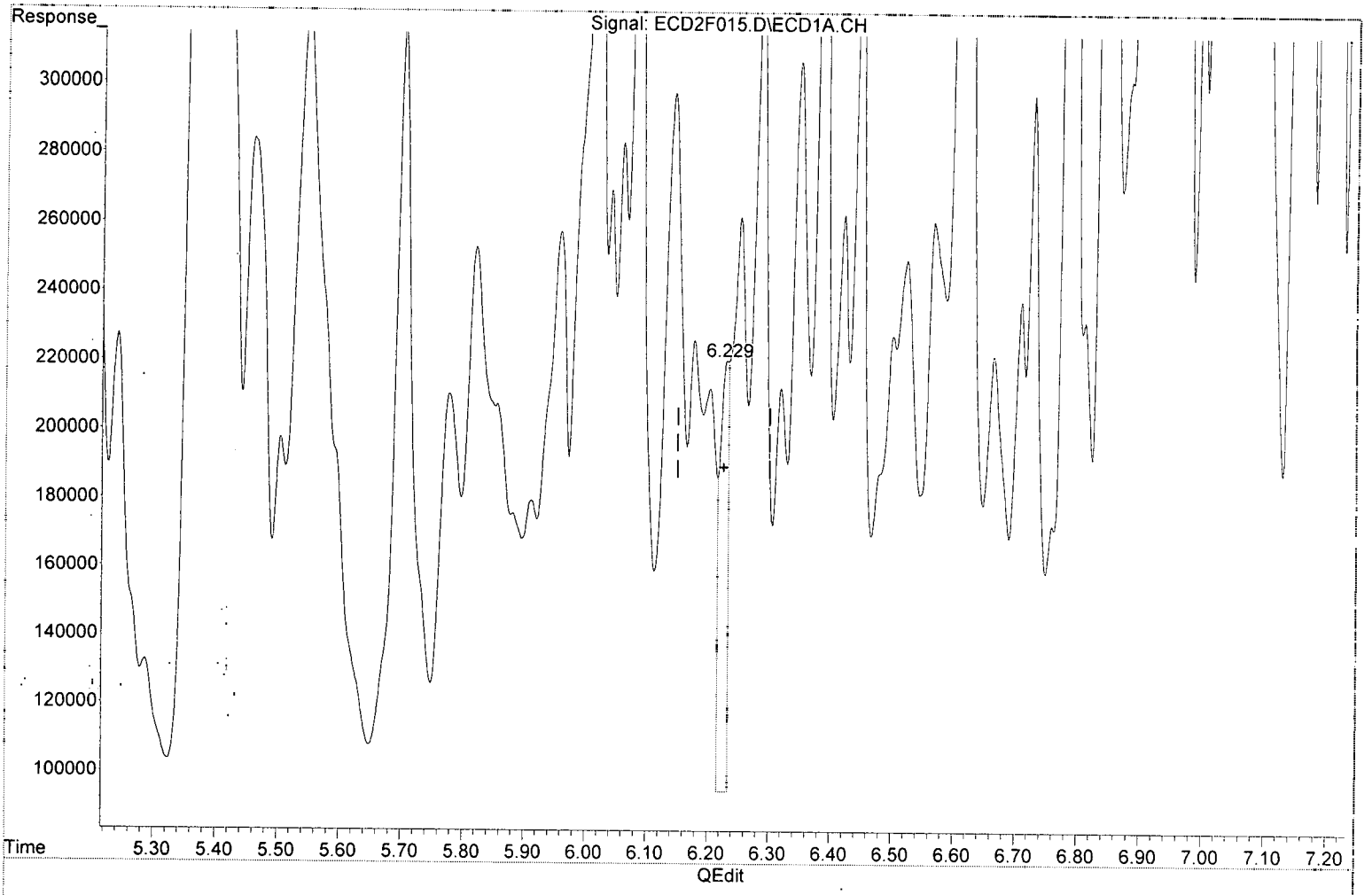
response 129032

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : K:\DATA\9L23019\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-28
Misc : 5 1/4/20
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(4) Aroclor 1016 (3)

6.229min 31.673 ng/ml m 1/3/20

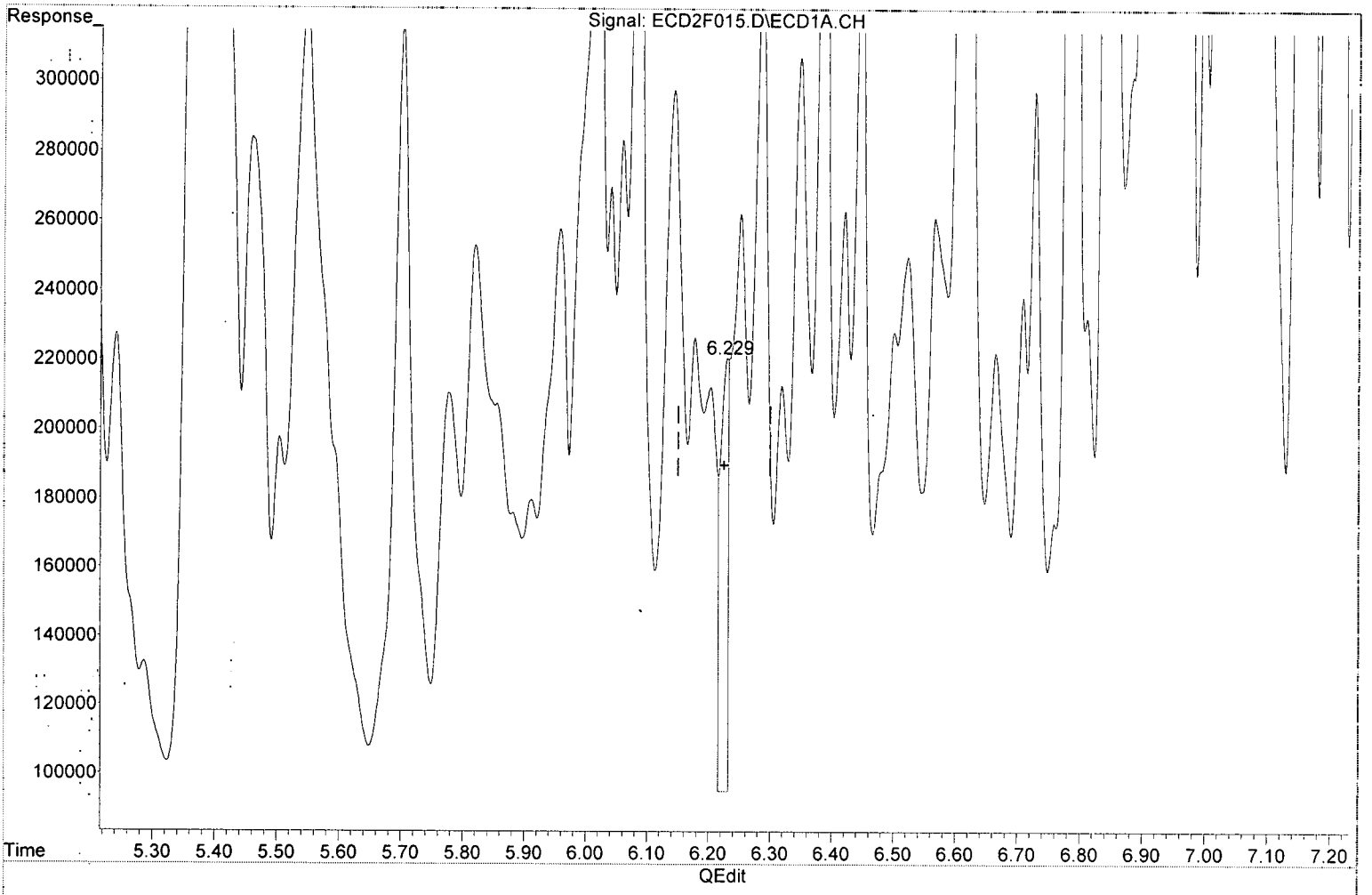
response 125834

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : K:\DATA\9L23019\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-28
Misc : 5 1/4/20
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) Aroclor 1232 (3)

6.229min 85.687 ng/ml m 1/3/20

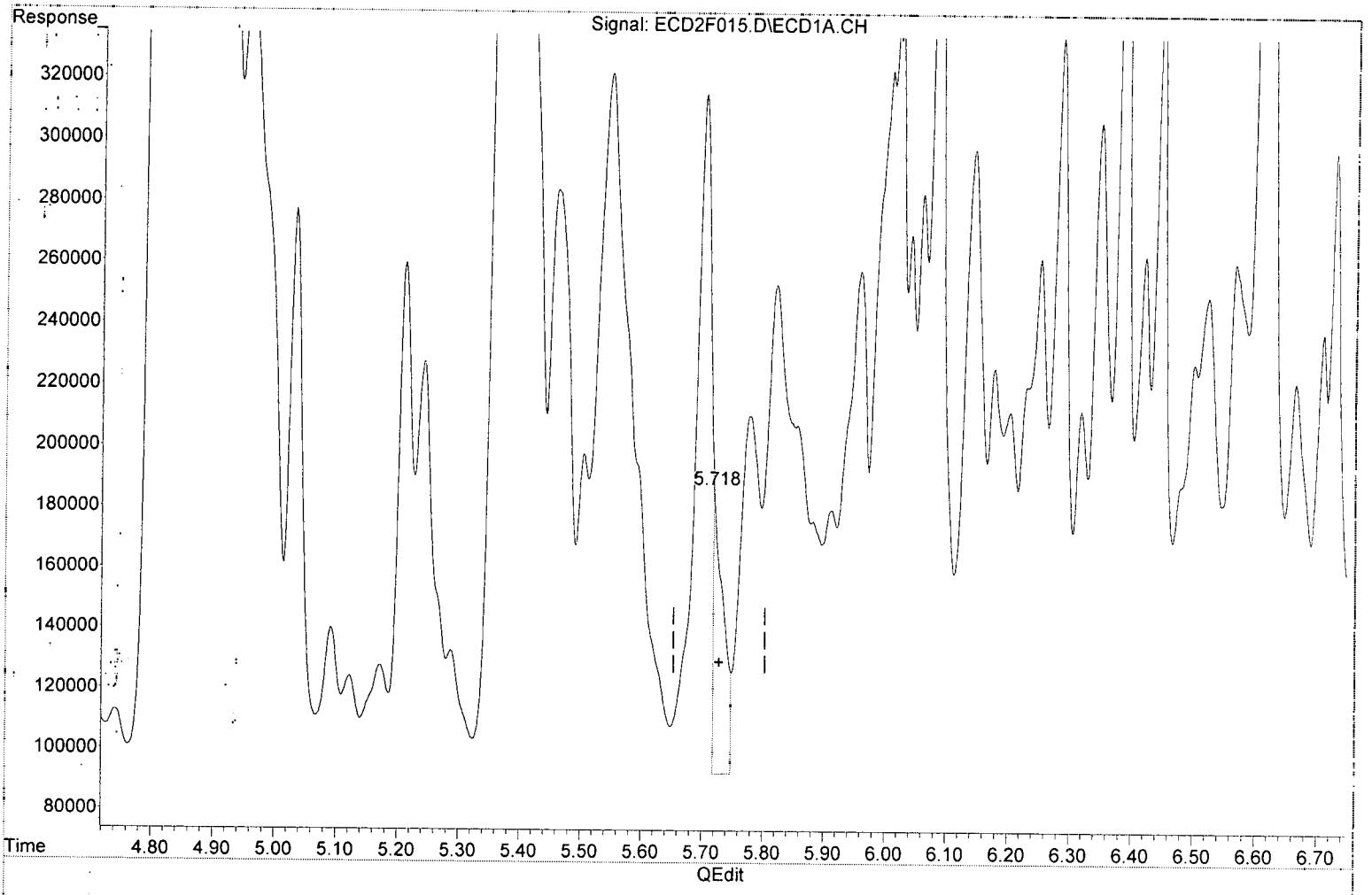
response 125698

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : K:\DATA\9L23019\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-28
Misc : J KK 1/4/20
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(20) Aroclor 1242 (1)

5.718min 37.140 ng/ml m 1/3/20

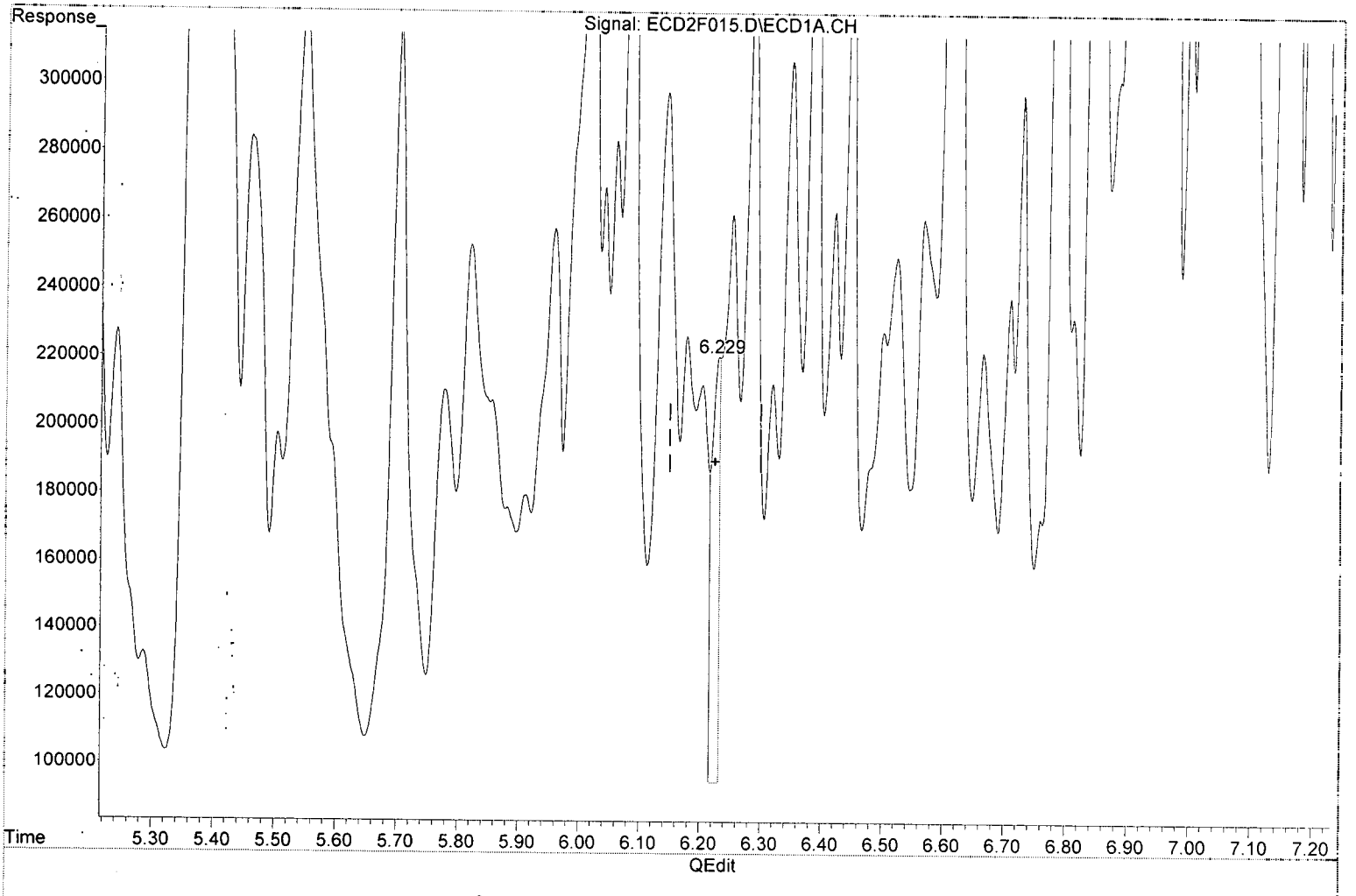
response 98644

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : K:\DATA\9L23019\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-28
Misc : 5 1/4/20
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(22) Aroclor 1242 (3)

6.229min 44.594 ng/ml m 1/3/20

response 125762

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-28
Misc : J 1/4/20
ALS Vial : 10 Sample Multiplier: 1

1/3/20

Integration File: PCB1..e
Quant Time: Dec 23 16:52:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MI

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	4.820	6762964	101.565	ng/ml
62)	S	DCBP (S)	9.580	10767366	96.417	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	5.702	223158	59.701	ng/ml
3)		Aroclor 1016 (2)	6.142	203325	28.263	ng/ml
4)		Aroclor 1016 (3)	6.202	117555	29.589	ng/ml
5)		Aroclor 1016 (4)	6.385	393844	110.094	ng/ml
6)		Aroclor 1016 (5)	6.612	725883	174.849	ng/ml
7)		Aroclor 1016 (6)	6.728	200323	68.294	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.171	37685	34.815	ng/ml
10)		Aroclor 1221 (2)	5.287	42173	58.772	ng/ml
11)		Aroclor 1221 (3)	5.372	620295	265.071	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.372	620295	349.232	ng/ml
14)		Aroclor 1232 (2)	6.142	203325	73.134	ng/ml
15)		Aroclor 1232 (3)	6.202	117555	80.136	ng/ml
16)		Aroclor 1232 (4)	6.385	393844	345.670	ng/ml
17)		Aroclor 1232 (5)	6.612	725883	505.497	ng/ml
18)		Aroclor 1232 (6)	6.728	200323	167.197	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	5.702	223158	84.020	ng/ml
21)		Aroclor 1242 (2)	6.142	203325	39.198	ng/ml
22)		Aroclor 1242 (3)	6.202	117555	41.684	ng/ml
23)		Aroclor 1242 (4)	6.385	393844	172.046	ng/ml
24)		Aroclor 1242 (5)	6.612	725883	243.201	ng/ml
25)		Aroclor 1242 (6)	6.728	200323	79.835	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.142	203325	59.744	ng/ml
28)		Aroclor 1248 (2)	6.385	393844	87.226	ng/ml
29)		Aroclor 1248 (3)	6.612	725883	139.089	ng/ml
30)		Aroclor 1248 (4)	6.908	587353	101.178	ng/ml
31)		Aroclor 1248 (5)	6.934	664654	107.911	ng/ml
32)		Aroclor 1248 (6)	7.416	1214572	355.406	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	6.934	664654	110.810	ng/ml
35)		Aroclor 1254 (2)	7.022	1023164	140.399	ng/ml
36)		Aroclor 1254 (3)	7.416	1214572	108.347	ng/ml
37)		Aroclor 1254 (4)	7.578	499254	70.021	ng/ml
38)		Aroclor 1254 (5)	7.959	1343245	175.381	ng/ml
39)		Aroclor 1254 (6)	8.250	217561	87.238	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	7.531	1234249	148.209	ng/ml
42)		Aroclor 1260 (2)	7.667	1943843	190.528	ng/ml
43)		Aroclor 1260 (3)	8.222	746726	94.941	ng/ml
44)		Aroclor 1260 (4)	8.393	2075416	111.471	ng/ml
45)		Aroclor 1260 (5)	8.692	1341182	110.878	ng/ml
46)		Aroclor 1260 (6)	9.085	421994	82.508	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-28
Misc : 5 1/4120
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

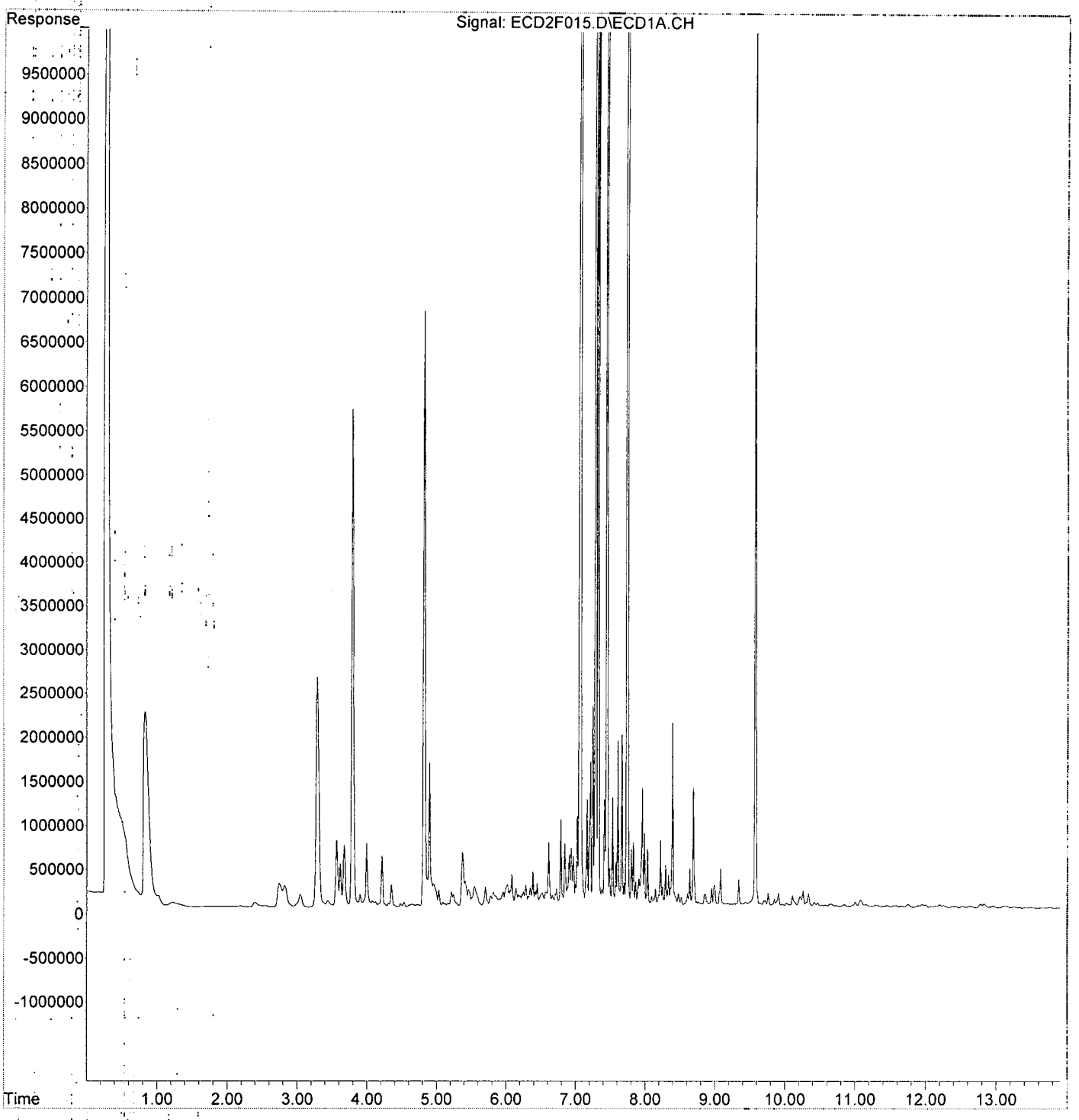
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.667	1943843	241.579 ng/ml
49)	Aroclor 1262 (2)	7.989	830450	73.982 ng/ml
50)	Aroclor 1262 (3)	8.222	746726	76.943 ng/ml
51)	Aroclor 1262 (4)	8.393	2075416	100.455 ng/ml
52)	Aroclor 1262 (5)	8.692	1341182	102.518 ng/ml
53)	Aroclor 1262 (6)	9.085	421994	63.205 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.222	746726	146.295 ng/ml
56)	Aroclor 1268 (2)	8.641	420419	17.142 ng/ml
57)	Aroclor 1268 (3)	8.692	1341182	65.698 ng/ml
58)	Aroclor 1268 (4)	8.866	128637	6.716 ng/ml
59)	Aroclor 1268 (5)	9.085	421994	54.453 ng/ml
60)	Aroclor 1268 (6)	9.344	299179	5.722 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 : K:\DATA\9L23019\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-28
Misc : 5 1/4/20
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:38
Operator : MJB / KAK
Sample : 9L23019-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:59 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/13/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.812	20422459	306.700	ng/ml
62) S	DCBP (S)	9.577	31663710	283.534	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.727	1926194	515.307	ng/ml
3)	Aroclor 1016 (2)	6.142	3917835	544.605	ng/ml
4)	Aroclor 1016 (3)	6.223	2138497	538.268	ng/ml
5)	Aroclor 1016 (4)	6.379	1943636	543.316	ng/ml
6)	Aroclor 1016 (5)	6.601	2234312	538.196	ng/ml
7)	Aroclor 1016 (6)	6.728	1572358	536.050	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.166	190147	175.667	ng/ml
10)	Aroclor 1221 (2)	5.286	211997	295.438	ng/ml
11)	Aroclor 1221 (3)	5.367	895456	382.655	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.367	895456	504.150	ng/ml
14)	Aroclor 1232 (2)	6.142	3917835	1409.200	ng/ml
15)	Aroclor 1232 (3)	6.223	2138497	1457.793	ng/ml
16)	Aroclor 1232 (4)	6.379	1943636	1705.894	ng/ml
17)	Aroclor 1232 (5)	6.601	2234312	1555.950	ng/ml
18)	Aroclor 1232 (6)	6.728	1572358	1312.353	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.727	1926194	725.217	ng/ml
21)	Aroclor 1242 (2)	6.142	3917835	755.306	ng/ml
22)	Aroclor 1242 (3)	6.223	2138497	758.287	ng/ml
23)	Aroclor 1242 (4)	6.379	1943636	849.053	ng/ml
24)	Aroclor 1242 (5)	6.601	2234312	748.587	ng/ml
25)	Aroclor 1242 (6)	6.728	1572358	626.632	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.142	3917835	1151.189	ng/ml
28)	Aroclor 1248 (2)	6.379	1943636	430.464	ng/ml
29)	Aroclor 1248 (3)	6.601	2234312	428.123	ng/ml
30)	Aroclor 1248 (4)	6.896	439277	75.670	ng/ml
31)	Aroclor 1248 (5)	6.928	1479354	240.182	ng/ml
32)	Aroclor 1248 (6)	7.416	3313212	969.508	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.928	1479354	246.636	ng/ml
35)	Aroclor 1254 (2)	7.039	1638121	224.783	ng/ml
36)	Aroclor 1254 (3)	7.416	3313212	295.559	ng/ml
37)	Aroclor 1254 (4)	7.576	479348	67.229	ng/ml
38)	Aroclor 1254 (5)	7.956	4300532	561.501	ng/ml
39)	Aroclor 1254 (6)	8.248	484361	194.219	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.529	4519470	542.697	ng/ml
42)	Aroclor 1260 (2)	7.663	5474095	536.550	ng/ml
43)	Aroclor 1260 (3)	8.219	4281700	544.388	ng/ml
44)	Aroclor 1260 (4)	8.389	10494202	563.645	ng/ml
45)	Aroclor 1260 (5)	8.689	6879049	568.706	ng/ml
46)	Aroclor 1260 (6)	9.080	2724767	532.743	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:38
Operator : MJB / KAK
Sample : 9L23019-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:59 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

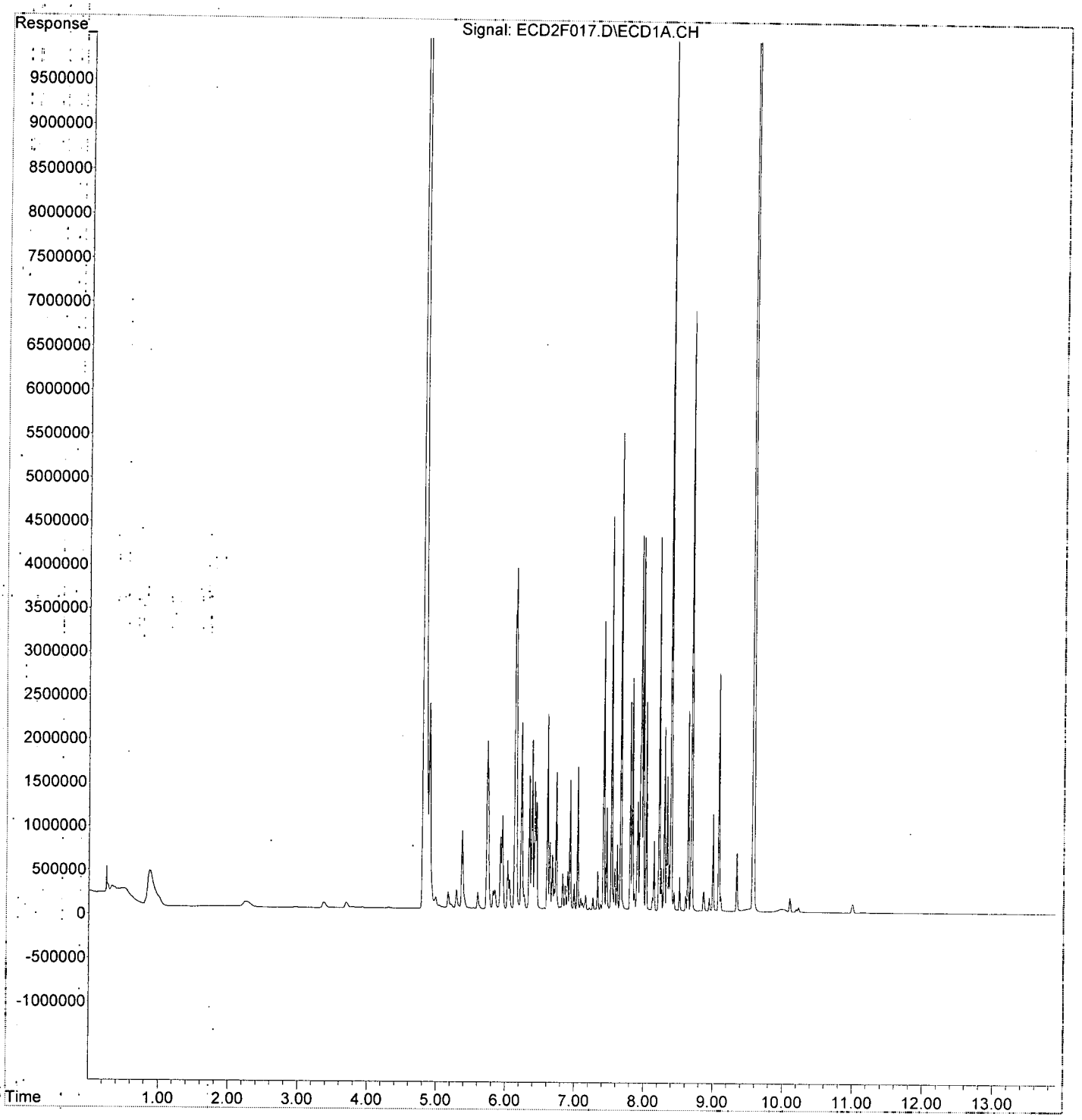
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.663	5474095	680.315	ng/ml
49)	Aroclor 1262 (2)	7.987	4278986	381.199	ng/ml
50)	Aroclor 1262 (3)	8.219	4281700	441.188	ng/ml
51)	Aroclor 1262 (4)	8.389	10494202	507.946	ng/ml
52)	Aroclor 1262 (5)	8.689	6879049	525.826	ng/ml
53)	Aroclor 1262 (6)	9.080	2724767	408.105	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.219	4281700	838.852	ng/ml
56)	Aroclor 1268 (2)	8.637	2291099	93.416	ng/ml
57)	Aroclor 1268 (3)	8.689	6879049	336.974	ng/ml
58)	Aroclor 1268 (4)	8.863	226240	11.812	ng/ml
59)	Aroclor 1268 (5)	9.080	2724767	351.595	ng/ml
60)	Aroclor 1268 (6)	9.340	669615	12.807	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 : K:\DATA\9L23019\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:38
Operator : MJB / KAK
Sample : 9L23019-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:52:59 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:55
Operator : MJB / KAK
Sample : 9L23019-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:53:21 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/13/20
clean

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.810	7590682	113.995 ng/ml
62) S	DCBP (S)	9.577	13216175	118.345 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.731	4585	1.226 ng/ml
3)	Aroclor 1016 (2)	6.145	7147	0.993 ng/ml
4)	Aroclor 1016 (3)	6.236	5120	1.289 ng/ml
5)	Aroclor 1016 (4)	6.387	2889	0.808 ng/ml
6)	Aroclor 1016 (5)	6.608	3389	0.816 ng/ml
7)	Aroclor 1016 (6)	6.735	3081	1.051 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.166	10129	9.357 ng/ml
10)	Aroclor 1221 (2)	5.298	8972	12.504 ng/ml
11)	Aroclor 1221 (3)	5.361	8889	3.799 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.373	8770	4.938 ng/ml
14)	Aroclor 1232 (2)	6.145	7147	2.571 ng/ml
15)	Aroclor 1232 (3)	6.236	5120	3.491 ng/ml
16)	Aroclor 1232 (4)	6.387	2889	2.536 ng/ml
17)	Aroclor 1232 (5)	6.608	3389	2.360 ng/ml
18)	Aroclor 1232 (6)	6.735	3081	2.572 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.726	4532	1.706 ng/ml
21)	Aroclor 1242 (2)	6.145	7147	1.378 ng/ml
22)	Aroclor 1242 (3)	6.236	5120	1.816 ng/ml
23)	Aroclor 1242 (4)	6.387	2889	1.262 ng/ml
24)	Aroclor 1242 (5)	6.608	3389	1.135 ng/ml
25)	Aroclor 1242 (6)	6.735	3081	1.228 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.145	7147	2.100 ng/ml
28)	Aroclor 1248 (2)	6.387	2889	0.640 ng/ml
29)	Aroclor 1248 (3)	6.608	3389	0.649 ng/ml
30)	Aroclor 1248 (4)	6.902	3106	0.535 ng/ml
31)	Aroclor 1248 (5)	6.937	2945	0.478 ng/ml
32)	Aroclor 1248 (6)	7.414	3475	1.017 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.937	2945	0.491 ng/ml
35)	Aroclor 1254 (2)	7.045	2966	0.407 ng/ml
36)	Aroclor 1254 (3)	7.414	3475	0.310 ng/ml
37)	Aroclor 1254 (4)	7.581	4327	0.607 ng/ml
38)	Aroclor 1254 (5)	7.963	4817	0.629 ng/ml
39)	Aroclor 1254 (6)	8.251	1400	0.561 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.533	4064	0.488 ng/ml
42)	Aroclor 1260 (2)	7.664	5319	0.521 ng/ml
43)	Aroclor 1260 (3)	8.219	1693	0.215 ng/ml
44)	Aroclor 1260 (4)	8.386	7080	0.380 ng/ml
45)	Aroclor 1260 (5)	8.690	2607	0.216 ng/ml
46)	Aroclor 1260 (6)	9.082	3034	0.593 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:55
Operator : MJB / KAK
Sample : 9L23019-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:53:21 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

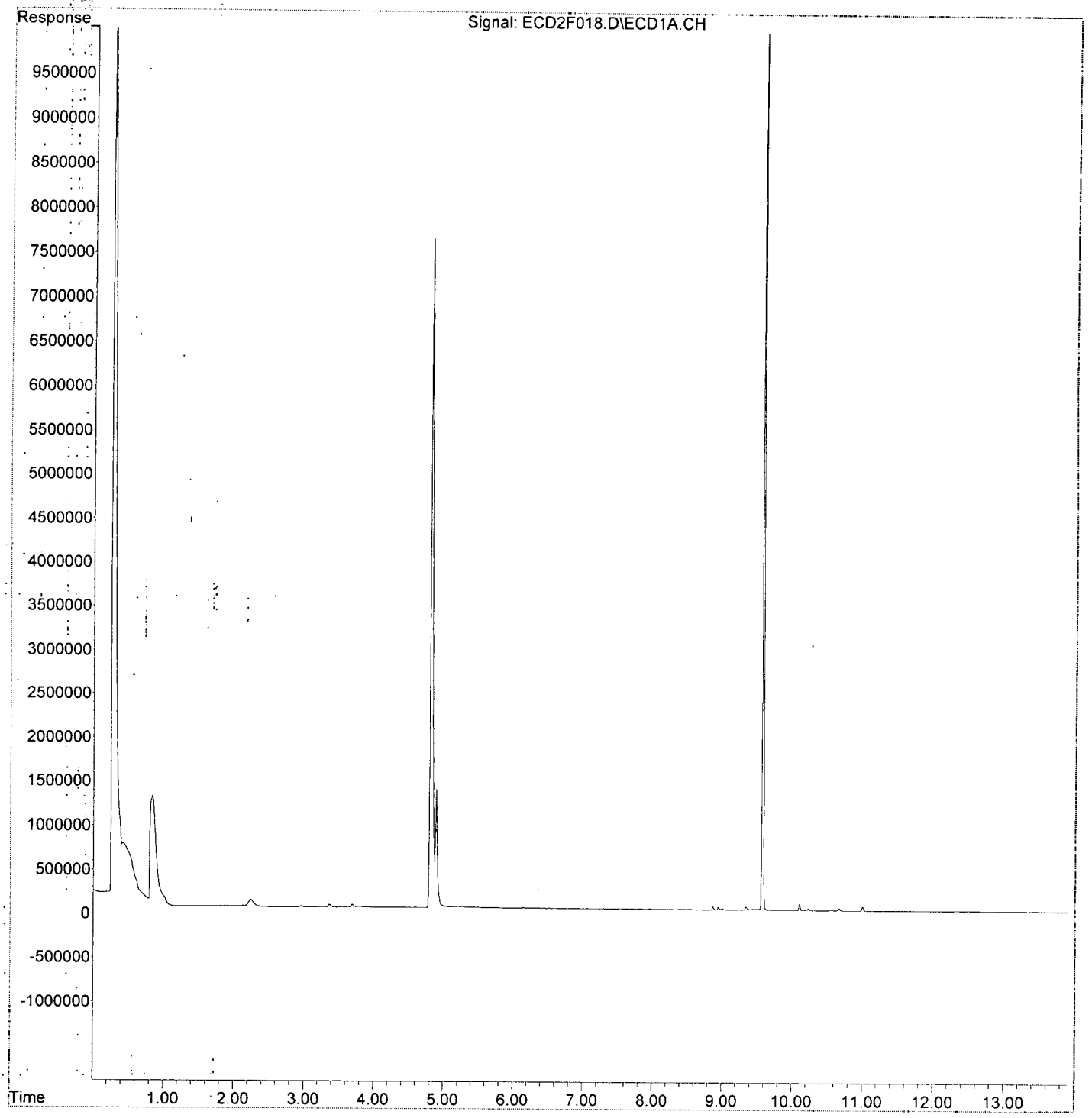
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.664	5319	0.661 ng/ml
49)	Aroclor 1262 (2)	7.984	2376	0.212 ng/ml
50)	Aroclor 1262 (3)	8.219	1693	0.174 ng/ml
51)	Aroclor 1262 (4)	8.386	7080	0.343 ng/ml
52)	Aroclor 1262 (5)	8.690	2607	0.199 ng/ml
53)	Aroclor 1262 (6)	9.082	3034	0.454 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.208	1275	0.250 ng/ml
56)	Aroclor 1268 (2)	8.636	1538	0.063 ng/ml
57)	Aroclor 1268 (3)	8.690	2607	0.128 ng/ml
58)	Aroclor 1268 (4)	8.868	39481	2.061 ng/ml
59)	Aroclor 1268 (5)	9.082	3034	0.392 ng/ml
60)	Aroclor 1268 (6)	9.343	37636	0.720 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 : K:\DATA\9L23019\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 12:55
Operator : MJB / KAK
Sample : 9L23019-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 16:53:21 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F031.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 16:45
Operator : MJB / KAK
Sample : 9L23019-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 17:01:22 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	4.811	19027951	285.757 ng/ml
62)	S DCBP (S)	9.578	32971467	295.244 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.727	1894279	506.768 ng/ml
3)	Aroclor 1016 (2)	6.141	4019418	558.725 ng/ml
4)	Aroclor 1016 (3)	6.223	2044103	514.508 ng/ml
5)	Aroclor 1016 (4)	6.379	1894789	529.662 ng/ml
6)	Aroclor 1016 (5)	6.601	2215770	533.729 ng/ml
7)	Aroclor 1016 (6)	6.727	1559302	531.599 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.166	188026	173.707 ng/ml
10)	Aroclor 1221 (2)	5.286	197387	275.077 ng/ml
11)	Aroclor 1221 (3)	5.368	843735	360.553 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.368	843735	475.030 ng/ml
14)	Aroclor 1232 (2)	6.141	4019418	1445.739 ng/ml
15)	Aroclor 1232 (3)	6.223	2044103	1393.446 ng/ml
16)	Aroclor 1232 (4)	6.379	1894789	1663.023 ng/ml
17)	Aroclor 1232 (5)	6.601	2215770	1543.038 ng/ml
18)	Aroclor 1232 (6)	6.727	1559302	1301.456 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.727	1894279	713.201 ng/ml
21)	Aroclor 1242 (2)	6.141	4019418	774.890 ng/ml
22)	Aroclor 1242 (3)	6.223	2044103	724.815 ng/ml
23)	Aroclor 1242 (4)	6.379	1894789	827.715 ng/ml
24)	Aroclor 1242 (5)	6.601	2215770	742.375 ng/ml
25)	Aroclor 1242 (6)	6.727	1559302	621.428 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.141	4019418	1181.037 ng/ml
28)	Aroclor 1248 (2)	6.379	1894789	419.645 ng/ml
29)	Aroclor 1248 (3)	6.601	2215770	424.570 ng/ml
30)	Aroclor 1248 (4)	6.896	435035	74.940 ng/ml
31)	Aroclor 1248 (5)	6.928	1508177	244.862 ng/ml
32)	Aroclor 1248 (6)	7.417	3356133	982.067 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.928	1508177	251.442 ng/ml
35)	Aroclor 1254 (2)	7.039	1681780	230.774 ng/ml
36)	Aroclor 1254 (3)	7.417	3356133	299.388 ng/ml
37)	Aroclor 1254 (4)	7.577	472535	66.274 ng/ml
38)	Aroclor 1254 (5)	7.958	4335340	566.046 ng/ml
39)	Aroclor 1254 (6)	8.249	484341	194.211 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.529	4561709	547.769 ng/ml
42)	Aroclor 1260 (2)	7.662	5698833	558.578 ng/ml
43)	Aroclor 1260 (3)	8.220	4307307	547.644 ng/ml
44)	Aroclor 1260 (4)	8.390	10437977	560.625 ng/ml
45)	Aroclor 1260 (5)	8.689	6864595	567.511 ng/ml
46)	Aroclor 1260 (6)	9.080	2876915	562.490 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F031.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 16:45
Operator : MJB / KAK
Sample : 9L23019-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 17:01:22 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

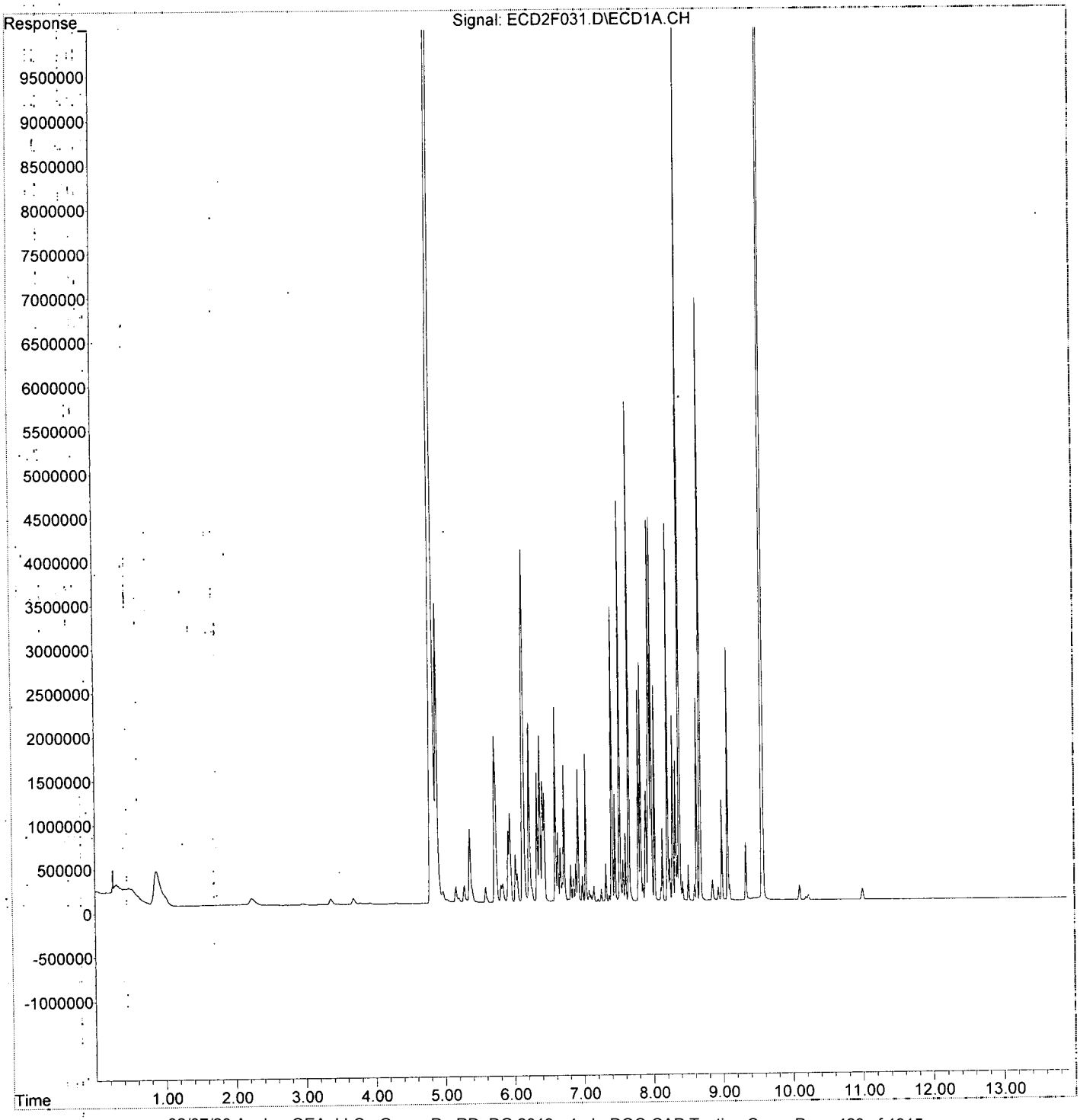
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.662	5698833	708.245	ng/ml
49)	Aroclor 1262 (2)	7.987	4370991	389.395	ng/ml
50)	Aroclor 1262 (3)	8.220	4307307	443.827	ng/ml
51)	Aroclor 1262 (4)	8.390	10437977	505.224	ng/ml
52)	Aroclor 1262 (5)	8.689	6864595	524.721	ng/ml
53)	Aroclor 1262 (6)	9.080	2876915	430.893	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.220	4307307	843.869	ng/ml
56)	Aroclor 1268 (2)	8.636	2307551	94.087	ng/ml
57)	Aroclor 1268 (3)	8.689	6864595	336.266	ng/ml
58)	Aroclor 1268 (4)	8.862	231778	12.101	ng/ml
59)	Aroclor 1268 (5)	9.080	2876915	371.227	ng/ml
60)	Aroclor 1268 (6)	9.341	659595	12.616	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 : K:\DATA\9L23019\
Data File : ECD2F031.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 16:45
Operator : MJB / KAK
Sample : 9L23019-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 23 17:01:22 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F032.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 17:02
Operator : MJB / KAK
Sample : 9L23019-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 04 13:51:00 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
1)	S	TCMX (S)	4.811	7683540	115.390	ng/ml
62)	S	DCBP (S)	9.579	14195665	127.116	ng/ml
Target Compounds						
2)		Aroclor 1016 (1)	5.722	4588	1.227	ng/ml
3)		Aroclor 1016 (2)	6.156	8418	1.170	ng/ml
4)		Aroclor 1016 (3)	6.236	5651	1.422	ng/ml
5)		Aroclor 1016 (4)	6.387	2565	0.717	ng/ml
6)		Aroclor 1016 (5)	6.585	2990	0.720	ng/ml
7)		Aroclor 1016 (6)	6.718	2116	0.721	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.157	10680	9.866	ng/ml
10)		Aroclor 1221 (2)	5.289	9895	13.790	ng/ml
11)		Aroclor 1221 (3)	5.363	9379	4.008	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.363	9379	5.281	ng/ml
14)		Aroclor 1232 (2)	6.156	8418	3.028	ng/ml
15)		Aroclor 1232 (3)	6.236	5651	3.852	ng/ml
16)		Aroclor 1232 (4)	6.387	2565	2.251	ng/ml
17)		Aroclor 1232 (5)	6.585	2990	2.082	ng/ml
18)		Aroclor 1232 (6)	6.718	2116	1.766	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	5.722	4588	1.727	ng/ml
21)		Aroclor 1242 (2)	6.156	8418	1.623	ng/ml
22)		Aroclor 1242 (3)	6.236	5651	2.004	ng/ml
23)		Aroclor 1242 (4)	6.387	2565	1.120	ng/ml
24)		Aroclor 1242 (5)	6.585	2990	1.002	ng/ml
25)		Aroclor 1242 (6)	6.718	2116	0.843	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.156	8418	2.474	ng/ml
28)		Aroclor 1248 (2)	6.387	2565	0.568	ng/ml
29)		Aroclor 1248 (3)	6.585	2990	0.573	ng/ml
30)		Aroclor 1248 (4)	6.882	2664	0.459	ng/ml
31)		Aroclor 1248 (5)	6.924	2987	0.485	ng/ml
32)		Aroclor 1248 (6)	7.400	2578	0.754	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	6.924	2987	0.498	ng/ml
35)		Aroclor 1254 (2)	7.015	2326	0.319	ng/ml
36)		Aroclor 1254 (3)	7.400	2578	0.230	ng/ml
37)		Aroclor 1254 (4)	7.553	3831	0.537	ng/ml
38)		Aroclor 1254 (5)	7.922	2037	0.266	ng/ml
39)		Aroclor 1254 (6)	8.246	1001	0.401	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	7.509	2937	0.353	ng/ml
42)		Aroclor 1260 (2)	7.648	2976	0.292	ng/ml
43)		Aroclor 1260 (3)	8.200	816	0.104	ng/ml
44)		Aroclor 1260 (4)	8.387	6541	0.351	ng/ml
45)		Aroclor 1260 (5)	8.669	1601	0.132	ng/ml
46)		Aroclor 1260 (6)	9.081	3277	0.641	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23019\
Data File : ECD2F032.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 17:02
Operator : MJB / KAK
Sample : 9L23019-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 04 13:51:00 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

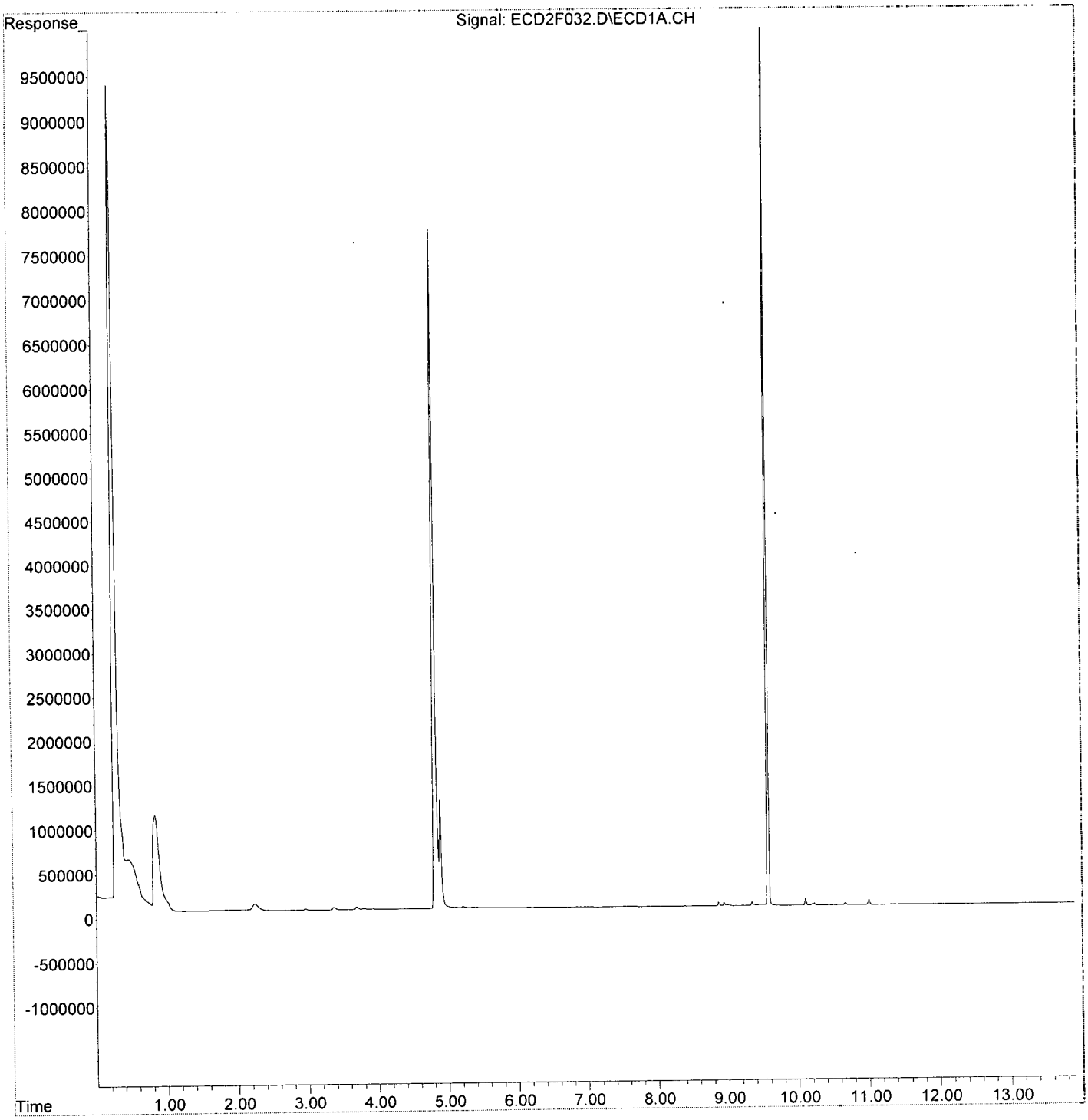
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.648	2976	0.370 ng/ml
49)	Aroclor 1262 (2)	7.963	4813	0.429 ng/ml
50)	Aroclor 1262 (3)	8.200	816	0.084 ng/ml
51)	Aroclor 1262 (4)	8.387	6541	0.317 ng/ml
52)	Aroclor 1262 (5)	8.669	1601	0.122 ng/ml
53)	Aroclor 1262 (6)	9.081	3277	0.491 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.200	816	0.160 ng/ml
56)	Aroclor 1268 (2)	8.623	1408	0.057 ng/ml
57)	Aroclor 1268 (3)	8.669	1601	0.078 ng/ml
58)	Aroclor 1268 (4)	8.869	46463	2.426 ng/ml
59)	Aroclor 1268 (5)	9.081	3277	0.423 ng/ml
60)	Aroclor 1268 (6)	9.307	3674	0.070 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 : K:\DATA\9L23019\
Data File : ECD2F032.D
Signal(s) : ECD1A.CH
Acq On : 23 Dec 2019 17:02
Operator : MJB / KAK
Sample : 9L23019-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 04 13:51:00 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
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

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data

Sequence 9L23020 (A9J0514-29,30,32,33,34,35,36,38,39,40)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**9L23020**	Instrument:	**DUALECD2R**
Date:	**12/23/19 07:37**	Calibration:	**A9J2803**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L23020-CCV1	Sediment	QC	QC				A19L338
2	9L23020-CCB1	Sediment	QC	QC				A19L339
3	A9J0514-29	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
4	9L23020-IBL1	Sediment	QC	QC				
5	A9J0514-30	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
6	9L23020-IBL2	Sediment	QC	QC				
7	A9J0514-31	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
8	9L23020-IBL3	Sediment	QC	QC				
9	A9J0514-32	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
10	9L23020-IBL4	Sediment	QC	QC				
11	A9J0514-33	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
12	9L23020-IBL5	Sediment	QC	QC				
13	A9J0514-34	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
14	9L23020-IBL6	Sediment	QC	QC				
15	9L23020-CCV2	Sediment	QC	QC				A19L338
16	9L23020-CCB2	Sediment	QC	QC				A19L339
17	A9J0514-35	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
18	9L23020-IBL7	Sediment	QC	QC				
19	A9J0514-36	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
20	9L23020-IBL8	Sediment	QC	QC				
21	A9J0514-37	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
22	9L23020-IBL9	Sediment	QC	QC				
23	A9J0514-38	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
24	9L23020-IBLA	Sediment	QC	QC				
25	A9J0514-39	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
26	9L23020-IBLB	Sediment	QC	QC				
27	A9J0514-40	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	9120981		
28	9L23020-IBLC	Sediment	QC	QC				
29	9L23020-CCV3	Sediment	QC	QC				A19L338
30	9L23020-CCB3	Sediment	QC	QC				A19L339

Comments:

Data Entered By: 1/8/20

Data Reviewed By: 1/14/20

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.

9L23020-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	426.34
1016 (2)	409.90
1016 (3)	382.12
1016 (4)	433.64
1016 (5)	430.97
1016 (6)	440.11
Average:	**420.51**

Aroclor 1260

Peak	Initial Res
1260 (1)	457.39
1260 (2)	475.18
1260 (3)	484.68
1260 (4)	482.54
1260 (5)	495.28
1260 (6)	484.09
Average:	**479.86**

9L23020-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	430.50
1016 (2)	430.53
1016 (3)	428.16
1016 (4)	444.59
1016 (5)	452.59
1016 (6)	448.77
Average:	**439.19**

Aroclor 1260

Peak	Initial Res
1260 (1)	478.59
1260 (2)	470.67
1260 (3)	485.29
1260 (4)	508.35
1260 (5)	518.20
1260 (6)	503.73
Average:	**494.14**

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.

9L23020-CCV3

Aroclor 1016

Peak	Initial Res
1016 (1)	463.26
1016 (2)	457.00
1016 (3)	447.72
1016 (4)	474.31
1016 (5)	477.09
1016 (6)	468.36
Average:	**464.62**

Aroclor 1260

Peak	Initial Res
1260 (1)	515.04
1260 (2)	516.58
1260 (3)	529.02
1260 (4)	536.14
1260 (5)	560.57
1260 (6)	548.76
Average:	**534.35**

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 8:20
Operator : MJB / KAK
Sample : 9L23020-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:04:27 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.716	67391284	256.893	ng/ml
62) S	DCBP (S)	10.695	39263027	267.477	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.388	3787182	426.336	ng/ml
3)	Aroclor 1016 (2)	6.878	6707352	409.903	ng/ml
4)	Aroclor 1016 (3)	7.005	2814608	382.116	ng/ml
5)	Aroclor 1016 (4)	7.089	3233778	433.638	ng/ml
6)	Aroclor 1016 (5)	7.134	3555931	430.966	ng/ml
7)	Aroclor 1016 (6)	7.260	3622594	440.111	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.892	273071	127.374	ng/ml
10)	Aroclor 1221 (2)	5.965	467516	213.868	ng/ml
11)	Aroclor 1221 (3)	6.053	2065920	292.011	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.053	2065920	360.880	ng/ml
14)	Aroclor 1232 (2)	6.388	3787182	1089.447	ng/ml
15)	Aroclor 1232 (3)	6.878	6707352	1036.004	ng/ml
16)	Aroclor 1232 (4)	7.089	3233778	1354.405	ng/ml
17)	Aroclor 1232 (5)	7.134	3555931	1301.419	ng/ml
18)	Aroclor 1232 (6)	7.260	3622594	1221.365	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.388	3787182	578.066	ng/ml
21)	Aroclor 1242 (2)	6.878	6707352	566.895	ng/ml
22)	Aroclor 1242 (3)	7.005	2814608	532.822	ng/ml
23)	Aroclor 1242 (4)	7.089	3233778	647.697	ng/ml
24)	Aroclor 1242 (5)	7.134	3555931	611.608	ng/ml
25)	Aroclor 1242 (6)	7.260	3622594	584.753	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.850	5640063	755.800	ng/ml
28)	Aroclor 1248 (2)	7.089	3233778	346.371	ng/ml
29)	Aroclor 1248 (3)	7.134	3555931	405.485	ng/ml
30)	Aroclor 1248 (4)	7.260	3622594	345.979	ng/ml
31)	Aroclor 1248 (5)	7.625	792949	61.312	ng/ml
32)	Aroclor 1248 (6)	7.782	3121787	264.758	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.601	2558433	197.944	ng/ml
35)	Aroclor 1254 (2)	7.782	3121787	154.181	ng/ml
36)	Aroclor 1254 (3)	8.093	1768323	82.525	ng/ml
37)	Aroclor 1254 (4)	8.332	1217870	73.736	ng/ml
38)	Aroclor 1254 (5)	8.667	9757679	621.779	ng/ml
39)	Aroclor 1254 (6)	8.913	6827041	1396.081	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.228	7218888	457.388	ng/ml
42)	Aroclor 1260 (2)	8.434	9301142	475.185	ng/ml
43)	Aroclor 1260 (3)	8.667	9757679	484.681	ng/ml
44)	Aroclor 1260 (4)	9.157	14932771	482.540	ng/ml
45)	Aroclor 1260 (5)	9.424	8864212	495.285	ng/ml
46)	Aroclor 1260 (6)	10.008	3339496	484.087	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 8:20
Operator : MJB / KAK
Sample : 9L23020-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:04:27 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

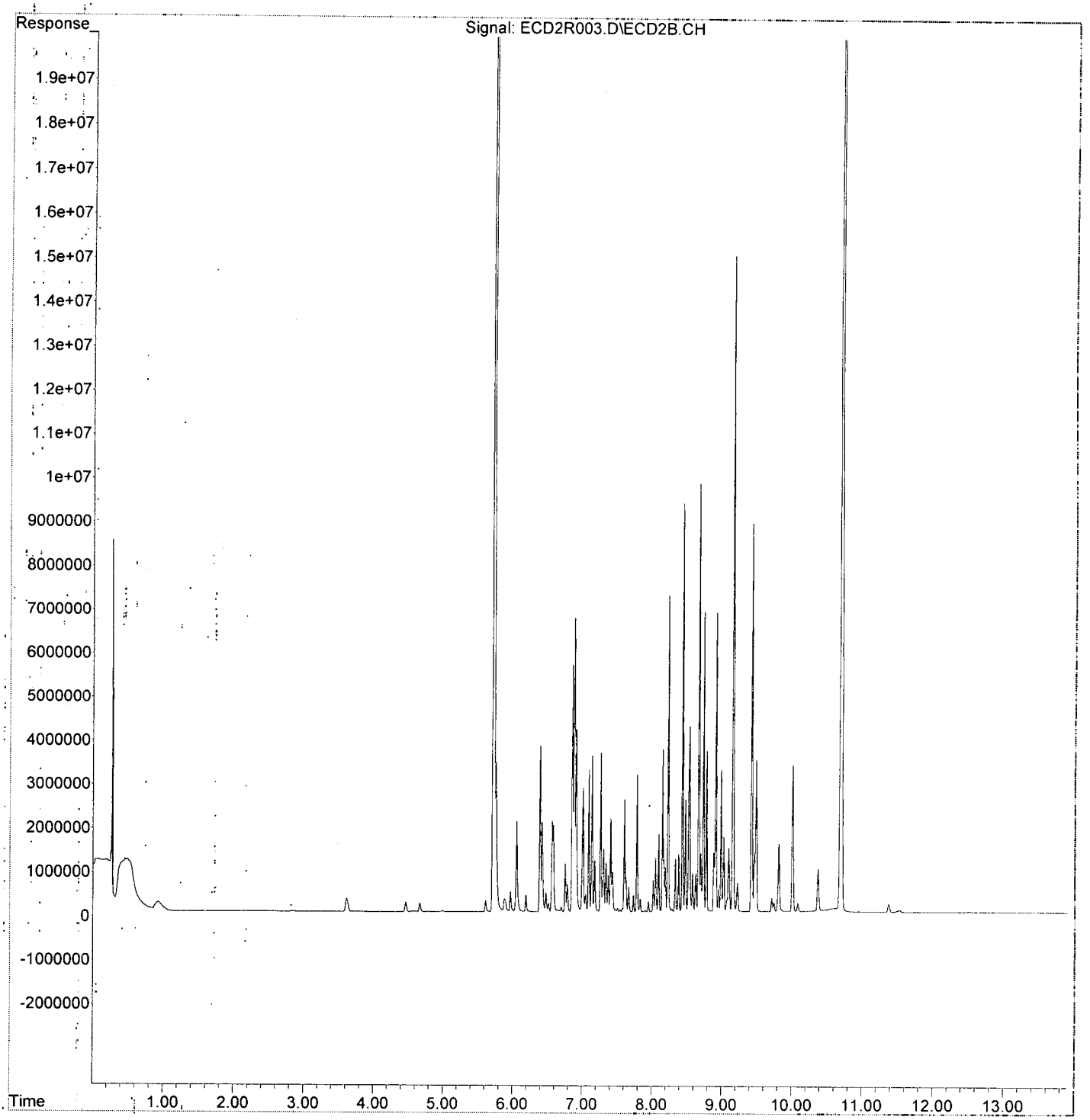
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.434	9301142	614.605 ng/ml
49)	Aroclor 1262 (2)	8.735	6840731	323.374 ng/ml
50)	Aroclor 1262 (3)	8.913	6827041	390.825 ng/ml
51)	Aroclor 1262 (4)	9.157	14932771	417.008 ng/ml
52)	Aroclor 1262 (5)	9.424	8864212	403.564 ng/ml
53)	Aroclor 1262 (6)	10.008	3339496	344.259 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.953	523303	56.068 ng/ml
56)	Aroclor 1268 (2)	9.424	8864212	225.919 ng/ml
57)	Aroclor 1268 (3)	9.489	3469303	110.042 ng/ml
58)	Aroclor 1268 (4)	9.713	307982	11.371 ng/ml
59)	Aroclor 1268 (5)	10.008	3339496	315.160 ng/ml
60)	Aroclor 1268 (6)	10.370	955910	13.009 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 : K:\DATA\9L23020\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 8:20
Operator : MJB / KAK
Sample : 9L23020-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:04:27 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 8:37
Operator : MJB /, KAK
Sample : 9L23020-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:04:49 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20

Clean

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.721	25999073	99.108 ng/ml
62)	S DCBP (S)	10.691	14962633	101.932 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.393	1953	0.220 ng/ml
3)	Aroclor 1016 (2)	6.874	1156	0.071 ng/ml
4)	Aroclor 1016 (3)	7.003	894	0.121 ng/ml
5)	Aroclor 1016 (4)	7.091	1009	0.135 ng/ml
6)	Aroclor 1016 (5)	7.133	1334	0.162 ng/ml
7)	Aroclor 1016 (6)	7.264	1308	0.159 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.956f	9653	4.503 ng/ml
10)	Aroclor 1221 (2)	5.967	9016	4.125 ng/ml
11)	Aroclor 1221 (3)	6.039	44673	6.314 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.039	44673	7.804 ng/ml
14)	Aroclor 1232 (2)	6.393	1953	0.562 ng/ml
15)	Aroclor 1232 (3)	6.874	1156	0.179 ng/ml
16)	Aroclor 1232 (4)	7.091	1009	0.423 ng/ml
17)	Aroclor 1232 (5)	7.133	1334	0.488 ng/ml
18)	Aroclor 1232 (6)	7.264	1308	0.441 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.393	1953	0.298 ng/ml
21)	Aroclor 1242 (2)	6.874	1156	0.098 ng/ml
22)	Aroclor 1242 (3)	7.003	894	0.169 ng/ml
23)	Aroclor 1242 (4)	7.091	1009	0.202 ng/ml
24)	Aroclor 1242 (5)	7.133	1334	0.229 ng/ml
25)	Aroclor 1242 (6)	7.264	1308	0.211 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.858	1504	0.202 ng/ml
28)	Aroclor 1248 (2)	7.091	1009	0.108 ng/ml
29)	Aroclor 1248 (3)	7.133	1334	0.152 ng/ml
30)	Aroclor 1248 (4)	7.264	1308	0.125 ng/ml
31)	Aroclor 1248 (5)	7.628	933	0.072 ng/ml
32)	Aroclor 1248 (6)	7.785	2204	0.187 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.607	589	0.046 ng/ml
35)	Aroclor 1254 (2)	7.785	2204	0.109 ng/ml
36)	Aroclor 1254 (3)	8.094	2529	0.118 ng/ml
37)	Aroclor 1254 (4)	8.337	1351	0.082 ng/ml
38)	Aroclor 1254 (5)	8.666	2746	0.175 ng/ml
39)	Aroclor 1254 (6)	8.902	2979	0.609 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.232	1855	0.118 ng/ml
42)	Aroclor 1260 (2)	8.436	3533	0.180 ng/ml
43)	Aroclor 1260 (3)	8.666	2746	0.136 ng/ml
44)	Aroclor 1260 (4)	9.151	4476	0.145 ng/ml
45)	Aroclor 1260 (5)	9.428	3404	0.190 ng/ml
46)	Aroclor 1260 (6)	10.013	1849	0.268 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 8:37
Operator : MJB / KAK
Sample : 9L23020-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:04:49 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

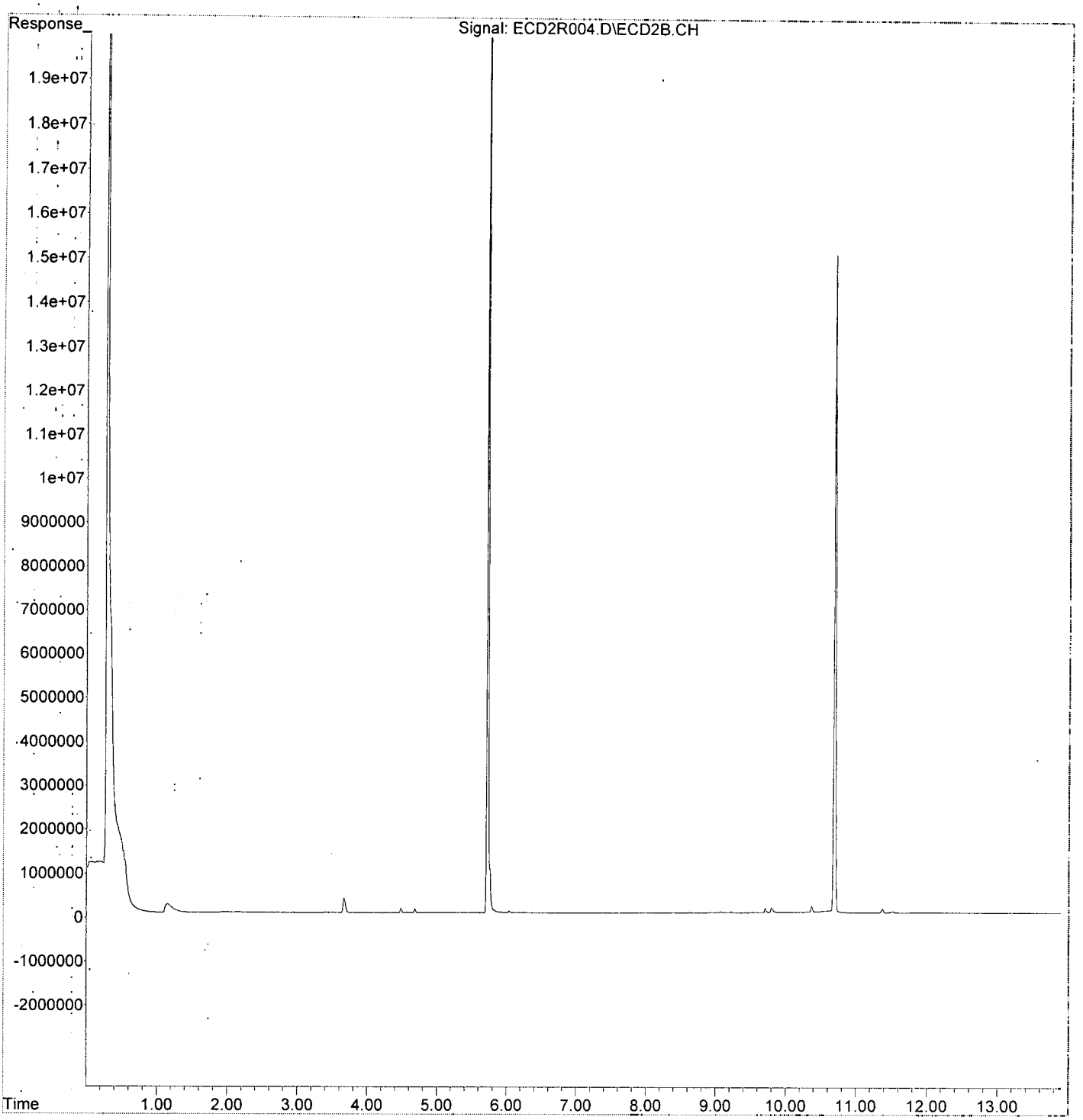
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.436	3533	0.233 ng/ml
49)	Aroclor 1262 (2)	8.736	1578	0.075 ng/ml
50)	Aroclor 1262 (3)	8.909	3445	0.197 ng/ml
51)	Aroclor 1262 (4)	9.151	4476	0.125 ng/ml
52)	Aroclor 1262 (5)	9.428	3404	0.155 ng/ml
53)	Aroclor 1262 (6)	10.013	1849	0.191 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.958	2808	0.301 ng/ml
56)	Aroclor 1268 (2)	9.428	3404	0.087 ng/ml
57)	Aroclor 1268 (3)	9.501	1511	0.048 ng/ml
58)	Aroclor 1268 (4)	9.711	104467	3.857 ng/ml
59)	Aroclor 1268 (5)	10.013	1849	0.175 ng/ml
60)	Aroclor 1268 (6)	10.370	137225	1.868 ng/ml
61)	Aroclor 1268 - AVE	1.820	153518	NoCal ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 8:37
Operator : MJB / KAK
Sample : 9L23020-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:04:49 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 9:06
Operator : MJB / KAK
Sample : A9L0514-29
Misc : 5 1/8/20
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:05:11 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

1260

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.734	27099815	103.304	ng/ml
62) S	DCBP (S)	10.700	16713659	113.861	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.423	25028	2.818	ng/ml
3)	Aroclor 1016 (2)	6.886	96293	5.885	ng/ml
4)	Aroclor 1016 (3)	7.017	192203	26.094	ng/ml
5)	Aroclor 1016 (4)	7.100	258611	34.679	ng/ml
6)	Aroclor 1016 (5)	7.125	239224	28.993	ng/ml
7)	Aroclor 1016 (6)	7.267	144070	17.503	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.889	11243	5.244	ng/ml
10)	Aroclor 1221 (2)	5.937	206726	94.568	ng/ml
11)	Aroclor 1221 (3)	6.052	208763	29.508	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.052	208763	36.467	ng/ml
14)	Aroclor 1232 (2)	6.423	25028	7.200	ng/ml
15)	Aroclor 1232 (3)	6.886	96293	14.873	ng/ml
16)	Aroclor 1232 (4)	7.100	258611	108.314	ng/ml
17)	Aroclor 1232 (5)	7.125	239224	87.552	ng/ml
18)	Aroclor 1232 (6)	7.267	144070	48.573	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.423	25028	3.820	ng/ml
21)	Aroclor 1242 (2)	6.886	96293	8.139	ng/ml
22)	Aroclor 1242 (3)	7.017	192203	36.385	ng/ml
23)	Aroclor 1242 (4)	7.100	258611	51.797	ng/ml
24)	Aroclor 1242 (5)	7.125	239224	41.146	ng/ml
25)	Aroclor 1242 (6)	7.267	144070	23.255	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.853	118973	15.943	ng/ml
28)	Aroclor 1248 (2)	7.100	258611	27.700	ng/ml
29)	Aroclor 1248 (3)	7.125	239224	27.279	ng/ml
30)	Aroclor 1248 (4)	7.267	144070	13.760	ng/ml
31)	Aroclor 1248 (5)	7.611	535964	41.442	ng/ml
32)	Aroclor 1248 (6)	7.785	40991535	3476.484	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.611	535964	41.467	ng/ml
35)	Aroclor 1254 (2)	7.785	40991535	2024.515	ng/ml
36)	Aroclor 1254 (3)	8.086	125964469	5878.582	ng/ml
37)	Aroclor 1254 (4)	8.336	614267	37.191	ng/ml
38)	Aroclor 1254 (5)	8.670	1825394	116.318	ng/ml
39)	Aroclor 1254 (6)	~~8.917~~ 8.900	~~853934~~	~~174.623~~	ng/ml 69.347 MI
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.246	5367684 Ø	340.096	ng/ml
42)	Aroclor 1260 (2)	8.416 ~~8.437~~	~~2019580554~~ 10317.812 Ø		ng/ml 41.168 MI
43)	Aroclor 1260 (3)	8.670	1825394 Ø	90.670	ng/ml
44)	Aroclor 1260 (4)	9.162	2010304	64.961	ng/ml
45)	Aroclor 1260 (5)	9.428	1192433	66.627	ng/ml
46)	Aroclor 1260 (6)	10.013	382997	55.518	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

R-02

62.369

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 9:06
Operator : MJB / KAK
Sample : A9L0514-29
Misc : 5 22 1/4/20
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:05:11 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

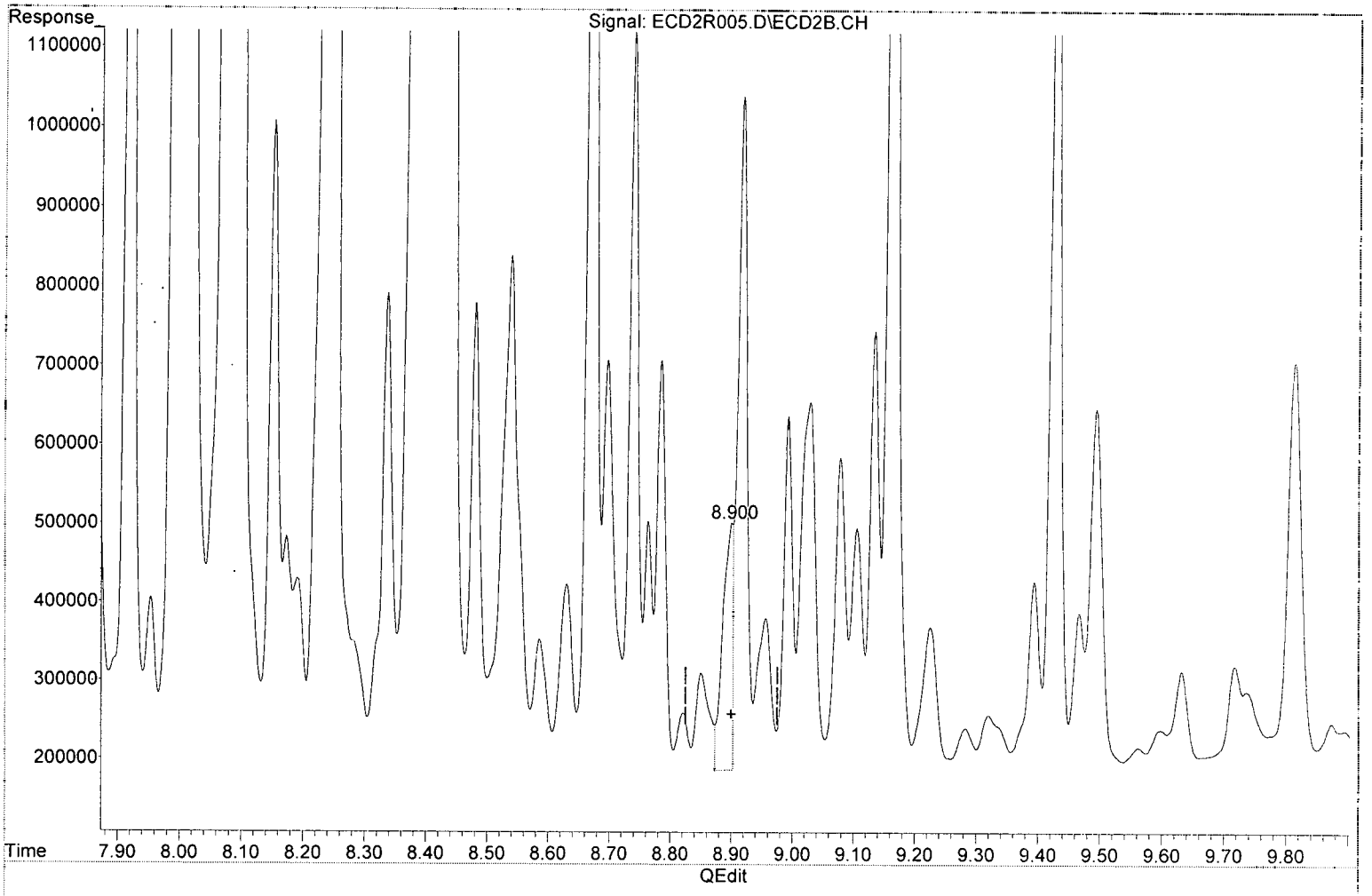
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.416	201958055	13345.085 ng/ml
49)	Aroclor 1262 (2)	8.739	937102	44.298 ng/ml
50)	Aroclor 1262 (3)	8.917	853934	48.885 ng/ml
51)	Aroclor 1262 (4)	9.162	2010304	56.139 ng/ml
52)	Aroclor 1262 (5)	9.428	1192433	54.288 ng/ml
53)	Aroclor 1262 (6)	10.013	382997	39.482 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.956	192299	20.603 ng/ml
56)	Aroclor 1268 (2)	9.428	1192433	30.391 ng/ml
57)	Aroclor 1268 (3)	9.494	448717	14.233 ng/ml
58)	Aroclor 1268 (4)	9.717	118076	4.359 ng/ml
59)	Aroclor 1268 (5)	10.013	382997	36.145 ng/ml
60)	Aroclor 1268 (6)	10.377	284789	3.876 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Qedit)

Data Path : K:\DATA_2019-12\9L23020\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 9:06
Operator : MJB / KAK
Sample : A9J0514-29
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:05:11 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(39) Aroclor 1254 (6)

8.900min 64.347 ng/ml m 1/8/20

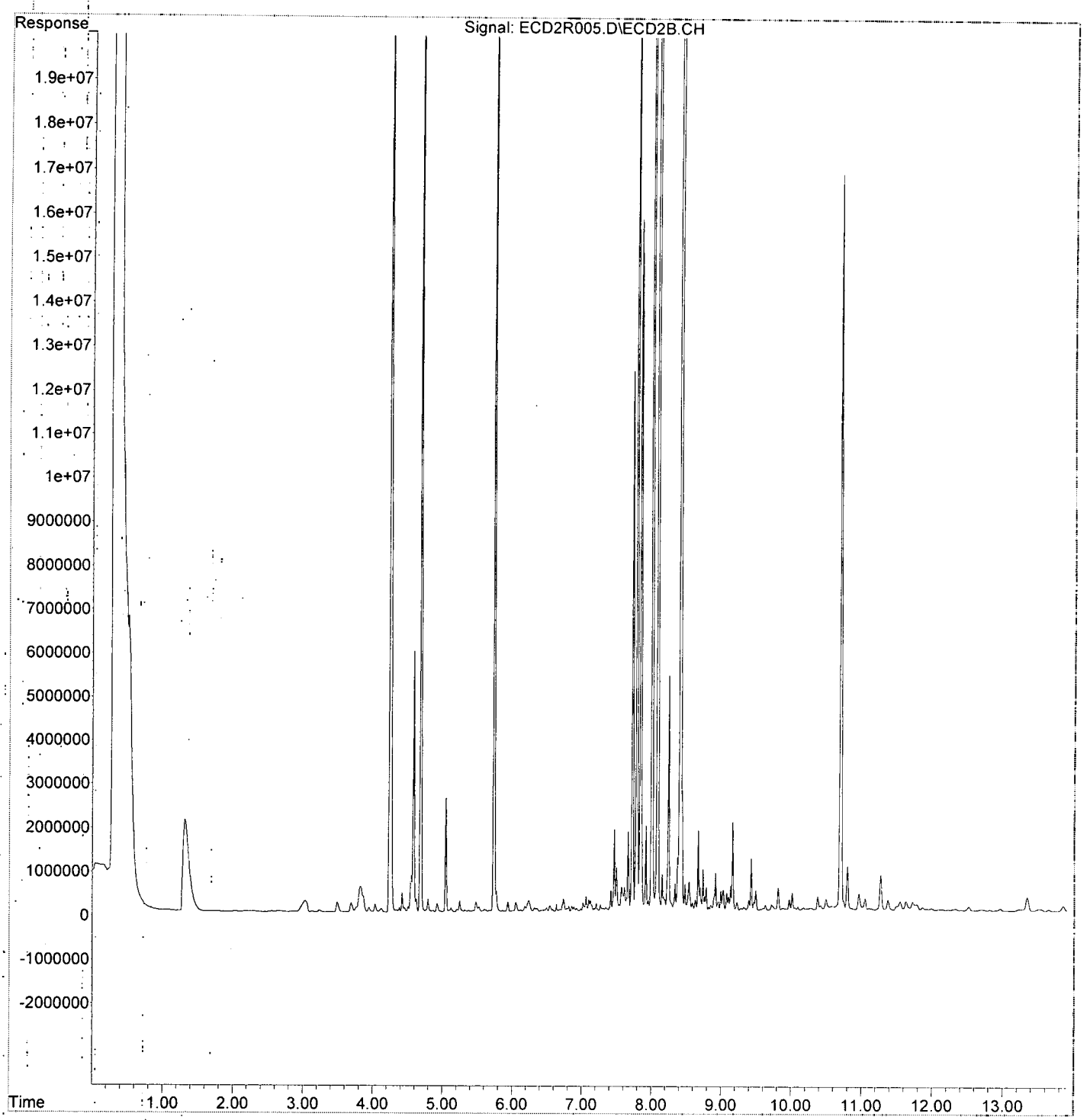
response 314666

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 9:06
Operator : MJB / KAK
Sample : A9L0514-29
Misc : 5 1/14/20
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:05:11 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 9:41
Operator : MJB / KAK
Sample : A9L0514-30
Misc : J 1/4/20
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:05:33 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20
1254 P-10
1260 P-10

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.729	29524488	112.546	ng/ml
62)	S DCBP (S)	10.695	16498679	112.396	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.404	19108	2.151	ng/ml
3)	Aroclor 1016 (2)	6.882	77433	4.732	ng/ml
4)	Aroclor 1016 (3)	7.013	54166	7.354	ng/ml
5)	Aroclor 1016 (4)	7.096	135755	18.204	ng/ml
6)	Aroclor 1016 (5)	7.118	286439	34.715	ng/ml
7)	Aroclor 1016 (6)	7.264	78385	9.523	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.885	16761	7.818	ng/ml
10)	Aroclor 1221 (2)	6.004	10766	4.925	ng/ml
11)	Aroclor 1221 (3)	6.045	41425	5.855	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.045	41425	7.236	ng/ml
14)	Aroclor 1232 (2)	6.404	19108	5.497	ng/ml
15)	Aroclor 1232 (3)	6.882	77433	11.960	ng/ml
16)	Aroclor 1232 (4)	7.096	135755	56.858	ng/ml
17)	Aroclor 1232 (5)	7.118	286439	104.832	ng/ml
18)	Aroclor 1232 (6)	7.264	78385	26.428	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.404	19108	2.917	ng/ml
21)	Aroclor 1242 (2)	6.882	77433	6.545	ng/ml
22)	Aroclor 1242 (3)	7.013	54166	10.254	ng/ml
23)	Aroclor 1242 (4)	7.096	135755	27.190	ng/ml
24)	Aroclor 1242 (5)	7.118	286439	49.266	ng/ml
25)	Aroclor 1242 (6)	7.264	78385	12.653	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.853	78616	10.535	ng/ml
28)	Aroclor 1248 (2)	7.096	135755	14.541	ng/ml
29)	Aroclor 1248 (3)	7.118	286439	32.663	ng/ml
30)	Aroclor 1248 (4)	7.264	78385	7.486	ng/ml
31)	Aroclor 1248 (5)	7.631	135924	10.510	ng/ml
32)	Aroclor 1248 (6)	7.787	599877	50.875	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.609	280578	21.708	ng/ml
35)	Aroclor 1254 (2)	7.787	599877 Ø	29.627	ng/ml
36)	Aroclor 1254 (3)	8.094	430199 Ø	20.077	ng/ml
37)	Aroclor 1254 (4)	8.333	333361	20.183	ng/ml
38)	Aroclor 1254 (5)	8.667	869896 Ø	55.432	ng/ml
39)	Aroclor 1254 (6)	8.891	202564 Ø	41.423	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.218	1891302 Ø	119.833	ng/ml
42)	Aroclor 1260 (2)	8.435	3128627 Ø	159.838	ng/ml
43)	Aroclor 1260 (3)	8.667	869896	43.209	ng/ml
44)	Aroclor 1260 (4)	9.158	1017338	32.874	ng/ml
45)	Aroclor 1260 (5)	9.426	796941	44.529	ng/ml
46)	Aroclor 1260 (6)	10.010	228014	33.052	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

30.656 L.02 MK7 1/14/20

38.416

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 9:41
Operator : MJB / KAK
Sample : A9L0514-30
Misc : 5 1/4/20
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:05:33 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

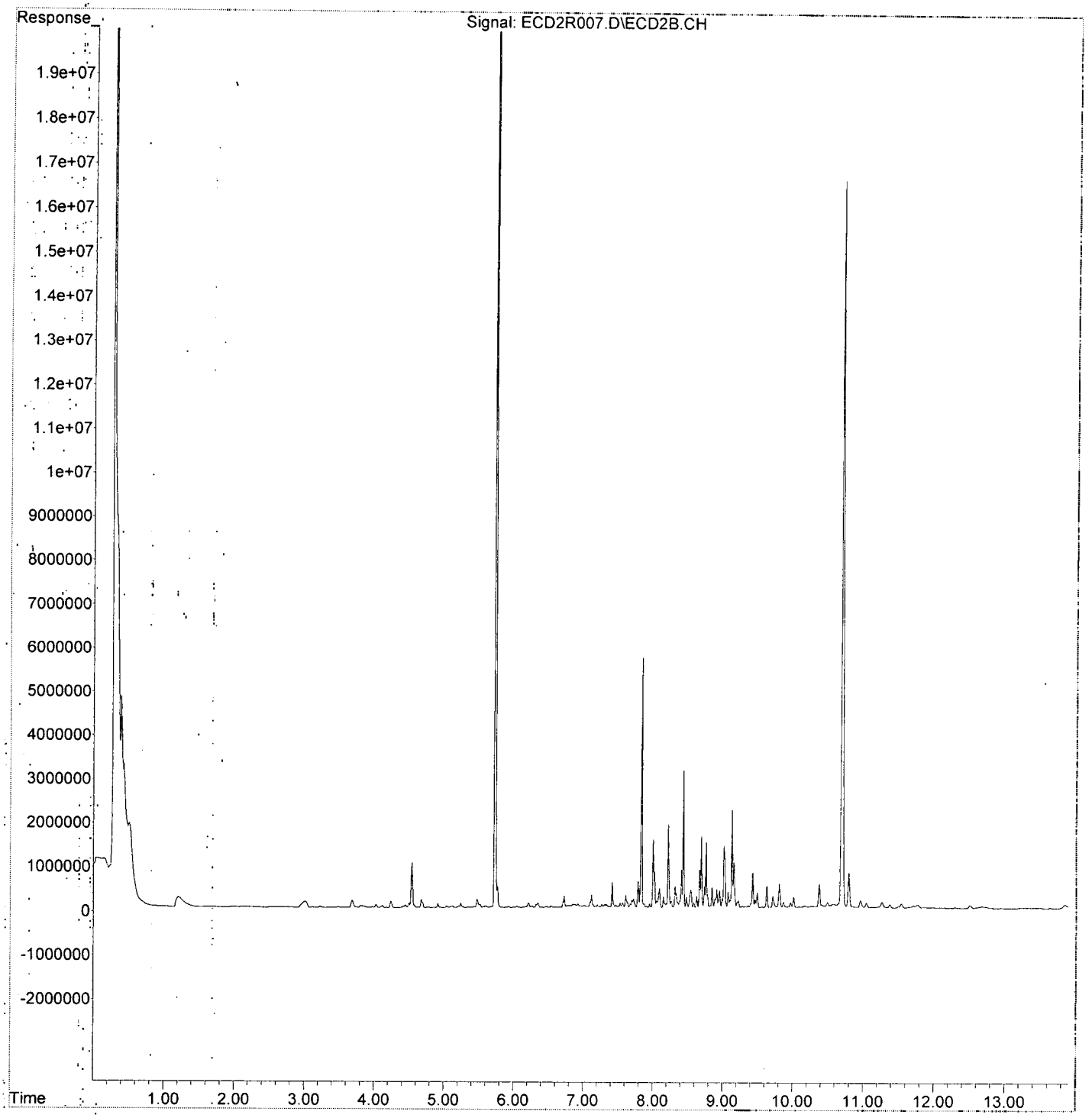
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.435	3128627	206.735 ng/ml
49)	Aroclor 1262 (2)	8.736	473586	22.387 ng/ml
50)	Aroclor 1262 (3)	8.915	414405	23.723 ng/ml
51)	Aroclor 1262 (4)	9.158	1017338	28.410 ng/ml
52)	Aroclor 1262 (5)	9.426	796941	36.283 ng/ml
53)	Aroclor 1262 (6)	10.010	228014	23.505 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.953	386838	41.447 ng/ml
56)	Aroclor 1268 (2)	9.426	796941	20.311 ng/ml
57)	Aroclor 1268 (3)	9.492	329698	10.458 ng/ml
58)	Aroclor 1268 (4)	9.714	253864	9.373 ng/ml
59)	Aroclor 1268 (5)	10.010	228014	21.518 ng/ml
60)	Aroclor 1268 (6)	10.373	503738	6.855 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 : K:\DATA\9L23020\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 9:41
Operator : MJB / KAK
Sample : A9L0514-30
Misc : 1/A/20
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:05:33 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 10:17
Operator : MJB / KAK
Sample : A9L0514-31
Misc : 5 1/4/20
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:05:55 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

1260
P-09

RR-7

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.721	24120055	91.945 ng/ml
62)	S DCBP (S)	10.693	12283071	83.678 ng/ml S-06
	Target Compounds			
2)	Aroclor 1016 (1)	6.396	6474	0.729 ng/ml
3)	Aroclor 1016 (2)	6.877	32293	1.973 ng/ml
4)	Aroclor 1016 (3)	7.019	20330	2.760 ng/ml
5)	Aroclor 1016 (4)	7.109	155016	20.787 ng/ml
6)	Aroclor 1016 (5)	7.109	155016	18.787 ng/ml
7)	Aroclor 1016 (6)	7.259	21748	2.642 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.877	1151	0.537 ng/ml
10)	Aroclor 1221 (2)	5.999	4444	2.033 ng/ml
11)	Aroclor 1221 (3)	6.038	23675	3.346 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.038	23675	4.136 ng/ml
14)	Aroclor 1232 (2)	6.396	6474	1.862 ng/ml
15)	Aroclor 1232 (3)	6.877	32293	4.988 ng/ml
16)	Aroclor 1232 (4)	7.109	155016	64.925 ng/ml
17)	Aroclor 1232 (5)	7.109	155016	56.733 ng/ml
18)	Aroclor 1232 (6)	7.259	21748	7.333 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.396	6474	0.988 ng/ml
21)	Aroclor 1242 (2)	6.877	32293	2.729 ng/ml
22)	Aroclor 1242 (3)	7.019	20330	3.849 ng/ml
23)	Aroclor 1242 (4)	7.109	155016	31.048 ng/ml
24)	Aroclor 1242 (5)	7.109	155016	26.662 ng/ml
25)	Aroclor 1242 (6)	7.259	21748	3.511 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.847	31535	4.226 ng/ml
28)	Aroclor 1248 (2)	7.109	155016	16.604 ng/ml
29)	Aroclor 1248 (3)	7.109	155016	17.677 ng/ml
30)	Aroclor 1248 (4)	7.259	21748	2.077 ng/ml
31)	Aroclor 1248 (5)	7.625	36391	2.814 ng/ml
32)	Aroclor 1248 (6)	7.782	191648	16.254 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.602	115794	8.959 ng/ml
35)	Aroclor 1254 (2)	7.782	191648	9.465 ng/ml
36)	Aroclor 1254 (3)	8.091	144312	6.735 ng/ml
37)	Aroclor 1254 (4)	8.330	118992	7.204 ng/ml
38)	Aroclor 1254 (5)	8.665	458360	29.208 ng/ml
39)	Aroclor 1254 (6)	8.913	245441	50.191 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.215	555066	35.169 ng/ml
42)	Aroclor 1260 (2)	8.432	1213262 Ø	61.984 ng/ml
43)	Aroclor 1260 (3)	8.665	458360	22.768 ng/ml
44)	Aroclor 1260 (4)	9.156	593783	19.188 ng/ml
45)	Aroclor 1260 (5)	9.423	423373	23.656 ng/ml
46)	Aroclor 1260 (6)	10.007	137277	19.899 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

24.136

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 10:17
Operator : MJB / KAK
Sample : A9L0514-31
Misc : 5 1/A/20
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:05:55 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

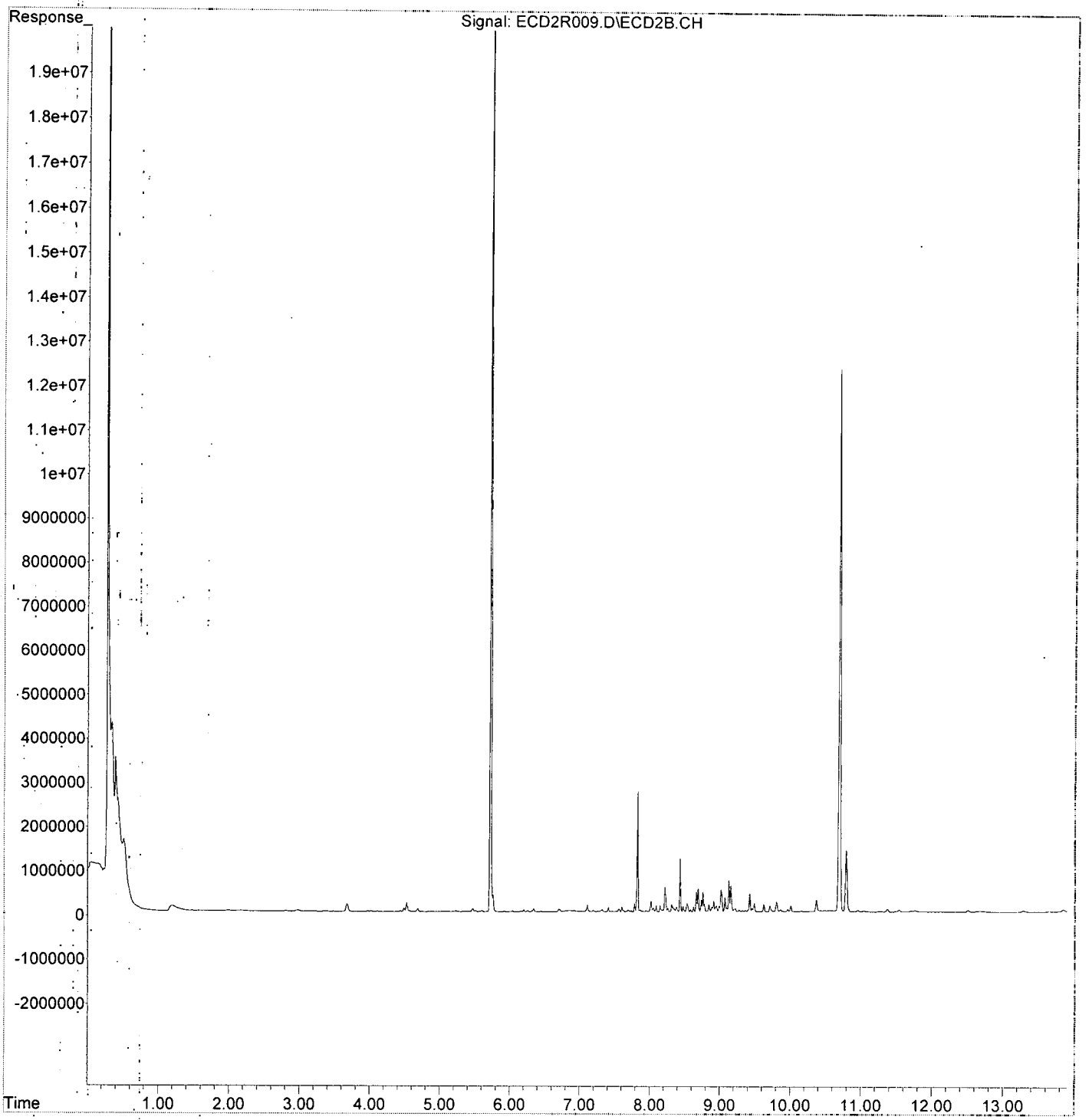
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.432	1213262	80.171 ng/ml
49)	Aroclor 1262 (2)	8.734	275573	13.027 ng/ml
50)	Aroclor 1262 (3)	8.913	245441	14.051 ng/ml
51)	Aroclor 1262 (4)	9.156	593783	16.582 ng/ml
52)	Aroclor 1262 (5)	9.423	423373	19.275 ng/ml
53)	Aroclor 1262 (6)	10.007	137277	14.151 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.951	139156	14.910 ng/ml
56)	Aroclor 1268 (2)	9.423	423373	10.790 ng/ml
57)	Aroclor 1268 (3)	9.489	190044	6.028 ng/ml
58)	Aroclor 1268 (4)	9.711	133310	4.922 ng/ml
59)	Aroclor 1268 (5)	10.007	137277	12.955 ng/ml
60)	Aroclor 1268 (6)	10.370	264397	3.598 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 : K:\DATA\9L23020\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 10:17
Operator : MJB / KAK
Sample : A9L0514-31
Misc : 5 1/4/20
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:05:55 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\9L23020\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 10:52
Operator : MJB / KAK
Sample : A9J0514-32
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 12:46:01 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

1254 P-10
1260 P-10

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.718	38535042	146.894	ng/ml
62)	S DCBP (S)	10.693	24029000	163.696	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.385	51949	5.848	ng/ml
3)	Aroclor 1016 (2)	6.878	221196	13.518	ng/ml
4)	Aroclor 1016 (3)	7.020	213808	29.027	ng/ml
5)	Aroclor 1016 (4)	7.087	473667	63.517	ng/ml
6)	Aroclor 1016 (5)	7.133	318599	38.613	ng/ml
7)	Aroclor 1016 (6)	7.258	249957	30.367	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.889	6078	2.835	ng/ml
10)	Aroclor 1221 (2)	5.977	29911	13.683	ng/ml
11)	Aroclor 1221 (3)	6.064	179587	25.384	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.064	179587	31.371	ng/ml
14)	Aroclor 1232 (2)	6.385	51949	14.944	ng/ml
15)	Aroclor 1232 (3)	6.878	221196	34.166	ng/ml
16)	Aroclor 1232 (4)	7.087	473667	198.386	ng/ml
17)	Aroclor 1232 (5)	7.133	318599	116.603	ng/ml
18)	Aroclor 1232 (6)	7.258	249957	84.274	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.385	51949	7.929	ng/ml
21)	Aroclor 1242 (2)	6.878	221196	18.695	ng/ml
22)	Aroclor 1242 (3)	7.020	213808	40.475	ng/ml
23)	Aroclor 1242 (4)	7.087	473667	94.871	ng/ml
24)	Aroclor 1242 (5)	7.133	318599	54.798	ng/ml
25)	Aroclor 1242 (6)	7.258	249957	40.348	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.847	131453	17.615	ng/ml
28)	Aroclor 1248 (2)	7.087	473667	50.735	ng/ml
29)	Aroclor 1248 (3)	7.133	318599	36.330	ng/ml
30)	Aroclor 1248 (4)	7.258	249957	23.872	ng/ml
31)	Aroclor 1248 (5)	7.623	589868	45.610	ng/ml
32)	Aroclor 1248 (6)	7.772	8788293	745.333	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.600	922088	71.341	ng/ml
35)	Aroclor 1254 (2)	7.772	8788293Ø	434.042	ng/ml
36)	Aroclor 1254 (3)	8.078	5460583Ø	254.838	ng/ml
37)	Aroclor 1254 (4)	8.330	1183871	71.678	ng/ml
38)	Aroclor 1254 (5)	8.665	2697366	171.882	ng/ml
39)	Aroclor 1254 (6)	8.911	1107195	226.413	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.228	1755327Ø	111.217	ng/ml
42)	Aroclor 1260 (2)	8.432	2878511Ø	147.060	ng/ml
43)	Aroclor 1260 (3)	8.665	2697366Ø	133.983	ng/ml
44)	Aroclor 1260 (4)	9.155	2514253	81.246	ng/ml
45)	Aroclor 1260 (5)	9.422	1520203	84.941	ng/ml
46)	Aroclor 1260 (6)	10.007	526319	76.294	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

R-02 - MK7 1/14/20

135.329

80.827

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\9L23020\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 10:52
Operator : MJB / KAK
Sample : A9J0514-32
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 12:46:01 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

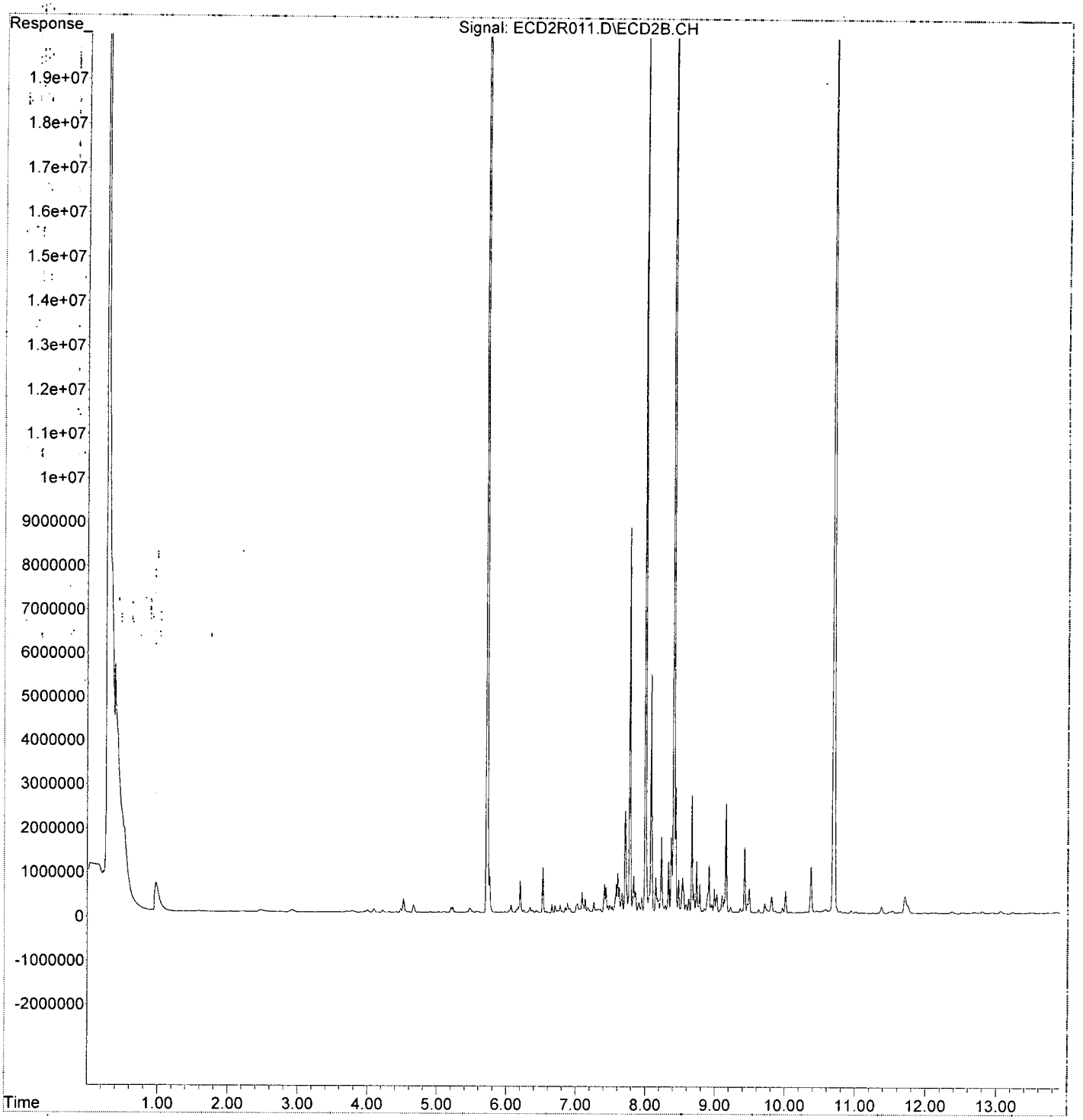
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.432	2878511	190.208 ng/ml
49)	Aroclor 1262 (2)	8.733	1194402	56.462 ng/ml
50)	Aroclor 1262 (3)	8.911	1107195	63.383 ng/ml
51)	Aroclor 1262 (4)	9.155	2514253	70.212 ng/ml
52)	Aroclor 1262 (5)	9.422	1520203	69.211 ng/ml
53)	Aroclor 1262 (6)	10.007	526319	54.257 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.953	212278	22.744 ng/ml
56)	Aroclor 1268 (2)	9.422	1520203	38.745 ng/ml
57)	Aroclor 1268 (3)	9.488	579498	18.381 ng/ml
58)	Aroclor 1268 (4)	9.711	232304	8.577 ng/ml
59)	Aroclor 1268 (5)	10.007	526319	49.671 ng/ml
60)	Aroclor 1268 (6)	10.369	1068365	14.539 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 : C:\msdchem\1\data\9L23020\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 10:52
Operator : MJB / KAK
Sample : A9J0514-32
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 12:46:01 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 11:27
Operator : MJB / KAK
Sample : A9L0514-33
Misc : 5 1/4/20
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:06:38 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

1254 P-10
1260 P-10

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.724	33337959	127.083	ng/ml
62)	S DCBP (S)	10.691	22057989	150.269	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.388	30401	3.422	ng/ml
3)	Aroclor 1016 (2)	6.876	133177	8.139	ng/ml
4)	Aroclor 1016 (3)	7.002	128812	17.488	ng/ml
5)	Aroclor 1016 (4)	7.087	335047	44.929	ng/ml
6)	Aroclor 1016 (5)	7.132	254165	30.804	ng/ml
7)	Aroclor 1016 (6)	7.257	163657	19.883	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.878	4779	2.229	ng/ml
10)	Aroclor 1221 (2)	5.981	15632	7.151	ng/ml
11)	Aroclor 1221 (3)	6.068	100126	14.153	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.068	100126	17.490	ng/ml
14)	Aroclor 1232 (2)	6.388	30401	8.745	ng/ml
15)	Aroclor 1232 (3)	6.876	133177	20.570	ng/ml
16)	Aroclor 1232 (4)	7.087	335047	140.328	ng/ml
17)	Aroclor 1232 (5)	7.132	254165	93.021	ng/ml
18)	Aroclor 1232 (6)	7.257	163657	55.177	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.388	30401	4.640	ng/ml
21)	Aroclor 1242 (2)	6.876	133177	11.256	ng/ml
22)	Aroclor 1242 (3)	7.002	128812	24.385	ng/ml
23)	Aroclor 1242 (4)	7.087	335047	67.107	ng/ml
24)	Aroclor 1242 (5)	7.132	254165	43.715	ng/ml
25)	Aroclor 1242 (6)	7.257	163657	26.417	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.846	101657	13.623	ng/ml
28)	Aroclor 1248 (2)	7.087	335047	35.887	ng/ml
29)	Aroclor 1248 (3)	7.132	254165	28.983	ng/ml
30)	Aroclor 1248 (4)	7.257	163657	15.630	ng/ml
31)	Aroclor 1248 (5)	7.622	362995	28.067	ng/ml
32)	Aroclor 1248 (6)	7.771	11760669	997.420	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.599	632505	48.936	ng/ml
35)	Aroclor 1254 (2)	7.771	11760669 Ø	580.843	ng/ml
36)	Aroclor 1254 (3)	8.076	6317999 Ø	294.852	ng/ml
37)	Aroclor 1254 (4)	8.328	771286	46.698	ng/ml
38)	Aroclor 1254 (5)	8.664	1762187	112.290	ng/ml
39)	Aroclor 1254 (6)	8.910	756410	154.680	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.226	1398865	88.632	ng/ml
42)	Aroclor 1260 (2)	8.431	2413103 Ø	123.283	ng/ml
43)	Aroclor 1260 (3)	8.664	1762187	87.531	ng/ml
44)	Aroclor 1260 (4)	9.154	1695792	54.798	ng/ml
45)	Aroclor 1260 (5)	9.421	1478928	82.635	ng/ml
46)	Aroclor 1260 (6)	10.005	469785	68.099	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

90/65 P-02 MKJ 1/14/20

76.339

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 11:27
Operator : MJB / KAK
Sample : A9L0514-33
Misc : 5 KK 1/4/20
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:06:38 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

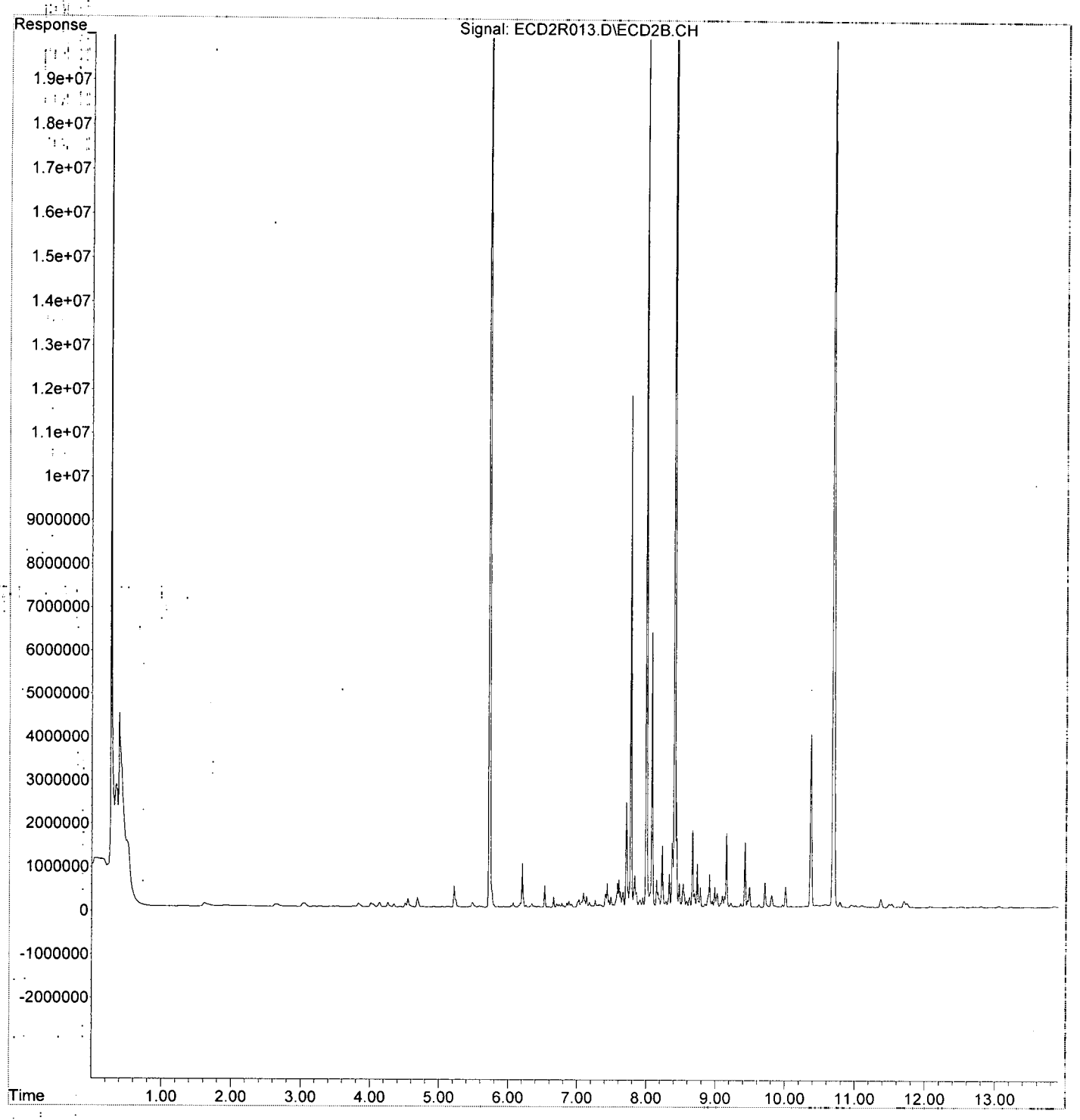
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.431	2413103	159.454 ng/ml
49)	Aroclor 1262 (2)	8.732	985823	46.602 ng/ml
50)	Aroclor 1262 (3)	8.910	756410	43.302 ng/ml
51)	Aroclor 1262 (4)	9.154	1695792	47.356 ng/ml
52)	Aroclor 1262 (5)	9.421	1478928	67.332 ng/ml
53)	Aroclor 1262 (6)	10.005	469785	48.429 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.951	142949	15.316 ng/ml
56)	Aroclor 1268 (2)	9.421	1478928	37.693 ng/ml
57)	Aroclor 1268 (3)	9.486	463204	14.692 ng/ml
58)	Aroclor 1268 (4)	9.709	569388	21.022 ng/ml
59)	Aroclor 1268 (5)	10.005	469785	44.335 ng/ml
60)	Aroclor 1268 (6)	10.367	3948790	53.739 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 : K:\DATA\9L23020\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 11:27
Operator : MJB / KAK
Sample : A9L0514-33
Misc : 5 1/4/20
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:06:38 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-34
Misc : S 1/4/20
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:06:59 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

1260

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	5.723	50091391	190.947	ng/ml
62)	S	DCBP (S)	10.690	29143866	198.541	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	6.385	40602	4.571	ng/ml
3)		Aroclor 1016 (2)	6.876	169677	10.369	ng/ml
4)		Aroclor 1016 (3)	7.001	194454	26.399	ng/ml
5)		Aroclor 1016 (4)	7.087	456115	61.163	ng/ml
6)		Aroclor 1016 (5)	7.132	280426	33.987	ng/ml
7)		Aroclor 1016 (6)	7.257	201795	24.516	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.878	12541	5.850	ng/ml
10)		Aroclor 1221 (2)	5.981	15380	7.036	ng/ml
11)		Aroclor 1221 (3)	6.067	96585	13.652	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	6.067	96585	16.872	ng/ml
14)		Aroclor 1232 (2)	6.385	40602	11.680	ng/ml
15)		Aroclor 1232 (3)	6.876	169677	26.208	ng/ml
16)		Aroclor 1232 (4)	7.087	456115	191.035	ng/ml
17)		Aroclor 1232 (5)	7.132	280426	102.632	ng/ml
18)		Aroclor 1232 (6)	7.257	201795	68.036	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	6.385	40602	6.197	ng/ml
21)		Aroclor 1242 (2)	6.876	169677	14.341	ng/ml
22)		Aroclor 1242 (3)	7.001	194454	36.811	ng/ml
23)		Aroclor 1242 (4)	7.087	456115	91.356	ng/ml
24)		Aroclor 1242 (5)	7.132	280426	48.232	ng/ml
25)		Aroclor 1242 (6)	7.257	201795	32.573	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.845	150397	20.154	ng/ml
28)		Aroclor 1248 (2)	7.087	456115	48.855	ng/ml
29)		Aroclor 1248 (3)	7.132	280426	31.977	ng/ml
30)		Aroclor 1248 (4)	7.257	201795	19.273	ng/ml
31)		Aroclor 1248 (5)	7.622	399627	30.900	ng/ml
32)		Aroclor 1248 (6)	7.772	16877443	1431.373	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	7.599	1349481	104.408	ng/ml
35)		Aroclor 1254 (2)	7.772	16877443	833.554	ng/ml
36)		Aroclor 1254 (3)	8.078	23536461	1098.413	ng/ml
37)		Aroclor 1254 (4)	8.329	1367815	82.815	ng/ml
38)		Aroclor 1254 (5)	8.665	8051843	513.080	ng/ml
39)		Aroclor 1254 (6)	8.911	4707964	962.745	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	8.227	5264965	333.587	ng/ml
42)		Aroclor 1260 (2)	8.432	9036643	461.672	ng/ml
43)		Aroclor 1260 (3)	8.665	8051843	399.949	ng/ml
44)		Aroclor 1260 (4)	9.155	13188702	426.182	ng/ml
45)		Aroclor 1260 (5)	9.422	6886617	384.788	ng/ml
46)		Aroclor 1260 (6)	10.006	2595610	376.255	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

397.072

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-34
Misc : 5 1/4/20
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:06:59 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

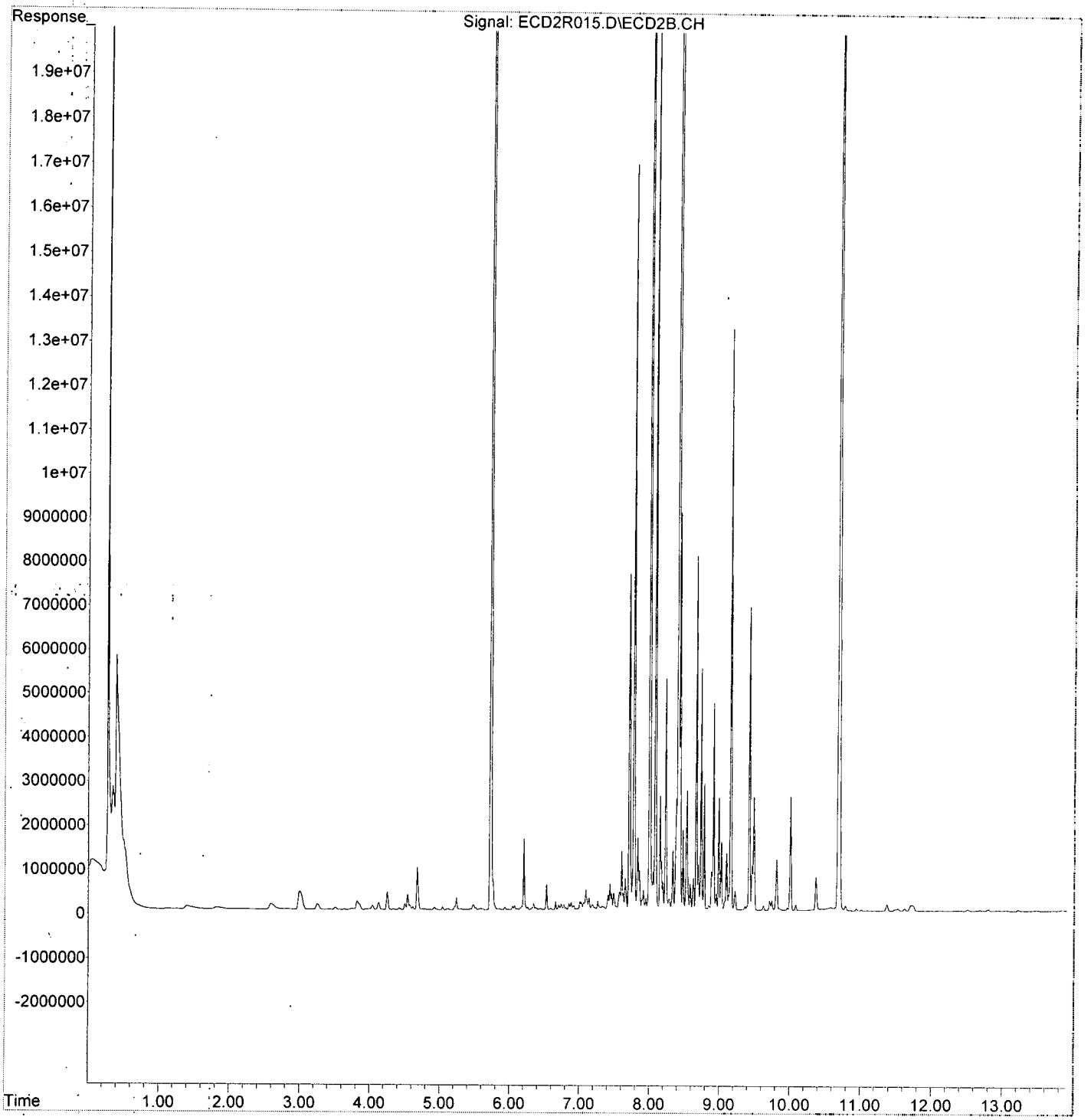
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.432	9036643	597.128 ng/ml
49)	Aroclor 1262 (2)	8.733	5504651	260.215 ng/ml
50)	Aroclor 1262 (3)	8.911	4707964	269.515 ng/ml
51)	Aroclor 1262 (4)	9.155	13188702	368.303 ng/ml
52)	Aroclor 1262 (5)	9.422	6886617	313.529 ng/ml
53)	Aroclor 1262 (6)	10.006	2595610	267.574 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.951	385599	41.314 ng/ml
56)	Aroclor 1268 (2)	9.422	6886617	175.517 ng/ml
57)	Aroclor 1268 (3)	9.486	2582117	81.901 ng/ml
58)	Aroclor 1268 (4)	9.709	218169	8.055 ng/ml
59)	Aroclor 1268 (5)	10.006	2595610	244.957 ng/ml
60)	Aroclor 1268 (6)	10.368	736605	10.024 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 : K:\DATA\9L23020\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 12:02
Operator : MJB / KAK
Sample : A9L0514-34
Misc : S. 1/4/20
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:06:59 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 12:38
Operator : MJB / KAK
Sample : 9L23020-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:07:21 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	5.722	70437707	268.506	ng/ml
62)	S	DCBP (S)	10.691	41772374	284.572	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	6.388	3824188	430.502	ng/ml
3)		Aroclor 1016 (2)	6.878	7044872	430.530	ng/ml
4)		Aroclor 1016 (3)	7.005	3153746	428.159	ng/ml
5)		Aroclor 1016 (4)	7.088	3315413	444.585	ng/ml
6)		Aroclor 1016 (5)	7.133	3734364	452.592	ng/ml
7)		Aroclor 1016 (6)	7.259	3693902	448.774	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.894	281703	131.400	ng/ml
10)		Aroclor 1221 (2)	5.968	486767	222.675	ng/ml
11)		Aroclor 1221 (3)	6.055	2156853	304.864	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	6.055	2156853	376.765	ng/ml
14)		Aroclor 1232 (2)	6.388	3824188	1100.092	ng/ml
15)		Aroclor 1232 (3)	6.878	7044872	1088.137	ng/ml
16)		Aroclor 1232 (4)	7.088	3315413	1388.596	ng/ml
17)		Aroclor 1232 (5)	7.133	3734364	1366.722	ng/ml
18)		Aroclor 1232 (6)	7.259	3693902	1245.407	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	6.388	3824188	583.715	ng/ml
21)		Aroclor 1242 (2)	6.878	7044872	595.422	ng/ml
22)		Aroclor 1242 (3)	7.005	3153746	597.023	ng/ml
23)		Aroclor 1242 (4)	7.088	3315413	664.047	ng/ml
24)		Aroclor 1242 (5)	7.133	3734364	642.298	ng/ml
25)		Aroclor 1242 (6)	7.259	3693902	596.263	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.850	5797842	776.944	ng/ml
28)		Aroclor 1248 (2)	7.088	3315413	355.115	ng/ml
29)		Aroclor 1248 (3)	7.133	3734364	425.831	ng/ml
30)		Aroclor 1248 (4)	7.259	3693902	352.790	ng/ml
31)		Aroclor 1248 (5)	7.623	837750	64.776	ng/ml
32)		Aroclor 1248 (6)	7.781	3155631	267.628	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	7.600	2538095	196.370	ng/ml
35)		Aroclor 1254 (2)	7.781	3155631	155.852	ng/ml
36)		Aroclor 1254 (3)	8.091	1771820	82.688	ng/ml
37)		Aroclor 1254 (4)	8.331	1199967	72.652	ng/ml
38)		Aroclor 1254 (5)	8.665	9769993	622.564	ng/ml
39)		Aroclor 1254 (6)	8.911	7049170	1441.504	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	8.227	7553483	478.587	ng/ml
42)		Aroclor 1260 (2)	8.433	9212681	470.666	ng/ml
43)		Aroclor 1260 (3)	8.665	9769993	485.293	ng/ml
44)		Aroclor 1260 (4)	9.155	15731489	508.350	ng/ml
45)		Aroclor 1260 (5)	9.422	9274360	518.202	ng/ml
46)		Aroclor 1260 (6)	10.005	3474999	503.729	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 12:38
Operator : MJB / KAK
Sample : 9L23020-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:07:21 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

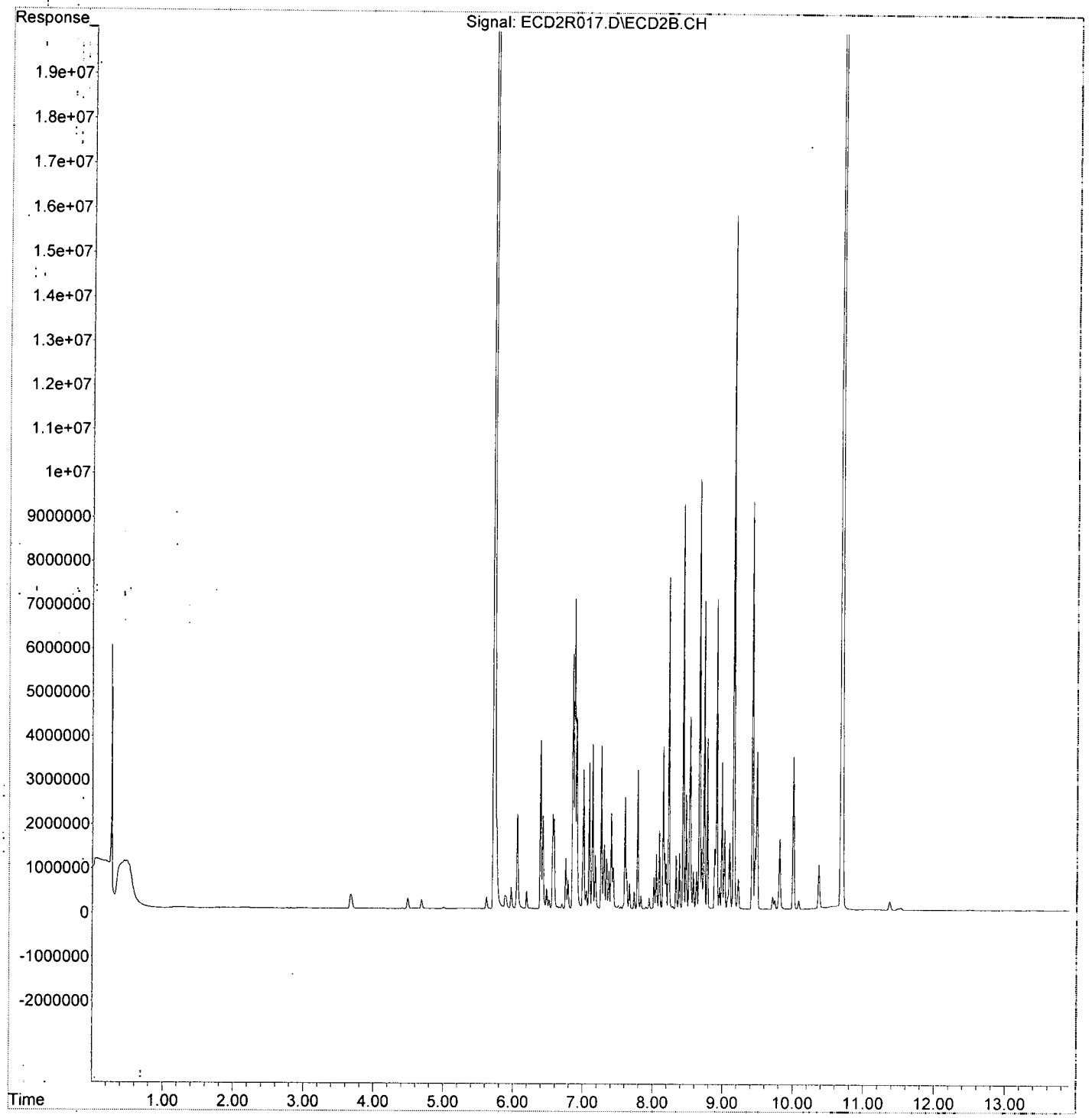
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.433	9212681	608.760 ng/ml
49)	Aroclor 1262 (2)	8.733	7013156	331.524 ng/ml
50)	Aroclor 1262 (3)	8.911	7049170	403.541 ng/ml
51)	Aroclor 1262 (4)	9.155	15731489	439.313 ng/ml
52)	Aroclor 1262 (5)	9.422	9274360	422.237 ng/ml
53)	Aroclor 1262 (6)	10.005	3474999	358.228 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.951	507824	54.410 ng/ml
56)	Aroclor 1268 (2)	9.422	9274360	236.373 ng/ml
57)	Aroclor 1268 (3)	9.487	3580893	113.581 ng/ml
58)	Aroclor 1268 (4)	9.710	284411	10.501 ng/ml
59)	Aroclor 1268 (5)	10.005	3474999	327.948 ng/ml
60)	Aroclor 1268 (6)	10.367	1000921	13.622 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 : K:\DATA\9L23020\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 12:38
Operator : MJB / KAK
Sample : 9L23020-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:07:21 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 12:55
Operator : MJB / KAK
Sample : 9L23020-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:07:43 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

Clear

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.724	26991229	102.890 ng/ml
62) S	DCBP (S)	10.688	15568187	106.057 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.397	3346	0.377 ng/ml
3)	Aroclor 1016 (2)	6.889	2576	0.157 ng/ml
4)	Aroclor 1016 (3)	7.016	1956	0.266 ng/ml
5)	Aroclor 1016 (4)	7.094	2165	0.290 ng/ml
6)	Aroclor 1016 (5)	7.144	2393	0.290 ng/ml
7)	Aroclor 1016 (6)	7.260	1939	0.236 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.945f	11488	5.358 ng/ml
10)	Aroclor 1221 (2)	5.945	11488	5.255 ng/ml
11)	Aroclor 1221 (3)	6.041	47299	6.686 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.041	47299	8.262 ng/ml
14)	Aroclor 1232 (2)	6.397	3346	0.963 ng/ml
15)	Aroclor 1232 (3)	6.889	2576	0.398 ng/ml
16)	Aroclor 1232 (4)	7.094	2165	0.907 ng/ml
17)	Aroclor 1232 (5)	7.144	2393	0.876 ng/ml
18)	Aroclor 1232 (6)	7.260	1939	0.654 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.397	3346	0.511 ng/ml
21)	Aroclor 1242 (2)	6.889	2576	0.218 ng/ml
22)	Aroclor 1242 (3)	7.016	1956	0.370 ng/ml
23)	Aroclor 1242 (4)	7.094	2165	0.434 ng/ml
24)	Aroclor 1242 (5)	7.144	2393	0.412 ng/ml
25)	Aroclor 1242 (6)	7.260	1939	0.313 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.864	2547	0.341 ng/ml
28)	Aroclor 1248 (2)	7.094	2165	0.232 ng/ml
29)	Aroclor 1248 (3)	7.144	2393	0.273 ng/ml
30)	Aroclor 1248 (4)	7.260	1939	0.185 ng/ml
31)	Aroclor 1248 (5)	7.627	1322	0.102 ng/ml
32)	Aroclor 1248 (6)	7.785	2193	0.186 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.593	1471	0.114 ng/ml
35)	Aroclor 1254 (2)	7.785	2193	0.108 ng/ml
36)	Aroclor 1254 (3)	8.101	2775	0.130 ng/ml
37)	Aroclor 1254 (4)	8.333	1352	0.082 ng/ml
38)	Aroclor 1254 (5)	8.672	3221	0.205 ng/ml
39)	Aroclor 1254 (6)	8.894	2055	0.420 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.234	1484	0.094 ng/ml
42)	Aroclor 1260 (2)	8.428	5124	0.262 ng/ml
43)	Aroclor 1260 (3)	8.672	3221	0.160 ng/ml
44)	Aroclor 1260 (4)	9.155	3699	0.120 ng/ml
45)	Aroclor 1260 (5)	9.422	3261	0.182 ng/ml
46)	Aroclor 1260 (6)	10.009	2133	0.309 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 12:55
Operator : MJB / KAK
Sample : 9L23020-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:07:43 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M.
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

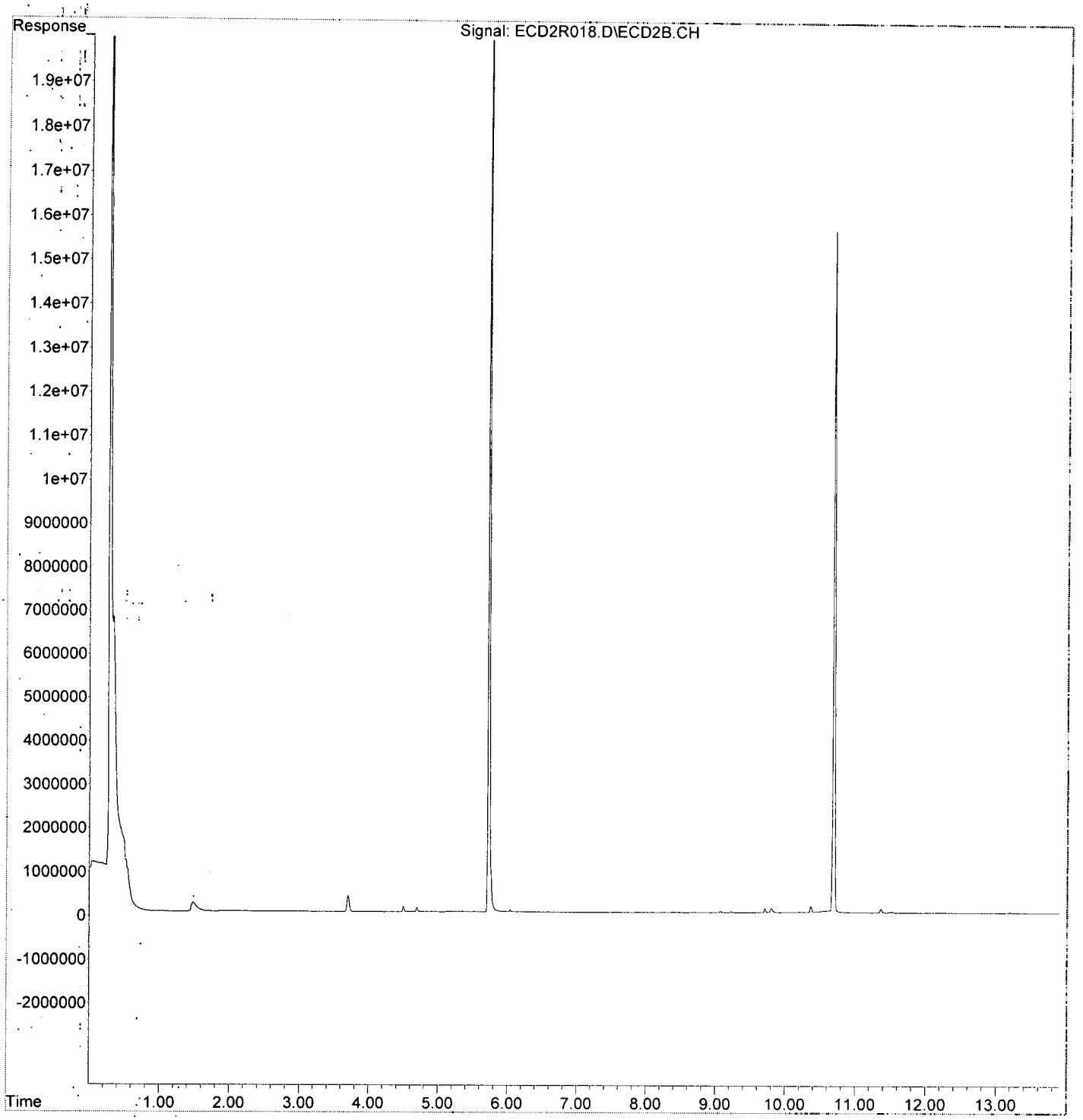
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.428	5124	0.339 ng/ml
49)	Aroclor 1262 (2)	8.732	3911	0.185 ng/ml
50)	Aroclor 1262 (3)	8.909	2285	0.131 ng/ml
51)	Aroclor 1262 (4)	9.155	3699	0.103 ng/ml
52)	Aroclor 1262 (5)	9.422	3261	0.148 ng/ml
53)	Aroclor 1262 (6)	10.009	2133	0.220 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.957	1234	0.132 ng/ml
56)	Aroclor 1268 (2)	9.422	3261	0.083 ng/ml
57)	Aroclor 1268 (3)	9.498	1185	0.038 ng/ml
58)	Aroclor 1268 (4)	9.711	92331	3.409 ng/ml
59)	Aroclor 1268 (5)	10.009	2133	0.201 ng/ml
60)	Aroclor 1268 (6)	10.368	125441	1.707 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 : K:\DATA\9L23020\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 12:55
Operator : MJB / KAK
Sample : 9L23020-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:07:43 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 13:13
Operator : MJB / KAK
Sample : 9L0514-35
Misc : 5 1/8/19
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:08:05 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

1260

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.719	38308917	146.032 ng/ml
62)	S DCBP (S)	10.692	22540658	153.557 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.387	16630	1.872 ng/ml
3)	Aroclor 1016 (2)	6.876	73223	4.475 ng/ml
4)	Aroclor 1016 (3)	7.002	107686	14.620 ng/ml
5)	Aroclor 1016 (4)	7.087	261550	35.073 ng/ml
6)	Aroclor 1016 (5)	7.133	132906	16.108 ng/ml
7)	Aroclor 1016 (6)	7.257	84367	10.250 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.876	6097	2.844 ng/ml
10)	Aroclor 1221 (2)	5.980	6490	2.969 ng/ml
11)	Aroclor 1221 (3)	6.066	58017	8.201 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.066	58017	10.135 ng/ml
14)	Aroclor 1232 (2)	6.387	16630	4.784 ng/ml
15)	Aroclor 1232 (3)	6.876	73223	11.310 ng/ml
16)	Aroclor 1232 (4)	7.087	261550	109.545 ng/ml
17)	Aroclor 1232 (5)	7.133	132906	48.642 ng/ml
18)	Aroclor 1232 (6)	7.257	84367	28.445 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.387	16630	2.538 ng/ml
21)	Aroclor 1242 (2)	6.876	73223	6.189 ng/ml
22)	Aroclor 1242 (3)	7.002	107686	20.386 ng/ml
23)	Aroclor 1242 (4)	7.087	261550	52.386 ng/ml
24)	Aroclor 1242 (5)	7.133	132906	22.859 ng/ml
25)	Aroclor 1242 (6)	7.257	84367	13.618 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.846	63792	8.549 ng/ml
28)	Aroclor 1248 (2)	7.087	261550	28.015 ng/ml
29)	Aroclor 1248 (3)	7.133	132906	15.155 ng/ml
30)	Aroclor 1248 (4)	7.257	84367	8.058 ng/ml
31)	Aroclor 1248 (5)	7.623	181339	14.021 ng/ml
32)	Aroclor 1248 (6)	7.772	7510220	636.940 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.600	962774	74.489 ng/ml
35)	Aroclor 1254 (2)	7.772	7510220	370.919 ng/ml
36)	Aroclor 1254 (3)	8.078	5922062	276.374 ng/ml
37)	Aroclor 1254 (4)	8.330	755810	45.761 ng/ml
38)	Aroclor 1254 (5)	8.665	4382439	279.258 ng/ml
39)	Aroclor 1254 (6)	8.912	2292145	468.727 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.227	3333202	211.191 ng/ml
42)	Aroclor 1260 (2)	8.432	5371454	274.422 ng/ml
43)	Aroclor 1260 (3)	8.665	4382439	217.683 ng/ml
44)	Aroclor 1260 (4)	9.155	5368111	173.466 ng/ml
45)	Aroclor 1260 (5)	9.422	2852495	159.382 ng/ml
46)	Aroclor 1260 (6)	10.006	924761	134.052 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

179.155

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 13:13
Operator : MJB / KAK
Sample : 9L0514-35
Misc : 5 1/6/20
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:08:05 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

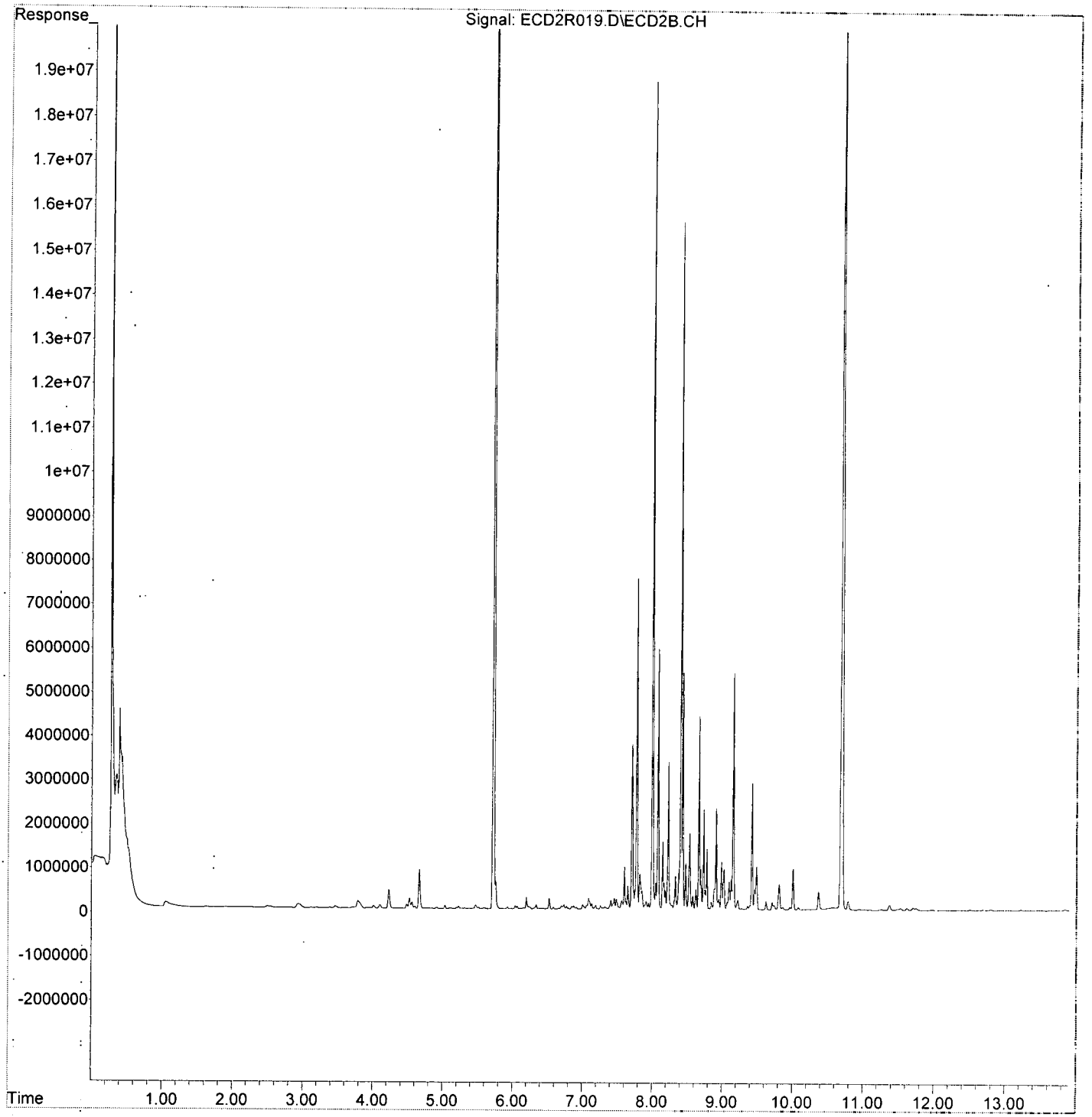
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.432	5371454	354.938 ng/ml
49)	Aroclor 1262 (2)	8.734	2269764	107.296 ng/ml
50)	Aroclor 1262 (3)	8.912	2292145	131.218 ng/ml
51)	Aroclor 1262 (4)	9.155	5368111	149.908 ng/ml
52)	Aroclor 1262 (5)	9.422	2852495	129.867 ng/ml
53)	Aroclor 1262 (6)	10.006	924761	95.331 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.951	243870	26.129 ng/ml
56)	Aroclor 1268 (2)	9.422	2852495	72.701 ng/ml
57)	Aroclor 1268 (3)	9.488	982644	31.168 ng/ml
58)	Aroclor 1268 (4)	9.711	165708	6.118 ng/ml
59)	Aroclor 1268 (5)	10.006	924761	87.273 ng/ml
60)	Aroclor 1268 (6)	10.369	403185	5.487 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 : K:\DATA\9L23020\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 13:13
Operator : MJB / KAK
Sample : 9L0514-35
Misc : 5 1/8/20
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:08:05 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R021.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 13:48
Operator : MJB / KAK
Sample : 9L0514-36
Misc : 5 1/8/20
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:08:27 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

1260

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.717	42952874	163.735 ng/ml
62)	S DCBP (S)	10.693	26365009	179.610 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.385	39692	4.468 ng/ml
3)	Aroclor 1016 (2)	6.875	195989	11.977 ng/ml
4)	Aroclor 1016 (3)	7.002	223402	30.329 ng/ml
5)	Aroclor 1016 (4)	7.087	502177	67.340 ng/ml
6)	Aroclor 1016 (5)	7.133	287822	34.883 ng/ml
7)	Aroclor 1016 (6)	7.257	216357	26.285 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.873	8779	4.095 ng/ml
10)	Aroclor 1221 (2)	5.979	12269	5.613 ng/ml
11)	Aroclor 1221 (3)	6.064	91855	12.983 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.064	91855	16.045 ng/ml
14)	Aroclor 1232 (2)	6.385	39692	11.418 ng/ml
15)	Aroclor 1232 (3)	6.875	195989	30.272 ng/ml
16)	Aroclor 1232 (4)	7.087	502177	210.327 ng/ml
17)	Aroclor 1232 (5)	7.133	287822	105.339 ng/ml
18)	Aroclor 1232 (6)	7.257	216357	72.945 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.385	39692	6.059 ng/ml
21)	Aroclor 1242 (2)	6.875	195989	16.565 ng/ml
22)	Aroclor 1242 (3)	7.002	223402	42.291 ng/ml
23)	Aroclor 1242 (4)	7.087	502177	100.582 ng/ml
24)	Aroclor 1242 (5)	7.133	287822	49.504 ng/ml
25)	Aroclor 1242 (6)	7.257	216357	34.924 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.846	159730	21.405 ng/ml
28)	Aroclor 1248 (2)	7.087	502177	53.788 ng/ml
29)	Aroclor 1248 (3)	7.133	287822	32.820 ng/ml
30)	Aroclor 1248 (4)	7.257	216357	20.663 ng/ml
31)	Aroclor 1248 (5)	7.623	477543	36.924 ng/ml
32)	Aroclor 1248 (6)	7.773	19952326	1692.153 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.599	1427403	110.437 ng/ml
35)	Aroclor 1254 (2)	7.773	19952326	985.418 ng/ml
36)	Aroclor 1254 (3)	8.079	36733264	1714.289 ng/ml
37)	Aroclor 1254 (4)	8.330	1229792	74.458 ng/ml
38)	Aroclor 1254 (5)	8.665	6068586	386.703 ng/ml
39)	Aroclor 1254 (6)	8.912	2961022	605.508 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.228	4400519	278.816 ng/ml
42)	Aroclor 1260 (2)	8.433	6638051	339.131 ng/ml
43)	Aroclor 1260 (3)	8.665	6068586	301.437 ng/ml
44)	Aroclor 1260 (4)	9.155	7261411	234.646 ng/ml
45)	Aroclor 1260 (5)	9.422	4128066	230.654 ng/ml
46)	Aroclor 1260 (6)	10.007	1416224	205.293 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

250.169

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R021.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 13:48
Operator : MJB / KAK
Sample : 9L0514-36
Misc : S 1/8/20
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:08:27 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

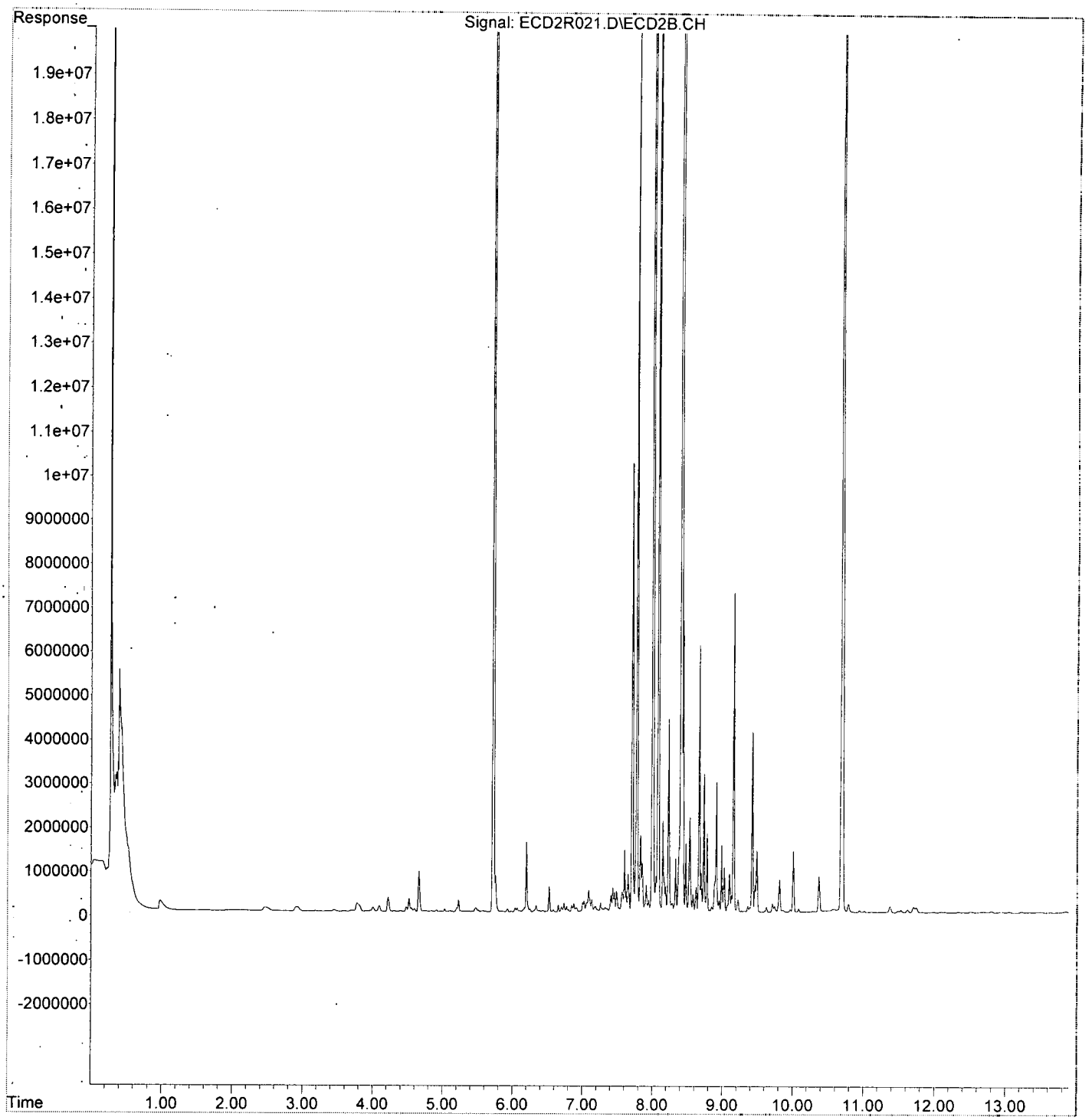
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.433	6638051	438.632 ng/ml
49)	Aroclor 1262 (2)	8.733	3162753	149.509 ng/ml
50)	Aroclor 1262 (3)	8.912	2961022	169.509 ng/ml
51)	Aroclor 1262 (4)	9.155	7261411	202.780 ng/ml
52)	Aroclor 1262 (5)	9.422	4128066	187.940 ng/ml
53)	Aroclor 1262 (6)	10.007	1416224	145.994 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.952	283523	30.377 ng/ml
56)	Aroclor 1268 (2)	9.422	4128066	105.211 ng/ml
57)	Aroclor 1268 (3)	9.488	1427807	45.288 ng/ml
58)	Aroclor 1268 (4)	9.711	217694	8.037 ng/ml
59)	Aroclor 1268 (5)	10.007	1416224	133.654 ng/ml
60)	Aroclor 1268 (6)	10.370	824458	11.220 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 : K:\DATA\9L23020\
Data File : ECD2R021.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 13:48
Operator : MJB / KAK
Sample : 9L0514-36
Misc : 5 1/8/20
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:08:27 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 14:23
Operator : MJB / KAK
Sample : 9L0514-37
Misc : J 1/8/20
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:08:48 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

1260

RR-7

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.715	24390397	92.975 ng/ml
62)	S DCBP (S)	10.693	13611816	92.730 ng/ml 5-06
	Target Compounds			
2)	Aroclor 1016 (1)	6.385	7390	0.832 ng/ml
3)	Aroclor 1016 (2)	6.876	39978	2.443 ng/ml
4)	Aroclor 1016 (3)	7.001	46769	6.349 ng/ml
5)	Aroclor 1016 (4)	7.088	127138	17.049 ng/ml
6)	Aroclor 1016 (5)	7.136	220654	26.743 ng/ml
7)	Aroclor 1016 (6)	7.257	61718	7.498 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.873	5045	2.353 ng/ml
10)	Aroclor 1221 (2)	5.979	3434	1.571 ng/ml
11)	Aroclor 1221 (3)	6.064	13880	1.962 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.064	13880	2.425 ng/ml
14)	Aroclor 1232 (2)	6.385	7390	2.126 ng/ml
15)	Aroclor 1232 (3)	6.876	39978	6.175 ng/ml
16)	Aroclor 1232 (4)	7.088	127138	53.249 ng/ml
17)	Aroclor 1232 (5)	7.136	220654	80.756 ng/ml
18)	Aroclor 1232 (6)	7.257	61718	20.808 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.385	7390	1.128 ng/ml
21)	Aroclor 1242 (2)	6.876	39978	3.379 ng/ml
22)	Aroclor 1242 (3)	7.001	46769	8.854 ng/ml
23)	Aroclor 1242 (4)	7.088	127138	25.465 ng/ml
24)	Aroclor 1242 (5)	7.136	220654	37.952 ng/ml
25)	Aroclor 1242 (6)	7.257	61718	9.962 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.844	40966	5.490 ng/ml
28)	Aroclor 1248 (2)	7.088	127138	13.618 ng/ml
29)	Aroclor 1248 (3)	7.136	220654	25.161 ng/ml
30)	Aroclor 1248 (4)	7.257	61718	5.894 ng/ml
31)	Aroclor 1248 (5)	7.623	132974	10.282 ng/ml
32)	Aroclor 1248 (6)	7.772	6652817	564.224 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.601	232916	18.021 ng/ml
35)	Aroclor 1254 (2)	7.772	6652817	328.573 ng/ml
36)	Aroclor 1254 (3)	8.078	5787211	270.081 ng/ml
37)	Aroclor 1254 (4)	8.330	304155	18.415 ng/ml
38)	Aroclor 1254 (5)	8.665	654742	41.721 ng/ml
39)	Aroclor 1254 (6)	8.911	319751	65.387 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.214	841067 Ø	53.290 ng/ml
42)	Aroclor 1260 (2)	8.431	1650471 Ø	84.321 ng/ml
43)	Aroclor 1260 (3)	8.665	654742	32.522 ng/ml
44)	Aroclor 1260 (4)	9.155	746359	24.118 ng/ml
45)	Aroclor 1260 (5)	9.423	483955	27.041 ng/ml
46)	Aroclor 1260 (6)	10.007	165368	23.971 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

↑MDL

26.913

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 14:23
Operator : MJB / KAK
Sample : 9L0514-37
Misc : J 1/8/20
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:08:48 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

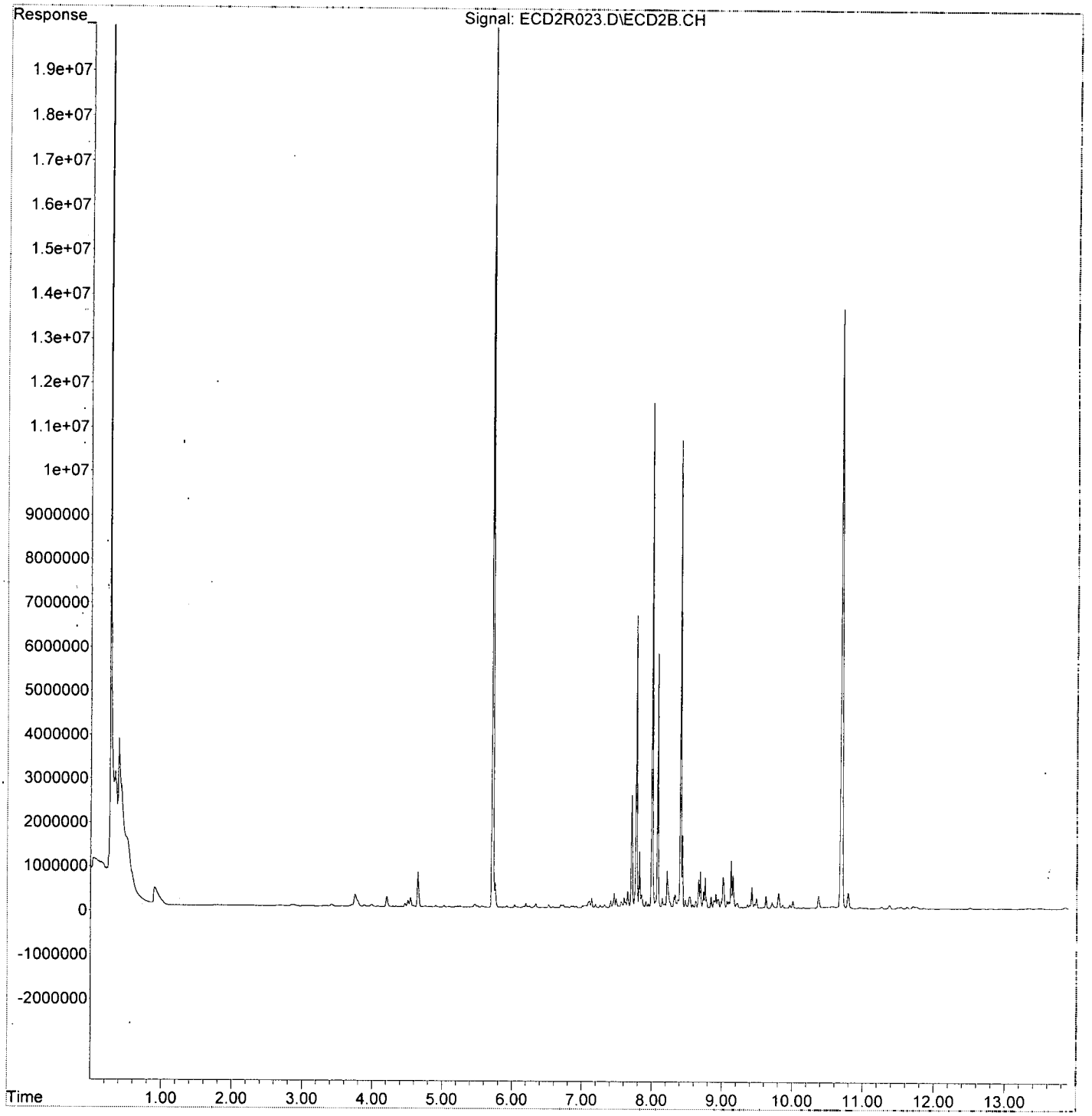
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.431	1650471	109.061 ng/ml
49)	Aroclor 1262 (2)	8.733	373877	17.674 ng/ml
50)	Aroclor 1262 (3)	8.911	319751	18.305 ng/ml
51)	Aroclor 1262 (4)	9.155	746359	20.843 ng/ml
52)	Aroclor 1262 (5)	9.423	483955	22.033 ng/ml
53)	Aroclor 1262 (6)	10.007	165368	17.047 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.949	202748	21.723 ng/ml
56)	Aroclor 1268 (2)	9.423	483955	12.334 ng/ml
57)	Aroclor 1268 (3)	9.490	220425	6.992 ng/ml
58)	Aroclor 1268 (4)	9.711	133148	4.916 ng/ml
59)	Aroclor 1268 (5)	10.007	165368	15.606 ng/ml
60)	Aroclor 1268 (6)	10.370	266106	3.621 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 : K:\DATA\9L23020\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 14:23
Operator : MJB / KAK
Sample : 9L0514-37
Misc : S 1/8/20
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:08:48 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R025.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 14:59
Operator : MJB / KAK
Sample : A9L0514-38
Misc : 5 1/8/20
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:09:10 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

1260

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.717	40391691	153.972	ng/ml
62)	S DCBP (S)	10.695	23242084	158.335	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.385	5709	0.643	ng/ml
3)	Aroclor 1016 (2)	6.876	17525	1.071	ng/ml
4)	Aroclor 1016 (3)	7.005	19507	2.648	ng/ml
5)	Aroclor 1016 (4)	7.105	250316	33.567	ng/ml
6)	Aroclor 1016 (5)	7.137	183533	22.244	ng/ml
7)	Aroclor 1016 (6)	7.258	44836	5.447	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.914	8850	4.128	ng/ml
10)	Aroclor 1221 (2)	5.978	2955	1.352	ng/ml
11)	Aroclor 1221 (3)	6.074	14312	2.023	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.074	14312	2.500	ng/ml
14)	Aroclor 1232 (2)	6.385	5709	1.642	ng/ml
15)	Aroclor 1232 (3)	6.876	17525	2.707	ng/ml
16)	Aroclor 1232 (4)	7.105	250316	104.840	ng/ml
17)	Aroclor 1232 (5)	7.137	183533	67.170	ng/ml
18)	Aroclor 1232 (6)	7.258	44836	15.117	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.385	5709	0.871	ng/ml
21)	Aroclor 1242 (2)	6.876	17525	1.481	ng/ml
22)	Aroclor 1242 (3)	7.005	19507	3.693	ng/ml
23)	Aroclor 1242 (4)	7.105	250316	50.136	ng/ml
24)	Aroclor 1242 (5)	7.137	183533	31.567	ng/ml
25)	Aroclor 1242 (6)	7.258	44836	7.237	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.844	20952	2.808	ng/ml
28)	Aroclor 1248 (2)	7.105	250316	26.811	ng/ml
29)	Aroclor 1248 (3)	7.137	183533	20.928	ng/ml
30)	Aroclor 1248 (4)	7.258	44836	4.282	ng/ml
31)	Aroclor 1248 (5)	7.624	86457	6.685	ng/ml
32)	Aroclor 1248 (6)	7.782	341837	28.991	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.602	188857	14.612	ng/ml
35)	Aroclor 1254 (2)	7.782	341837	16.883	ng/ml
36)	Aroclor 1254 (3)	8.092	284634	13.283	ng/ml
37)	Aroclor 1254 (4)	8.330	244797	14.821	ng/ml
38)	Aroclor 1254 (5)	8.665	766129	48.819	ng/ml
39)	Aroclor 1254 (6)	8.912	404527	82.723	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.214	1827705	115.803	ng/ml
42)	Aroclor 1260 (2)	8.432	3307934	168.999	ng/ml
43)	Aroclor 1260 (3)	8.665	766129	38.055	ng/ml
44)	Aroclor 1260 (4)	9.156	1138077	36.776	ng/ml
45)	Aroclor 1260 (5)	9.424	996744	55.693	ng/ml
46)	Aroclor 1260 (6)	10.008	299293	43.385	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

↑MDL

43.471

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R025.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 14:59
Operator : MJB / KAK
Sample : A9L0514-38
Misc : 5 1/8/20
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:09:10 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

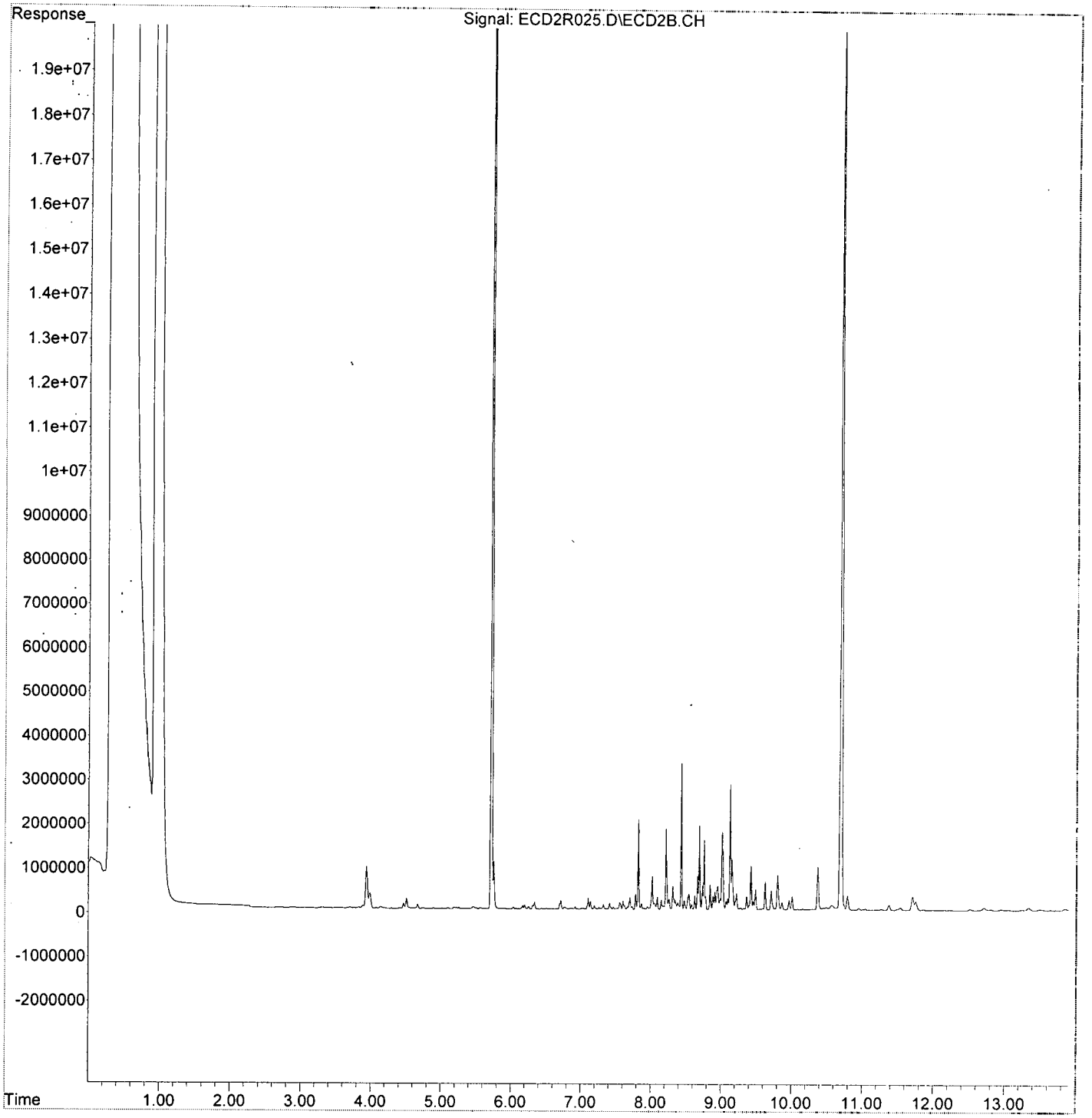
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.432	3307934	218.583 ng/ml
49)	Aroclor 1262 (2)	8.734	539535	25.505 ng/ml
50)	Aroclor 1262 (3)	8.912	404527	23.158 ng/ml
51)	Aroclor 1262 (4)	9.156	1138077	31.782 ng/ml
52)	Aroclor 1262 (5)	9.424	996744	45.379 ng/ml
53)	Aroclor 1262 (6)	10.008	299293	30.853 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.951	537692	57.610 ng/ml
56)	Aroclor 1268 (2)	9.424	996744	25.404 ng/ml
57)	Aroclor 1268 (3)	9.490	460123	14.594 ng/ml
58)	Aroclor 1268 (4)	9.712	434651	16.048 ng/ml
59)	Aroclor 1268 (5)	10.008	299293	28.245 ng/ml
60)	Aroclor 1268 (6)	10.371	970906	13.213 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 : K:\DATA\9L23020\
Data File : ECD2R025.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 14:59
Operator : MJB / KAK
Sample : A9L0514-38
Misc : J 1/8/20
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:09:10 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R027.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 15:34
Operator : MJB / KAK
Sample : A9L0514-39
Misc : J MJB 1/8/20
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:09:32 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	5.718	38036424	144.994	ng/ml
62)	S	DCBP (S)	10.692	21672111	147.640	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	6.385	5337	0.601	ng/ml
3)		Aroclor 1016 (2)	6.875	19068	1.165	ng/ml
4)		Aroclor 1016 (3)	7.017	21806	2.960	ng/ml
5)		Aroclor 1016 (4)	7.105	69988	9.385	ng/ml
6)		Aroclor 1016 (5)	7.137	162924	19.746	ng/ml
7)		Aroclor 1016 (6)	7.257	16699	2.029	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.873	8986	4.192	ng/ml
10)		Aroclor 1221 (2)	5.978	2624	1.200	ng/ml
11)		Aroclor 1221 (3)	6.074	8305	1.174	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	6.074	8305	1.451	ng/ml
14)		Aroclor 1232 (2)	6.385	5337	1.535	ng/ml
15)		Aroclor 1232 (3)	6.875	19068	2.945	ng/ml
16)		Aroclor 1232 (4)	7.105	69988	29.313	ng/ml
17)		Aroclor 1232 (5)	7.137	162924	59.628	ng/ml
18)		Aroclor 1232 (6)	7.257	16699	5.630	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	6.385	5337	0.815	ng/ml
21)		Aroclor 1242 (2)	6.875	19068	1.612	ng/ml
22)		Aroclor 1242 (3)	7.017	21806	4.128	ng/ml
23)		Aroclor 1242 (4)	7.105	69988	14.018	ng/ml
24)		Aroclor 1242 (5)	7.137	162924	28.022	ng/ml
25)		Aroclor 1242 (6)	7.257	16699	2.696	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.846	15086	2.022	ng/ml
28)		Aroclor 1248 (2)	7.105	69988	7.496	ng/ml
29)		Aroclor 1248 (3)	7.137	162924	18.578	ng/ml
30)		Aroclor 1248 (4)	7.257	16699	1.595	ng/ml
31)		Aroclor 1248 (5)	7.604	32353	2.502	ng/ml
32)		Aroclor 1248 (6)	7.781	63310	5.369	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	7.604	32353	2.503	ng/ml
35)		Aroclor 1254 (2)	7.781	63310	3.127	ng/ml
36)		Aroclor 1254 (3)	8.091	64246	2.998	ng/ml
37)		Aroclor 1254 (4)	8.348	39373	2.384	ng/ml
38)		Aroclor 1254 (5)	8.665	95299	6.073	ng/ml
39)		Aroclor 1254 (6)	8.911	59024	12.070	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	8.213	514918	32.625	ng/ml
42)		Aroclor 1260 (2)	8.431	881915	45.056	ng/ml
43)		Aroclor 1260 (3)	8.665	95299	4.734	ng/ml
44)		Aroclor 1260 (4)	9.153	150472	4.862	ng/ml
45)		Aroclor 1260 (5)	9.423	273948	15.307	ng/ml
46)		Aroclor 1260 (6)	10.006	61465	8.910	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R027.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 15:34
Operator : MJB / KAK
Sample : A9L0514-39
Misc : 5 1/8/20
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:09:32 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

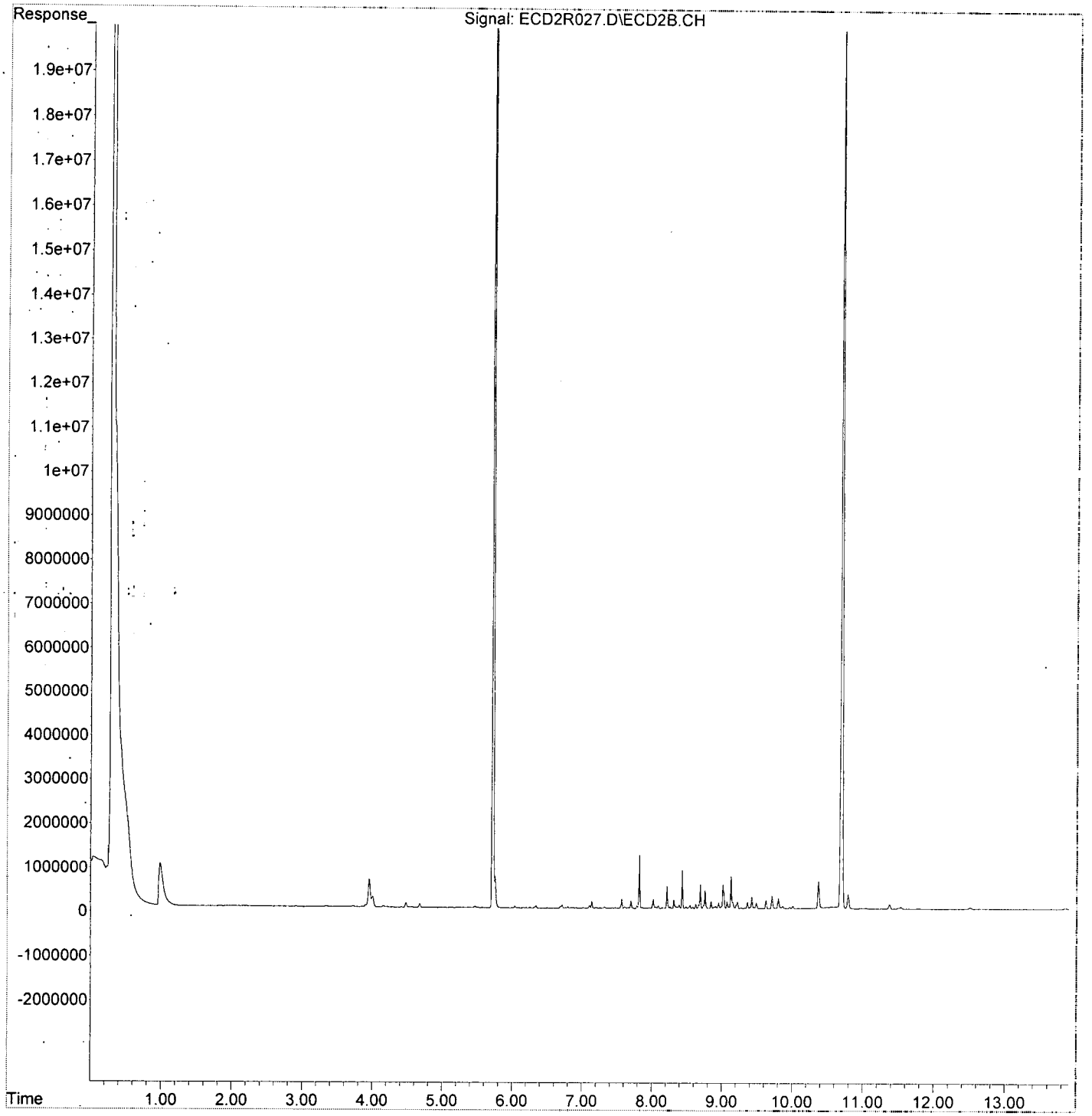
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.431	881915	58.276 ng/ml
49)	Aroclor 1262 (2)	8.734	85569	4.045 ng/ml
50)	Aroclor 1262 (3)	8.911	59024	3.379 ng/ml
51)	Aroclor 1262 (4)	9.153	150472	4.202 ng/ml
52)	Aroclor 1262 (5)	9.423	273948	12.472 ng/ml
53)	Aroclor 1262 (6)	10.006	61465	6.336 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.951	142524	15.270 ng/ml
56)	Aroclor 1268 (2)	9.423	273948	6.982 ng/ml
57)	Aroclor 1268 (3)	9.489	131966	4.186 ng/ml
58)	Aroclor 1268 (4)	9.710	290605	10.729 ng/ml
59)	Aroclor 1268 (5)	10.006	61465	5.801 ng/ml
60)	Aroclor 1268 (6)	10.369	610996	8.315 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 : K:\DATA\9L23020\
Data File : ECD2R027.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 15:34
Operator : MJB / KAK
Sample : A9L0514-39
Misc : 5 1/8/20
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:09:32 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R029.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 16:10
Operator : MJB / KAK
Sample : A9L0514-40
Misc : S 1/8/20
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:09:54 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

		Compound	R.T.	Response	Conc	Units
System Monitoring Compounds						
1)	S	TCMX (S)	5.721	39755769	151.548	ng/ml
62)	S	DCBP (S)	10.692	20774589	141.525	ng/ml
Target Compounds						
2)		Aroclor 1016 (1)	6.384	3223	0.363	ng/ml
3)		Aroclor 1016 (2)	6.860	6234	0.381	ng/ml
4)		Aroclor 1016 (3)	7.018	15670	2.127	ng/ml
5)		Aroclor 1016 (4)	7.106	50862	6.820	ng/ml
6)		Aroclor 1016 (5)	7.137	75214	9.116	ng/ml
7)		Aroclor 1016 (6)	7.257	6118	0.743	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.902	4976	2.321	ng/ml
10)		Aroclor 1221 (2)	5.980	2828	1.294	ng/ml
11)		Aroclor 1221 (3)	6.038	40834	5.772	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	6.038	40834	7.133	ng/ml
14)		Aroclor 1232 (2)	6.384	3223	0.927	ng/ml
15)		Aroclor 1232 (3)	6.860	6234	0.963	ng/ml
16)		Aroclor 1232 (4)	7.106	50862	21.302	ng/ml
17)		Aroclor 1232 (5)	7.137	75214	27.527	ng/ml
18)		Aroclor 1232 (6)	7.257	6118	2.063	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	6.384	3223	0.492	ng/ml
21)		Aroclor 1242 (2)	6.860	6234	0.527	ng/ml
22)		Aroclor 1242 (3)	7.018	15670	2.966	ng/ml
23)		Aroclor 1242 (4)	7.106	50862	10.187	ng/ml
24)		Aroclor 1242 (5)	7.137	75214	12.937	ng/ml
25)		Aroclor 1242 (6)	7.257	6118	0.988	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.860	6234	0.835	ng/ml
28)		Aroclor 1248 (2)	7.106	50862	5.448	ng/ml
29)		Aroclor 1248 (3)	7.137	75214	8.577	ng/ml
30)		Aroclor 1248 (4)	7.257	6118	0.584	ng/ml
31)		Aroclor 1248 (5)	7.614	15212	1.176	ng/ml
32)		Aroclor 1248 (6)	7.782	20427	1.732	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	7.614	15212	1.177	ng/ml
35)		Aroclor 1254 (2)	7.782	20427	1.009	ng/ml
36)		Aroclor 1254 (3)	8.091	18975	0.886	ng/ml
37)		Aroclor 1254 (4)	8.329	14115	0.855	ng/ml
38)		Aroclor 1254 (5)	8.663	23513	1.498	ng/ml
39)		Aroclor 1254 (6)	8.909	17190	3.515	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	8.227	13665	0.866	ng/ml
42)		Aroclor 1260 (2)	8.433	22303	1.139	ng/ml
43)		Aroclor 1260 (3)	8.663	23513	1.168	ng/ml
44)		Aroclor 1260 (4)	9.155	36421	1.177	ng/ml
45)		Aroclor 1260 (5)	9.422	66284	3.704	ng/ml
46)		Aroclor 1260 (6)	10.006	23521	3.410	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R029.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 16:10
Operator : MJB / KAK
Sample : A9L0514-40
Misc : 5 1/18/20
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:09:54 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

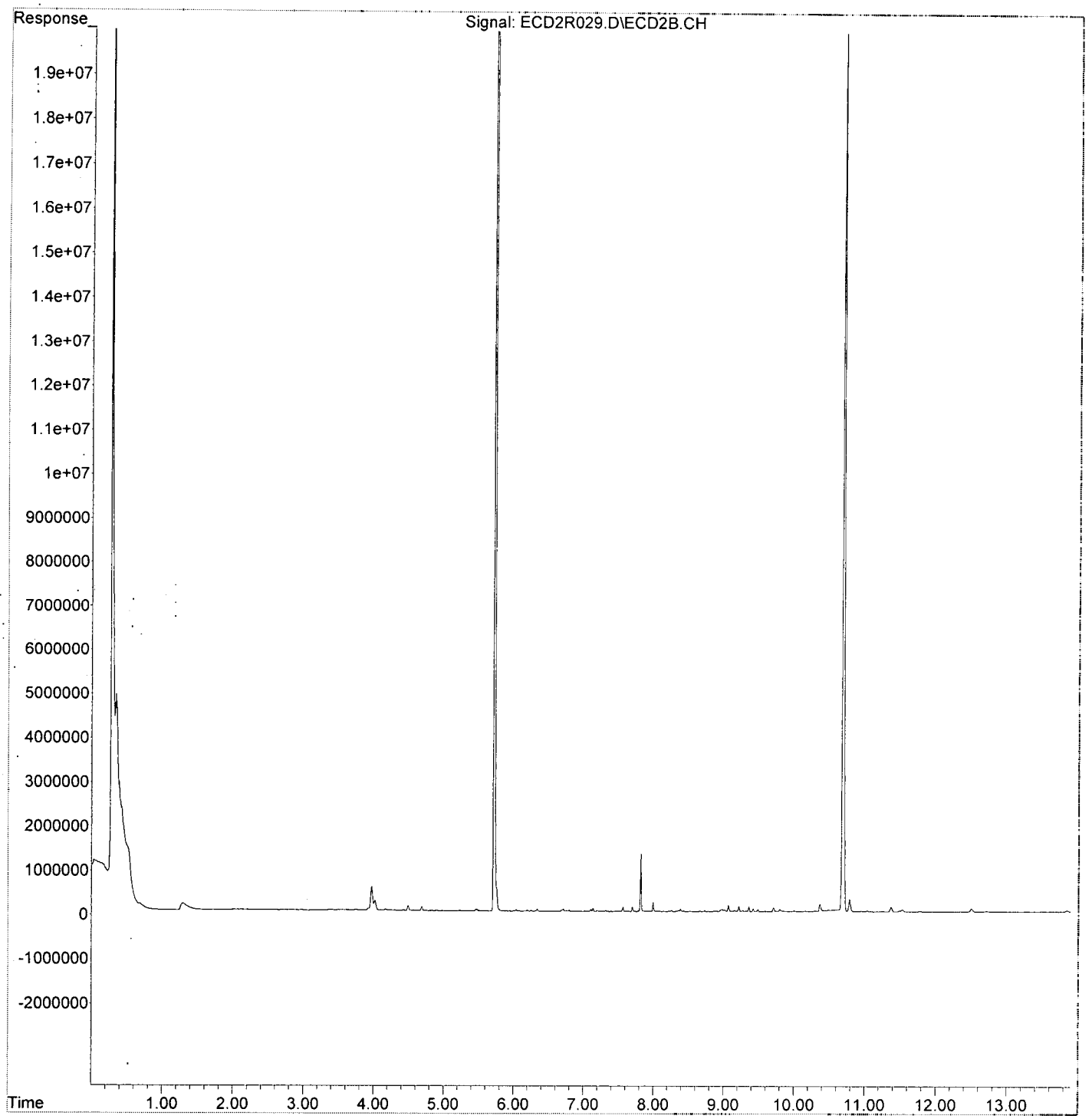
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.433	22303	1.474 ng/ml
49)	Aroclor 1262 (2)	8.732	27243	1.288 ng/ml
50)	Aroclor 1262 (3)	8.909	17190	0.984 ng/ml
51)	Aroclor 1262 (4)	9.155	36421	1.017 ng/ml
52)	Aroclor 1262 (5)	9.422	66284	3.018 ng/ml
53)	Aroclor 1262 (6)	10.006	23521	2.425 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.978	43621	4.674 ng/ml
56)	Aroclor 1268 (2)	9.422	66284	1.689 ng/ml
57)	Aroclor 1268 (3)	9.489	49855	1.581 ng/ml
58)	Aroclor 1268 (4)	9.710	93209	3.441 ng/ml
59)	Aroclor 1268 (5)	10.006	23521	2.220 ng/ml
60)	Aroclor 1268 (6)	10.368	153318	2.087 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 : K:\DATA\9L23020\
Data File : ECD2R029.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 16:10
Operator : MJB / KAK
Sample : A9L0514-40
Misc : 5 1/8/20
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:09:54 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R031.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 16:45
Operator : MJB / KAK
Sample : 9L23020-CCV3
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:10:16 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/18/20

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	5.718	70846883	270.066	ng/ml	Q-A1
62)	S DCBP (S)	10.693	44990581	306.495	ng/ml	Q-A1
	Target Compounds					
2)	Aroclor 1016 (1)	6.388	4115178	463.260	ng/ml	
3)	Aroclor 1016 (2)	6.878	7477971	456.997	ng/ml	✓
4)	Aroclor 1016 (3)	7.005	3297802	447.716	ng/ml	
5)	Aroclor 1016 (4)	7.088	3537065	474.308	ng/ml	
6)	Aroclor 1016 (5)	7.134	3936495	477.089	ng/ml	
7)	Aroclor 1016 (6)	7.260	3855119	468.361	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.892	294881	137.547	ng/ml	
10)	Aroclor 1221 (2)	5.966	496343	227.055	ng/ml	
11)	Aroclor 1221 (3)	6.053	2243333	317.088	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	6.053	2243333	391.871	ng/ml	
14)	Aroclor 1232 (2)	6.388	4115178	1183.801	ng/ml	
15)	Aroclor 1232 (3)	6.878	7477971	1155.032	ng/ml	
16)	Aroclor 1232 (4)	7.088	3537065	1481.431	ng/ml	
17)	Aroclor 1232 (5)	7.134	3936495	1440.699	ng/ml	
18)	Aroclor 1232 (6)	7.260	3855119	1299.761	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	6.388	4115178	628.131	ng/ml	
21)	Aroclor 1242 (2)	6.878	7477971	632.026	ng/ml	
22)	Aroclor 1242 (3)	7.005	3297802	624.294	ng/ml	
23)	Aroclor 1242 (4)	7.088	3537065	708.442	ng/ml	
24)	Aroclor 1242 (5)	7.134	3936495	677.064	ng/ml	
25)	Aroclor 1242 (6)	7.260	3855119	622.287	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.850	5957467	798.334	ng/ml	
28)	Aroclor 1248 (2)	7.088	3537065	378.857	ng/ml	
29)	Aroclor 1248 (3)	7.134	3936495	448.881	ng/ml	
30)	Aroclor 1248 (4)	7.260	3855119	368.187	ng/ml	
31)	Aroclor 1248 (5)	7.625	860752	66.555	ng/ml	
32)	Aroclor 1248 (6)	7.781	3324695	281.967	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	7.601	2688751	208.026	ng/ml	
35)	Aroclor 1254 (2)	7.781	3324695	164.202	ng/ml	
36)	Aroclor 1254 (3)	8.093	1893505	88.367	ng/ml	
37)	Aroclor 1254 (4)	8.332	1309216	79.267	ng/ml	
38)	Aroclor 1254 (5)	8.666	10650273	678.657	ng/ml	
39)	Aroclor 1254 (6)	8.912	7472491	1528.071	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	8.228	8128833	515.042	ng/ml	
42)	Aroclor 1260 (2)	8.433	10111302	516.575	ng/ml	
43)	Aroclor 1260 (3)	8.666	10650273	529.018	ng/ml	✓
44)	Aroclor 1260 (4)	9.156	16591377	536.136	ng/ml	
45)	Aroclor 1260 (5)	9.423	10032592	560.568	ng/ml	
46)	Aroclor 1260 (6)	10.007	3785630	548.758	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L23020\
Data File : ECD2R031.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 16:45
Operator : MJB / KAK
Sample : 9L23020-CCV3
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:10:16 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

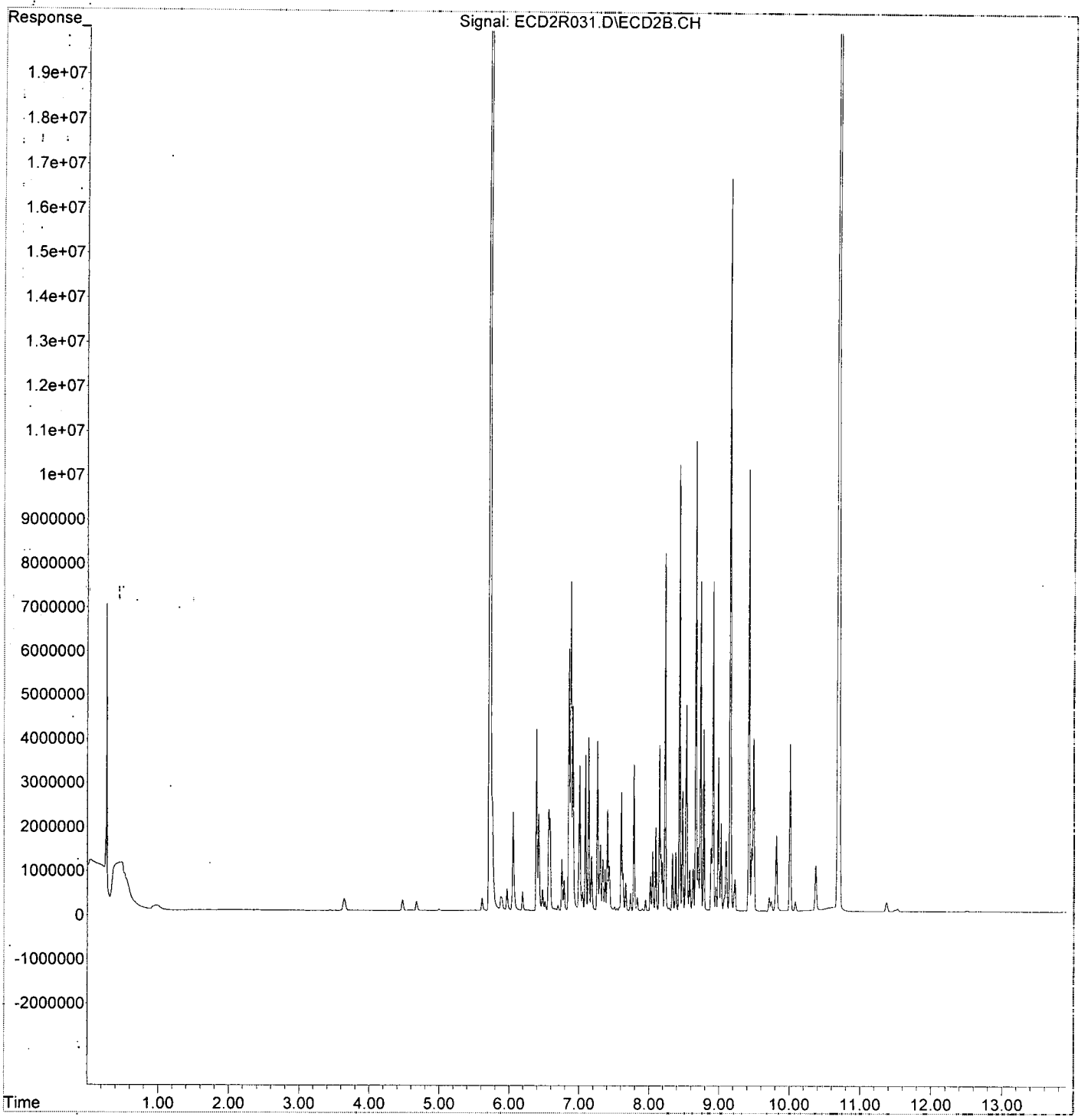
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.433	10111302	668.140 ng/ml
49)	Aroclor 1262 (2)	8.734	7479799	353.584 ng/ml
50)	Aroclor 1262 (3)	8.912	7472491	427.775 ng/ml
51)	Aroclor 1262 (4)	9.156	16591377	463.325 ng/ml
52)	Aroclor 1262 (5)	9.423	10032592	456.757 ng/ml
53)	Aroclor 1262 (6)	10.007	3785630	390.250 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.952	547693	58.681 ng/ml
56)	Aroclor 1268 (2)	9.423	10032592	255.697 ng/ml
57)	Aroclor 1268 (3)	9.489	3932955	124.748 ng/ml
58)	Aroclor 1268 (4)	9.711	315173	11.636 ng/ml
59)	Aroclor 1268 (5)	10.007	3785630	357.264 ng/ml
60)	Aroclor 1268 (6)	10.369	999555	13.603 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 : K:\DATA\9L23020\
Data File : ECD2R031.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 16:45
Operator : MJB / KAK
Sample : 9L23020-CCV3
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 23 17:10:16 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\9L23020\
Data File : ECD2R032.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 17:02
Operator : MJB / KAK
Sample : 9L23020-CCB3
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 12:05:39 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/8/20

clean

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.719	27299333	104.064 ng/ml
62) S	DCBP (S)	10.692	18087089	123.217 ng/ml 5-06
	Target Compounds			
2)	Aroclor 1016 (1)	6.393	4211	0.474 ng/ml
3)	Aroclor 1016 (2)	6.884	3431	0.210 ng/ml
4)	Aroclor 1016 (3)	7.014	2364	0.321 ng/ml
5)	Aroclor 1016 (4)	7.089	2051	0.275 ng/ml
6)	Aroclor 1016 (5)	7.139	2222	0.269 ng/ml
7)	Aroclor 1016 (6)	7.266	2018	0.245 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.938f	13113	6.116 ng/ml
10)	Aroclor 1221 (2)	5.969	11061	5.060 ng/ml
11)	Aroclor 1221 (3)	6.037	50745	7.173 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.037	50745	8.864 ng/ml
14)	Aroclor 1232 (2)	6.393	4211	1.211 ng/ml
15)	Aroclor 1232 (3)	6.884	3431	0.530 ng/ml
16)	Aroclor 1232 (4)	7.098	2100	0.880 ng/ml
17)	Aroclor 1232 (5)	7.139	2222	0.813 ng/ml
18)	Aroclor 1232 (6)	7.266	2018	0.681 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.393	4211	0.643 ng/ml
21)	Aroclor 1242 (2)	6.884	3431	0.290 ng/ml
22)	Aroclor 1242 (3)	7.014	2364	0.447 ng/ml
23)	Aroclor 1242 (4)	7.089	2051	0.411 ng/ml
24)	Aroclor 1242 (5)	7.139	2222	0.382 ng/ml
25)	Aroclor 1242 (6)	7.266	2018	0.326 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.840	1008	0.135 ng/ml
28)	Aroclor 1248 (2)	7.089	2051	0.220 ng/ml
29)	Aroclor 1248 (3)	7.139	2222	0.253 ng/ml
30)	Aroclor 1248 (4)	7.266	2018	0.193 ng/ml
31)	Aroclor 1248 (5)	7.626	1375	0.106 ng/ml
32)	Aroclor 1248 (6)	7.784	3335	0.283 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.601	1243	0.096 ng/ml
35)	Aroclor 1254 (2)	7.784	3335	0.165 ng/ml
36)	Aroclor 1254 (3)	8.117	3371	0.157 ng/ml
37)	Aroclor 1254 (4)	8.335	2644	0.160 ng/ml
38)	Aroclor 1254 (5)	8.664	2028	0.129 ng/ml
39)	Aroclor 1254 (6)	8.898	2574	0.526 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.229	2381	0.151 ng/ml
42)	Aroclor 1260 (2)	8.441	4540	0.232 ng/ml
43)	Aroclor 1260 (3)	8.664	2028	0.101 ng/ml
44)	Aroclor 1260 (4)	9.151	3647	0.118 ng/ml
45)	Aroclor 1260 (5)	9.428	3198	0.179 ng/ml
46)	Aroclor 1260 (6)	10.012	2146	0.311 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\9L23020\
Data File : ECD2R032.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 17:02
Operator : MJB / KAK
Sample : 9L23020-CCB3
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 12:05:39 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

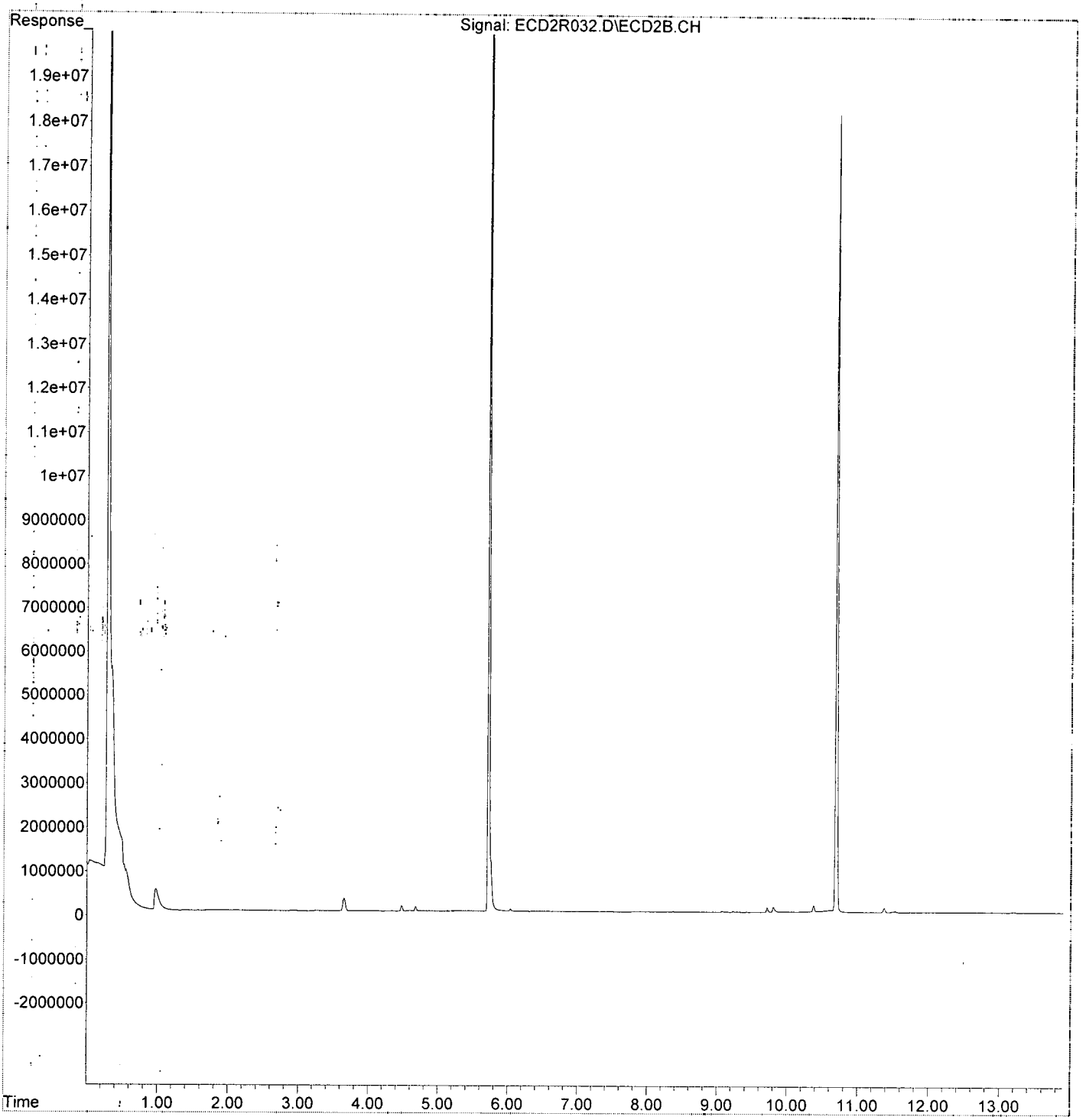
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.441	4540	0.300 ng/ml
49)	Aroclor 1262 (2)	8.734	1455	0.069 ng/ml
50)	Aroclor 1262 (3)	8.915	2280	0.131 ng/ml
51)	Aroclor 1262 (4)	9.151	3647	0.102 ng/ml
52)	Aroclor 1262 (5)	9.428	3198	0.146 ng/ml
53)	Aroclor 1262 (6)	10.012	2146	0.221 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.957	2100	0.225 ng/ml
56)	Aroclor 1268 (2)	9.428	3198	0.082 ng/ml
57)	Aroclor 1268 (3)	9.496	1926	0.061 ng/ml
58)	Aroclor 1268 (4)	9.713	103499	3.821 ng/ml
59)	Aroclor 1268 (5)	10.012	2146	0.202 ng/ml
60)	Aroclor 1268 (6)	10.372	134282	1.827 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 : C:\msdchem\1\data\9L23020\
Data File : ECD2R032.D
Signal(s) : ECD2B.CH
Acq On : 23 Dec 2019 17:02
Operator : MJB / KAK
Sample : 9L23020-CCB3
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 08 12:05:39 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
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

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data

Batch 0010436
Sequence 0A16014 (A9J0514-31RE1,37RE1)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010436 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0010436-BLK1		QC	01/15/20 10:24	31	2				100					
	0010436-BSD1		QC	01/15/20 11:34	30	2	A20A036		100	100					
	0010436-BS1		QC	01/15/20 10:24	30	2	A20A036		100	100					
	A9J0514-31RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.58	2				100	PDI-066SC-B-06-08-191011	Re-extract added 1/14/2020 by KAK			
	A9J0514-37RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.84	2				100	PDI-092SC-B-00-02-191011	Re-extract added 1/14/2020 by KAK			
	A9J0558-12RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.45	5				100	PDI-073SC-B-00-02-191013	Re-extract added 1/14/2020 by KAK			
	A9J0594-13RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.81	2				100	PDI-026SC-B-02-04-191014	Re-extract added 1/14/2020 by KAK			
	A9J0594-14RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.23	2				100	PDI-026SC-B-04-06-191014	Re-extract added 1/14/2020 by KAK			
	A9J0599-15RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.8	2				100	PDI-049SC-B-00-02-191015	Re-extract added 1/14/2020 by KAK			
	A9J0599-16RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 15:43	30.45	2				100	PDI-049SC-B-02-04-191015	Added 1/15/2020 By MKZ			
	A9J0599-30RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 15:43	30.21	2				100	PDI-052SC-B-00-02-191015	Re-extract added 1/15/2020 by KAK			
	A9J0599-31RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 15:43	30.35	2				100	PDI-052SC-B-02-04-191015	Re-extract added 1/15/2020 by KAK			
	A9J0599-46RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.12	2				100	PDI-055SC-B-02-04-191015	Re-extract added 1/14/2020 by KAK			
	A9J0716-26RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.61	2				100	PDI-059SC-B-02-04-191016	Needs to be thawed Added 1/13/2020 By MKZ due to low surrogate			
	A9J0903-05RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.1	2				100	PDI-057SC-A-04-05-191023	Re-extract added 1/14/2020 by KAK			

Standards/Reagents

Prepared By: Date

Reviewed By: 1/16/20 Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010436 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19C104	09/03/23	Florisil Lot 817211-CM
A19G279	01/18/20	Sulfuric Acid
A19H411	08/31/21	n-Hexane Lot# 192712
A19I211	05/07/22	Copper, Granular Lot# J260003
A19I263	03/18/20	DCM CHEM PROD. 194934
A19L136	06/06/20	Sodium Sulfate Lot # 194950

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A036	07/03/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19L272	06/20/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010436 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0010436-BLK1		QC	01/15/20 10:24	31	2				100					
	0010436-BSD1		QC	01/15/20 11:34	30	2	A20A036		100	100					
	0010436-BS1		QC	01/15/20 10:24	30	2	A20A036		100	100					
	A9J0514-31RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.58	2				100	PDI-066SC-B-06-08-191011	Re-extract added 1/14/2020 by KAK			
	A9J0514-37RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.84	2				100	PDI-092SC-B-00-02-191011	Re-extract added 1/14/2020 by KAK			
	A9J0558-12RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.45	2				100	PDI-073SC-B-00-02-191013	Re-extract added 1/14/2020 by KAK			
	A9J0594-13RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.81	2				100	PDI-026SC-B-02-04-191014	Re-extract added 1/14/2020 by KAK			
	A9J0594-14RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.23	2				100	PDI-026SC-B-04-06-191014	Re-extract added 1/14/2020 by KAK			
	A9J0599-15RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.8	2				100	PDI-049SC-B-00-02-191015	Re-extract added 1/14/2020 by KAK			
	A9J0599-16RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 15:43	~~30~~ 30.45	2				100	PDI-049SC-B-02-04-191015	Added 1/15/2020 By MKZ Mud Odor ✱			
	A9J0599-30RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 15:43	~~30~~ 30.21	2				100	PDI-052SC-B-00-02-191015	Re-extract added 1/15/2020 by KAK Mud ✱			
	A9J0599-31RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 15:43	~~30~~ 30.33	2				100	PDI-052SC-B-02-04-191015	Re-extract added 1/15/2020 by KAK Mud ✱			
	A9J0599-46RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.12	2				100	PDI-055SC-B-02-04-191015	Re-extract added 1/14/2020 by KAK			
	A9J0716-26RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.61	2				100	PDI-059SC-B-02-04-191016	Needs to be thawed Added 1/13/2020 By MKZ due to low surrogate			
	A9J0903-05RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30.1	2				100	PDI-057SC-A-04-05-191023	Re-extract added 1/14/2020 by KAK			

Standards/Reagents

✱ = Stirring On Turbo Cap

Prepared By: [signature] Date: 1/15/20

Reviewed By: [signature] Date: 1/16/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010436 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH other	pH >11

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19C104	09/03/23	Florisil Lot 817211-CM
A19G279	01/18/20	Sulfuric Acid
A19H411	08/31/21	n-Hexane Lot# 192712
A19I211	05/07/22	Copper, Granular Lot# J260003
A19I263	03/18/20	DCM CHEM PROD. 194934
A19L136	06/06/20	Sodium Sulfate Lot # 194950

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A036	07/03/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19L272	06/20/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010436 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
1/2	0010436-BLK1		QC	01/15/20 10:24	~~30~~ 31	2				100					
3/4	0010436-BS1		QC	01/15/20 10:24	30	2	A20A036		100	100					
5/6	A9J0514-31RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	~~30~~ 30.58	2				100	PDI-066SC-B-06 -08-191011	Re-extract added 1/14/2020 by KAK Mud Odor #			
7/8	A9J0514-37RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	~~30~~ 30.84	2				100	PDI-092SC-B-00 -02-191011	Re-extract added 1/14/2020 by KAK Mud #			
9/10	A9J0558-12RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	~~30~~ 30.45	~~2~~ 5				100	PDI-073SC-B-00 -02-191013	Re-extract added 1/14/2020 by KAK Mud Odor #			
11/12	A9J0594-13RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	~~30~~ 30.81	2				100	PDI-026SC-B-02 -04-191014	Re-extract added 1/14/2020 by KAK Mud Odor #			
13/14	A9J0594-14RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	~~30~~ 30.23	2				100	PDI-026SC-B-04 -06-191014	Re-extract added 1/14/2020 by KAK Dirt Odor #			
15/16	A9J0599-15RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	~~30~~ 30.80	2				100	PDI-049SC-B-00 -02-191015	Re-extract added 1/14/2020 by KAK Mud #			
17/18	A9J0599-46RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	~~30~~ 30.12	2				100	PDI-055SC-B-02 -04-191015	Re-extract added 1/14/2020 by KAK Mud #			
19/20	A9J0716-26RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30 30.61	2				100	PDI-059SC-B-02 -04-191016	Needs to be thawed Added 1/13/2020 By MKZ due to low surrogate dirt #			
21/22	A9J0903-05RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	~~30~~ 30.10	2				100	PDI-057SC-A-04 -05-191023	Re-extract added 1/14/2020 by KAK Mud #			
23/24	A9J0903-25RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30	2				100	PDI-062SC-A-07 -08-191023	Re-extract added 1/14/2020 by KAK #			
25/26	0010436-MS1		QC	01/15/20 10:24	30	2	A20A036	A9J0903-25RE1	100	100					
27/28	0010436-MSD1		QC	01/15/20 10:26	30	2	A20A036	A9J0903-25RE1	100	100					

Standards/Reagents

⊗ = Removed from Batch

= Staining On Turbo Cap.

Prepared By: JAG — Date: 1/15/2020

Reviewed By: — Date: 1/16/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010436 (Sediment)

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH 2-11	pH >11

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19C104	09/03/23	Florisil Lot 817211-CM
A19G279	01/18/20	Sulfuric Acid
A19H411	08/31/21	n-Hexane Lot# 192712
A19I211	05/07/22	Copper, Granular Lot# J260003
A19I263	03/18/20	DCM CHEM PROD. 194934
A19L136	06/06/20	Sodium Sulfate Lot # 194950

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A036	07/03/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19L272	06/20/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved.
Initial: CM

Witness: MCB 1/15/20

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010436 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0010436-BLK1		QC	01/15/20 10:24	30	2				100					
	0010436-BSD1		QC	01/15/20 11:34	30	2	A20A036		100	100					
	0010436-BS1		QC	01/15/20 10:24	30	2	A20A036		100	100					
	A9J0514-31RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30	2				100	PDI-066SC-B-06-08-191011	Re-extract added 1/14/2020 by KAK			
	A9J0514-37RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30	2				100	PDI-092SC-B-00-02-191011	Re-extract added 1/14/2020 by KAK			
	A9J0558-12RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30	2				100	PDI-073SC-B-00-02-191013	Re-extract added 1/14/2020 by KAK			
	A9J0594-13RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30	2				100	PDI-026SC-B-02-04-191014	Re-extract added 1/14/2020 by KAK			
	A9J0594-14RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30	2				100	PDI-026SC-B-04-06-191014	Re-extract added 1/14/2020 by KAK			
	A9J0599-15RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30	2				100	PDI-049SC-B-00-02-191015	Re-extract added 1/14/2020 by KAK			
	A9J0599-46RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30	2				100	PDI-055SC-B-02-04-191015	Re-extract added 1/14/2020 by KAK			
	A9J0716-26RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30	2				100	PDI-059SC-B-02-04-191016	Needs to be thawed Added 1/13/2020 By MKZ due to low surrogate			
	A9J0903-05RE1	A	8082 PCBs - Low Level (30g/2mL)	01/15/20 10:24	30	2				100	PDI-057SC-A-04-05-191023	Re-extract added 1/14/2020 by KAK			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19C104	09/03/23	Florisil Lot 817211-CM
A19G279	01/18/20	Sulfuric Acid
A19H411	08/31/21	n-Hexane Lot# 192712
A19I211	05/07/22	Copper, Granular Lot# J260003
A19I263	03/18/20	DCM CHEM PROD. 194934
A19L136	06/06/20	Sodium Sulfate Lot # 194950

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A036	07/03/20	8082 PCB Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19L272	06/20/20	8082 PCB Surrogate Spike

Prepared By: _____ Date: 1/15/20

Reviewed By: _____ Date: 1/16/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010436 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH 8	pH >11

Method 3546 digestion time and temperture achieved.
Initial:
Witness: 1/15/20

Prepared By: Date

Reviewed By: Date

APEX LABORATORIES

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0A16014** Instrument: **DUALECD2F**

Date: **01/16/20 07:29** Calibration: **A9L0407**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A16014-CCV1	Sediment	QC	QC				A19L338
2	0A16014-CCB1	Sediment	QC	QC				A19L339
3	0010436-BLK1	Sediment	QC	QC		0010436		
4	0010436-BS1	Sediment	QC	QC		0010436		
5	0010436-BSD1	Sediment	QC	QC		0010436		
6	A9J0514-31RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	0010436		
7	0A16014-IBL1	Sediment	QC	QC				
8	A9J0514-37RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	0010436		
9	0A16014-IBL2	Sediment	QC	QC				
10	0A16014-CCV2	Sediment	QC	QC				A19L338
11	0A16014-CCB2	Sediment	QC	QC				A19L339
12	A9J0558-12RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	01/02/20	0010436		
13	0A16014-IBL3	Sediment	QC	QC				
14	A9J0594-13RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	01/06/20	0010436		
15	0A16014-IBL4	Sediment	QC	QC				
16	A9J0594-14RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	01/06/20	0010436		
17	0A16014-IBL5	Sediment	QC	QC				
18	0A16014-CCV3	Sediment	QC	QC				A19L338
19	0A16014-CCB3	Sediment	QC	QC				A19L339
20	A9J0861-37	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	01/17/20	0010092		
21	0A16014-IBL6	Sediment	QC	QC				
22	A9J0861-38	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	01/17/20	0010092		
23	0A16014-IBL7	Sediment	QC	QC				
24	A9J0903-14	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	01/17/20	0010092		
25	0A16014-IBL8	Sediment	QC	QC				
26	A9J0903-15	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	01/17/20	0010092		
27	0A16014-IBL9	Sediment	QC	QC				
28	0A16014-CCV4	Sediment	QC	QC				A19L338
29	0A16014-CCB4	Sediment	QC	QC				A19L339

Data Entered By: 1/20/20 1/20/20

Data Reviewed By: MK7 1/20/20

Comments: Complete

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.

0A16014-CCV1

Aroclor 1016

Peak	Initial Res
1016 (1)	488.41
1016 (2)	564.14
1016 (3)	527.93
1016 (4)	529.52
1016 (5)	534.87
1016 (6)	560.79
Average:	**534.28**

Aroclor 1260

Peak	Initial Res
1260 (1)	548.70
1260 (2)	547.21
1260 (3)	521.42
1260 (4)	525.73
1260 (5)	537.07
1260 (6)	497.77
Average:	**529.65**

0010436-BS1

Aroclor 1016

Peak	Initial Res
1016 (1)	547.64
1016 (2)	719.08
1016 (3)	647.76
1016 (4)	742.61
1016 (5)	713.16
1016 (6)	712.71
Average:	**680.49**

Aroclor 1260

Peak	Initial Res
1260 (1)	913.22
1260 (2)	1,036.01
1260 (3)	993.89
1260 (4)	1,088.90
1260 (5)	1,038.79
1260 (6)	973.67
Average:	**1,007.41**

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.

0010436-BSD1

Aroclor 1016

Peak	Initial Res
1016 (1)	720.21
1016 (2)	879.62
1016 (3)	789.57
1016 (4)	879.72
1016 (5)	778.60
1016 (6)	763.02
Average:	**801.79**

Aroclor 1260

Peak	Initial Res
1260 (1)	943.11
1260 (2)	1,087.29
1260 (3)	993.77
1260 (4)	1,079.79
1260 (5)	1,078.96
1260 (6)	1,012.16
Average:	**1,032.51**

0A16014-CCV2

Aroclor 1016

Peak	Initial Res
1016 (1)	513.42
1016 (2)	549.95
1016 (3)	525.29
1016 (4)	541.64
1016 (5)	526.09
1016 (6)	552.02
Average:	**534.74**

Aroclor 1260

Peak	Initial Res
1260 (1)	525.15
1260 (2)	554.52
1260 (3)	496.90
1260 (4)	540.60
1260 (5)	538.37
1260 (6)	505.77
Average:	**526.89**

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.

0A16014-CCV3

Aroclor 1016

Peak	Initial Res
1016 (1)	525.95
1016 (2)	586.34
1016 (3)	544.73
1016 (4)	560.91
1016 (5)	561.17
1016 (6)	554.17
Average:	**555.55**

Aroclor 1260

Peak	Initial Res
1260 (1)	557.01
1260 (2)	536.51
1260 (3)	517.04
1260 (4)	540.77
1260 (5)	557.20
1260 (6)	476.90
Average:	**530.91**

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.

0A16014-CCV3

Aroclor 1016

Peak	Initial Res
1016 (1)	525.95
1016 (2)	586.34
1016 (3)	544.73
1016 (4)	560.91
1016 (5)	561.17
1016 (6)	554.17
Average:	**555.55**

Aroclor 1260

Peak	Initial Res
1260 (1)	557.01
1260 (2)	536.51
1260 (3)	517.04
1260 (4)	540.77
1260 (5)	557.20
1260 (6)	476.90
Average:	**530.91**

0A16014-CCV4

Aroclor 1016

Peak	Initial Res
1016 (1)	487.98
1016 (2)	551.98
1016 (3)	531.52
1016 (4)	550.73
1016 (5)	533.76
1016 (6)	558.50
Average:	**535.75**

Aroclor 1260

Peak	Initial Res
1260 (1)	536.92
1260 (2)	540.42
1260 (3)	510.48
1260 (4)	542.77
1260 (5)	513.09
1260 (6)	484.05
Average:	**521.29**

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F002.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 7:56
Operator : MJB / KAK
Sample : 0A16014-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 08:14:16 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/16/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.815	18047868	271.039	ng/ml
62) S	DCBP (S)	9.566	29075742	260.360	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.727	1825667	488.413	ng/ml
3)	Aroclor 1016 (2)	6.140	4058359	564.138	ng/ml
4)	Aroclor 1016 (3)	6.222	2097423	527.929	ng/ml
5)	Aroclor 1016 (4)	6.377	1894267	529.516	ng/ml
6)	Aroclor 1016 (5)	6.599	2220507	534.870	ng/ml
7)	Aroclor 1016 (6)	6.725	1644938	560.794	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.165	182207	168.331	ng/ml
10)	Aroclor 1221 (2)	5.285	196750	274.190	ng/ml
11)	Aroclor 1221 (3)	5.365	855444	365.557	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.365	855444	481.622	ng/ml
14)	Aroclor 1232 (2)	6.140	4058359	1459.745	ng/ml
15)	Aroclor 1232 (3)	6.222	2097423	1429.794	ng/ml
16)	Aroclor 1232 (4)	6.377	1894267	1662.564	ng/ml
17)	Aroclor 1232 (5)	6.599	2220507	1546.336	ng/ml
18)	Aroclor 1232 (6)	6.725	1644938	1372.931	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.727	1825667	687.368	ng/ml
21)	Aroclor 1242 (2)	6.140	4058359	782.397	ng/ml
22)	Aroclor 1242 (3)	6.222	2097423	743.722	ng/ml
23)	Aroclor 1242 (4)	6.377	1894267	827.487	ng/ml
24)	Aroclor 1242 (5)	6.599	2220507	743.962	ng/ml
25)	Aroclor 1242 (6)	6.725	1644938	655.557	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.140	4058359	1192.479	ng/ml
28)	Aroclor 1248 (2)	6.377	1894267	419.530	ng/ml
29)	Aroclor 1248 (3)	6.599	2220507	425.477	ng/ml
30)	Aroclor 1248 (4)	6.892	444025	76.488	ng/ml
31)	Aroclor 1248 (5)	6.926	1498692	243.322	ng/ml
32)	Aroclor 1248 (6)	7.412	3479458	1018.154	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.926	1498692	249.860	ng/ml
35)	Aroclor 1254 (2)	7.036	1624438	222.905	ng/ml
36)	Aroclor 1254 (3)	7.412	3479458	310.389	ng/ml
37)	Aroclor 1254 (4)	7.571	459408	64.433	ng/ml
38)	Aroclor 1254 (5)	7.952	4353092	568.364	ng/ml
39)	Aroclor 1254 (6)	8.242	451974	181.232	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.524	4569496	548.705	ng/ml
42)	Aroclor 1260 (2)	7.657	5582867	547.211	ng/ml
43)	Aroclor 1260 (3)	8.213	4101017	521.416	ng/ml
44)	Aroclor 1260 (4)	8.382	9788235	525.727	ng/ml
45)	Aroclor 1260 (5)	8.681	6496390	537.070	ng/ml
46)	Aroclor 1260 (6)	9.071	2545917	497.774	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F002.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 7:56
Operator : MJB / KAK
Sample : 0A16014-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 08:14:16 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

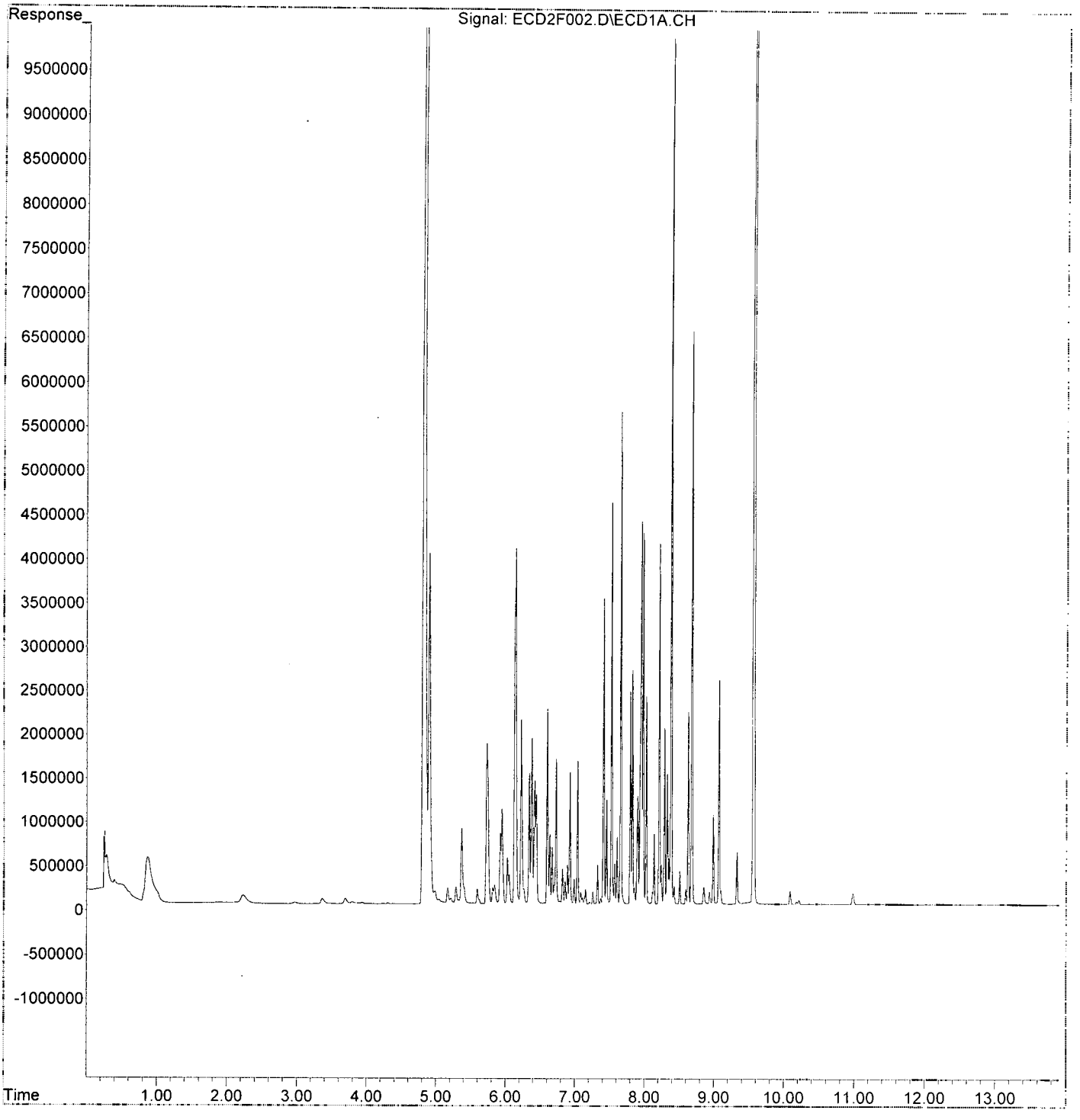
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.657	5582867	693.833 ng/ml
49)	Aroclor 1262 (2)	7.980	4219992	375.943 ng/ml
50)	Aroclor 1262 (3)	8.213	4101017	422.570 ng/ml
51)	Aroclor 1262 (4)	8.382	9788235	473.775 ng/ml
52)	Aroclor 1262 (5)	8.681	6496390	496.576 ng/ml
53)	Aroclor 1262 (6)	9.071	2545917	381.317 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.213	4101017	803.454 ng/ml
56)	Aroclor 1268 (2)	8.629	2189554	89.276 ng/ml
57)	Aroclor 1268 (3)	8.681	6496390	318.229 ng/ml
58)	Aroclor 1268 (4)	8.855	194336	10.146 ng/ml
59)	Aroclor 1268 (5)	9.071	2545917	328.517 ng/ml
60)	Aroclor 1268 (6)	9.330	591249	11.309 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 : K:\DATA\0A16014\
Data File : ECD2F002.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 7:56
Operator : MJB / KAK
Sample : 0A16014-CCV1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 08:14:16 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 8:13
Operator : MJB / KAK
Sample : 0A16014-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:30:30 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/16/20

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	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.816	7024610	105.494 ng/ml
62) S	DCBP (S)	9.563	11278889	100.997 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.732	2824	0.755 ng/ml
3)	Aroclor 1016 (2)	6.157	5956	0.828 ng/ml
4)	Aroclor 1016 (3)	6.234	3870	0.974 ng/ml
5)	Aroclor 1016 (4)	6.374	716	0.200 ng/ml
6)	Aroclor 1016 (5)	6.603	1415	0.341 ng/ml
7)	Aroclor 1016 (6)	6.726	994	0.339 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.176	13425	12.403 ng/ml
10)	Aroclor 1221 (2)	5.283	12427	17.318 ng/ml
11)	Aroclor 1221 (3)	5.360	12067	5.157 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.360	12067	6.794 ng/ml
14)	Aroclor 1232 (2)	6.157	5956	2.142 ng/ml
15)	Aroclor 1232 (3)	6.234	3870	2.638 ng/ml
16)	Aroclor 1232 (4)	6.374	716	0.629 ng/ml
17)	Aroclor 1232 (5)	6.603	1415	0.986 ng/ml
18)	Aroclor 1232 (6)	6.726	994	0.829 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.732	2824	1.063 ng/ml
21)	Aroclor 1242 (2)	6.157	5956	1.148 ng/ml
22)	Aroclor 1242 (3)	6.234	3870	1.372 ng/ml
23)	Aroclor 1242 (4)	6.374	716	0.313 ng/ml
24)	Aroclor 1242 (5)	6.603	1415	0.474 ng/ml
25)	Aroclor 1242 (6)	6.726	994	0.396 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.157	5956	1.750 ng/ml
28)	Aroclor 1248 (2)	6.374	716	0.159 ng/ml
29)	Aroclor 1248 (3)	6.603	1415	0.271 ng/ml
30)	Aroclor 1248 (4)	6.894	883	0.152 ng/ml
31)	Aroclor 1248 (5)	6.932	1218	0.198 ng/ml
32)	Aroclor 1248 (6)	7.412	3633	1.063 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.932	1218	0.203 ng/ml
35)	Aroclor 1254 (2)	7.038	965	0.132 ng/ml
36)	Aroclor 1254 (3)	7.412	3633	0.324 ng/ml
37)	Aroclor 1254 (4)	7.572	5108	0.716 ng/ml
38)	Aroclor 1254 (5)	7.954	4493	0.587 ng/ml
39)	Aroclor 1254 (6)	8.241	650	0.261 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.522	5979	0.718 ng/ml
42)	Aroclor 1260 (2)	7.657	5736	0.562 ng/ml
43)	Aroclor 1260 (3)	8.213	1347	0.171 ng/ml
44)	Aroclor 1260 (4)	8.380	6388	0.343 ng/ml
45)	Aroclor 1260 (5)	8.679	2325	0.192 ng/ml
46)	Aroclor 1260 (6)	9.066	3506	0.686 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 8:13
Operator : MJB / KAK
Sample : 0A16014-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:30:30 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

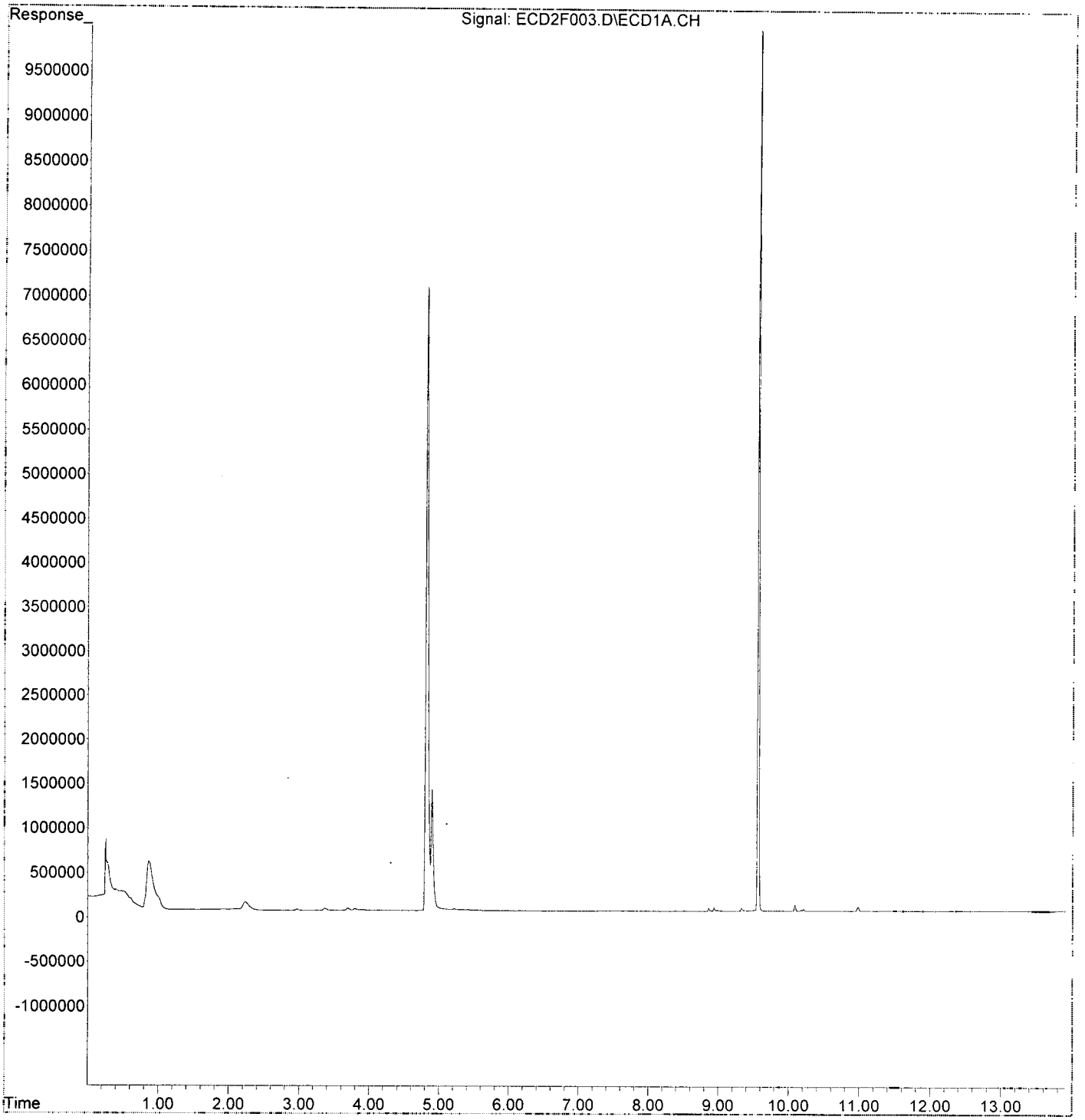
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.657	5736	0.713 ng/ml
49)	Aroclor 1262 (2)	7.976	2908	0.259 ng/ml
50)	Aroclor 1262 (3)	8.213	1347	0.139 ng/ml
51)	Aroclor 1262 (4)	8.380	6388	0.309 ng/ml
52)	Aroclor 1262 (5)	8.679	2325	0.178 ng/ml
53)	Aroclor 1262 (6)	9.066	3506	0.525 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.213	1347	0.264 ng/ml
56)	Aroclor 1268 (2)	8.626	869	0.035 ng/ml
57)	Aroclor 1268 (3)	8.679	2325	0.114 ng/ml
58)	Aroclor 1268 (4)	8.859	35365	1.846 ng/ml
59)	Aroclor 1268 (5)	9.066	3506	0.452 ng/ml
60)	Aroclor 1268 (6)	9.330	37688	0.721 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 : K:\DATA\0A16014\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 8:13
Operator : MJB / KAK
Sample : 0A16014-CCB1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:30:30 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 8:31
Operator : MJB / KAK
Sample : 0010436-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:30:51 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/16/20

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.814	10077216	151.337 ng/ml
62) S	DCBP (S)	9.563	26261504	235.160 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.728	10796	2.888 ng/ml
3)	Aroclor 1016 (2)	6.139	19289	2.681 ng/ml
4)	Aroclor 1016 (3)	6.221	11484	2.890 ng/ml
5)	Aroclor 1016 (4)	6.375	11029	3.083 ng/ml
6)	Aroclor 1016 (5)	6.597	12110	2.917 ng/ml
7)	Aroclor 1016 (6)	6.723	7653	2.609 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.170	15735	14.537 ng/ml
10)	Aroclor 1221 (2)	5.312	12749	17.767 ng/ml
11)	Aroclor 1221 (3)	5.364	17440	7.453 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.364	17440	9.819 ng/ml
14)	Aroclor 1232 (2)	6.139	19289	6.938 ng/ml
15)	Aroclor 1232 (3)	6.221	11484	7.828 ng/ml
16)	Aroclor 1232 (4)	6.375	11029	9.680 ng/ml
17)	Aroclor 1232 (5)	6.597	12110	8.433 ng/ml
18)	Aroclor 1232 (6)	6.723	7653	6.387 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.728	10796	4.065 ng/ml
21)	Aroclor 1242 (2)	6.139	19289	3.719 ng/ml
22)	Aroclor 1242 (3)	6.221	11484	4.072 ng/ml
23)	Aroclor 1242 (4)	6.375	11029	4.818 ng/ml
24)	Aroclor 1242 (5)	6.597	12110	4.057 ng/ml
25)	Aroclor 1242 (6)	6.723	7653	3.050 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.139	19289	5.668 ng/ml
28)	Aroclor 1248 (2)	6.375	11029	2.443 ng/ml
29)	Aroclor 1248 (3)	6.597	12110	2.320 ng/ml
30)	Aroclor 1248 (4)	6.890	2369	0.408 ng/ml
31)	Aroclor 1248 (5)	6.923	7905	1.283 ng/ml
32)	Aroclor 1248 (6)	7.409	12906	3.776 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.923	7905	1.318 ng/ml
35)	Aroclor 1254 (2)	7.034	7628	1.047 ng/ml
36)	Aroclor 1254 (3)	7.409	12906	1.151 ng/ml
37)	Aroclor 1254 (4)	7.570	5638	0.791 ng/ml
38)	Aroclor 1254 (5)	7.950	9445	1.233 ng/ml
39)	Aroclor 1254 (6)	8.239	833	0.334 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.522	17393	2.089 ng/ml
42)	Aroclor 1260 (2)	7.655	16044	1.573 ng/ml
43)	Aroclor 1260 (3)	8.210	4509	0.573 ng/ml
44)	Aroclor 1260 (4)	8.379	11468	0.616 ng/ml
45)	Aroclor 1260 (5)	8.676	4923	0.407 ng/ml
46)	Aroclor 1260 (6)	9.069	5644	1.104 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

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Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 8:31
Operator : MJB / KAK
Sample : 0010436-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:30:51 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

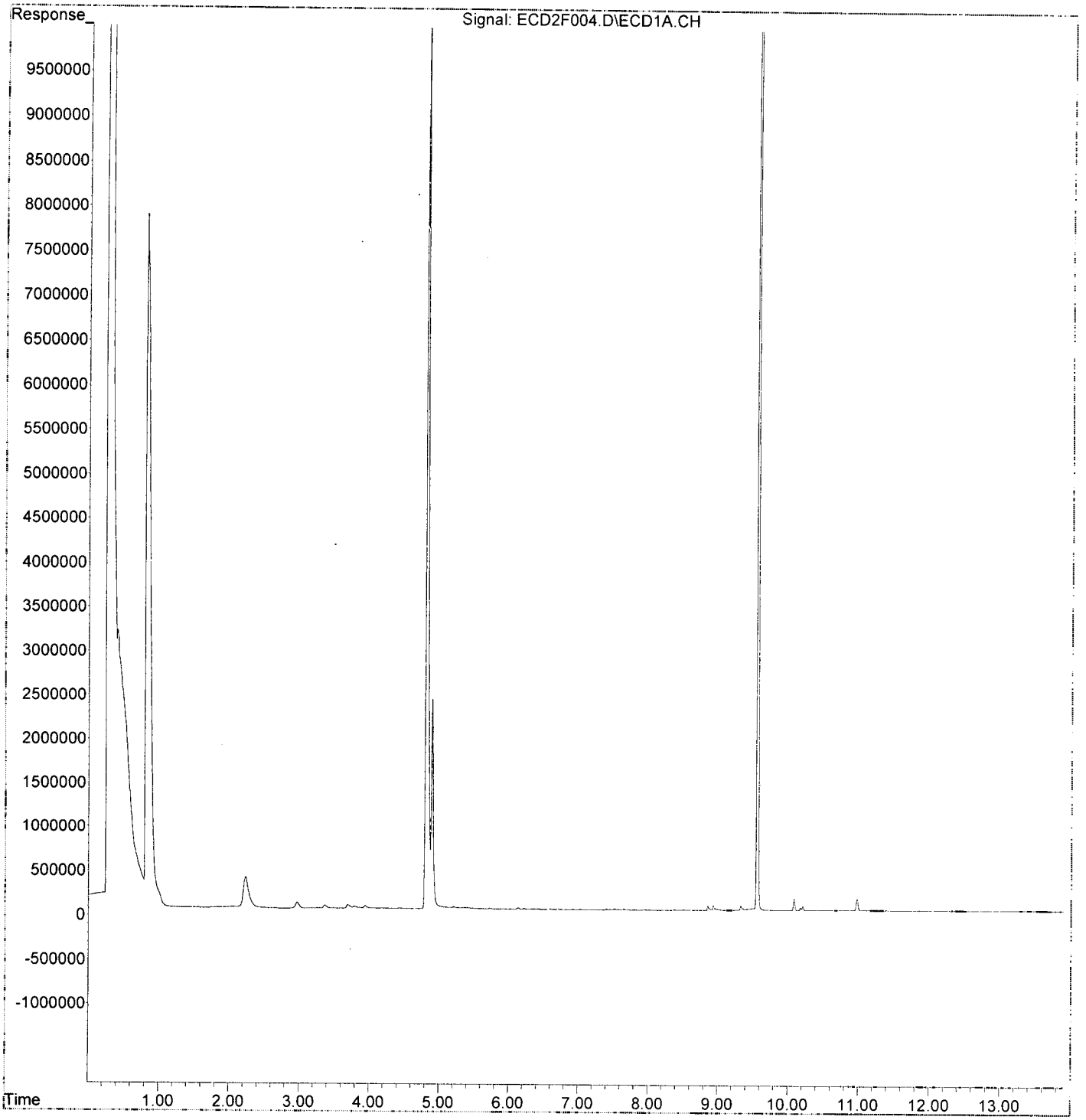
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.655	16044	1.994 ng/ml
49)	Aroclor 1262 (2)	7.978	8388	0.747 ng/ml
50)	Aroclor 1262 (3)	8.210	4509	0.465 ng/ml
51)	Aroclor 1262 (4)	8.379	11468	0.555 ng/ml
52)	Aroclor 1262 (5)	8.676	4923	0.376 ng/ml
53)	Aroclor 1262 (6)	9.069	5644	0.845 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.210	4509	0.883 ng/ml
56)	Aroclor 1268 (2)	8.628	2093	0.085 ng/ml
57)	Aroclor 1268 (3)	8.676	4923	0.241 ng/ml
58)	Aroclor 1268 (4)	8.858	51023	2.664 ng/ml
59)	Aroclor 1268 (5)	9.069	5644	0.728 ng/ml
60)	Aroclor 1268 (6)	9.330	50934	0.974 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 : K:\DATA\0A16014\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 8:31
Operator : MJB / KAK
Sample : 0010436-BLK1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:30:51 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 8:49
Operator : MJB / KAK
Sample : 0010436-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:31:13 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/16/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.813	7720440	115.944	ng/ml
62)	S DCBP (S)	9.563	25054763	224.354	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.726	2047056	547.640	ng/ml
3)	Aroclor 1016 (2)	6.138	5172986	719.079	ng/ml
4)	Aroclor 1016 (3)	6.220	2573506	647.761	ng/ml
5)	Aroclor 1016 (4)	6.375	2656562	742.605	ng/ml
6)	Aroclor 1016 (5)	6.597	2960674	713.160	ng/ml
7)	Aroclor 1016 (6)	6.723	2090528	712.705	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.164	184912	170.830	ng/ml
10)	Aroclor 1221 (2)	5.283	204516	285.013	ng/ml
11)	Aroclor 1221 (3)	5.363	897498	383.527	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.363	897498	505.299	ng/ml
14)	Aroclor 1232 (2)	6.138	5172986	1860.664	ng/ml
15)	Aroclor 1232 (3)	6.220	2573506	1754.335	ng/ml
16)	Aroclor 1232 (4)	6.375	2656562	2331.617	ng/ml
17)	Aroclor 1232 (5)	6.597	2960674	2061.780	ng/ml
18)	Aroclor 1232 (6)	6.723	2090528	1744.838	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.726	2047056	770.722	ng/ml
21)	Aroclor 1242 (2)	6.138	5172986	997.282	ng/ml
22)	Aroclor 1242 (3)	6.220	2573506	912.536	ng/ml
23)	Aroclor 1242 (4)	6.375	2656562	1160.486	ng/ml
24)	Aroclor 1242 (5)	6.597	2960674	991.948	ng/ml
25)	Aroclor 1242 (6)	6.723	2090528	833.138	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.138	5172986	1519.994	ng/ml
28)	Aroclor 1248 (2)	6.375	2656562	588.358	ng/ml
29)	Aroclor 1248 (3)	6.597	2960674	567.303	ng/ml
30)	Aroclor 1248 (4)	6.891	647538	111.546	ng/ml
31)	Aroclor 1248 (5)	6.923	2287384	371.370	ng/ml
32)	Aroclor 1248 (6)	7.410	5582465	1633.533	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.923	2287384	381.350	ng/ml
35)	Aroclor 1254 (2)	7.034	2705185	371.206	ng/ml
36)	Aroclor 1254 (3)	7.410	5582465	497.991	ng/ml
37)	Aroclor 1254 (4)	7.570	768026	107.717	ng/ml
38)	Aroclor 1254 (5)	7.949	7788596	1016.922	ng/ml
39)	Aroclor 1254 (6)	8.240	742835	297.862	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.522	7605144	913.225	ng/ml
42)	Aroclor 1260 (2)	7.656	10569786	1036.010	ng/ml
43)	Aroclor 1260 (3)	8.211	7817103	993.890	ng/ml
44)	Aroclor 1260 (4)	8.381	20273689	1088.902	ng/ml
45)	Aroclor 1260 (5)	8.679	12565196	1038.791	ng/ml
46)	Aroclor 1260 (6)	9.069	4979942	973.672	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 8:49
Operator : MJB / KAK
Sample : 0010436-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:31:13 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

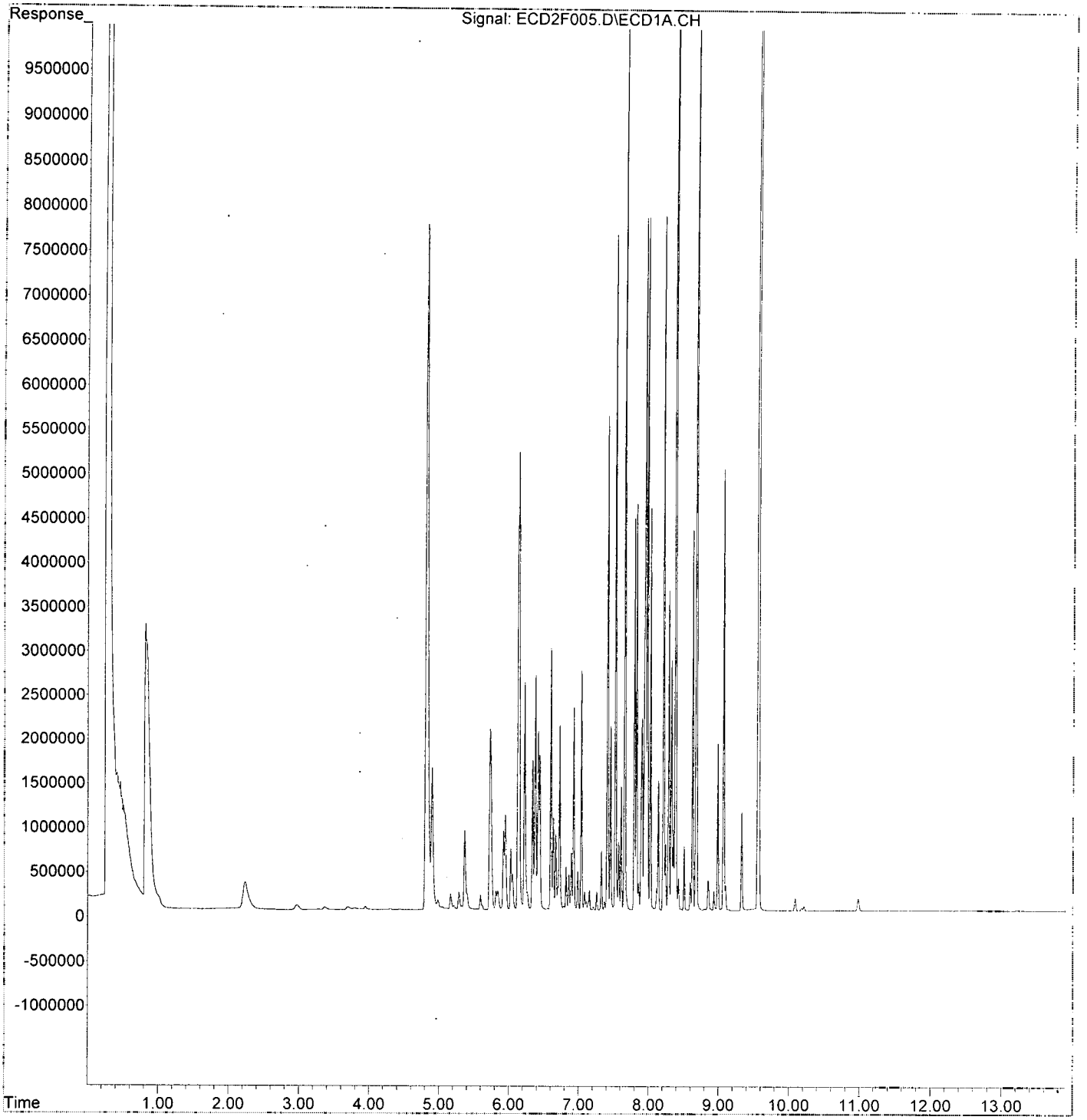
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.656	10569786	1313.602	ng/ml
49)	Aroclor 1262 (2)	7.979	7797944	694.690	ng/ml
50)	Aroclor 1262 (3)	8.211	7817103	805.477	ng/ml
51)	Aroclor 1262 (4)	8.381	20273689	981.297	ng/ml
52)	Aroclor 1262 (5)	8.679	12565196	960.468	ng/ml
53)	Aroclor 1262 (6)	9.069	4979942	745.876	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.211	7817103	1531.493	ng/ml
56)	Aroclor 1268 (2)	8.627	4305593	175.555	ng/ml
57)	Aroclor 1268 (3)	8.679	12565196	615.513	ng/ml
58)	Aroclor 1268 (4)	8.851	344626	17.993	ng/ml
59)	Aroclor 1268 (5)	9.069	4979942	642.595	ng/ml
60)	Aroclor 1268 (6)	9.328	1114335	21.313	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 : K:\DATA\0A16014\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 8:49
Operator : MJB / KAK
Sample : 0010436-BS1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:31:13 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 9:06
Operator : MJB / KAK
Sample : 0010436-BSD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:31:34 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/16/20
Q-19

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.813	11812595	177.399	ng/ml
62) S	DCBP (S)	9.562	26055262	233.313	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.725	2692132	720.215	ng/ml
3)	Aroclor 1016 (2)	6.137	6327936	879.624	ng/ml
4)	Aroclor 1016 (3)	6.219	3136903	789.570	ng/ml
5)	Aroclor 1016 (4)	6.375	3147070	879.720	ng/ml
6)	Aroclor 1016 (5)	6.596	3232331	778.596	ng/ml
7)	Aroclor 1016 (6)	6.722	2238114	763.020	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.163	259539	239.774	ng/ml
10)	Aroclor 1221 (2)	5.281	283638	395.276	ng/ml
11)	Aroclor 1221 (3)	5.364	1240517	530.110	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.364	1240517	698.422	ng/ml
14)	Aroclor 1232 (2)	6.137	6327936	2276.086	ng/ml
15)	Aroclor 1232 (3)	6.219	3136903	2138.397	ng/ml
16)	Aroclor 1232 (4)	6.375	3147070	2762.127	ng/ml
17)	Aroclor 1232 (5)	6.596	3232331	2250.959	ng/ml
18)	Aroclor 1232 (6)	6.722	2238114	1868.019	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.725	2692132	1013.594	ng/ml
21)	Aroclor 1242 (2)	6.137	6327936	1219.941	ng/ml
22)	Aroclor 1242 (3)	6.219	3136903	1112.310	ng/ml
23)	Aroclor 1242 (4)	6.375	3147070	1374.758	ng/ml
24)	Aroclor 1242 (5)	6.596	3232331	1082.965	ng/ml
25)	Aroclor 1242 (6)	6.722	2238114	891.955	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.137	6327936	1859.356	ng/ml
28)	Aroclor 1248 (2)	6.375	3147070	696.992	ng/ml
29)	Aroclor 1248 (3)	6.596	3232331	619.356	ng/ml
30)	Aroclor 1248 (4)	6.890	693821	119.518	ng/ml
31)	Aroclor 1248 (5)	6.923	2492983	404.751	ng/ml
32)	Aroclor 1248 (6)	7.409	5766157	1687.285	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.923	2492983	415.627	ng/ml
35)	Aroclor 1254 (2)	7.033	2805545	384.977	ng/ml
36)	Aroclor 1254 (3)	7.409	5766157	514.377	ng/ml
37)	Aroclor 1254 (4)	7.569	812699	113.983	ng/ml
38)	Aroclor 1254 (5)	7.948	7729859	1009.253	ng/ml
39)	Aroclor 1254 (6)	8.239	786902	315.532	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.521	7854007	943.108	ng/ml
42)	Aroclor 1260 (2)	7.655	11092934	1087.287	ng/ml
43)	Aroclor 1260 (3)	8.210	7816138	993.767	ng/ml
44)	Aroclor 1260 (4)	8.380	20104038	1079.790	ng/ml
45)	Aroclor 1260 (5)	8.678	13051076	1078.960	ng/ml
46)	Aroclor 1260 (6)	9.068	5176775	1012.156	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 9:06
Operator : MJB / KAK
Sample : 0010436-BSD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:31:34 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

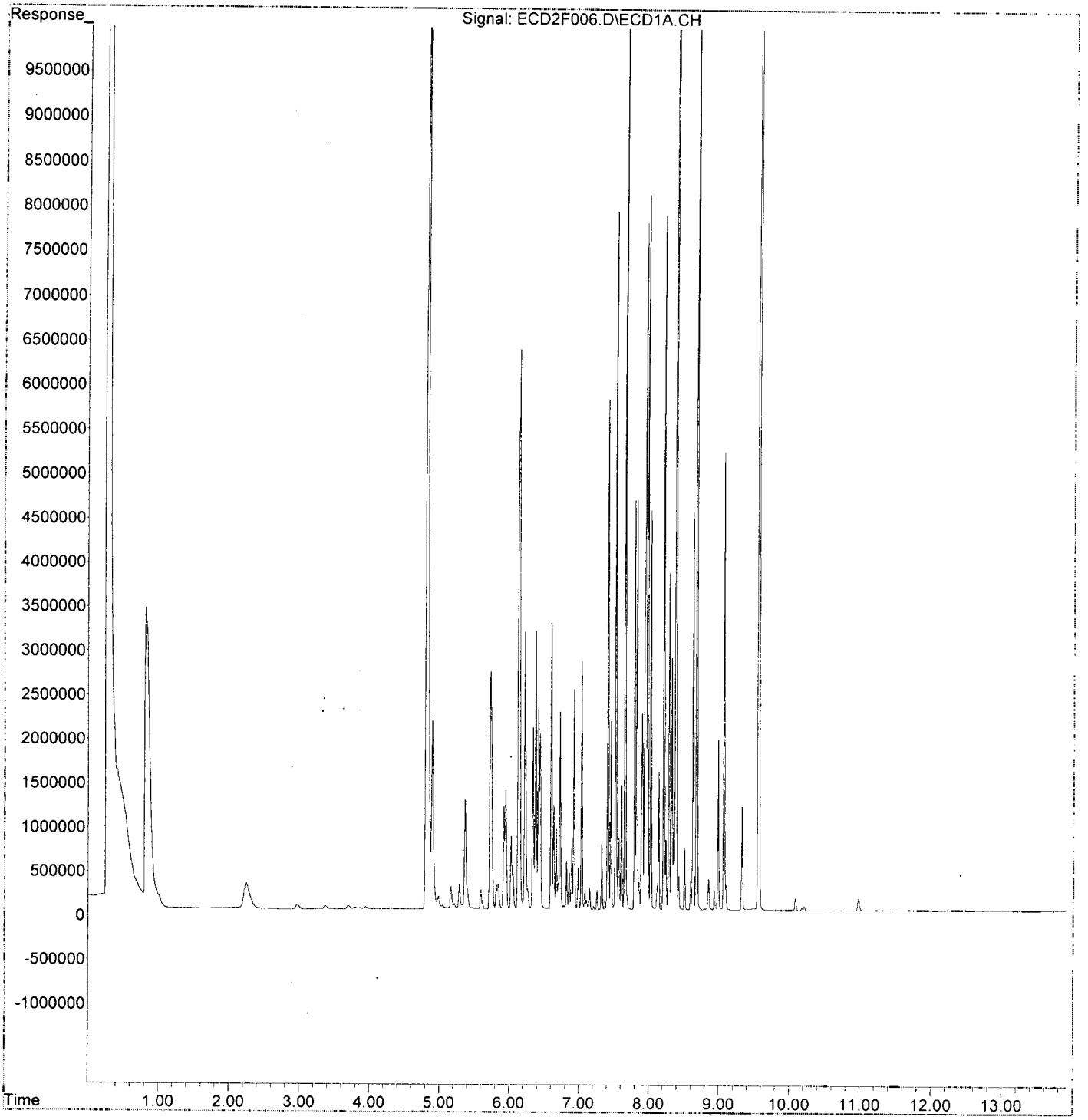
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.655	11092934	1378.618	ng/ml
49)	Aroclor 1262 (2)	7.978	8044095	716.619	ng/ml
50)	Aroclor 1262 (3)	8.210	7816138	805.378	ng/ml
51)	Aroclor 1262 (4)	8.380	20104038	973.086	ng/ml
52)	Aroclor 1262 (5)	8.678	13051076	997.608	ng/ml
53)	Aroclor 1262 (6)	9.068	5176775	775.356	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.210	7816138	1531.304	ng/ml
56)	Aroclor 1268 (2)	8.626	4496315	183.331	ng/ml
57)	Aroclor 1268 (3)	8.678	13051076	639.314	ng/ml
58)	Aroclor 1268 (4)	8.850	352354	18.396	ng/ml
59)	Aroclor 1268 (5)	9.068	5176775	667.994	ng/ml
60)	Aroclor 1268 (6)	9.326	1168163	22.343	ng/ml
61)	Aroclor 1268 - AVE	0.761	139327	NoCal	ng/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 9:06
Operator : MJB / KAK
Sample : 0010436-BSD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:31:34 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F007.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 9:24
Operator : MJB / KAK
Sample : A9J0514-31RE1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:46:42 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/16/20

1254 P-10
1260 P-10

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.807	11797728	177.176 ng/ml
62) S	DCBP (S)	9.565	14766287	132.225 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.718	3978	1.064 ng/ml
3)	Aroclor 1016 (2)	6.131	34837	4.843 ng/ml
4)	Aroclor 1016 (3)	6.232	15321	3.856 ng/ml
5)	Aroclor 1016 (4)	6.372	59716	16.693 ng/ml
6)	Aroclor 1016 (5)	6.601	135563	32.654 ng/ml
7)	Aroclor 1016 (6)	6.724	51038	17.400 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.146	12106	11.184 ng/ml
10)	Aroclor 1221 (2)	5.280	7226	10.070 ng/ml
11)	Aroclor 1221 (3)	5.352	59013	25.218 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.352	59013	33.225 ng/ml
14)	Aroclor 1232 (2)	6.131	34837	12.530 ng/ml
15)	Aroclor 1232 (3)	6.232	15321	10.444 ng/ml
16)	Aroclor 1232 (4)	6.372	59716	52.412 ng/ml
17)	Aroclor 1232 (5)	6.601	135563	94.404 ng/ml
18)	Aroclor 1232 (6)	6.724	51038	42.599 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.718	3978	1.498 ng/ml
21)	Aroclor 1242 (2)	6.131	34837	6.716 ng/ml
22)	Aroclor 1242 (3)	6.232	15321	5.433 ng/ml
23)	Aroclor 1242 (4)	6.372	59716	26.086 ng/ml
24)	Aroclor 1242 (5)	6.601	135563	45.419 ng/ml
25)	Aroclor 1242 (6)	6.724	51038	20.340 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.131	34837	10.236 ng/ml
28)	Aroclor 1248 (2)	6.372	59716	13.226 ng/ml
29)	Aroclor 1248 (3)	6.601	135563	25.976 ng/ml
30)	Aroclor 1248 (4)	6.889	48961	8.434 ng/ml
31)	Aroclor 1248 (5)	6.922	169373	27.499 ng/ml
32)	Aroclor 1248 (6)	7.408	355162	103.927 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.922	169373	28.238 ng/ml
35)	Aroclor 1254 (2)	7.033	244667	33.573 ng/ml
36)	Aroclor 1254 (3)	7.408	355162	31.683 ng/ml
37)	Aroclor 1254 (4)	7.574	300897	42.201 ng/ml
38)	Aroclor 1254 (5)	7.948	598196 Ø	78.104 ng/ml
39)	Aroclor 1254 (6)	8.238	80598	32.318 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.521	483974	58.116 ng/ml
42)	Aroclor 1260 (2)	7.655	710239	69.615 ng/ml
43)	Aroclor 1260 (3)	8.212	378697	48.149 ng/ml
44)	Aroclor 1260 (4)	8.370	1314179	70.585 ng/ml
45)	Aroclor 1260 (5)	8.679	716140	59.205 ng/ml
46)	Aroclor 1260 (6)	9.071	253270	49.519 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

33.603

59.198

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F007.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 9:24
Operator : MJB / KAK
Sample : A9J0514-31RE1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:46:42 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

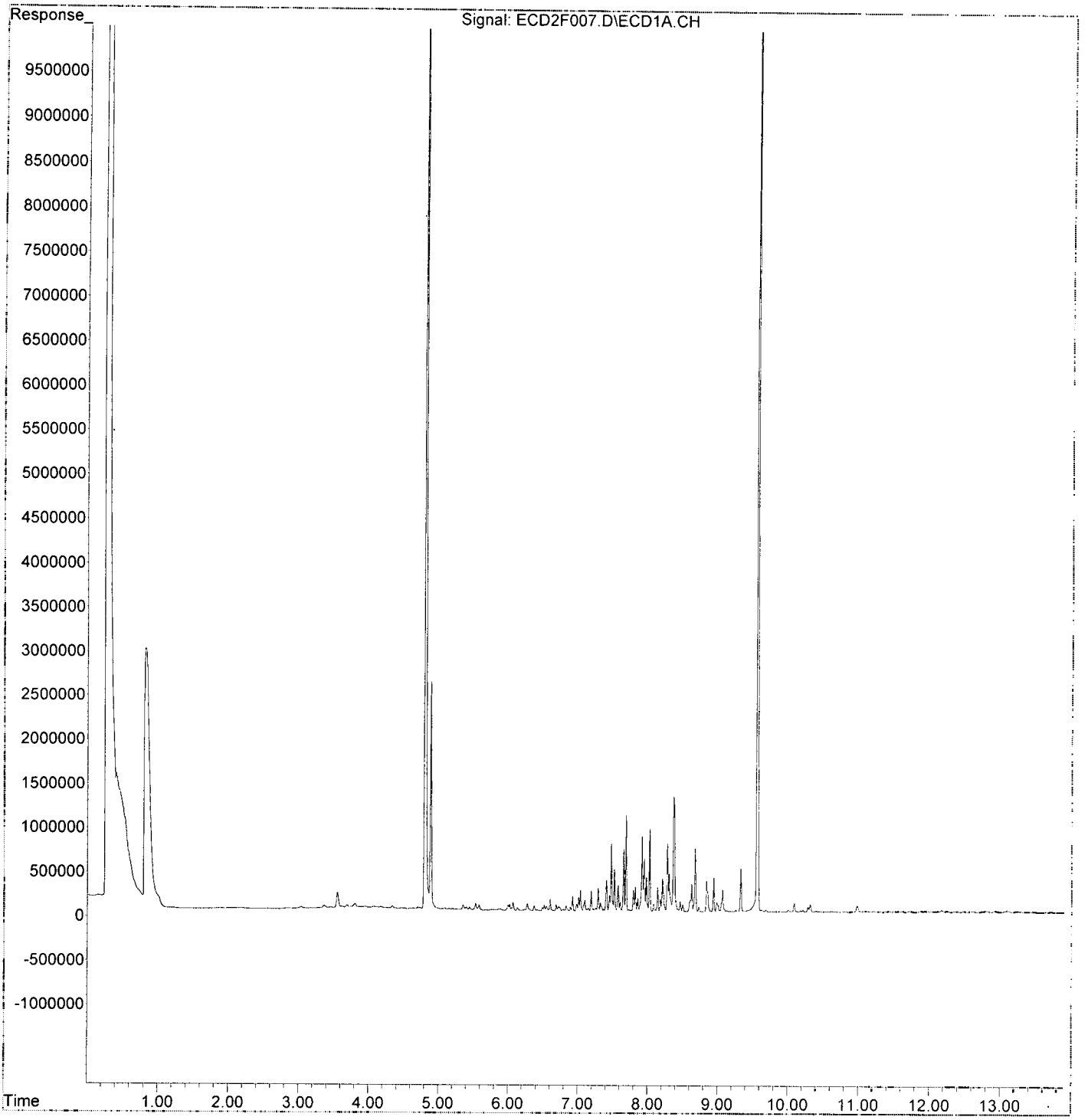
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.655	710239	88.268 ng/ml
49)	Aroclor 1262 (2)	7.979	402905	35.893 ng/ml
50)	Aroclor 1262 (3)	8.212	378697	39.021 ng/ml
51)	Aroclor 1262 (4)	8.370	1314179	63.610 ng/ml
52)	Aroclor 1262 (5)	8.679	716140	54.741 ng/ml
53)	Aroclor 1262 (6)	9.071	253270	37.934 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.212	378697	74.193 ng/ml
56)	Aroclor 1268 (2)	8.629	325522	13.273 ng/ml
57)	Aroclor 1268 (3)	8.679	716140	35.081 ng/ml
58)	Aroclor 1268 (4)	8.857	231538	12.089 ng/ml
59)	Aroclor 1268 (5)	9.071	253270	32.681 ng/ml
60)	Aroclor 1268 (6)	9.330	493562	9.440 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 : K:\DATA\0A16014\
Data File : ECD2F007.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 9:24
Operator : MJB / KAK
Sample : A9J0514-31RE1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:46:42 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 9:59
Operator : MJB / KAK
Sample : A9J0514-37RE1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:32:18 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/16/20

1254 P.10
1260 P.10

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.805	12146318	182.411	ng/ml
62) S	DCBP (S)	9.562	15548966	139.234	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.722	15613	4.177	ng/ml
3)	Aroclor 1016 (2)	6.131	24408	3.393	ng/ml
4)	Aroclor 1016 (3)	6.213	14026	3.530	ng/ml
5)	Aroclor 1016 (4)	6.371	101407	28.347	ng/ml
6)	Aroclor 1016 (5)	6.599	126904	30.568	ng/ml
7)	Aroclor 1016 (6)	6.717	44271	15.093	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.161	7740	7.150	ng/ml
10)	Aroclor 1221 (2)	5.255	23660	32.972	ng/ml
11)	Aroclor 1221 (3)	5.372	50230	21.465	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.372	50230	28.280	ng/ml
14)	Aroclor 1232 (2)	6.131	24408	8.779	ng/ml
15)	Aroclor 1232 (3)	6.213	14026	9.561	ng/ml
16)	Aroclor 1232 (4)	6.371	101407	89.003	ng/ml
17)	Aroclor 1232 (5)	6.599	126904	88.374	ng/ml
18)	Aroclor 1232 (6)	6.717	44271	36.950	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.722	15613	5.878	ng/ml
21)	Aroclor 1242 (2)	6.131	24408	4.705	ng/ml
22)	Aroclor 1242 (3)	6.213	14026	4.973	ng/ml
23)	Aroclor 1242 (4)	6.371	101407	44.298	ng/ml
24)	Aroclor 1242 (5)	6.599	126904	42.518	ng/ml
25)	Aroclor 1242 (6)	6.717	44271	17.643	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.131	24408	7.172	ng/ml
28)	Aroclor 1248 (2)	6.371	101407	22.459	ng/ml
29)	Aroclor 1248 (3)	6.599	126904	24.316	ng/ml
30)	Aroclor 1248 (4)	6.889	112808	19.432	ng/ml
31)	Aroclor 1248 (5)	6.921	220460	35.793	ng/ml
32)	Aroclor 1248 (6)	7.403	403534	118.082	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.921	220460	36.755	ng/ml
35)	Aroclor 1254 (2)	7.054	7831245	1074.603	ng/ml
36)	Aroclor 1254 (3)	7.403	403534	35.998	ng/ml
37)	Aroclor 1254 (4)	7.570	300153	42.097	ng/ml
38)	Aroclor 1254 (5)	7.946	447732	58.458	ng/ml
39)	Aroclor 1254 (6)	8.238	87905	35.248	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.520	366345	43.991	ng/ml
42)	Aroclor 1260 (2)	7.655	676243	66.283	ng/ml
43)	Aroclor 1260 (3)	8.210	264858	33.675	ng/ml
44)	Aroclor 1260 (4)	8.367	942899	50.643	ng/ml
45)	Aroclor 1260 (5)	8.678	440859	36.447	ng/ml
46)	Aroclor 1260 (6)	9.069	171129	33.459	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

37.525

49.083

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 9:59
Operator : MJB / KAK
Sample : A9J0514-37RE1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:32:18 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

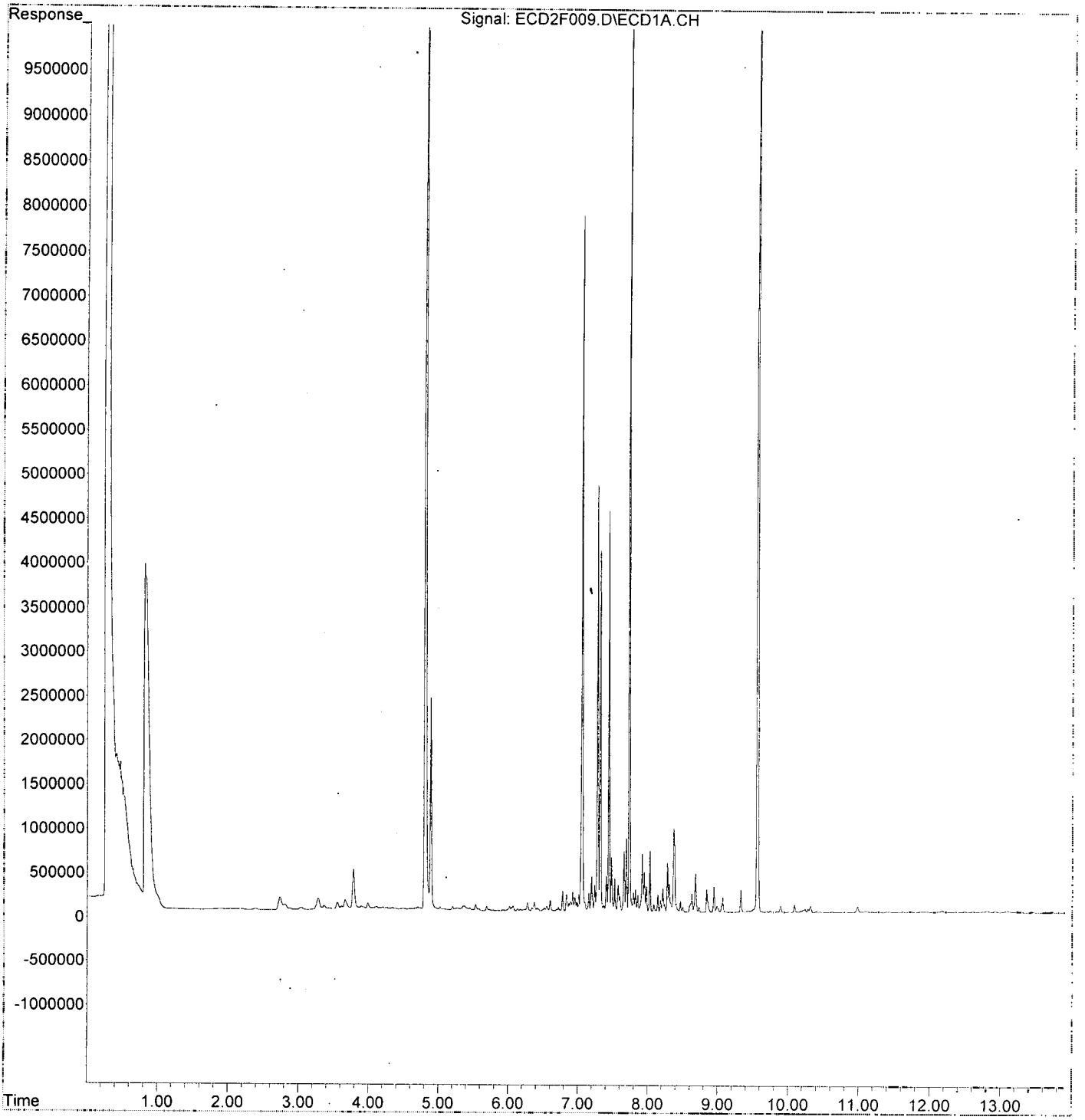
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.655	676243	84.043 ng/ml
49)	Aroclor 1262 (2)	7.977	284468	25.342 ng/ml
50)	Aroclor 1262 (3)	8.210	264858	27.291 ng/ml
51)	Aroclor 1262 (4)	8.367	942899	45.639 ng/ml
52)	Aroclor 1262 (5)	8.678	440859	33.699 ng/ml
53)	Aroclor 1262 (6)	9.069	171129	25.631 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.210	264858	51.890 ng/ml
56)	Aroclor 1268 (2)	8.627	212385	8.660 ng/ml
57)	Aroclor 1268 (3)	8.678	440859	21.596 ng/ml
58)	Aroclor 1268 (4)	8.839	262245	13.692 ng/ml
59)	Aroclor 1268 (5)	9.069	171129	22.082 ng/ml
60)	Aroclor 1268 (6)	9.326	254206	4.862 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 : K:\DATA\0A16014\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 9:59
Operator : MJB / KAK
Sample : A9J0514-37RE1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 10:32:18 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 10:34
Operator : MJB / KAK
Sample : 0A16014-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 11:05:47 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/16/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.813	18118248	272.096	ng/ml
62) S	DCBP (S)	9.562	30032378	268.926	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.724	1919140	513.419	ng/ml
3)	Aroclor 1016 (2)	6.138	3956305	549.952	ng/ml
4)	Aroclor 1016 (3)	6.219	2086953	525.294	ng/ml
5)	Aroclor 1016 (4)	6.374	1937623	541.636	ng/ml
6)	Aroclor 1016 (5)	6.596	2184062	526.092	ng/ml
7)	Aroclor 1016 (6)	6.722	1619209	552.023	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.164	187401	173.129	ng/ml
10)	Aroclor 1221 (2)	5.283	210993	294.039	ng/ml
11)	Aroclor 1221 (3)	5.364	881576	376.724	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.364	881576	496.335	ng/ml
14)	Aroclor 1232 (2)	6.138	3956305	1423.038	ng/ml
15)	Aroclor 1232 (3)	6.219	2086953	1422.657	ng/ml
16)	Aroclor 1232 (4)	6.374	1937623	1700.617	ng/ml
17)	Aroclor 1232 (5)	6.596	2184062	1520.956	ng/ml
18)	Aroclor 1232 (6)	6.722	1619209	1351.456	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.724	1919140	722.561	ng/ml
21)	Aroclor 1242 (2)	6.138	3956305	762.722	ng/ml
22)	Aroclor 1242 (3)	6.219	2086953	740.010	ng/ml
23)	Aroclor 1242 (4)	6.374	1937623	846.427	ng/ml
24)	Aroclor 1242 (5)	6.596	2184062	731.751	ng/ml
25)	Aroclor 1242 (6)	6.722	1619209	645.303	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.138	3956305	1162.493	ng/ml
28)	Aroclor 1248 (2)	6.374	1937623	429.132	ng/ml
29)	Aroclor 1248 (3)	6.596	2184062	418.494	ng/ml
30)	Aroclor 1248 (4)	6.889	424994	73.210	ng/ml
31)	Aroclor 1248 (5)	6.922	1514060	245.817	ng/ml
32)	Aroclor 1248 (6)	7.409	3272323	957.543	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.922	1514060	252.423	ng/ml
35)	Aroclor 1254 (2)	7.033	1636065	224.501	ng/ml
36)	Aroclor 1254 (3)	7.409	3272323	291.912	ng/ml
37)	Aroclor 1254 (4)	7.568	474697	66.577	ng/ml
38)	Aroclor 1254 (5)	7.948	4254388	555.476	ng/ml
39)	Aroclor 1254 (6)	8.239	458542	183.866	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.521	4373337	525.150	ng/ml
42)	Aroclor 1260 (2)	7.655	5657438	554.521	ng/ml
43)	Aroclor 1260 (3)	8.210	3908182	496.898	ng/ml
44)	Aroclor 1260 (4)	8.380	10065150	540.600	ng/ml
45)	Aroclor 1260 (5)	8.678	6512110	538.370	ng/ml
46)	Aroclor 1260 (6)	9.069	2586831	505.774	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 10:34
Operator : MJB / KAK
Sample : 0A16014-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 11:05:47 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

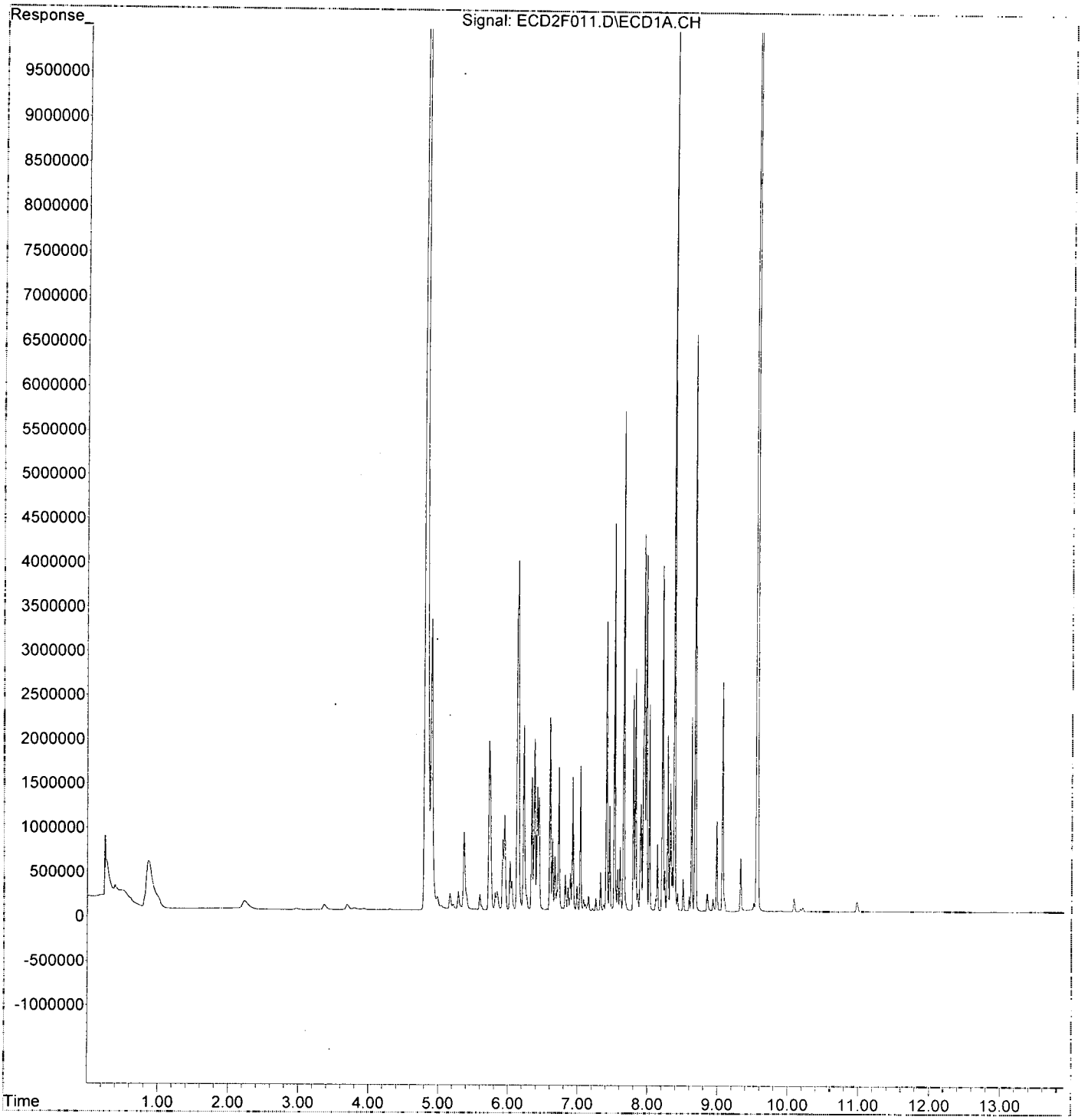
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.655	5657438	703.101 ng/ml
49)	Aroclor 1262 (2)	7.978	4030633	359.074 ng/ml
50)	Aroclor 1262 (3)	8.210	3908182	402.701 ng/ml
51)	Aroclor 1262 (4)	8.380	10065150	487.178 ng/ml
52)	Aroclor 1262 (5)	8.678	6512110	497.778 ng/ml
53)	Aroclor 1262 (6)	9.069	2586831	387.445 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.210	3908182	765.674 ng/ml
56)	Aroclor 1268 (2)	8.626	2196477	89.558 ng/ml
57)	Aroclor 1268 (3)	8.678	6512110	318.999 ng/ml
58)	Aroclor 1268 (4)	8.852	198281	10.352 ng/ml
59)	Aroclor 1268 (5)	9.069	2586831	333.796 ng/ml
60)	Aroclor 1268 (6)	9.326	598673	11.451 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 : K:\DATA\0A16014\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 10:34
Operator : MJB / KAK
Sample : 0A16014-CCV2
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 11:05:47 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 10:52
Operator : MJB / KAK
Sample : 0A16014-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 11:43:38 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/16/20
clear

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.813	6787241	101.929 ng/ml
62) S	DCBP (S)	9.561	11144197	99.791 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.721	3875	1.037 ng/ml
3)	Aroclor 1016 (2)	6.153	6484	0.901 ng/ml
4)	Aroclor 1016 (3)	6.233	4983	1.254 ng/ml
5)	Aroclor 1016 (4)	6.382	2267	0.634 ng/ml
6)	Aroclor 1016 (5)	6.601	3033	0.731 ng/ml
7)	Aroclor 1016 (6)	6.726	2498	0.852 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.165	13884	12.827 ng/ml
10)	Aroclor 1221 (2)	5.285	12479	17.391 ng/ml
11)	Aroclor 1221 (3)	5.348	12895	5.510 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.348	12895	7.260 ng/ml
14)	Aroclor 1232 (2)	6.153	6484	2.332 ng/ml
15)	Aroclor 1232 (3)	6.233	4983	3.397 ng/ml
16)	Aroclor 1232 (4)	6.382	2267	1.990 ng/ml
17)	Aroclor 1232 (5)	6.601	3033	2.112 ng/ml
18)	Aroclor 1232 (6)	6.726	2498	2.085 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.721	3875	1.459 ng/ml
21)	Aroclor 1242 (2)	6.153	6484	1.250 ng/ml
22)	Aroclor 1242 (3)	6.233	4983	1.767 ng/ml
23)	Aroclor 1242 (4)	6.382	2267	0.990 ng/ml
24)	Aroclor 1242 (5)	6.601	3033	1.016 ng/ml
25)	Aroclor 1242 (6)	6.726	2498	0.996 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.153	6484	1.905 ng/ml
28)	Aroclor 1248 (2)	6.382	2267	0.502 ng/ml
29)	Aroclor 1248 (3)	6.601	3033	0.581 ng/ml
30)	Aroclor 1248 (4)	6.893	2486	0.428 ng/ml
31)	Aroclor 1248 (5)	6.922	2815	0.457 ng/ml
32)	Aroclor 1248 (6)	7.409	4684	1.371 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.922	2815	0.469 ng/ml
35)	Aroclor 1254 (2)	7.037	2964	0.407 ng/ml
36)	Aroclor 1254 (3)	7.409	4684	0.418 ng/ml
37)	Aroclor 1254 (4)	7.570	6390	0.896 ng/ml
38)	Aroclor 1254 (5)	7.954	5874	0.767 ng/ml
39)	Aroclor 1254 (6)	8.241	1773	0.711 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.524	6986	0.839 ng/ml
42)	Aroclor 1260 (2)	7.655	6829	0.669 ng/ml
43)	Aroclor 1260 (3)	8.211	1840	0.234 ng/ml
44)	Aroclor 1260 (4)	8.378	6711	0.360 ng/ml
45)	Aroclor 1260 (5)	8.680	2179	0.180 ng/ml
46)	Aroclor 1260 (6)	9.068	2996	0.586 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 10:52
Operator : MJB / KAK
Sample : 0A16014-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 11:43:38 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

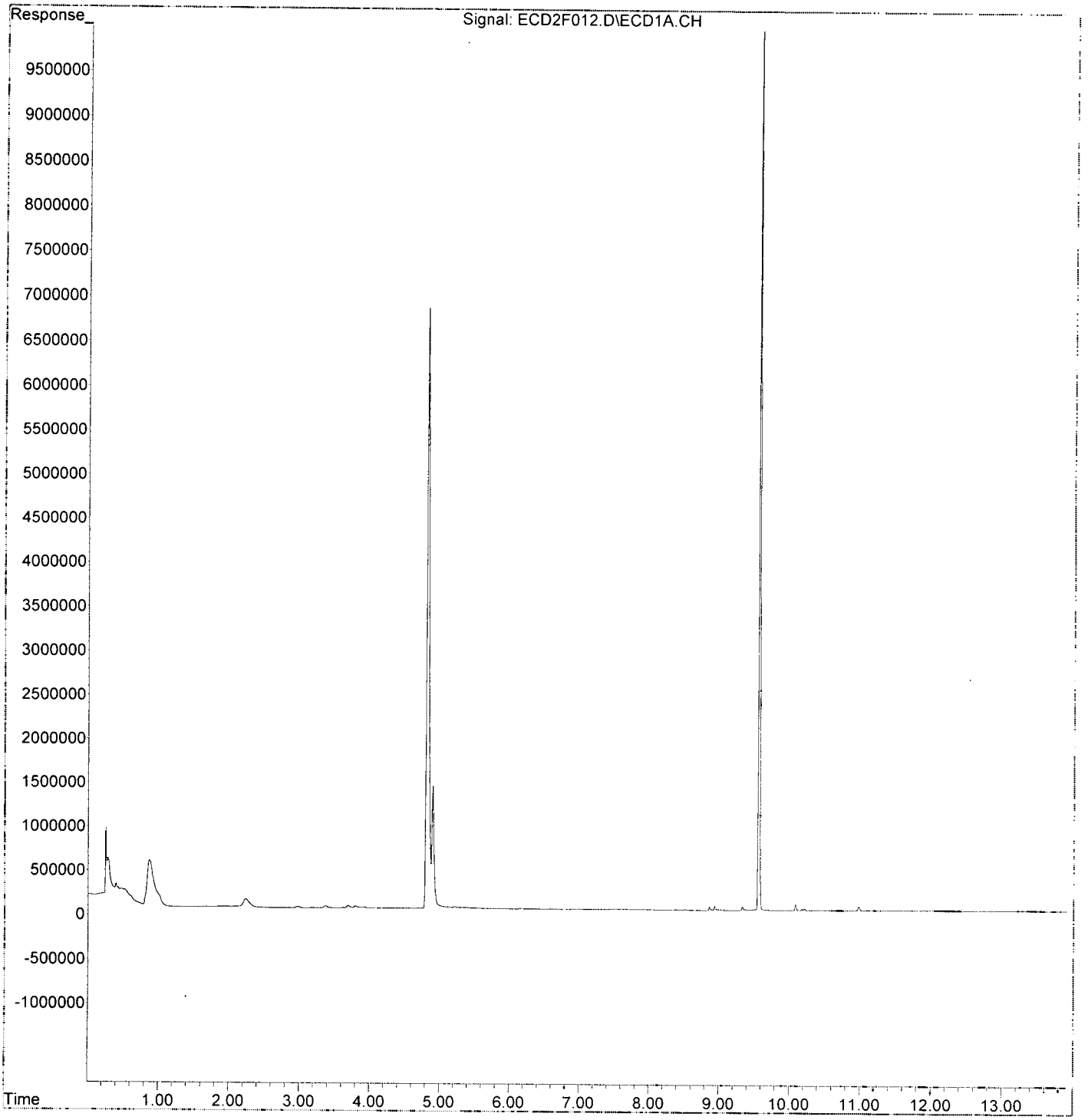
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.655	6829	0.849 ng/ml
49)	Aroclor 1262 (2)	7.976	4041	0.360 ng/ml
50)	Aroclor 1262 (3)	8.211	1840	0.190 ng/ml
51)	Aroclor 1262 (4)	8.378	6711	0.325 ng/ml
52)	Aroclor 1262 (5)	8.680	2179	0.167 ng/ml
53)	Aroclor 1262 (6)	9.068	2996	0.449 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.211	1840	0.360 ng/ml
56)	Aroclor 1268 (2)	8.628	948	0.039 ng/ml
57)	Aroclor 1268 (3)	8.680	2179	0.107 ng/ml
58)	Aroclor 1268 (4)	8.859	41250	2.154 ng/ml
59)	Aroclor 1268 (5)	9.068	2996	0.387 ng/ml
60)	Aroclor 1268 (6)	9.328	43650	0.835 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 : K:\DATA\0A16014\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 10:52
Operator : MJB / KAK
Sample : 0A16014-CCB2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 11:43:38 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F019.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 12:56
Operator : MJB / KAK
Sample : 0A16014-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 14:01:05 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/16/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.812	19168944	287.875	ng/ml
62) S	DCBP (S)	9.562	28565336	255.790	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.724	1965964	525.946	ng/ml
3)	Aroclor 1016 (2)	6.138	4218099	586.343	ng/ml
4)	Aroclor 1016 (3)	6.219	2164165	544.728	ng/ml
5)	Aroclor 1016 (4)	6.374	2006557	560.905	ng/ml
6)	Aroclor 1016 (5)	6.596	2329670	561.165	ng/ml
7)	Aroclor 1016 (6)	6.722	1625505	554.169	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.164	196150	181.212	ng/ml
10)	Aroclor 1221 (2)	5.283	208380	290.397	ng/ml
11)	Aroclor 1221 (3)	5.364	898518	383.963	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.364	898518	505.873	ng/ml
14)	Aroclor 1232 (2)	6.138	4218099	1517.202	ng/ml
15)	Aroclor 1232 (3)	6.219	2164165	1475.291	ng/ml
16)	Aroclor 1232 (4)	6.374	2006557	1761.119	ng/ml
17)	Aroclor 1232 (5)	6.596	2329670	1622.356	ng/ml
18)	Aroclor 1232 (6)	6.722	1625505	1356.712	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.724	1965964	740.190	ng/ml
21)	Aroclor 1242 (2)	6.138	4218099	813.193	ng/ml
22)	Aroclor 1242 (3)	6.219	2164165	767.388	ng/ml
23)	Aroclor 1242 (4)	6.374	2006557	876.539	ng/ml
24)	Aroclor 1242 (5)	6.596	2329670	780.536	ng/ml
25)	Aroclor 1242 (6)	6.722	1625505	647.813	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.138	4218099	1239.416	ng/ml
28)	Aroclor 1248 (2)	6.374	2006557	444.399	ng/ml
29)	Aroclor 1248 (3)	6.596	2329670	446.395	ng/ml
30)	Aroclor 1248 (4)	6.889	428716	73.851	ng/ml
31)	Aroclor 1248 (5)	6.922	1511434	245.390	ng/ml
32)	Aroclor 1248 (6)	7.408	3367730	985.461	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.922	1511434	251.985	ng/ml
35)	Aroclor 1254 (2)	7.033	1605642	220.326	ng/ml
36)	Aroclor 1254 (3)	7.408	3367730	300.423	ng/ml
37)	Aroclor 1254 (4)	7.568	469825	65.894	ng/ml
38)	Aroclor 1254 (5)	7.948	4285909	559.592	ng/ml
39)	Aroclor 1254 (6)	8.239	471337	188.997	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.521	4638693	557.014	ng/ml
42)	Aroclor 1260 (2)	7.654	5473660	536.507	ng/ml
43)	Aroclor 1260 (3)	8.209	4066581	517.037	ng/ml
44)	Aroclor 1260 (4)	8.379	10068307	540.770	ng/ml
45)	Aroclor 1260 (5)	8.678	6739842	557.197	ng/ml
46)	Aroclor 1260 (6)	9.068	2439139	476.897	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F019.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 12:56
Operator : MJB / KAK
Sample : 0A16014-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 14:01:05 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

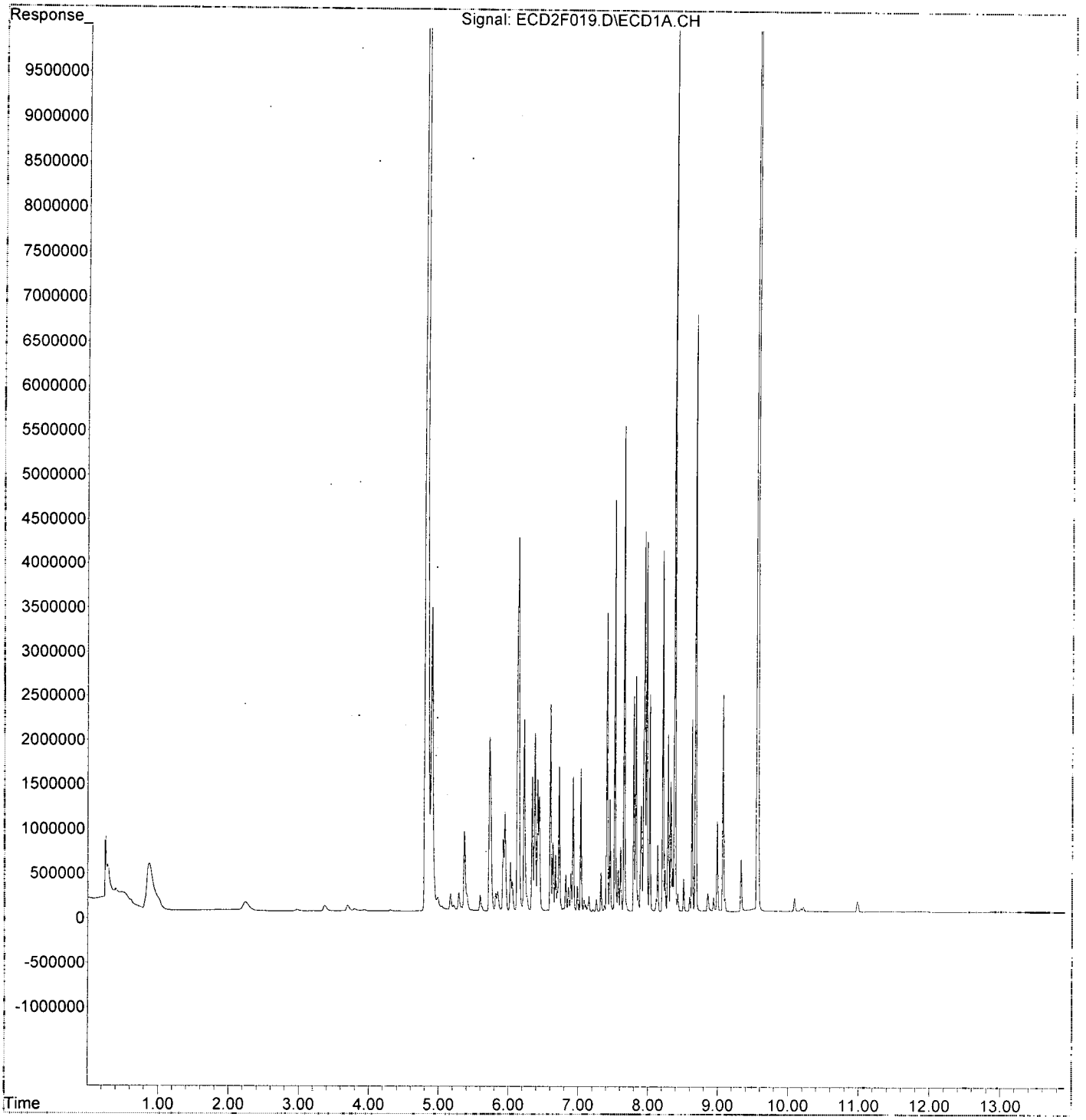
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.654	5473660	680.261 ng/ml
49)	Aroclor 1262 (2)	7.978	4176447	372.064 ng/ml
50)	Aroclor 1262 (3)	8.209	4066581	419.022 ng/ml
51)	Aroclor 1262 (4)	8.379	10068307	487.331 ng/ml
52)	Aroclor 1262 (5)	8.678	6739842	515.185 ng/ml
53)	Aroclor 1262 (6)	9.068	2439139	365.324 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.209	4066581	796.707 ng/ml
56)	Aroclor 1268 (2)	8.626	2163410	88.210 ng/ml
57)	Aroclor 1268 (3)	8.678	6739842	330.155 ng/ml
58)	Aroclor 1268 (4)	8.852	203371	10.618 ng/ml
59)	Aroclor 1268 (5)	9.068	2439139	314.738 ng/ml
60)	Aroclor 1268 (6)	9.327	594396	11.369 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 : K:\DATA\0A16014\
Data File : ECD2F019.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 12:56
Operator : MJB / KAK
Sample : 0A16014-CCV3
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 14:01:05 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F020.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 13:13
Operator : MJB / KAK
Sample : 0A16014-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 14:01:26 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/16/20
clean

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.814	6947293	104.333 ng/ml
62) S	DCBP (S)	9.561	11602985	103.899 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.727	3436	0.919 ng/ml
3)	Aroclor 1016 (2)	6.141	4950	0.688 ng/ml
4)	Aroclor 1016 (3)	6.230	4330	1.090 ng/ml
5)	Aroclor 1016 (4)	6.382	1709	0.478 ng/ml
6)	Aroclor 1016 (5)	6.599	2896	0.698 ng/ml
7)	Aroclor 1016 (6)	6.727	2140	0.729 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.166	13499	12.471 ng/ml
10)	Aroclor 1221 (2)	5.294	12512	17.437 ng/ml
11)	Aroclor 1221 (3)	5.365	12253	5.236 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.365	12253	6.899 ng/ml
14)	Aroclor 1232 (2)	6.141	4950	1.780 ng/ml
15)	Aroclor 1232 (3)	6.230	4330	2.952 ng/ml
16)	Aroclor 1232 (4)	6.382	1709	1.500 ng/ml
17)	Aroclor 1232 (5)	6.599	2896	2.017 ng/ml
18)	Aroclor 1232 (6)	6.727	2140	1.786 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.727	3436	1.294 ng/ml
21)	Aroclor 1242 (2)	6.141	4950	0.954 ng/ml
22)	Aroclor 1242 (3)	6.230	4330	1.535 ng/ml
23)	Aroclor 1242 (4)	6.382	1709	0.747 ng/ml
24)	Aroclor 1242 (5)	6.599	2896	0.970 ng/ml
25)	Aroclor 1242 (6)	6.727	2140	0.853 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.141	4950	1.454 ng/ml
28)	Aroclor 1248 (2)	6.382	1709	0.378 ng/ml
29)	Aroclor 1248 (3)	6.599	2896	0.555 ng/ml
30)	Aroclor 1248 (4)	6.892	2227	0.384 ng/ml
31)	Aroclor 1248 (5)	6.931	2794	0.454 ng/ml
32)	Aroclor 1248 (6)	7.408	3417	1.000 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.931	2794	0.466 ng/ml
35)	Aroclor 1254 (2)	7.035	2098	0.288 ng/ml
36)	Aroclor 1254 (3)	7.408	3417	0.305 ng/ml
37)	Aroclor 1254 (4)	7.567	4397	0.617 ng/ml
38)	Aroclor 1254 (5)	7.951	3617	0.472 ng/ml
39)	Aroclor 1254 (6)	8.246	1005	0.403 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.523	4935	0.593 ng/ml
42)	Aroclor 1260 (2)	7.654	4504	0.441 ng/ml
43)	Aroclor 1260 (3)	8.210	1262	0.160 ng/ml
44)	Aroclor 1260 (4)	8.378	5867	0.315 ng/ml
45)	Aroclor 1260 (5)	8.679	3000	0.248 ng/ml
46)	Aroclor 1260 (6)	9.066	2478	0.484 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F020.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 13:13
Operator : MJB / KAK
Sample : 0A16014-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 14:01:26 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

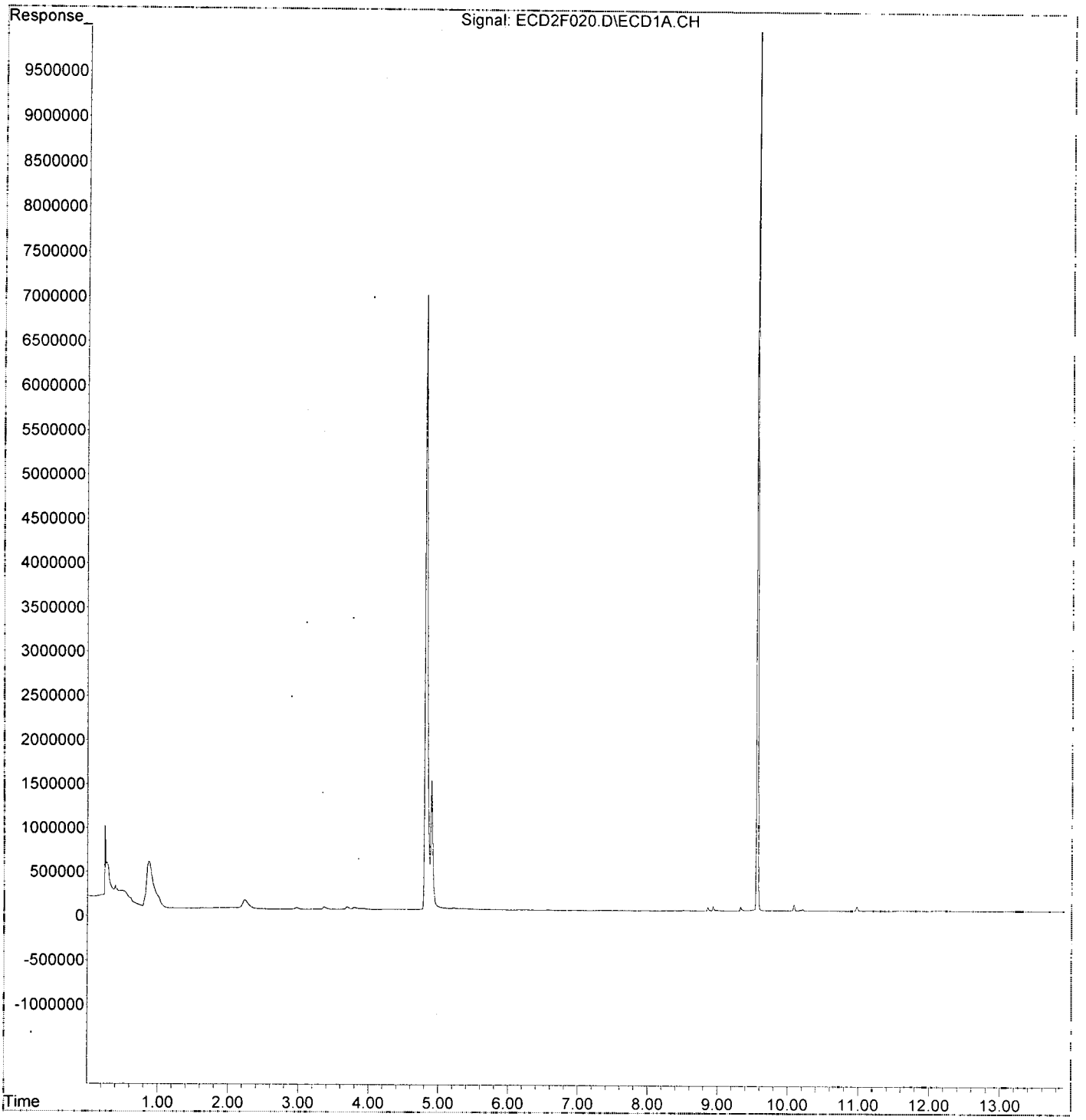
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.654	4504	0.560 ng/ml
49)	Aroclor 1262 (2)	7.976	2242	0.200 ng/ml
50)	Aroclor 1262 (3)	8.210	1262	0.130 ng/ml
51)	Aroclor 1262 (4)	8.378	5867	0.284 ng/ml
52)	Aroclor 1262 (5)	8.679	3000	0.229 ng/ml
53)	Aroclor 1262 (6)	9.066	2478	0.371 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.210	1262	0.247 ng/ml
56)	Aroclor 1268 (2)	8.628	2376	0.097 ng/ml
57)	Aroclor 1268 (3)	8.679	3000	0.147 ng/ml
58)	Aroclor 1268 (4)	8.858	41993	2.192 ng/ml
59)	Aroclor 1268 (5)	9.066	2478	0.320 ng/ml
60)	Aroclor 1268 (6)	9.327	46184	0.883 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 : K:\DATA\0A16014\
Data File : ECD2F020.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 13:13
Operator : MJB / KAK
Sample : 0A16014-CCB3
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 14:01:26 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F029.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 15:52
Operator : MJB / KAK
Sample : 0A16014-CCV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 16:33:22 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/20/20

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.813	18862932	283.279	ng/ml
62)	S DCBP (S)	9.562	30077193	269.328	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.725	1824049	487.980	ng/ml
3)	Aroclor 1016 (2)	6.138	3970904	551.982	ng/ml
4)	Aroclor 1016 (3)	6.219	2111701	531.523	ng/ml
5)	Aroclor 1016 (4)	6.374	1970160	550.731	ng/ml
6)	Aroclor 1016 (5)	6.596	2215890	533.758	ng/ml
7)	Aroclor 1016 (6)	6.723	1638201	558.497	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.164	192282	177.639	ng/ml
10)	Aroclor 1221 (2)	5.282	206678	288.026	ng/ml
11)	Aroclor 1221 (3)	5.364	903980	386.298	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.364	903980	508.948	ng/ml
14)	Aroclor 1232 (2)	6.138	3970904	1428.289	ng/ml
15)	Aroclor 1232 (3)	6.219	2111701	1439.527	ng/ml
16)	Aroclor 1232 (4)	6.374	1970160	1729.174	ng/ml
17)	Aroclor 1232 (5)	6.596	2215890	1543.121	ng/ml
18)	Aroclor 1232 (6)	6.723	1638201	1367.308	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.725	1824049	686.759	ng/ml
21)	Aroclor 1242 (2)	6.138	3970904	765.537	ng/ml
22)	Aroclor 1242 (3)	6.219	2111701	748.785	ng/ml
23)	Aroclor 1242 (4)	6.374	1970160	860.640	ng/ml
24)	Aroclor 1242 (5)	6.596	2215890	742.415	ng/ml
25)	Aroclor 1242 (6)	6.723	1638201	652.872	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.138	3970904	1166.782	ng/ml
28)	Aroclor 1248 (2)	6.374	1970160	436.338	ng/ml
29)	Aroclor 1248 (3)	6.596	2215890	424.593	ng/ml
30)	Aroclor 1248 (4)	6.890	429107	73.918	ng/ml
31)	Aroclor 1248 (5)	6.922	1490311	241.961	ng/ml
32)	Aroclor 1248 (6)	7.409	3337938	976.743	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.922	1490311	248.463	ng/ml
35)	Aroclor 1254 (2)	7.032	1611101	221.075	ng/ml
36)	Aroclor 1254 (3)	7.409	3337938	297.765	ng/ml
37)	Aroclor 1254 (4)	7.569	457162	64.118	ng/ml
38)	Aroclor 1254 (5)	7.947	4364164	569.809	ng/ml
39)	Aroclor 1254 (6)	8.239	431264	172.928	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.521	4471355	536.920	ng/ml
42)	Aroclor 1260 (2)	7.655	5513604	540.423	ng/ml
43)	Aroclor 1260 (3)	8.210	4014968	510.475	ng/ml
44)	Aroclor 1260 (4)	8.379	10105622	542.774	ng/ml
45)	Aroclor 1260 (5)	8.677	6206369	513.094	ng/ml
46)	Aroclor 1260 (6)	9.067	2475735	484.052	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F029.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 15:52
Operator : MJB / KAK
Sample : 0A16014-CCV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 16:33:22 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

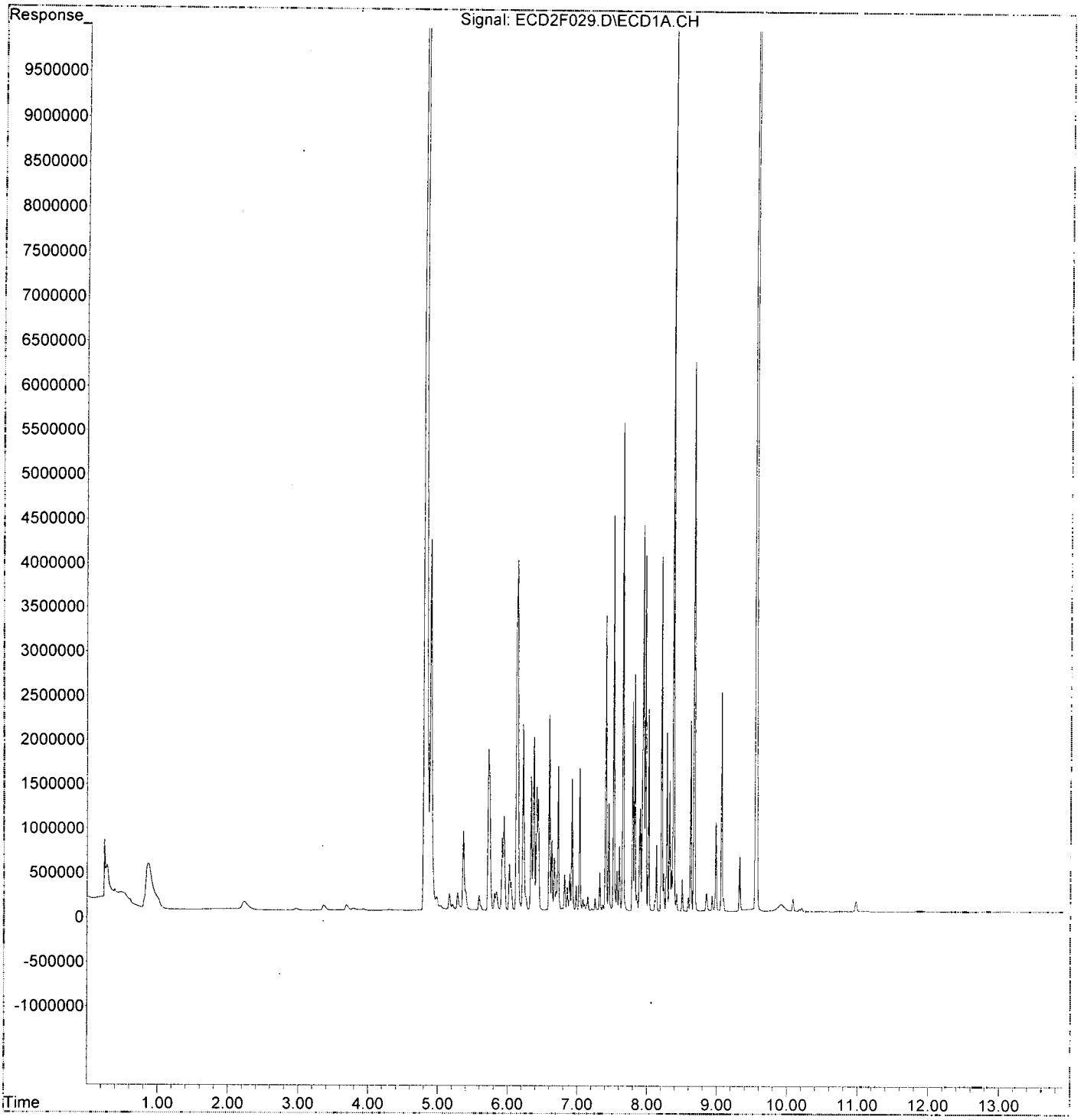
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.655	5513604	685.225	ng/ml
49)	Aroclor 1262 (2)	7.978	4032435	359.235	ng/ml
50)	Aroclor 1262 (3)	8.210	4014968	413.704	ng/ml
51)	Aroclor 1262 (4)	8.379	10105622	489.137	ng/ml
52)	Aroclor 1262 (5)	8.677	6206369	474.407	ng/ml
53)	Aroclor 1262 (6)	9.067	2475735	370.806	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.210	4014968	786.595	ng/ml
56)	Aroclor 1268 (2)	8.626	2158327	88.003	ng/ml
57)	Aroclor 1268 (3)	8.677	6206369	304.022	ng/ml
58)	Aroclor 1268 (4)	8.852	206038	10.757	ng/ml
59)	Aroclor 1268 (5)	9.067	2475735	319.461	ng/ml
60)	Aroclor 1268 (6)	9.326	619140	11.842	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 : K:\DATA\0A16014\
Data File : ECD2F029.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 15:52
Operator : MJB / KAK
Sample : 0A16014-CCV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 16:33:22 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F030.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 16:10
Operator : MJB / KAK
Sample : 0A16014-CCB4
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 16:33:44 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/20/20

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.813	6899113	103.609 ng/ml
62) S	DCBP (S)	9.560	11414679	102.213 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.732	3850	1.030 ng/ml
3)	Aroclor 1016 (2)	6.151	7174	0.997 ng/ml
4)	Aroclor 1016 (3)	6.231	5350	1.347 ng/ml
5)	Aroclor 1016 (4)	6.380	2130	0.595 ng/ml
6)	Aroclor 1016 (5)	6.598	3097	0.746 ng/ml
7)	Aroclor 1016 (6)	6.727	2175	0.742 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.161	13149	12.148 ng/ml
10)	Aroclor 1221 (2)	5.288	12696	17.694 ng/ml
11)	Aroclor 1221 (3)	5.364	11964	5.113 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.364	11964	6.736 ng/ml
14)	Aroclor 1232 (2)	6.151	7174	2.580 ng/ml
15)	Aroclor 1232 (3)	6.231	5350	3.647 ng/ml
16)	Aroclor 1232 (4)	6.380	2130	1.869 ng/ml
17)	Aroclor 1232 (5)	6.598	3097	2.157 ng/ml
18)	Aroclor 1232 (6)	6.727	2175	1.815 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.732	3850	1.450 ng/ml
21)	Aroclor 1242 (2)	6.151	7174	1.383 ng/ml
22)	Aroclor 1242 (3)	6.231	5350	1.897 ng/ml
23)	Aroclor 1242 (4)	6.380	2130	0.930 ng/ml
24)	Aroclor 1242 (5)	6.598	3097	1.038 ng/ml
25)	Aroclor 1242 (6)	6.727	2175	0.867 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.151	7174	2.108 ng/ml
28)	Aroclor 1248 (2)	6.380	2130	0.472 ng/ml
29)	Aroclor 1248 (3)	6.598	3097	0.593 ng/ml
30)	Aroclor 1248 (4)	6.891	2676	0.461 ng/ml
31)	Aroclor 1248 (5)	6.930	3488	0.566 ng/ml
32)	Aroclor 1248 (6)	7.407	3578	1.047 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.930	3488	0.581 ng/ml
35)	Aroclor 1254 (2)	7.028	2530	0.347 ng/ml
36)	Aroclor 1254 (3)	7.407	3578	0.319 ng/ml
37)	Aroclor 1254 (4)	7.569	4571	0.641 ng/ml
38)	Aroclor 1254 (5)	7.955	5169	0.675 ng/ml
39)	Aroclor 1254 (6)	8.241	2486	0.997 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.524	4984	0.599 ng/ml
42)	Aroclor 1260 (2)	7.655	5535	0.543 ng/ml
43)	Aroclor 1260 (3)	8.210	2527	0.321 ng/ml
44)	Aroclor 1260 (4)	8.377	4354	0.234 ng/ml
45)	Aroclor 1260 (5)	8.678	2472	0.204 ng/ml
46)	Aroclor 1260 (6)	9.068	5930	1.159 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A16014\
Data File : ECD2F030.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 16:10
Operator : MJB / KAK
Sample : 0A16014-CCB4
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 16:33:44 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

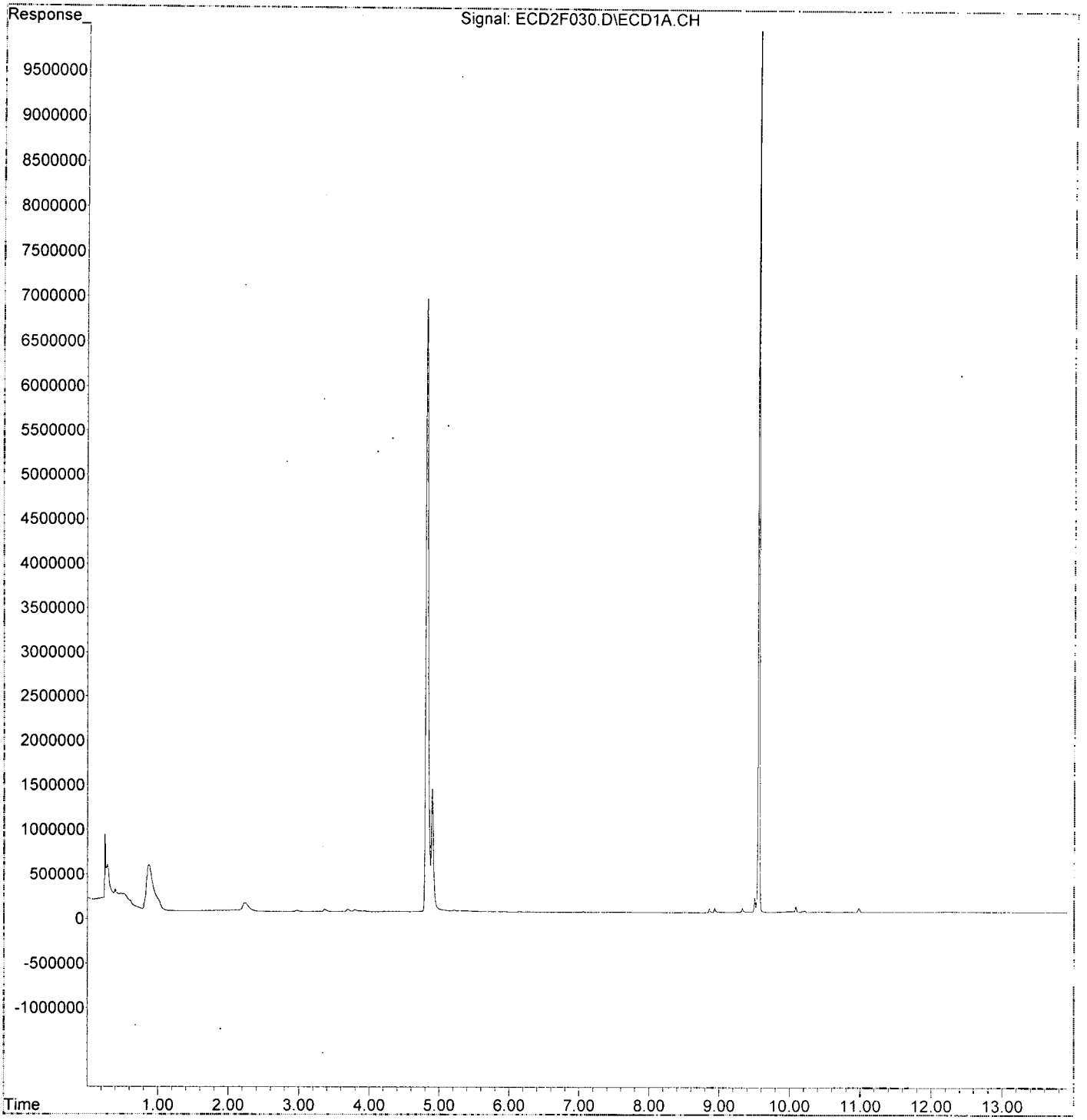
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.655	5535	0.688 ng/ml
49)	Aroclor 1262 (2)	7.975	3623	0.323 ng/ml
50)	Aroclor 1262 (3)	8.210	2527	0.260 ng/ml
51)	Aroclor 1262 (4)	8.377	4354	0.211 ng/ml
52)	Aroclor 1262 (5)	8.678	2472	0.189 ng/ml
53)	Aroclor 1262 (6)	9.068	5930	0.888 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.210	2527	0.495 ng/ml
56)	Aroclor 1268 (2)	8.630	796	0.032 ng/ml
57)	Aroclor 1268 (3)	8.678	2472	0.121 ng/ml
58)	Aroclor 1268 (4)	8.857	46057	2.405 ng/ml
59)	Aroclor 1268 (5)	9.068	5930	0.765 ng/ml
60)	Aroclor 1268 (6)	9.327	48462	0.927 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 : K:\DATA\0A16014\
Data File : ECD2F030.D
Signal(s) : ECD1A.CH
Acq On : 16 Jan 2020 16:10
Operator : MJB / KAK
Sample : 0A16014-CCB4
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Jan 16 16:33:44 2020
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203RT2.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0A16014** Instrument: **DUALECD2F**

Date: **01/16/20 07:29** Calibration: **A9L0407**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A16014-CCV1	Sediment	QC	QC				A19L338
2	0A16014-CCB1	Sediment	QC	QC				A19L339
3	0010436-BLK1	Sediment	QC	QC		0010436		
4	0010436-BS1	Sediment	QC	QC		0010436		
5	0010436-BSD1	Sediment	QC	QC		0010436		
6	A9J0514-31RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	0010436		
7	0A16014-IBL1	Sediment	QC	QC				
8	A9J0514-37RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/27/19	0010436		
9	0A16014-IBL2	Sediment	QC	QC				
10	0A16014-CCV2	Sediment	QC	QC				A19L338
11	0A16014-CCB2	Sediment	QC	QC				A19L339
12	A9J0558-12RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	01/02/20	0010436		
13	0A16014-IBL3	Sediment	QC	QC				
14	A9J0594-13RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	01/06/20	0010436		
15	0A16014-IBL4	Sediment	QC	QC				
16	A9J0594-14RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	01/06/20	0010436		
17	0A16014-IBL5	Sediment	QC	QC				
18	0A16014-CCV3	Sediment	QC	QC				A19L338
19	0A16014-CCB3	Sediment	QC	QC				A19L339

Comments: Partial

Data Entered By: 1/16/20

Data Reviewed By: 1/17/20

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

Polychlorinated Biphenyls by EPA 8082A
Calibration Data

Sequence 9J25014 (Cal ID A9J2803) DUALECD2R

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9J25014** Instrument: **DUALECD2R**

Date: **10/25/19 07:18** Calibration: **A9J2803**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9J25014-ICB1	Water	QC	QC				A19J194
2	9J25014-CAL1	Water	QC	QC				A19F250
3	9J25014-CAL2	Water	QC	QC				A19F251
4	9J25014-CAL3	Water	QC	QC				A19F252
5	9J25014-CAL4	Water	QC	QC				A19F253
6	9J25014-CAL5	Water	QC	QC				A19F247
7	9J25014-CAL6	Water	QC	QC				A19F248
8	9J25014-CAL7	Water	QC	QC				A19F249
9	9J25014-IBL1	Water	QC	QC				
10	9J25014-ICV1	Water	QC	QC				A19H459
11	9J25014-CAL8	Water	QC	QC				A19H447
12	9J25014-CAL9	Water	QC	QC				A19H448
13	9J25014-CALA	Water	QC	QC				A19H449
14	9J25014-CALB	Water	QC	QC				A19H450
15	9J25014-CALC	Water	QC	QC				A19H451
16	9J25014-CALD	Water	QC	QC				A19H452
17	9J25014-CALE	Water	QC	QC				A19H453
18	9J25014-ICV2	Water	QC	QC				A19H405
19	9J25014-ICV3	Water	QC	QC				A19J367
20	9J25014-ICV4	Water	QC	QC				A19H406
21	9J25014-ICV5	Water	QC	QC				A19E303

Comments:

Data Entered By: 10/28/19

Data Reviewed By: 10/28/19

Calibration Status Report HP G1530A

Method Path : L:\Methods\
Method File : RECD2_QUANTPCB_191025.M
Title : PCB Data Analysis
Last Update : Fri Oct 25 14:23:20 2019
Response Via : Initial Calibration

A9J2803 10/28/19

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	K:\DATA\9J25014\ECD2R004.D
2	2	25	0	K:\DATA\9J25014\ECD2R005.D
3	3	50	0	K:\DATA\9J25014\ECD2R006.D
4	4	100	0	K:\DATA\9J25014\ECD2R007.D
5	5	250	0	K:\DATA\9J25014\ECD2R019.D
6	6	500	0	K:\DATA\9J25014\ECD2R009.D
7	7	800	0	K:\DATA\9J25014\ECD2R010.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Oct 25 11:31 2019	Oct 25 11:23 2019	25 Oct 2019 8:19
2	2	Oct 25 11:31 2019	Oct 25 11:25 2019	25 Oct 2019 8:37
3	3	Oct 25 11:31 2019	Oct 25 11:26 2019	25 Oct 2019 8:54
4	4	Oct 25 11:31 2019	Oct 25 11:27 2019	25 Oct 2019 9:12
5	5	Oct 25 14:23 2019	Oct 25 14:21 2019	25 Oct 2019 12:43
6	6	Oct 25 11:32 2019	Oct 25 11:29 2019	25 Oct 2019 9:47
7	7	Oct 25 11:32 2019	Oct 25 11:30 2019	25 Oct 2019 10:05

RECD2_QUANTPCB_191025.M Mon Oct 28 09:51:25 2019

Response Factor Report HP G1530A

Method Path : L:\Methods\
Method File : RECD2_QUANTPCB_191025.M
Title : PCB Data Analysis
Last Update : Fri Oct 25 14:23:20 2019
Response Via : Initial Calibration

Calibration Files
1 =ECD2R004.D 2 =ECD2R005.D 3 =ECD2R006.D
4 =ECD2R007.D 5 =ECD2R019.D 6 =ECD2R009.D

		Compound	1	2	3	4	5	6	Avg		%RSD	
1)	S	TCMX (S)	2.392	2.532	2.582	2.520	2.990	2.823	2.623	E5	7.91	
2)		Aroclor 1016 ...	1.015	0.987	0.925	0.841	0.809	0.801	0.888	E4	9.84	✓
3)		Aroclor 1016 ...	1.713	1.702	1.692	1.475	1.608	1.560	1.636	E4	5.60	✓
4)		Aroclor 1016 ...	8.502	7.706	7.552	6.698	7.013	6.716	7.366	E3	8.65	✓
5)		Aroclor 1016 ...	8.858	8.177	7.726	6.857	6.888	6.546	7.457	E3	11.17	✓
6)		Aroclor 1016 ...	9.451	9.136	8.479	7.726	7.876	7.260	8.251	E3	9.71	✓
7)		Aroclor 1016 (6)	9.587	9.057	8.471	7.445	7.904	7.304	8.231	E3	10.29	✓
8)		Aroclor 1016 ...							0.000		-1.00	
9)		Aroclor 1221 (1)					2.144		2.144	E3	0.00	
10)		Aroclor 1221 (2)					2.186		2.186	E3	0.00	
11)		Aroclor 1221 (3)					7.075		7.075	E3	0.00	
12)		Aroclor 1221 ...							0.000		-1.00	
13)		Aroclor 1232 (1)					5.725		5.725	E3	0.00	
14)		Aroclor 1232 (2)					3.476		3.476	E3	0.00	
15)		Aroclor 1232 (3)					6.474		6.474	E3	0.00	
16)		Aroclor 1232 (4)					2.388		2.388	E3	0.00	
17)		Aroclor 1232 (5)					2.732		2.732	E3	0.00	
18)		Aroclor 1232 (6)					2.966		2.966	E3	0.00	
19)		Aroclor 1232 ...							0.000		-1.00	
20)		Aroclor 1242 ...					6.551		6.551	E3	0.00	
21)		Aroclor 1242 ...					1.183		1.183	E4	0.00	
22)		Aroclor 1242 ...					5.282		5.282	E3	0.00	
23)		Aroclor 1242 ...					4.993		4.993	E3	0.00	
24)		Aroclor 1242 ...					5.814		5.814	E3	0.00	
25)		Aroclor 1242 (6)					6.195		6.195	E3	0.00	
26)		Aroclor 1242 ...							0.000		-1.00	
27)		Aroclor 1248 ...					7.462		7.462	E3	0.00	
28)		Aroclor 1248 ...					9.336		9.336	E3	0.00	
29)		Aroclor 1248 ...					8.770		8.770	E3	0.00	
30)		Aroclor 1248 ...					1.047		1.047	E4	0.00	
31)		Aroclor 1248 ...					1.293		1.293	E4	0.00	
32)		Aroclor 1248 (6)					1.179		1.179	E4	0.00	
33)		Aroclor 1248 ...							0.000		-1.00	
34)		Aroclor 1254 ...					1.293		1.293	E4	0.00	
35)		Aroclor 1254 ...					2.025		2.025	E4	0.00	
36)		Aroclor 1254 ...					2.143		2.143	E4	0.00	
37)		Aroclor 1254 ...					1.652		1.652	E4	0.00	
38)		Aroclor 1254 ...					1.569		1.569	E4	0.00	
39)		Aroclor 1254 (6)					4.890		4.890	E3	0.00	
40)		Aroclor 1254 ...							0.000		-1.00	
41)		Aroclor 1260 ...	1.686	1.648	1.567	1.471	1.569	1.494	1.578	E4	4.94	✓
42)		Aroclor 1260 ...	2.067	2.052	1.996	1.771	2.028	1.787	1.957	E4	6.36	✓
43)		Aroclor 1260 (3)	2.092	2.106	1.985	1.912	2.013	1.904	2.013	E4	4.17	✓
44)		Aroclor 1260 (4)	3.093	3.099	3.070	2.863	2.999	3.123	3.095	E4	5.38	✓
45)		Aroclor 1260 (5)	1.806	1.861	1.747	1.646	1.795	1.768	1.790	E4	4.65	✓
46)		Aroclor 1260 (6)	7.431	7.502	6.942	6.147	6.473	6.505	6.899	E3	7.72	✓
47)		Aroclor 1260 ...							0.000		-1.00	
48)		Aroclor 1262 (1)					1.513		1.513	E4	0.00	
49)		Aroclor 1262 (2)					2.115		2.115	E4	0.00	
50)		Aroclor 1262 (3)					1.747		1.747	E4	0.00	
51)		Aroclor 1262 (4)					3.581		3.581	E4	0.00	
52)		Aroclor 1262 (5)					2.196		2.196	E4	0.00	
53)		Aroclor 1262 (6)					9.701		9.701	E3	0.00	
54)		Aroclor 1262 ...							0.000		-1.00	
55)		Aroclor 1268 (1)					9.333		9.333	E3	0.00	
56)		Aroclor 1268 (2)					3.924		3.924	E4	0.00	
57)		Aroclor 1268 (3)					3.153		3.153	E4	0.00	
58)		Aroclor 1268 (4)					2.709		2.709	E4	0.00	
59)		Aroclor 1268 (5)					1.060		1.060	E4	0.00	
60)		Aroclor 1268 (6)					7.348		7.348	E4	0.00	

Method Path : L:\Methods\
Method File : RECD2_QUANTPCB_191025.M
Title : PCB Data Analysis
Last Update : Fri Oct 25 14:23:20 2019
Response Via : Initial Calibration

Calibration Files
1 =ECD2R004.D 2 =ECD2R005.D 3 =ECD2R006.D
4 =ECD2R007.D 5 =ECD2R019.D 6 =ECD2R009.D

	Compound	1	2	3	4	5	6	Avg	%RSD
61)	Aroclor 1268 ...							0.000	-1.00
62) S	DCBP (S)	1.319	1.403	1.373	1.354	1.513	1.517	1.468 E5	11.14

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

Compound List Report HP G1530A

Method Path : L:\Methods\
Method File : RECD2_QUANTPCB_191025.M
Title : PCB Data Analysis
Last Update : Fri Oct 25 14:23:20 2019
Response Via : Initial Calibration

Total Cpnds : 62

10/28/19

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	5.721	1.000	A	H	R
2		Aroclor 1016 (1)	6.391	1.000	A	H	R
3		Aroclor 1016 (2)	6.880	1.000	A	H	R
4		Aroclor 1016 (3)	7.007	1.000	A	H	R
5		Aroclor 1016 (4)	7.093	1.000	A	H	R
6		Aroclor 1016 (5)	7.138	1.000	A	H	R
7		Aroclor 1016 (6)	7.263	1.000	A	H	R
8		Aroclor 1016 - AVE	1.821	1.000	A	H	R
9		Aroclor 1221 (1)	5.896	1.000	A	H	R
10		Aroclor 1221 (2)	5.967	1.000	A	H	R
11		Aroclor 1221 (3)	6.055	1.000	A	H	R
12		Aroclor 1221 - AVE	1.821	1.000	A	H	R
13		Aroclor 1232 (1)	6.055	1.000	A	H	R
14		Aroclor 1232 (2)	6.392	1.000	A	H	R
15		Aroclor 1232 (3)	6.880	1.000	A	H	R
16		Aroclor 1232 (4)	7.093	1.000	A	H	R
17		Aroclor 1232 (5)	7.138	1.000	A	H	R
18		Aroclor 1232 (6)	7.264	1.000	A	H	R
19		Aroclor 1232 - AVE	1.821	1.000	A	H	R
20		Aroclor 1242 (1)	6.391	1.000	A	H	R
21		Aroclor 1242 (2)	6.879	1.000	A	H	R
22		Aroclor 1242 (3)	7.007	1.000	A	H	R
23		Aroclor 1242 (4)	7.093	1.000	A	H	R
24		Aroclor 1242 (5)	7.137	1.000	A	H	R
25		Aroclor 1242 (6)	7.263	1.000	A	H	R
26		Aroclor 1242 - AVE	1.821	1.000	A	H	R
27		Aroclor 1248 (1)	6.852	1.000	A	H	R
28		Aroclor 1248 (2)	7.093	1.000	A	H	R
29		Aroclor 1248 (3)	7.138	1.000	A	H	R
30		Aroclor 1248 (4)	7.263	1.000	A	H	R
31		Aroclor 1248 (5)	7.628	1.000	A	H	R
32		Aroclor 1248 (6)	7.785	1.000	A	H	R
33		Aroclor 1248 - AVE	1.821	1.000	A	H	R
34		Aroclor 1254 (1)	7.605	1.000	A	H	R
35		Aroclor 1254 (2)	7.786	1.000	A	H	R
36		Aroclor 1254 (3)	8.098	1.000	A	H	R
37		Aroclor 1254 (4)	8.335	1.000	A	H	R
38		Aroclor 1254 (5)	8.669	1.000	A	H	R
39		Aroclor 1254 (6)	8.900	1.000	A	H	R
40		Aroclor 1254 - AVE	1.821	1.000	A	H	R
41		Aroclor 1260 (1)	8.233	1.000	A	H	R
42		Aroclor 1260 (2)	8.439	1.000	A	H	R
43		Aroclor 1260 (3)	8.671	1.000	A	H	R
44		Aroclor 1260 (4)	9.161	1.000	A	H	R
45		Aroclor 1260 (5)	9.428	1.000	A	H	R
46		Aroclor 1260 (6)	10.012	1.000	A	H	R
47		Aroclor 1260 - AVE	1.821	1.000	A	H	R
48		Aroclor 1262 (1)	8.437	1.000	A	H	R
49		Aroclor 1262 (2)	8.738	1.000	A	H	R
50		Aroclor 1262 (3)	8.916	1.000	A	H	R
51		Aroclor 1262 (4)	9.160	1.000	A	H	R
52		Aroclor 1262 (5)	9.427	1.000	A	H	R
53		Aroclor 1262 (6)	10.013	1.000	A	H	R
54		Aroclor 1262 - AVE	1.821	1.000	A	H	R
55		Aroclor 1268 (1)	8.958	1.000	A	H	R
56		Aroclor 1268 (2)	9.429	1.000	A	H	R

57		Aroclor 1268 (3)	9.497	1.000	A	H	R
58		Aroclor 1268 (4)	9.717	1.000	A	H	R
59		Aroclor 1268 (5)	10.014	1.000	A	H	R
60		Aroclor 1268 (6)	10.377	1.000	A	H	R
61		Aroclor 1268 - AVE	1.820	1.000	A	H	R
62	S	DCBP (S)	10.702	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

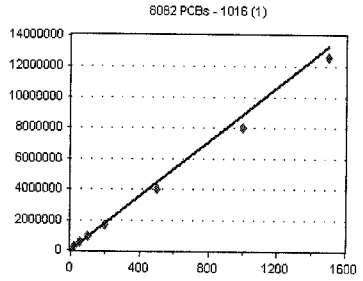
RECD2_QUANTPCB_191025.M Mon Oct 28 09:51:12 2019

Element Calibration Review Sheet

Calibration ID: **A9J2803** Instrument: **DUALECD2R** Calibration Date: **10/28/2019**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD2_QUANTPCB_19102**

1016 (1)

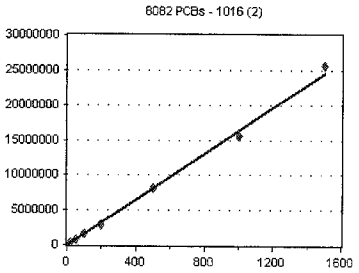


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	20	203035	10151.750	6.39
9J25014-CAL2	50	493668	9873.360	6.39
9J25014-CAL3	100	925201	9252.010	6.39
9J25014-CAL4	200	1681899	8409.495	6.39
9J25014-CAL5	500	4042674	8085.348	6.39
9J25014-CAL6	1000	8009226	8009.226	6.39
9J25014-CAL7	1500	260073E+07	8400.486	6.39

AVE RF **8883.097** RF RSD **9.84** AVE RT **6.39**

1016 (2)

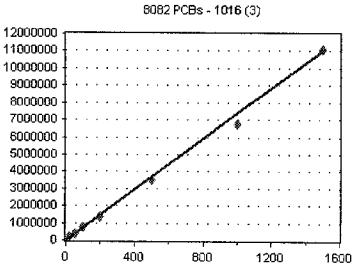


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	20	342549	17127.450	6.88
9J25014-CAL2	50	850982	17019.640	6.88
9J25014-CAL3	100	1692274	16922.740	6.88
9J25014-CAL4	200	2950427	14752.130	6.88
9J25014-CAL5	500	8040226	16080.450	6.88
9J25014-CAL6	1000	560002E+07	15600.020	6.88
9J25014-CAL7	1500	556068E+07	17040.450	6.88

AVE RF **16363.270** RF RSD **5.60** AVE RT **6.88**

1016 (3)

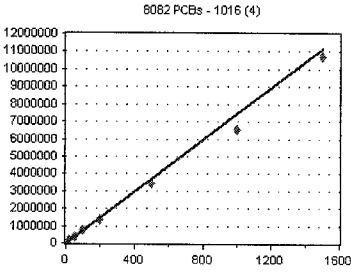


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	20	170044	8502.200	7.01
9J25014-CAL2	50	385301	7706.020	7.01
9J25014-CAL3	100	755246	7552.460	7.01
9J25014-CAL4	200	1339661	6698.305	7.01
9J25014-CAL5	500	3506618	7013.236	7.01
9J25014-CAL6	1000	6715654	6715.654	7.01
9J25014-CAL7	1500	105948E+07	7372.987	7.01

AVE RF **7365.837** RF RSD **8.65** AVE RT **7.01**

1016 (4)



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	20	177152	8857.600	7.09
9J25014-CAL2	50	408863	8177.260	7.09
9J25014-CAL3	100	772578	7725.780	7.09
9J25014-CAL4	200	1371367	6856.835	7.09
9J25014-CAL5	500	3443828	6887.656	7.09
9J25014-CAL6	1000	6545978	6545.978	7.09
9J25014-CAL7	1500	.07251E+07	7150.067	7.09

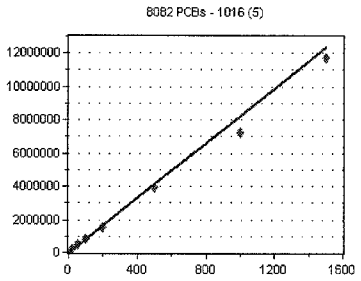
AVE RF **7457.311** RF RSD **11.17** AVE RT **7.09**

Element Calibration Review Sheet

Calibration ID: **A9J2803** Instrument: **DUALECD2R** Calibration Date: **10/28/2019**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD2_QUANTPCB_19102**

1016 (5)

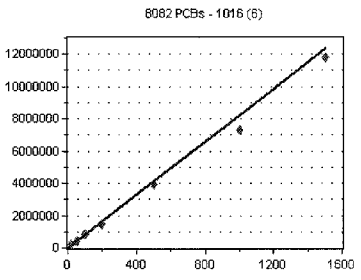


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	20	189025	9451.250	7.14
9J25014-CAL2	50	456813	9136.260	7.14
9J25014-CAL3	100	847932	8479.320	7.14
9J25014-CAL4	200	1545261	7726.305	7.14
9J25014-CAL5	500	3937867	7875.734	7.14
9J25014-CAL6	1000	7260053	7260.053	7.14
9J25014-CAL7	1500	174281E+07	7828.540	7.14

AVE RF **8251.066** RF RSD **9.71** AVE RT **7.14**

1016 (6)

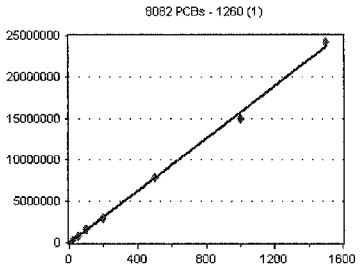


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	20	191737	9586.850	7.26
9J25014-CAL2	50	452852	9057.040	7.26
9J25014-CAL3	100	847087	8470.870	7.26
9J25014-CAL4	200	1488996	7444.980	7.26
9J25014-CAL5	500	3952172	7904.344	7.26
9J25014-CAL6	1000	7304270	7304.270	7.26
9J25014-CAL7	1500	177387E+07	7849.247	7.26

AVE RF **8231.086** RF RSD **10.29** AVE RT **7.26**

1260 (1)

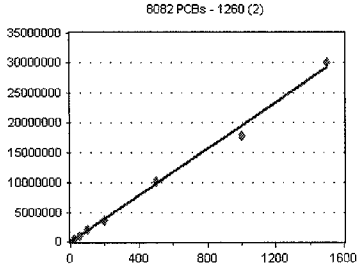


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	20	337139	16856.950	8.23
9J25014-CAL2	50	824221	16484.420	8.23
9J25014-CAL3	100	1567269	15672.690	8.23
9J25014-CAL4	200	2941552	14707.760	8.23
9J25014-CAL5	500	7847499	15695.000	8.23
9J25014-CAL6	1000	494224E+07	14942.240	8.23
9J25014-CAL7	1500	418156E+07	16121.040	8.23

AVE RF **15782.870** RF RSD **4.94** AVE RT **8.23**

1260 (2)



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	20	413345	20667.250	8.44
9J25014-CAL2	50	1025756	20515.120	8.44
9J25014-CAL3	100	1995660	19956.600	8.44
9J25014-CAL4	200	3541866	17709.330	8.44
9J25014-CAL5	500	.01387E+07	20277.400	8.44
9J25014-CAL6	1000	786744E+07	17867.440	8.44
9J25014-CAL7	1500	003444E+07	20022.960	8.44

AVE RF **19573.730** RF RSD **6.36** AVE RT **8.44**

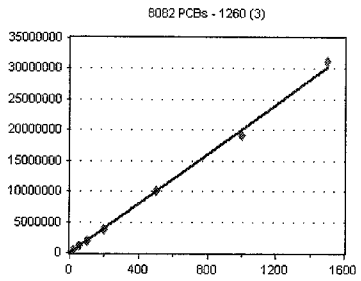
Element Calibration Review Sheet

Calibration ID: **A9J2803** Instrument: **DUALECD2R** Calibration Date: **10/28/2019**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD2_QUANTPCB_19102**

1260 (3)

Curve Fit: **AVERAGE RF**

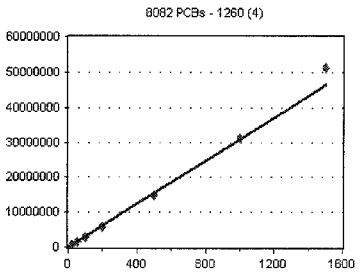


Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	20	418334	20916.700	8.67
9J25014-CAL2	50	1053008	21060.160	8.67
9J25014-CAL3	100	1985447	19854.470	8.67
9J25014-CAL4	200	3824049	19120.240	8.67
9J25014-CAL5	500	006718E+07	20134.360	8.67
9J25014-CAL6	1000	.90367E+07	19036.700	8.67
9J25014-CAL7	1500	.12038E+07	20802.530	8.67

AVE RF **20132.170** RF RSD **4.17** AVE RT **8.67**

1260 (4)

Curve Fit: **AVERAGE RF**

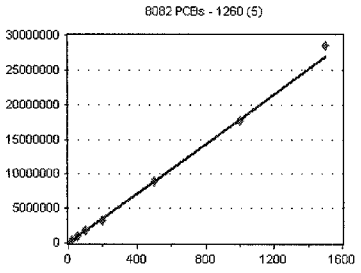


Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	20	618662	30933.100	9.16
9J25014-CAL2	50	1549626	30992.520	9.16
9J25014-CAL3	100	3069980	30699.800	9.16
9J25014-CAL4	200	5726786	28633.930	9.16
9J25014-CAL5	500	499636E+07	29992.720	9.16
9J25014-CAL6	1000	122851E+07	31228.510	9.16
9J25014-CAL7	1500	121403E+07	34142.690	9.16

AVE RF **30946.180** RF RSD **5.38** AVE RT **9.16**

1260 (5)

Curve Fit: **AVERAGE RF**

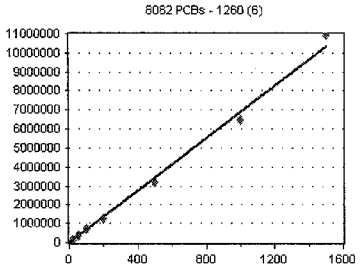


Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	20	361157	18057.850	9.43
9J25014-CAL2	50	930309	18606.180	9.43
9J25014-CAL3	100	1747257	17472.570	9.43
9J25014-CAL4	200	3291800	16459.000	9.43
9J25014-CAL5	500	8974797	17949.590	9.43
9J25014-CAL6	1000	.76817E+07	17681.700	9.43
9J25014-CAL7	1500	858019E+07	19053.460	9.43

AVE RF **17897.190** RF RSD **4.65** AVE RT **9.43**

1260 (6)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	20	148612	7430.600	10.01
9J25014-CAL2	50	375099	7501.980	10.01
9J25014-CAL3	100	694240	6942.400	10.01
9J25014-CAL4	200	1229444	6147.220	10.01
9J25014-CAL5	500	3236527	6473.054	10.01
9J25014-CAL6	1000	6505242	6505.242	10.01
9J25014-CAL7	1500	093401E+07	7289.340	10.01

AVE RF **6898.548** RF RSD **7.72** AVE RT **10.01**

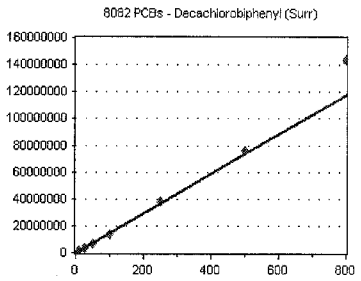
Element Calibration Review Sheet

Calibration ID: **A9J2803** Instrument: **DUALECD2R** Calibration Date: **10/28/2019**

Analysis: **8082 PCBs** Instrument Cal ID: **RECD2_QUANTPCB_19102**

Decachlorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9J25014-CAL1	10	1318659	131865.900	10.70
9J25014-CAL2	25	3507689	140307.600	10.70
9J25014-CAL3	50	6866760	137335.200	10.70
9J25014-CAL4	100	354269E+07	135426.900	10.70
9J25014-CAL5	250	782642E+07	151305.700	10.70
9J25014-CAL6	500	585181E+07	151703.600	10.70
9J25014-CAL7	800	436705E+08	179588.100	10.70

AVE RF **146790.400** RF RSD **11.14** AVE RT **10.70**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9J25014

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) +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
9J25014-ICB1	Initial Cal Blank	Water	A19J194		10/25/2019 8:01:00AM
9J25014-CAL1	Cal Standard	Water	A19F250	"	10/25/2019 8:19:00AM
9J25014-CAL2	Cal Standard	Water	A19F251	"	10/25/2019 8:37:00AM
9J25014-CAL3	Cal Standard	Water	A19F252	"	10/25/2019 8:54:00AM
9J25014-CAL4	Cal Standard	Water	A19F253	"	10/25/2019 9:12:00AM
9J25014-CAL5	Cal Standard	Water	A19F247	"	10/25/2019 9:29:00AM
9J25014-CAL6	Cal Standard	Water	A19F248	"	10/25/2019 9:47:00AM
9J25014-CAL7	Cal Standard	Water	A19F249	"	10/25/2019 10:05:00AM
9J25014-ICV1	Initial Cal Check	Water	A19H459	"	10/25/2019 10:40:00AM
9J25014-CAL8	Cal Standard	Water	A19H447	"	10/25/2019 10:58:00AM
9J25014-CAL9	Cal Standard	Water	A19H448	"	10/25/2019 11:15:00AM
9J25014-CALA	Cal Standard	Water	A19H449	"	10/25/2019 11:33:00AM
9J25014-CALB	Cal Standard	Water	A19H450	"	10/25/2019 11:50:00AM
9J25014-CALC	Cal Standard	Water	A19H451	"	10/25/2019 12:08:00PM
9J25014-CALD	Cal Standard	Water	A19H452	"	10/25/2019 12:26:00PM
9J25014-CALE	Cal Standard	Water	A19H453	"	10/25/2019 12:43:00PM
9J25014-ICV2	Initial Cal Check	Water	A19H405	"	10/25/2019 1:02:00PM
9J25014-ICV3	Initial Cal Check	Water	A19J367	"	10/25/2019 1:20:00PM
9J25014-ICV4	Initial Cal Check	Water	A19H406	"	10/25/2019 1:37:00PM
9J25014-ICV5	Initial Cal Check	Water	A19E303	"	10/25/2019 1:55:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A9J2803** Instrument: **DUALECD2R**

1311/8082 TCLP PCBs Sequence: **9J25014** Matrix: **Water**

9J25014-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	20	0	
Aroclor 1260	0.0000	0.00	20	0	
Aroclor 1016	0.0000	0.00	20	0	
Aroclor 1260	0.0000	0.00	20	0	

9J25014-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	50	0	
Aroclor 1260	0.0000	0.00	50	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9J25014

Aroclor 1016	0.0000	0.00	50	0	
Aroclor 1260	0.0000	0.00	50	0	
9J25014-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	
9J25014-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	
9J25014-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	
9J25014-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	
9J25014-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	
9J25014-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	
9J25014-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	
9J25014-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	
9J25014-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	
9J25014-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: 9J25014

9J25014-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	

9J25014-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: **A9J2803** Instrument: **DUALECD2R**

8082 PCBs Sequence: **9J25014** Matrix: **Water**

9J25014-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 : K:\DATA\9J25014\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:01
Operator : MJB / KAK
Sample : 9J25014-ICB1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:50:32 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

10/28/19

Clean

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.718	27556359	105.044 ng/ml
62) S	DCBP (S)	10.700	14610541	99.533 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.392	13227	1.489 ng/ml
3)	Aroclor 1016 (2)	6.879	17995	1.100 ng/ml
4)	Aroclor 1016 (3)	6.994	19572	2.657 ng/ml
5)	Aroclor 1016 (4)	7.092	19389	2.600 ng/ml
6)	Aroclor 1016 (5)	7.144	20766	2.517 ng/ml
7)	Aroclor 1016 (6)	7.261	20665	2.511 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.887	12214	5.697 ng/ml
10)	Aroclor 1221 (2)	5.962	11334	5.185 ng/ml
11)	Aroclor 1221 (3)	6.038	55121	7.791 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.038	55121	9.629 ng/ml
14)	Aroclor 1232 (2)	6.392	13227	3.805 ng/ml
15)	Aroclor 1232 (3)	6.879	17995	2.780 ng/ml
16)	Aroclor 1232 (4)	7.092	19389	8.121 ng/ml
17)	Aroclor 1232 (5)	7.144	20766	7.600 ng/ml
18)	Aroclor 1232 (6)	7.261	20665	6.967 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.392	13227	2.019 ng/ml
21)	Aroclor 1242 (2)	6.879	17995	1.521 ng/ml
22)	Aroclor 1242 (3)	6.994	19572	3.705 ng/ml
23)	Aroclor 1242 (4)	7.092	19389	3.884 ng/ml
24)	Aroclor 1242 (5)	7.144	20766	3.572 ng/ml
25)	Aroclor 1242 (6)	7.261	20665	3.336 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.857	18207	2.440 ng/ml
28)	Aroclor 1248 (2)	7.092	19389	2.077 ng/ml
29)	Aroclor 1248 (3)	7.144	20766	2.368 ng/ml
30)	Aroclor 1248 (4)	7.261	20665	1.974 ng/ml
31)	Aroclor 1248 (5)	7.629	26385	2.040 ng/ml
32)	Aroclor 1248 (6)	7.754	127372	10.802 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.619	25116	1.943 ng/ml
35)	Aroclor 1254 (2)	7.754	127372	6.291 ng/ml
36)	Aroclor 1254 (3)	8.105	13206	0.616 ng/ml
37)	Aroclor 1254 (4)	8.350	343131	20.775 ng/ml
38)	Aroclor 1254 (5)	8.673	9926	0.632 ng/ml
39)	Aroclor 1254 (6)	8.902	8040	1.644 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.226	15241	0.966 ng/ml
42)	Aroclor 1260 (2)	8.434	21295	1.088 ng/ml
43)	Aroclor 1260 (3)	8.673	9926	0.493 ng/ml
44)	Aroclor 1260 (4)	9.156	3952	0.128 ng/ml
45)	Aroclor 1260 (5)	9.427	3726	0.208 ng/ml
46)	Aroclor 1260 (6)	10.013	4782	0.693 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:01
Operator : MJB / KAK
Sample : 9J25014-ICB1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:50:32 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

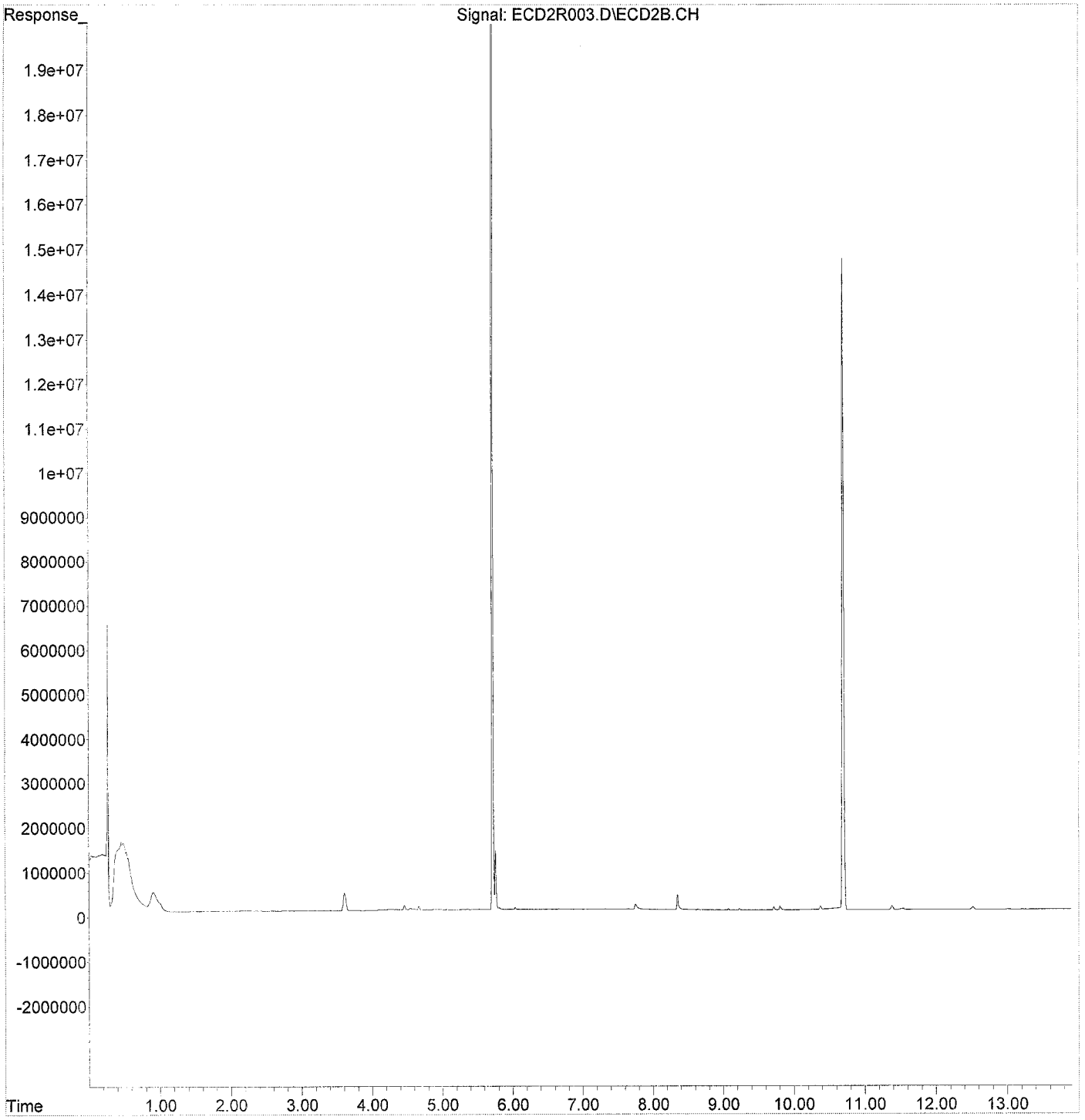
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.434	21295	1.407 ng/ml
49)	Aroclor 1262 (2)	8.737	8663	0.410 ng/ml
50)	Aroclor 1262 (3)	8.915	8112	0.464 ng/ml
51)	Aroclor 1262 (4)	9.156	3952	0.110 ng/ml
52)	Aroclor 1262 (5)	9.427	3726	0.170 ng/ml
53)	Aroclor 1262 (6)	10.013	4782	0.493 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.958	8304	0.890 ng/ml
56)	Aroclor 1268 (2)	9.427	3726	0.095 ng/ml
57)	Aroclor 1268 (3)	9.487	3192	0.101 ng/ml
58)	Aroclor 1268 (4)	9.717	72970	2.694 ng/ml
59)	Aroclor 1268 (5)	10.013	4782	0.451 ng/ml
60)	Aroclor 1268 (6)	10.376	83846	1.141 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 : K:\DATA\9J25014\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:01
Operator : MJB / KAK
Sample : 9J25014-ICB1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:50:32 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:22
Operator : MJB / KAK
Sample : 9J25014-IBL1
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:50:50 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

10/28/19

No Carry-over

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.690	11770	0.045 ng/ml
62) S	DCBP (S)	10.700	5513	0.038 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.390	18426	2.074 ng/ml
3)	Aroclor 1016 (2)	6.888	27114	1.657 ng/ml
4)	Aroclor 1016 (3)	7.013	24169	3.281 ng/ml
5)	Aroclor 1016 (4)	7.101	25823	3.463 ng/ml
6)	Aroclor 1016 (5)	7.136	25296	3.066 ng/ml
7)	Aroclor 1016 (6)	7.269	26819	3.258 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.891	15191	7.086 ng/ml
10)	Aroclor 1221 (2)	5.969	15416	7.052 ng/ml
11)	Aroclor 1221 (3)	6.045	22057	3.118 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.045	22057	3.853 ng/ml
14)	Aroclor 1232 (2)	6.390	18426	5.300 ng/ml
15)	Aroclor 1232 (3)	6.888	27114	4.188 ng/ml
16)	Aroclor 1232 (4)	7.101	25823	10.815 ng/ml
17)	Aroclor 1232 (5)	7.136	25296	9.258 ng/ml
18)	Aroclor 1232 (6)	7.269	26819	9.042 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.390	18426	2.812 ng/ml
21)	Aroclor 1242 (2)	6.888	27114	2.292 ng/ml
22)	Aroclor 1242 (3)	7.013	24169	4.575 ng/ml
23)	Aroclor 1242 (4)	7.101	25823	5.172 ng/ml
24)	Aroclor 1242 (5)	7.136	25296	4.351 ng/ml
25)	Aroclor 1242 (6)	7.269	26819	4.329 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.862	26172	3.507 ng/ml
28)	Aroclor 1248 (2)	7.101	25823	2.766 ng/ml
29)	Aroclor 1248 (3)	7.136	25296	2.885 ng/ml
30)	Aroclor 1248 (4)	7.269	26819	2.561 ng/ml
31)	Aroclor 1248 (5)	7.622	27346	2.114 ng/ml
32)	Aroclor 1248 (6)	7.758	122347	10.376 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.622	27346	2.116 ng/ml
35)	Aroclor 1254 (2)	7.758	122347	6.043 ng/ml
36)	Aroclor 1254 (3)	8.097	18838	0.879 ng/ml
37)	Aroclor 1254 (4)	8.351	340662	20.625 ng/ml
38)	Aroclor 1254 (5)	8.670	13643	0.869 ng/ml
39)	Aroclor 1254 (6)	8.909	9489	1.940 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.235	19682	1.247 ng/ml
42)	Aroclor 1260 (2)	8.467	21567	1.102 ng/ml
43)	Aroclor 1260 (3)	8.670	13643	0.678 ng/ml
44)	Aroclor 1260 (4)	9.161	6575	0.212 ng/ml
45)	Aroclor 1260 (5)	9.428	3767	0.211 ng/ml
46)	Aroclor 1260 (6)	10.008	2564	0.372 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\9J25014\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:22
Operator : MJB / KAK
Sample : 9J25014-IBL1
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:50:50 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

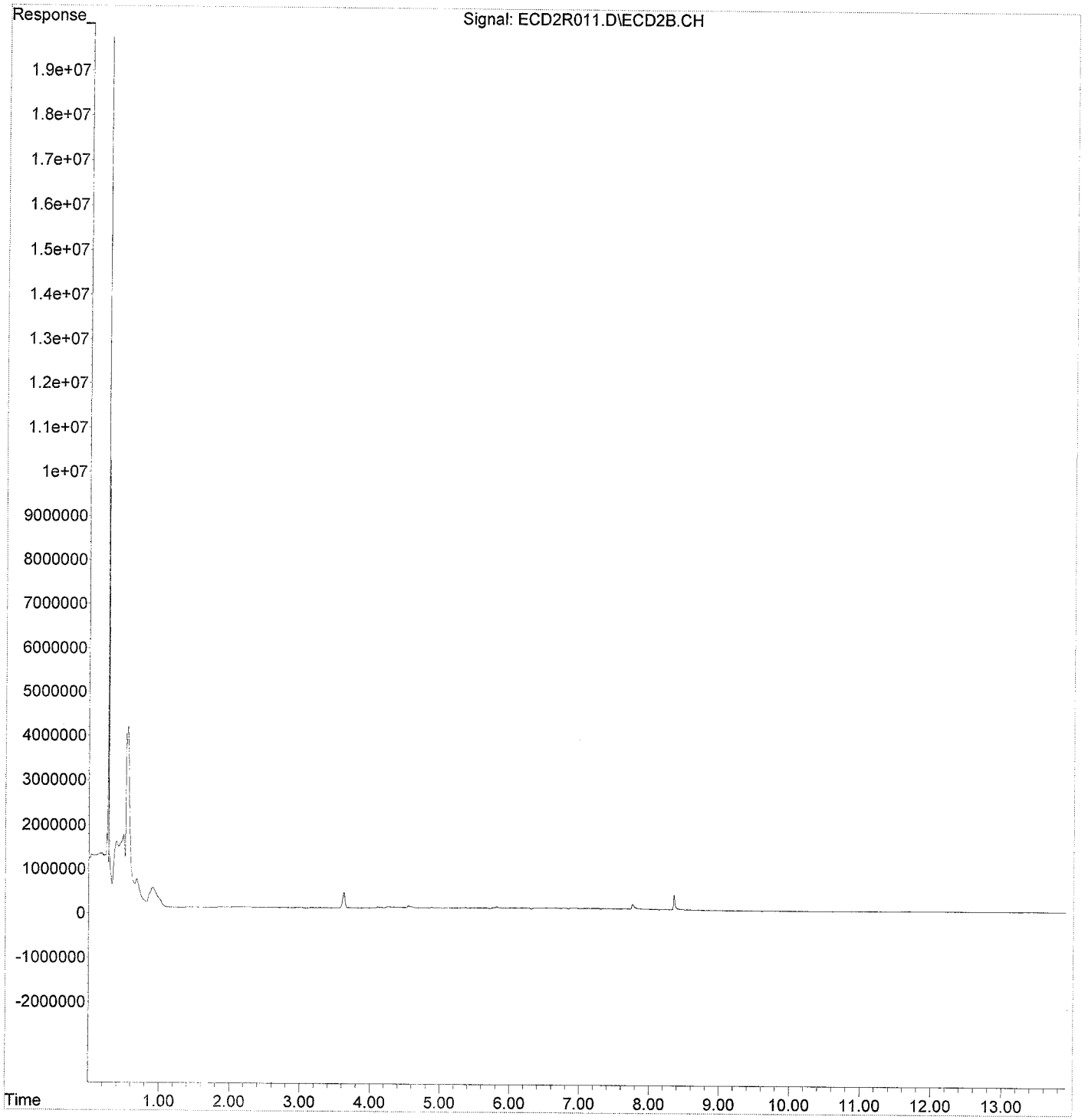
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.467	21567	1.425 ng/ml
49)	Aroclor 1262 (2)	8.734	11593	0.548 ng/ml
50)	Aroclor 1262 (3)	8.915	9304	0.533 ng/ml
51)	Aroclor 1262 (4)	9.161	6575	0.184 ng/ml
52)	Aroclor 1262 (5)	9.428	3767	0.172 ng/ml
53)	Aroclor 1262 (6)	10.008	2564	0.264 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.961	8275	0.887 ng/ml
56)	Aroclor 1268 (2)	9.428	3767	0.096 ng/ml
57)	Aroclor 1268 (3)	9.496	3710	0.118 ng/ml
58)	Aroclor 1268 (4)	9.720	3199	0.118 ng/ml
59)	Aroclor 1268 (5)	10.008	2564	0.242 ng/ml
60)	Aroclor 1268 (6)	10.374	993	0.014 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 : K:\DATA\9J25014\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:22
Operator : MJB / KAK
Sample : 9J25014-IBL1
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:50:50 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:40
Operator : MJB / KAK
Sample : 9J25014-ICV1
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:51:07 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

10/28/19

1016, 1260

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.721	53368717	203.440	ng/ml
62)	S DCBP (S)	10.701	28147899	191.756	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.391	4111835	462.883	ng/ml
3)	Aroclor 1016 (2)	6.880	7654677	467.796	ng/ml
4)	Aroclor 1016 (3)	7.007	3520521	477.953	ng/ml
5)	Aroclor 1016 (4)	7.093	3338734	447.713	ng/ml
6)	Aroclor 1016 (5)	7.138	3775980	457.636	ng/ml
7)	Aroclor 1016 (6)	7.263	3722448	452.243	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.894	272584	127.147	ng/ml
10)	Aroclor 1221 (2)	5.968	535733	245.075	ng/ml
11)	Aroclor 1221 (3)	6.056	2552172	360.742	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.056	2552172	445.820	ng/ml
14)	Aroclor 1232 (2)	6.391	4111835	1182.839	ng/ml
15)	Aroclor 1232 (3)	6.880	7654677	1182.326	ng/ml
16)	Aroclor 1232 (4)	7.093	3338734	1398.364	ng/ml
17)	Aroclor 1232 (5)	7.138	3775980	1381.953	ng/ml
18)	Aroclor 1232 (6)	7.263	3722448	1255.031	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.391	4111835	627.621	ng/ml
21)	Aroclor 1242 (2)	6.880	7654677	646.961	ng/ml
22)	Aroclor 1242 (3)	7.007	3520521	666.456	ng/ml
23)	Aroclor 1242 (4)	7.093	3338734	668.719	ng/ml
24)	Aroclor 1242 (5)	7.138	3775980	649.456	ng/ml
25)	Aroclor 1242 (6)	7.263	3722448	600.871	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.853	6409798	858.949	ng/ml
28)	Aroclor 1248 (2)	7.093	3338734	357.613	ng/ml
29)	Aroclor 1248 (3)	7.138	3775980	430.577	ng/ml
30)	Aroclor 1248 (4)	7.263	3722448	355.516	ng/ml
31)	Aroclor 1248 (5)	7.628	731865	56.589	ng/ml
32)	Aroclor 1248 (6)	7.786	3551286	301.184	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.606	3041600	235.326	ng/ml
35)	Aroclor 1254 (2)	7.786	3551286	175.393	ng/ml
36)	Aroclor 1254 (3)	8.097	1902055	88.766	ng/ml
37)	Aroclor 1254 (4)	8.336	1213528	73.473	ng/ml
38)	Aroclor 1254 (5)	8.670	11136132	709.617	ng/ml
39)	Aroclor 1254 (6)	8.889	1244649	254.522	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.233	8464869	536.333	ng/ml
42)	Aroclor 1260 (2)	8.439	10443443	533.544	ng/ml
43)	Aroclor 1260 (3)	8.670	11136132	553.151	ng/ml
44)	Aroclor 1260 (4)	9.161	14517371	469.117	ng/ml
45)	Aroclor 1260 (5)	9.429	8301461	463.841	ng/ml
46)	Aroclor 1260 (6)	10.014	2589505	375.370	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

461.037

488.58559 10/28/19

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:40
Operator : MJB / KAK
Sample : 9J25014-ICV1
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:51:07 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

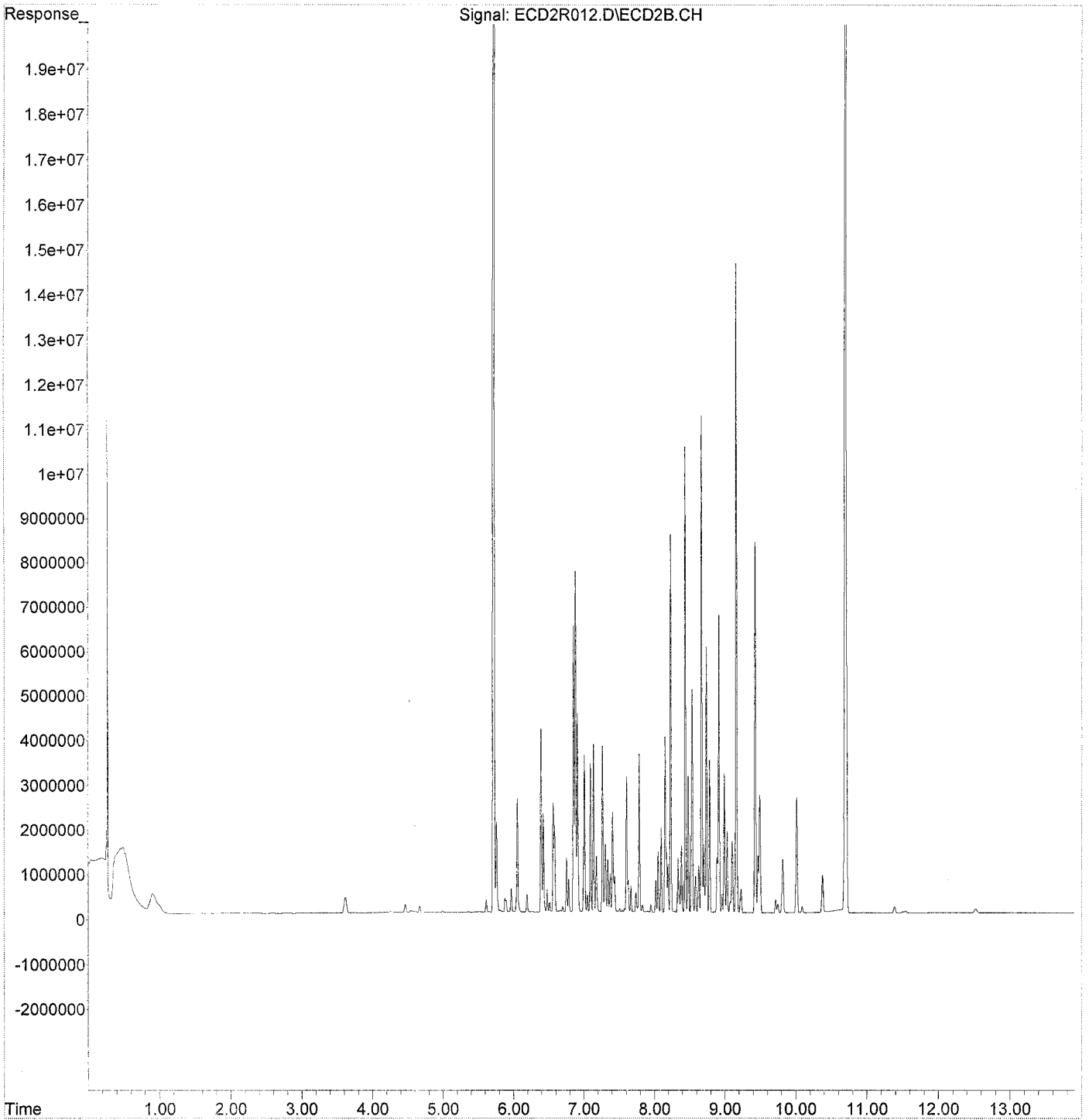
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.439	10443443	690.087 ng/ml
49)	Aroclor 1262 (2)	8.739	5949076	281.224 ng/ml
50)	Aroclor 1262 (3)	8.917	6667821	381.710 ng/ml
51)	Aroclor 1262 (4)	9.161	14517371	405.407 ng/ml
52)	Aroclor 1262 (5)	9.429	8301461	377.943 ng/ml
53)	Aroclor 1262 (6)	10.014	2589505	266.945 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.959	413199	44.271 ng/ml
56)	Aroclor 1268 (2)	9.429	8301461	211.577 ng/ml
57)	Aroclor 1268 (3)	9.494	2645151	83.901 ng/ml
58)	Aroclor 1268 (4)	9.719	297187	10.972 ng/ml
59)	Aroclor 1268 (5)	10.014	2589505	244.381 ng/ml
60)	Aroclor 1268 (6)	10.377	846845	11.525 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 : K:\DATA\9J25014\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:40
Operator : MJB / KAK
Sample : 9J25014-ICV1
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:51:07 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 13:02
Operator : MJB / KAK
Sample : 9J25014-ICV2
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:51:24 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

10/28/19

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.718	11274680	42.979	ng/ml
62)	S DCBP (S)	10.701	12601635	85.848	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.390	744966	83.863	ng/ml
3)	Aroclor 1016 (2)	6.879	1257236	76.833	ng/ml
4)	Aroclor 1016 (3)	7.006	573835	77.905	ng/ml
5)	Aroclor 1016 (4)	7.092	3963620	531.508	ng/ml
6)	Aroclor 1016 (5)	7.138	1549136	187.750	ng/ml
7)	Aroclor 1016 (6)	7.262	2535533	308.043	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.894	2123768	990.631	ng/ml
10)	Aroclor 1221 (2)	5.967	2145063	981.273	ng/ml
11)	Aroclor 1221 (3)	6.054	7434611	1050.859	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.054	7434611	1298.697	ng/ml
14)	Aroclor 1232 (2)	6.390	744966	214.302	ng/ml
15)	Aroclor 1232 (3)	6.879	1257236	194.190	ng/ml
16)	Aroclor 1232 (4)	7.092	3963620	1660.085	ng/ml
17)	Aroclor 1232 (5)	7.138	1549136	566.961	ng/ml
18)	Aroclor 1232 (6)	7.262	2535533	854.860	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.390	744966	113.710	ng/ml
21)	Aroclor 1242 (2)	6.879	1257236	106.260	ng/ml
22)	Aroclor 1242 (3)	7.006	573835	108.631	ng/ml
23)	Aroclor 1242 (4)	7.092	3963620	793.878	ng/ml
24)	Aroclor 1242 (5)	7.138	1549136	266.446	ng/ml
25)	Aroclor 1242 (6)	7.262	2535533	409.281	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.852	1072449	143.714	ng/ml
28)	Aroclor 1248 (2)	7.092	3963620	424.545	ng/ml
29)	Aroclor 1248 (3)	7.138	1549136	176.649	ng/ml
30)	Aroclor 1248 (4)	7.262	2535533	242.159	ng/ml
31)	Aroclor 1248 (5)	7.628	3867982	299.078	ng/ml
32)	Aroclor 1248 (6)	7.786	10669244	904.857	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.606	6671559	516.173	ng/ml
35)	Aroclor 1254 (2)	7.786	10669244	526.939	ng/ml
36)	Aroclor 1254 (3)	8.096	11088952	517.506	ng/ml
37)	Aroclor 1254 (4)	8.335	8021191	485.645	ng/ml
38)	Aroclor 1254 (5)	8.669	8583301	546.946	ng/ml
39)	Aroclor 1254 (6)	8.900	2472718	505.653	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.232	3931473	249.097	ng/ml
42)	Aroclor 1260 (2)	8.438	4714974	240.883	ng/ml
43)	Aroclor 1260 (3)	8.669	8583301	426.348	ng/ml
44)	Aroclor 1260 (4)	9.160	1356478	43.833	ng/ml
45)	Aroclor 1260 (5)	9.427	1090849	60.951	ng/ml
46)	Aroclor 1260 (6)	10.012	77810	11.279	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

1067.588

516.477

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 13:02
Operator : MJB / KAK
Sample : 9J25014-ICV2
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:51:24 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

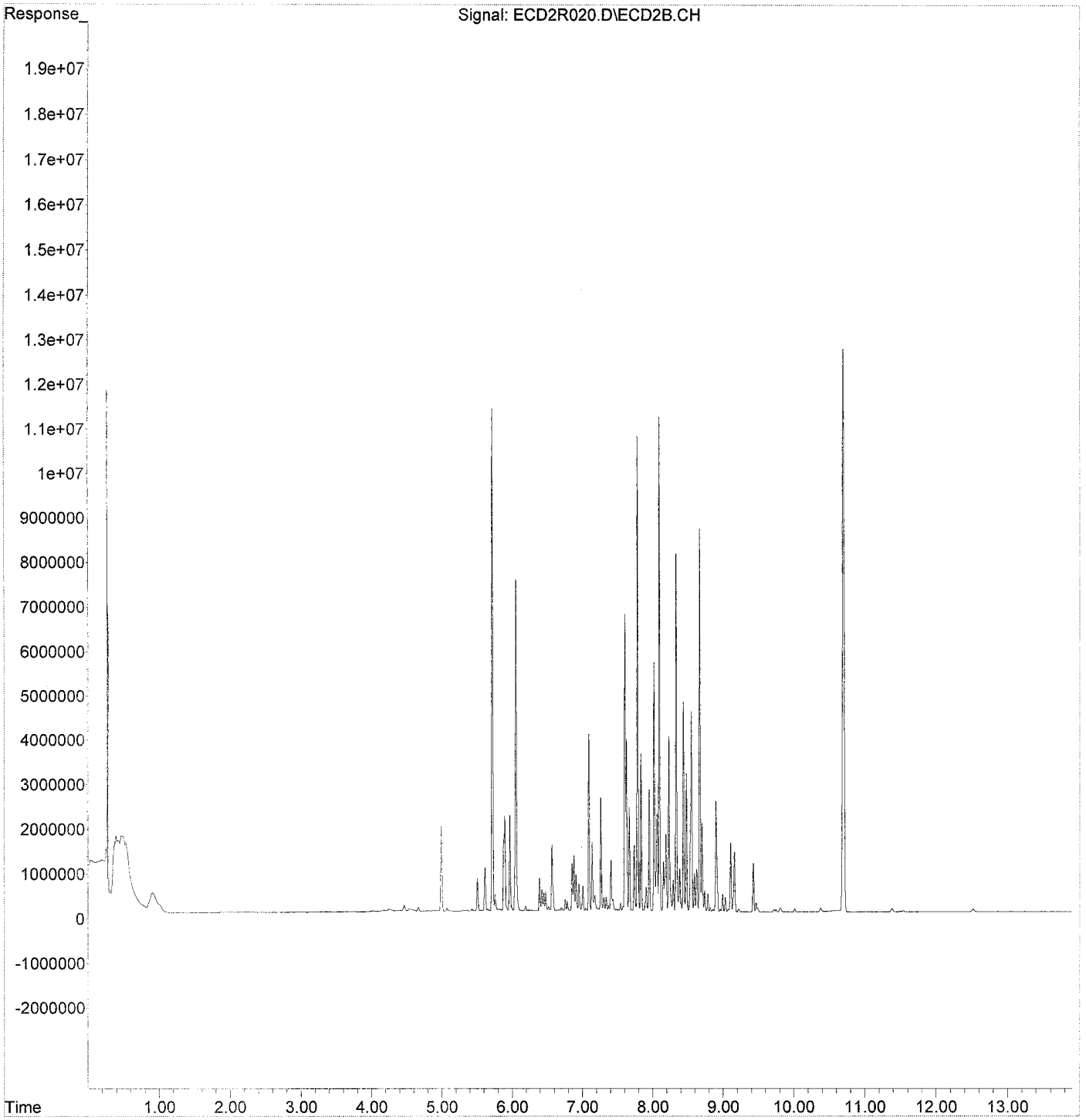
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.438	4714974	311.558 ng/ml
49)	Aroclor 1262 (2)	8.738	489237	23.127 ng/ml
50)	Aroclor 1262 (3)	8.900	2472718	141.555 ng/ml
51)	Aroclor 1262 (4)	9.160	1356478	37.881 ng/ml
52)	Aroclor 1262 (5)	9.427	1090849	49.663 ng/ml
53)	Aroclor 1262 (6)	10.012	77810	8.021 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.959	61405	6.579 ng/ml
56)	Aroclor 1268 (2)	9.427	1090849	27.802 ng/ml
57)	Aroclor 1268 (3)	9.493	87638	2.780 ng/ml
58)	Aroclor 1268 (4)	9.718	61790	2.281 ng/ml
59)	Aroclor 1268 (5)	10.012	77810	7.343 ng/ml
60)	Aroclor 1268 (6)	10.376	84737	1.153 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 : K:\DATA\9J25014\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 13:02
Operator : MJB / KAK
Sample : 9J25014-ICV2
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:51:24 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R021.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 13:20
Operator : MJB / KAK
Sample : 9J25014-ICV3
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:51:42 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

10/28/19

1232, 1262

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1)	S TCMX (S)	5.718	11042209	42.093 ng/ml
62)	S DCBP (S)	10.699	13066737	89.016 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.390	1865512	210.007 ng/ml
3)	Aroclor 1016 (2)	6.879	3384841	206.856 ng/ml
4)	Aroclor 1016 (3)	7.006	1589246	215.759 ng/ml
5)	Aroclor 1016 (4)	7.092	1394711	187.026 ng/ml
6)	Aroclor 1016 (5)	7.137	1532904	185.783 ng/ml
7)	Aroclor 1016 (6)	7.262	1611313	195.759 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.894	676475	315.541 ng/ml
10)	Aroclor 1221 (2)	5.967	788459	360.686 ng/ml
11)	Aroclor 1221 (3)	6.054	2947524	416.623 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	6.054	2947524	514.881 ng/ml
14)	Aroclor 1232 (2)	6.390	1865512	536.646 ng/ml
15)	Aroclor 1232 (3)	6.879	3384841	522.816 ng/ml
16)	Aroclor 1232 (4)	7.092	1394711	584.147 ng/ml
17)	Aroclor 1232 (5)	7.137	1532904	561.020 ng/ml
18)	Aroclor 1232 (6)	7.262	1611313	543.258 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	6.390	1865512	284.747 ng/ml
21)	Aroclor 1242 (2)	6.879	3384841	286.082 ng/ml
22)	Aroclor 1242 (3)	7.006	1589246	300.854 ng/ml
23)	Aroclor 1242 (4)	7.092	1394711	279.348 ng/ml
24)	Aroclor 1242 (5)	7.137	1532904	263.654 ng/ml
25)	Aroclor 1242 (6)	7.262	1611313	260.095 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.851	2839214	380.471 ng/ml
28)	Aroclor 1248 (2)	7.092	1394711	149.388 ng/ml
29)	Aroclor 1248 (3)	7.137	1532904	174.798 ng/ml
30)	Aroclor 1248 (4)	7.262	1611313	153.890 ng/ml
31)	Aroclor 1248 (5)	7.627	1901290	147.011 ng/ml
32)	Aroclor 1248 (6)	7.785	2598036	220.339 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	7.607	1895634	146.663 ng/ml
35)	Aroclor 1254 (2)	7.785	2598036	128.313 ng/ml
36)	Aroclor 1254 (3)	8.096	1017618	47.491 ng/ml
37)	Aroclor 1254 (4)	8.336	803872	48.671 ng/ml
38)	Aroclor 1254 (5)	8.671	6101946	388.828 ng/ml
39)	Aroclor 1254 (6)	8.886	1873958	383.211 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	8.232	6342349	401.850 ng/ml
42)	Aroclor 1260 (2)	8.438	7675275	392.121 ng/ml
43)	Aroclor 1260 (3)	8.671	6101946	303.094 ng/ml
44)	Aroclor 1260 (4)	9.160	17971064	580.720 ng/ml
45)	Aroclor 1260 (5)	9.428	9961323	556.586 ng/ml
46)	Aroclor 1260 (6)	10.012	4587639	665.015 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

543.795

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R021.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 13:20
Operator : MJB / KAK
Sample : 9J25014-ICV3
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:51:42 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.438	7675275	507.171 ng/ml
49)	Aroclor 1262 (2)	8.738	10522774	497.430 ng/ml
50)	Aroclor 1262 (3)	8.916	8447542	483.593 ng/ml
51)	Aroclor 1262 (4)	9.160	17971064	501.854 ng/ml
52)	Aroclor 1262 (5)	9.428	9961323	453.513 ng/ml
53)	Aroclor 1262 (6)	10.012	4587639	472.927 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.957	1115515	119.519 ng/ml
56)	Aroclor 1268 (2)	9.428	9961323	253.881 ng/ml
57)	Aroclor 1268 (3)	9.494	5460035	173.185 ng/ml
58)	Aroclor 1268 (4)	9.716	460031	16.985 ng/ml
59)	Aroclor 1268 (5)	10.012	4587639	432.952 ng/ml
60)	Aroclor 1268 (6)	10.374	1476627	20.095 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

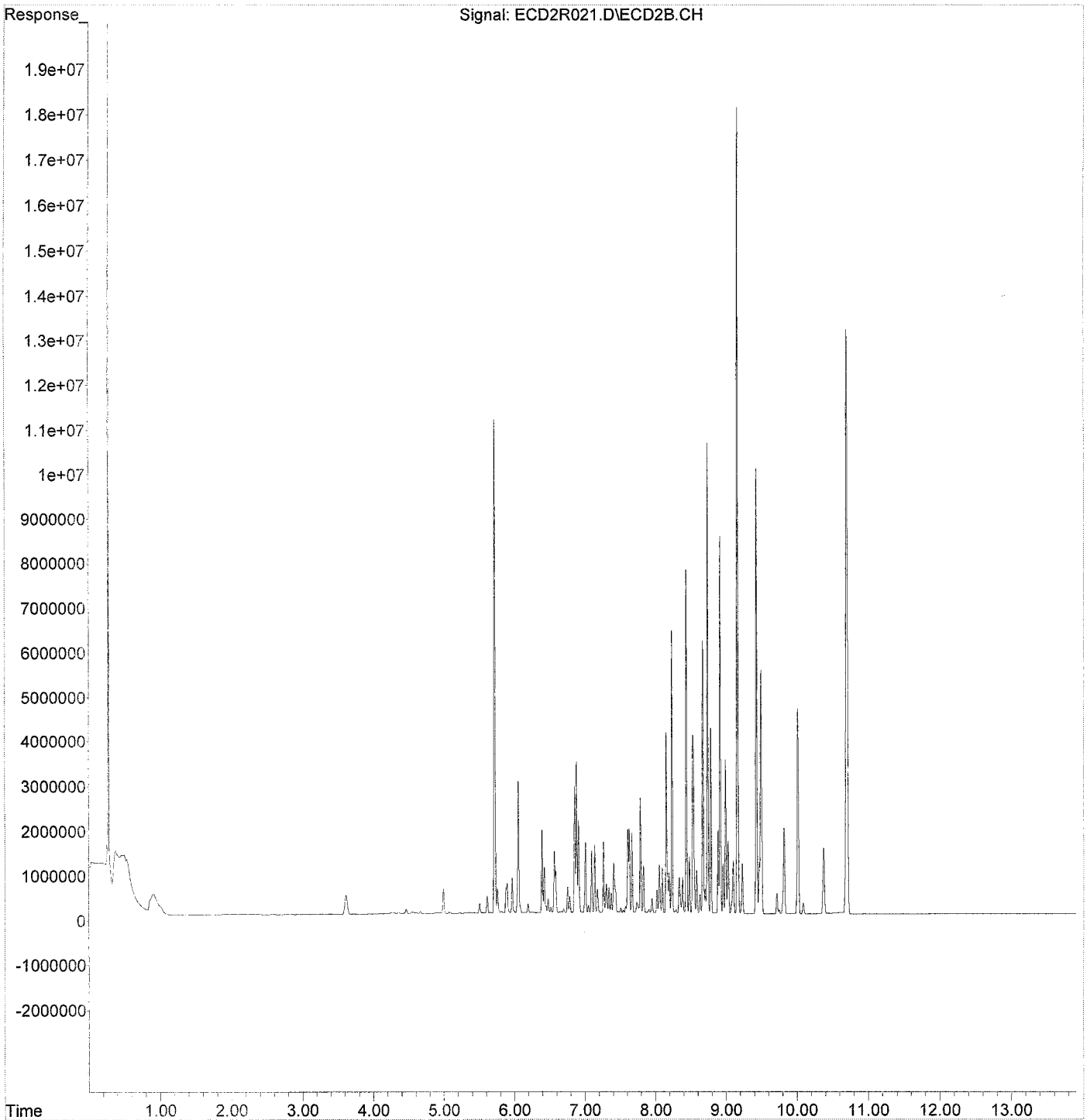
486.081

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R021.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 13:20
Operator : MJB / KAK
Sample : 9J25014-ICV3
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:51:42 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R022.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 13:37
Operator : MJB / KAK
Sample : 9J25014-ICV4
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:51:58 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

10/28/19

1242, 1268

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.720	11774556	44.884	ng/ml
62)	S DCBP (S)	10.700	5990375	40.809	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.391	3530071	397.392	ng/ml
3)	Aroclor 1016 (2)	6.880	6752199	412.644	ng/ml
4)	Aroclor 1016 (3)	7.006	2900921	393.835	ng/ml
5)	Aroclor 1016 (4)	7.093	2633333	353.121	ng/ml
6)	Aroclor 1016 (5)	7.138	3153322	382.172	ng/ml
7)	Aroclor 1016 (6)	7.263	3211296	390.142	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.895	239368	111.653	ng/ml
10)	Aroclor 1221 (2)	5.968	488990	223.692	ng/ml
11)	Aroclor 1221 (3)	6.056	2395944	338.659	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.056	2395944	418.530	ng/ml
14)	Aroclor 1232 (2)	6.391	3530071	1015.484	ng/ml
15)	Aroclor 1232 (3)	6.880	6752199	1042.931	ng/ml
16)	Aroclor 1232 (4)	7.093	2633333	1102.920	ng/ml
17)	Aroclor 1232 (5)	7.138	3153322	1154.070	ng/ml
18)	Aroclor 1232 (6)	7.263	3211296	1082.695	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.391	3530071	538.822	ng/ml
21)	Aroclor 1242 (2)	6.880	6752199	570.685	ng/ml
22)	Aroclor 1242 (3)	7.006	2900921	549.162	ng/ml
23)	Aroclor 1242 (4)	7.093	2633333	527.433	ng/ml
24)	Aroclor 1242 (5)	7.138	3153322	542.361	ng/ml
25)	Aroclor 1242 (6)	7.263	3211296	518.362	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.853	5238752	702.022	ng/ml
28)	Aroclor 1248 (2)	7.093	2633333	282.058	ng/ml
29)	Aroclor 1248 (3)	7.138	3153322	359.575	ng/ml
30)	Aroclor 1248 (4)	7.263	3211296	306.698	ng/ml
31)	Aroclor 1248 (5)	7.628	3630750	280.735	ng/ml
32)	Aroclor 1248 (6)	7.784	2898339	245.808	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.610	2531991	195.898	ng/ml
35)	Aroclor 1254 (2)	7.784	2898339	143.145	ng/ml
36)	Aroclor 1254 (3)	8.097	1092695	50.995	ng/ml
37)	Aroclor 1254 (4)	8.335	807742	48.905	ng/ml
38)	Aroclor 1254 (5)	8.671	225525	14.371	ng/ml
39)	Aroclor 1254 (6)	8.886	189258	38.702	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.232	104686	6.633	ng/ml
42)	Aroclor 1260 (2)	8.436	177183	9.052	ng/ml
43)	Aroclor 1260 (3)	8.671	225525	11.202	ng/ml
44)	Aroclor 1260 (4)	9.160	2092602	67.621	ng/ml
45)	Aroclor 1260 (5)	9.430	20491920	1144.979	ng/ml
46)	Aroclor 1260 (6)	10.013	5622341	815.004	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

541.138

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R022.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 13:37
Operator : MJB / KAK
Sample : 9J25014-ICV4
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:51:58 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.436	177183	11.708	ng/ml
49)	Aroclor 1262 (2)	8.739	4093586	193.511	ng/ml
50)	Aroclor 1262 (3)	8.917	329296	18.851	ng/ml
51)	Aroclor 1262 (4)	9.160	2092602	58.437	ng/ml
52)	Aroclor 1262 (5)	9.430	20491920	932.943	ng/ml
53)	Aroclor 1262 (6)	10.013	5622341	579.591	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.958	4616698	494.645	ng/ml
56)	Aroclor 1268 (2)	9.430	20491920	522.271	ng/ml
57)	Aroclor 1268 (3)	9.497	15875048	503.536	ng/ml
58)	Aroclor 1268 (4)	9.717	13592202	501.830	ng/ml
59)	Aroclor 1268 (5)	10.013	5622341	530.601	ng/ml
60)	Aroclor 1268 (6)	10.376	36963889	503.042	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

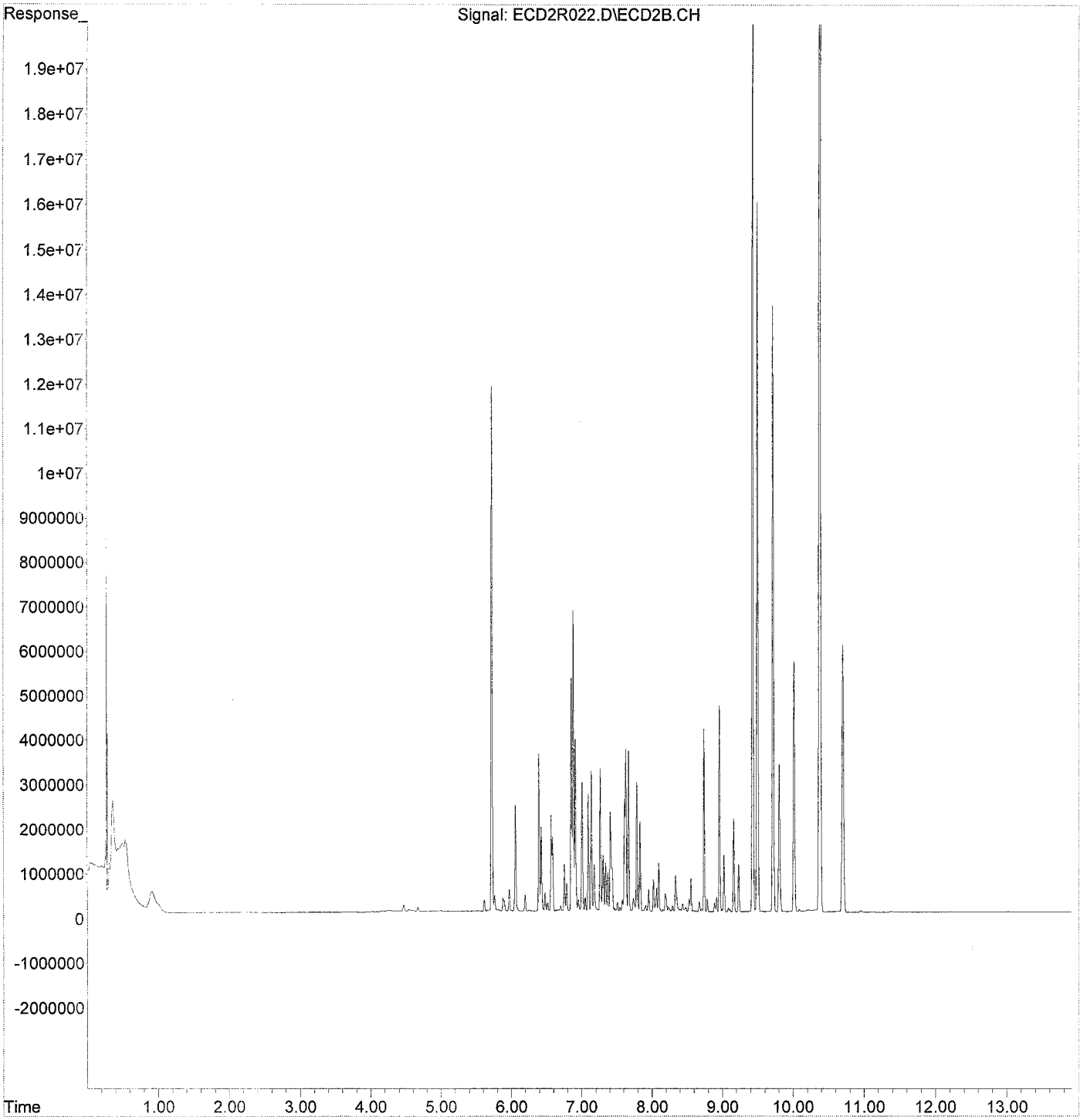
509.321

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R022.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 13:37
Operator : MJB / KAK
Sample : 9J25014-ICV4
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:51:58 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 13:55
Operator : MJB / KAK
Sample : 9J25014-ICV5
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:52:15 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

10/28/19

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.716	6919	0.026	ng/ml
62)	S DCBP (S)	10.699	2750	0.019	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.390	2023125	227.750	ng/ml
3)	Aroclor 1016 (2)	6.879	4050930	247.562	ng/ml
4)	Aroclor 1016 (3)	7.005	1768800	240.136	ng/ml
5)	Aroclor 1016 (4)	7.093	5217069	699.591	ng/ml
6)	Aroclor 1016 (5)	7.137	5113353	619.721	ng/ml
7)	Aroclor 1016 (6)	7.263	6074070	737.942	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.895	36930	17.226	ng/ml
10)	Aroclor 1221 (2)	5.967	60101	27.494	ng/ml
11)	Aroclor 1221 (3)	6.054	298823	42.238	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	6.054	298823	52.199	ng/ml
14)	Aroclor 1232 (2)	6.390	2023125	581.986	ng/ml
15)	Aroclor 1232 (3)	6.879	4050930	625.699	ng/ml
16)	Aroclor 1232 (4)	7.093	5217069	2185.068	ng/ml
17)	Aroclor 1232 (5)	7.137	5113353	1871.412	ng/ml
18)	Aroclor 1232 (6)	7.263	6074070	2047.886	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	6.390	2023125	308.805	ng/ml
21)	Aroclor 1242 (2)	6.879	4050930	342.378	ng/ml
22)	Aroclor 1242 (3)	7.005	1768800	334.845	ng/ml
23)	Aroclor 1242 (4)	7.093	5217069	1044.932	ng/ml
24)	Aroclor 1242 (5)	7.137	5113353	879.479	ng/ml
25)	Aroclor 1242 (6)	7.263	6074070	980.466	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.852	4118248	551.868	ng/ml
28)	Aroclor 1248 (2)	7.093	5217069	558.803	ng/ml
29)	Aroclor 1248 (3)	7.137	5113353	583.078	ng/ml
30)	Aroclor 1248 (4)	7.263	6074070	580.110	ng/ml
31)	Aroclor 1248 (5)	7.628	7782994	601.793	ng/ml
32)	Aroclor 1248 (6)	7.784	6754781	572.872	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	7.609	5215169	403.493	ng/ml
35)	Aroclor 1254 (2)	7.784	6754781	333.609	ng/ml
36)	Aroclor 1254 (3)	8.096	3731751	174.155	ng/ml
37)	Aroclor 1254 (4)	8.334	2682738	162.427	ng/ml
38)	Aroclor 1254 (5)	8.668	594359	37.874	ng/ml
39)	Aroclor 1254 (6)	8.899	233869	47.825	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	8.231	342998	21.732	ng/ml
42)	Aroclor 1260 (2)	8.434	477807	24.411	ng/ml
43)	Aroclor 1260 (3)	8.668	594359	29.523	ng/ml
44)	Aroclor 1260 (4)	9.159	114546	3.701	ng/ml
45)	Aroclor 1260 (5)	9.427	79254	4.428	ng/ml
46)	Aroclor 1260 (6)	10.012	22494	3.261	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

574.759

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 13:55
Operator : MJB / KAK
Sample : 9J25014-ICV5
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:52:15 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

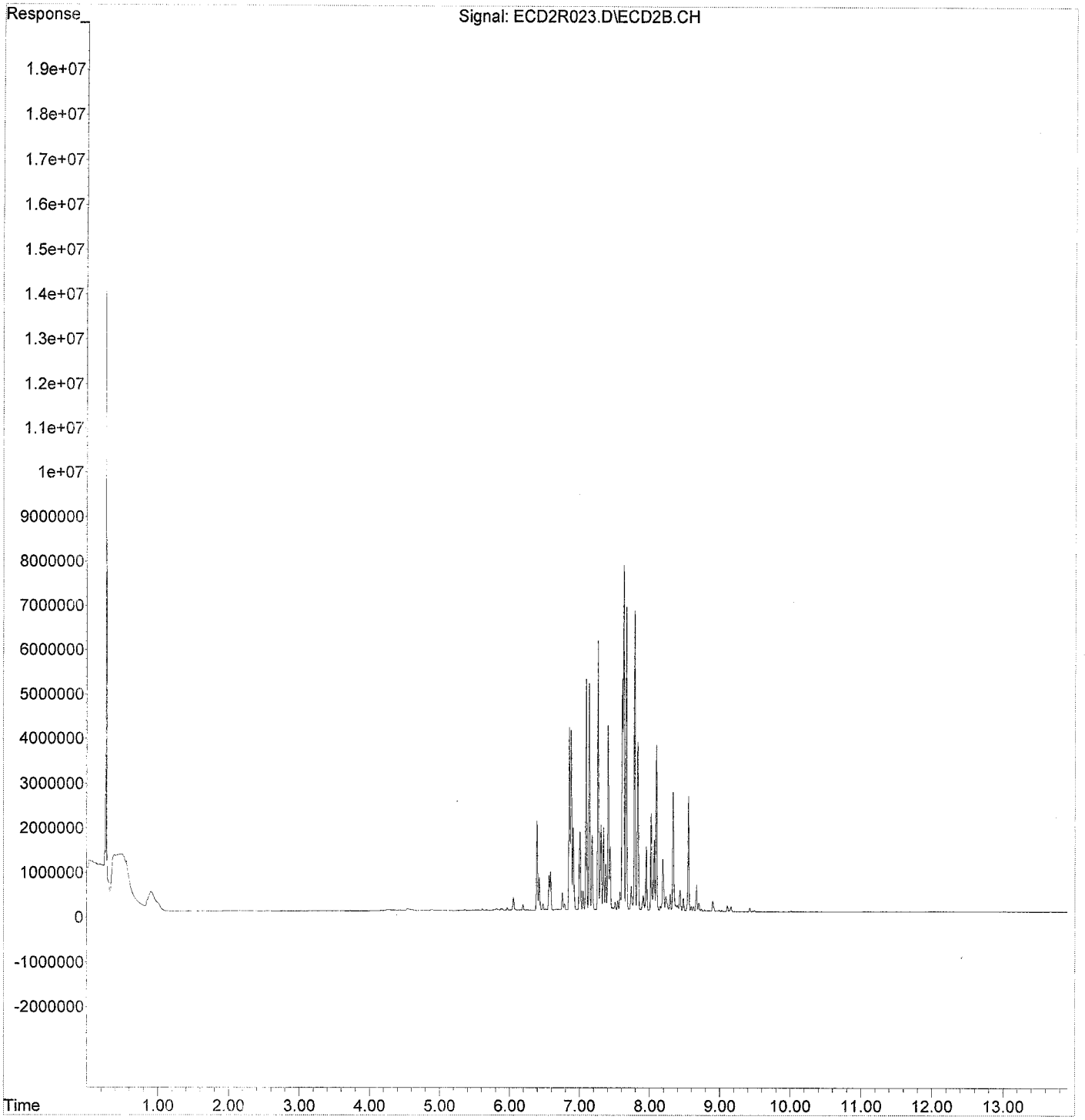
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.434	477807	31.573 ng/ml
49)	Aroclor 1262 (2)	8.738	58424	2.762 ng/ml
50)	Aroclor 1262 (3)	8.899	233869	13.388 ng/ml
51)	Aroclor 1262 (4)	9.159	114546	3.199 ng/ml
52)	Aroclor 1262 (5)	9.427	79254	3.608 ng/ml
53)	Aroclor 1262 (6)	10.012	22494	2.319 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.957	13896	1.489 ng/ml
56)	Aroclor 1268 (2)	9.427	79254	2.020 ng/ml
57)	Aroclor 1268 (3)	9.493	24357	0.773 ng/ml
58)	Aroclor 1268 (4)	9.717	2412	0.089 ng/ml
59)	Aroclor 1268 (5)	10.012	22494	2.123 ng/ml
60)	Aroclor 1268 (6)	10.373	8052	0.110 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 : K:\DATA\9J25014\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 13:55
Operator : MJB / KAK
Sample : 9J25014-ICV5
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:52:15 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:19
Operator : MJB / KAK
Sample : 9J25014-CAL1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:17:58 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.717	2391999	9.118	ng/ml
62) S	DCBP (S)	10.698	1318659	8.983	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.390	203035	22.856	ng/ml
3)	Aroclor 1016 (2)	6.879	342549	20.934	ng/ml
4)	Aroclor 1016 (3)	7.006	170044	23.085	ng/ml
5)	Aroclor 1016 (4)	7.092	177152	23.755	ng/ml
6)	Aroclor 1016 (5)	7.137	189025	22.909	ng/ml
7)	Aroclor 1016 (6)	7.262	191737	23.294	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)	8.232	337139	21.361	ng/ml
42)	Aroclor 1260 (2)	8.437	413345	21.117	ng/ml
43)	Aroclor 1260 (3)	8.670	418334	20.779	ng/ml
44)	Aroclor 1260 (4)	9.160	618662	19.992	ng/ml
45)	Aroclor 1260 (5)	9.427	361157	20.180	ng/ml
46)	Aroclor 1260 (6)	10.012	148612	21.542	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

10/28/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:19
Operator : MJB / KAK
Sample : 9J25014-CAL1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:17:58 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

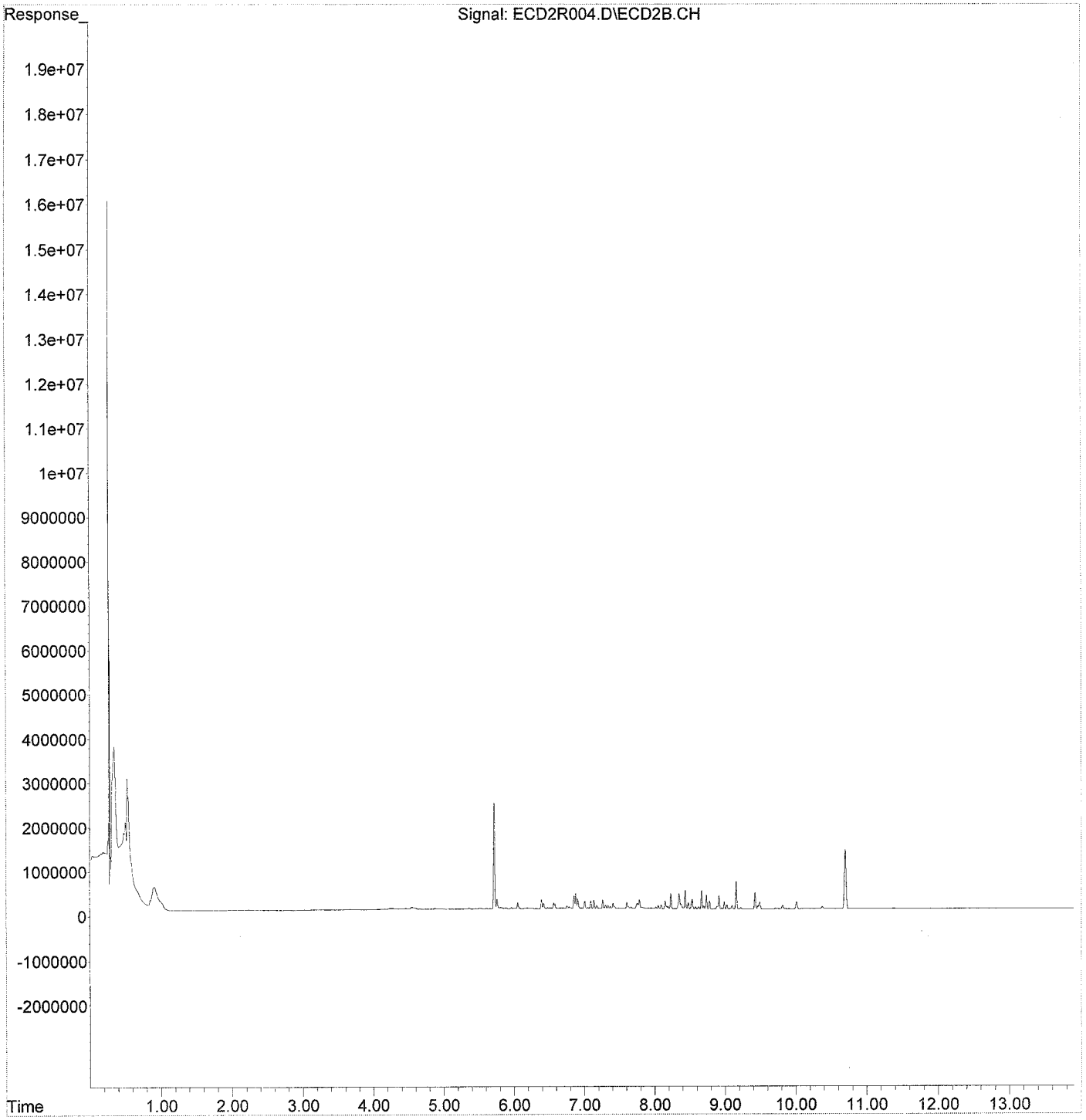
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\requant\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:19
Operator : MJB / KAK
Sample : 9J25014-CAL1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:17:58 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:37
Operator : MJB / KAK
Sample : 9J25014-CAL2
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:18:18 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.718	6329448	24.128 ng/ml
62) S	DCBP (S)	10.699	3507689	23.896 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.390	493668	55.574 ng/ml
3)	Aroclor 1016 (2)	6.878	850982	52.006 ng/ml
4)	Aroclor 1016 (3)	7.005	385301	52.309 ng/ml
5)	Aroclor 1016 (4)	7.092	408863	54.827 ng/ml
6)	Aroclor 1016 (5)	7.136	456813	55.364 ng/ml
7)	Aroclor 1016 (6)	7.261	452852	55.017 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)	8.231	824221	52.223 ng/ml
42)	Aroclor 1260 (2)	8.436	1025756	52.405 ng/ml
43)	Aroclor 1260 (3)	8.669	1053008	52.305 ng/ml
44)	Aroclor 1260 (4)	9.159	1549626	50.075 ng/ml
45)	Aroclor 1260 (5)	9.426	930309	51.981 ng/ml
46)	Aroclor 1260 (6)	10.011	375099	54.374 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

10/28/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:37
Operator : MJB / KAK
Sample : 9J25014-CAL2
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:18:18 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

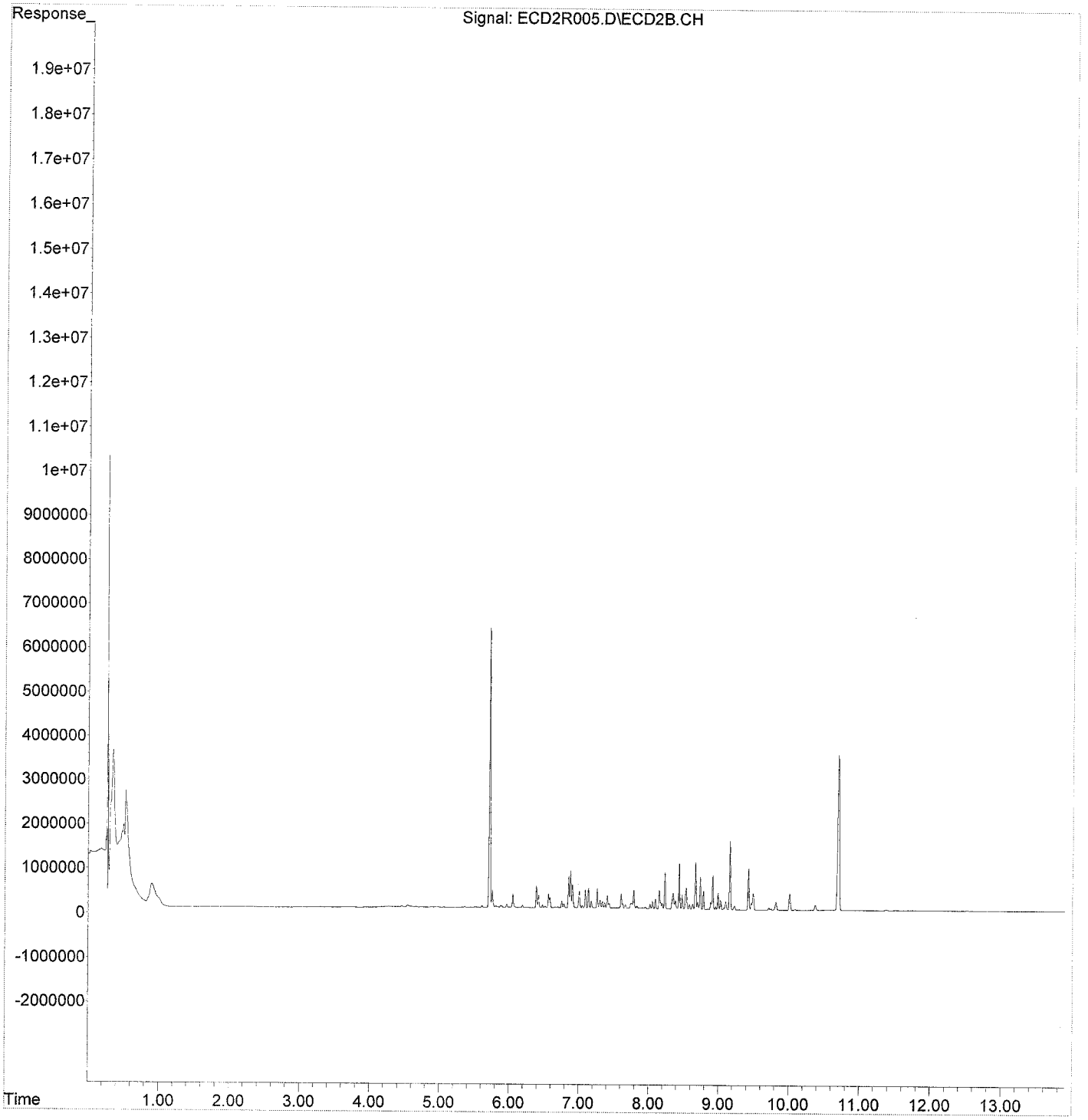
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	0.000	0	N.D. ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D. ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D. ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D. ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D. ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D. ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\requant\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:37
Operator : MJB / KAK
Sample : 9J25014-CAL2
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:18:18 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:54
Operator : MJB / KAK
Sample : 9J25014-CAL3
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:18:37 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.719	12908276	49.206	ng/ml
62) S	DCBP (S)	10.700	6866760	46.779	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.390	925201	104.153	ng/ml
3)	Aroclor 1016 (2)	6.879	1692274	103.419	ng/ml
4)	Aroclor 1016 (3)	7.006	755246	102.534	ng/ml
5)	Aroclor 1016 (4)	7.092	772578	103.600	ng/ml
6)	Aroclor 1016 (5)	7.137	847932	102.766	ng/ml
7)	Aroclor 1016 (6)	7.262	847087	102.913	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)	8.231	1567269	99.302	ng/ml
42)	Aroclor 1260 (2)	8.437	1995660	101.956	ng/ml
43)	Aroclor 1260 (3)	8.669	1985447	98.621	ng/ml
44)	Aroclor 1260 (4)	9.160	3069980	99.204	ng/ml
45)	Aroclor 1260 (5)	9.427	1747257	97.627	ng/ml
46)	Aroclor 1260 (6)	10.013	694240	100.636	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

10/28/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:54
Operator : MJB / KAK
Sample : 9J25014-CAL3
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:18:37 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

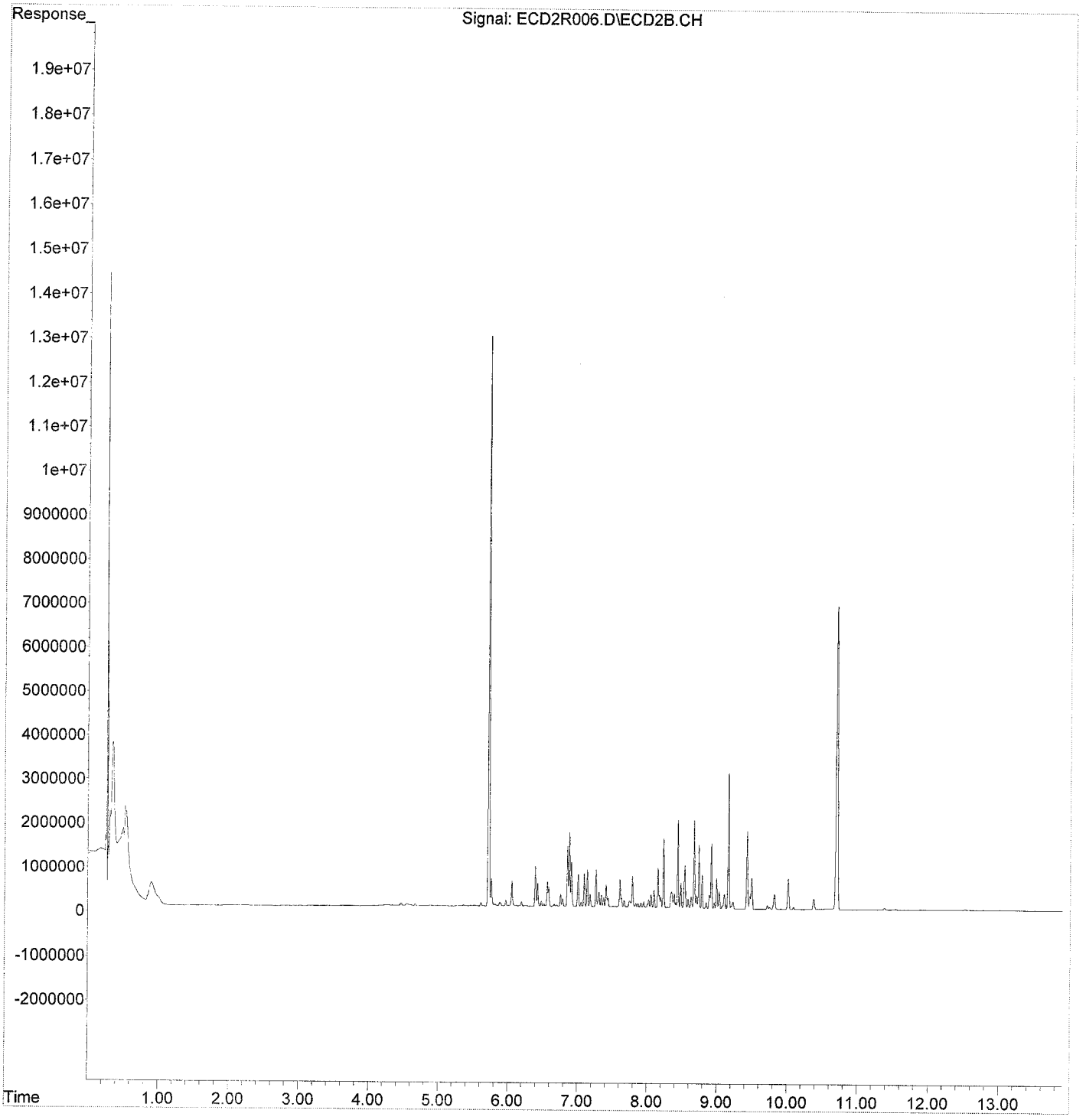
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\requant\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:54
Operator : MJB / KAK
Sample : 9J25014-CAL3
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:18:37 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:12
Operator : MJB / KAK
Sample : 9J25014-CAL4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:18:55 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.719	25201953	96.069	ng/ml
62)	S DCBP (S)	10.701	13542694	92.259	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.391	1681899	189.337	ng/ml
3)	Aroclor 1016 (2)	6.880	2950427	180.308	ng/ml
4)	Aroclor 1016 (3)	7.007	1339661	181.875	ng/ml
5)	Aroclor 1016 (4)	7.093	1371367	183.896	ng/ml
6)	Aroclor 1016 (5)	7.138	1545261	187.280	ng/ml
7)	Aroclor 1016 (6)	7.264	1488996	180.899	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)	8.233	2941552	186.376	ng/ml
42)	Aroclor 1260 (2)	8.439	3541866	180.950	ng/ml
43)	Aroclor 1260 (3)	8.671	3824049	189.947	ng/ml
44)	Aroclor 1260 (4)	9.161	5726786	185.056	ng/ml
45)	Aroclor 1260 (5)	9.429	3291800	183.928	ng/ml
46)	Aroclor 1260 (6)	10.014	1229444	178.218	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

10/28/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:12
Operator : MJB / KAK
Sample : 9J25014-CAL4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:18:55 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

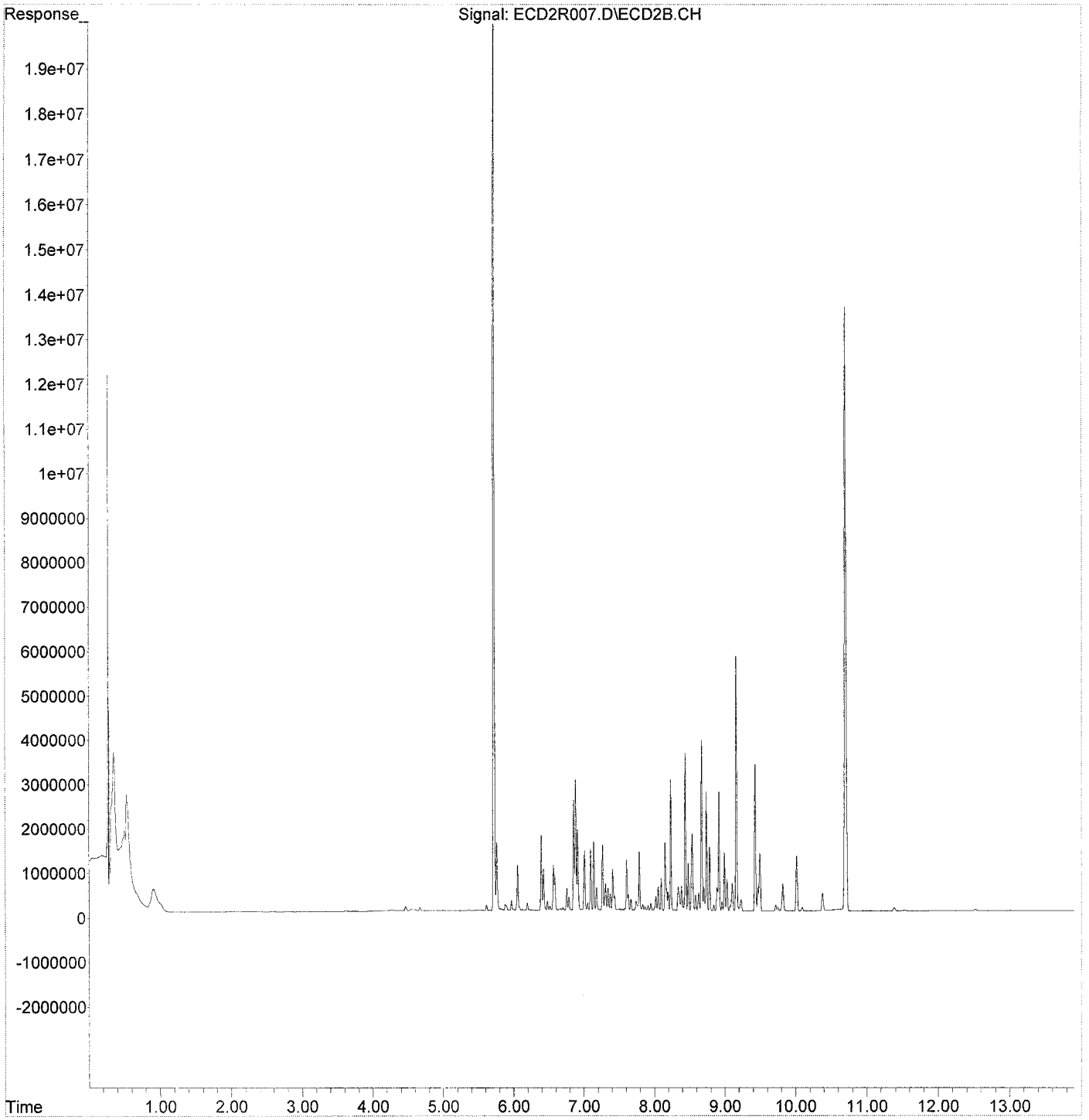
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\requant\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:12
Operator : MJB / KAK
Sample : 9J25014-CAL4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:18:55 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:29
Operator : MJB / KAK
Sample : 9J25014-CAL5
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:19:14 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.721	74750626	284.947	ng/ml ✓
62) S	DCBP (S)	10.702	37826419	257.690	ng/ml ✓
	Target Compounds				
2)	Aroclor 1016 (1)	6.392	4042674	455.098	ng/ml
3)	Aroclor 1016 (2)	6.881	8040226	491.358	ng/ml
4)	Aroclor 1016 (3)	7.007	3506618	476.065	ng/ml
5)	Aroclor 1016 (4)	7.093	3443828	461.805	ng/ml ✓
6)	Aroclor 1016 (5)	7.138	3937867	477.256	ng/ml
7)	Aroclor 1016 (6)	7.264	3952172	480.152	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)	8.233	7847499	497.216	ng/ml
42)	Aroclor 1260 (2)	8.439	10138697	517.975	ng/ml
43)	Aroclor 1260 (3)	8.671	10067178	500.054	ng/ml
44)	Aroclor 1260 (4)	9.161	14996364	484.595	ng/ml ✓
45)	Aroclor 1260 (5)	9.428	8974797	501.464	ng/ml
46)	Aroclor 1260 (6)	10.013	3236527	469.161	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

10/28/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:29
Operator : MJB / KAK
Sample : 9J25014-CAL5
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:19:14 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

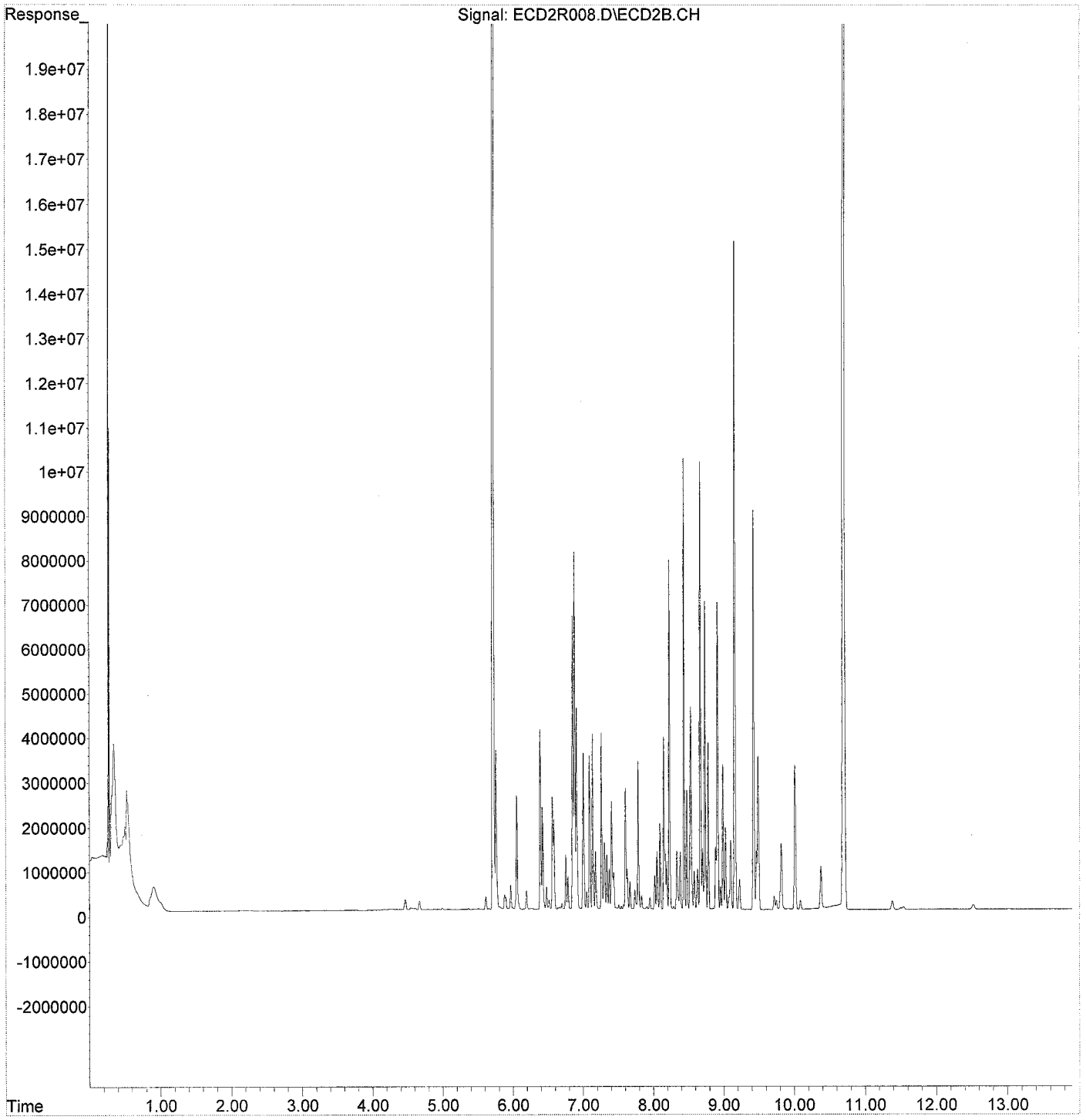
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\requant\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:29
Operator : MJB / KAK
Sample : 9J25014-CAL5
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:19:14 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:47
Operator : MJB / KAK
Sample : 9J25014-CAL6
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:19:33 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	5.722	141150367	538.060	ng/ml
62)	S	DCBP (S)	10.703	75851805	516.735	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	6.391	8009226	901.626	ng/ml
3)		Aroclor 1016 (2)	6.880	15600018	953.356	ng/ml
4)		Aroclor 1016 (3)	7.006	6715654	911.730	ng/ml
5)		Aroclor 1016 (4)	7.092	6545978	877.793	ng/ml
6)		Aroclor 1016 (5)	7.138	7260053	879.893	ng/ml
7)		Aroclor 1016 (6)	7.263	7304270	887.400	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)	8.233	14942236	946.738	ng/ml
42)		Aroclor 1260 (2)	8.439	17867440	912.828	ng/ml
43)		Aroclor 1260 (3)	8.671	19036703	945.586	ng/ml
44)		Aroclor 1260 (4)	9.162	31228514	1009.123	ng/ml
45)		Aroclor 1260 (5)	9.429	17681701	987.959	ng/ml
46)		Aroclor 1260 (6)	10.013	6505242	942.988	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

10/28/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:47
Operator : MJB / KAK
Sample : 9J25014-CAL6
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:19:33 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

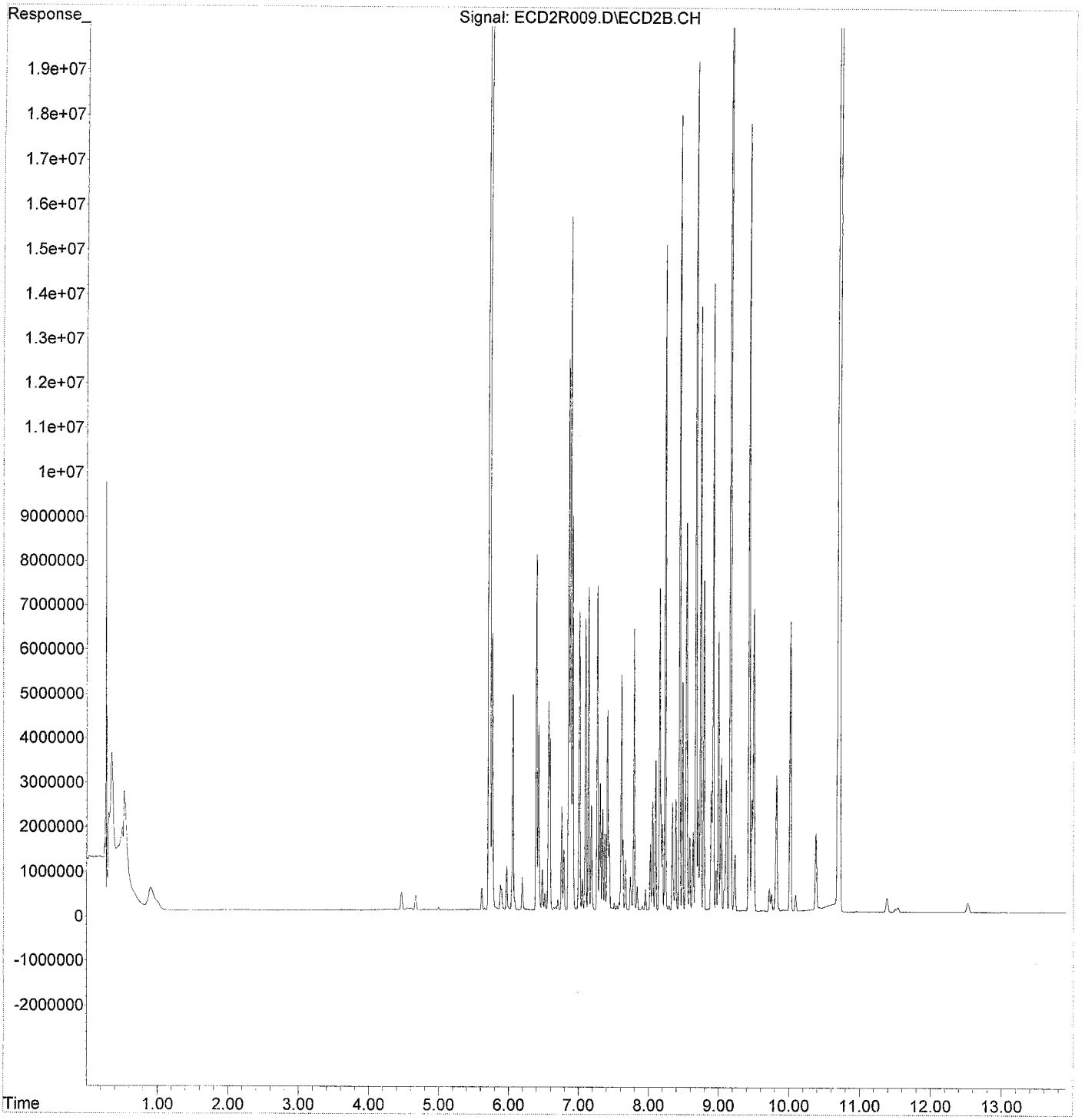
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\requant\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:47
Operator : MJB / KAK
Sample : 9J25014-CAL6
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:19:33 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:05
Operator : MJB / KAK
Sample : 9J25014-CAL7
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:19:51 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	5.728	201965239	769.885	ng/ml	✓
62)	S DCBP (S)	10.704	143670457	978.745	ng/ml	✓
	Target Compounds					
2)	Aroclor 1016 (1)	6.392	12600734	1418.507	ng/ml	
3)	Aroclor 1016 (2)	6.881	25560677	1562.077	ng/ml	
4)	Aroclor 1016 (3)	7.007	11059481	1501.456	ng/ml	✓
5)	Aroclor 1016 (4)	7.094	10725098	1438.199	ng/ml	
6)	Aroclor 1016 (5)	7.138	11742812	1423.188	ng/ml	
7)	Aroclor 1016 (6)	7.264	11773868	1430.414	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)	8.233	24181558	1532.139	ng/ml	
42)	Aroclor 1260 (2)	8.439	30034445	1534.426	ng/ml	
43)	Aroclor 1260 (3)	8.671	31203805	1549.947	ng/ml	✓
44)	Aroclor 1260 (4)	9.162	51214030	1654.938	ng/ml	
45)	Aroclor 1260 (5)	9.429	28580187	1596.909	ng/ml	
46)	Aroclor 1260 (6)	10.014	10934005	1584.973	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

10/28/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\requant\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:05
Operator : MJB / KAK
Sample : 9J25014-CAL7
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:19:51 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

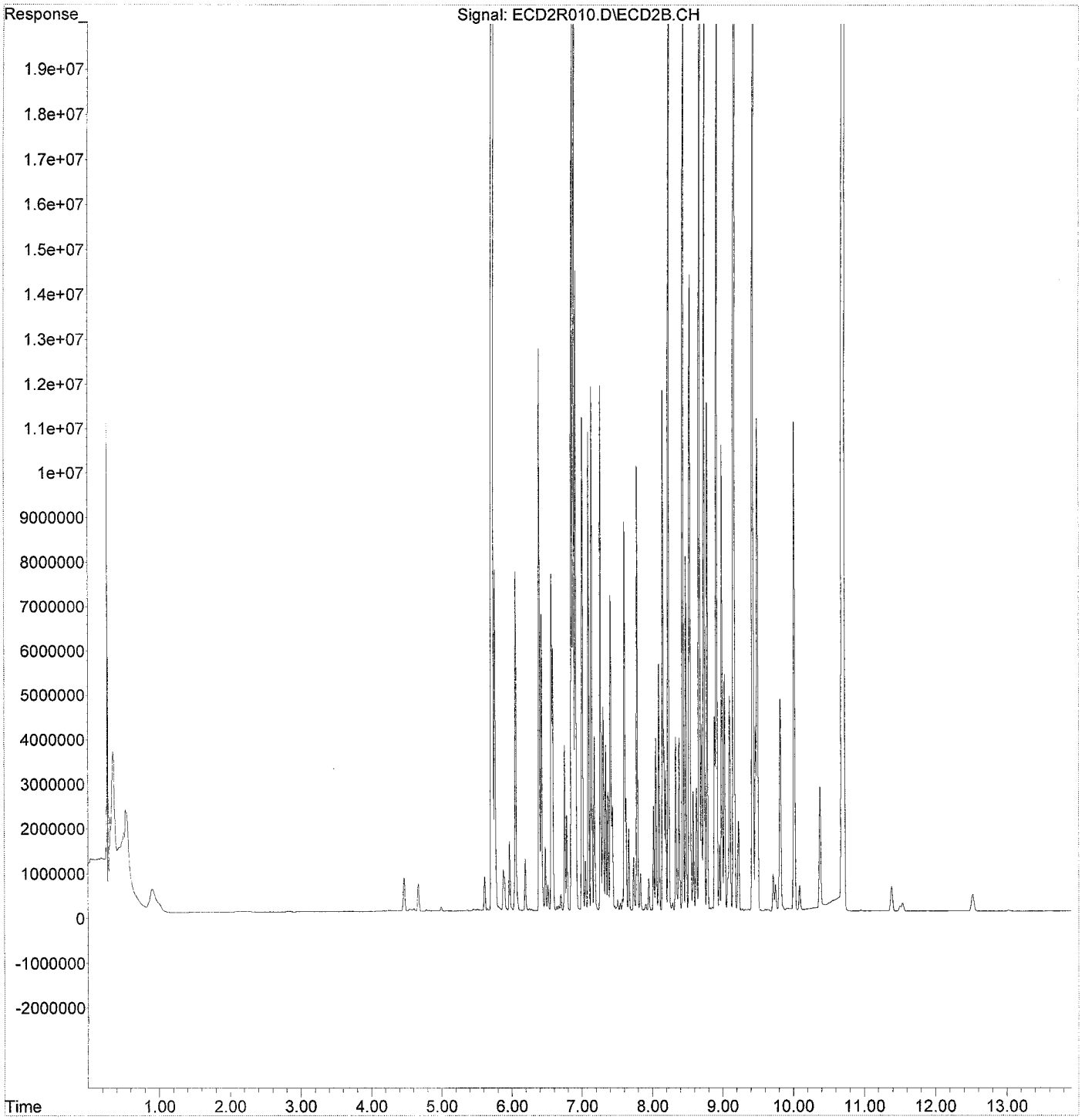
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\requant\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:05
Operator : MJB / KAK
Sample : 9J25014-CAL7
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 28 08:19:51 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Sequence: C:\HPCHEM\2\SEQUENCE\9J25013.S

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	Hexane	E2A21015	1	Sample		
2	Vial 1	Hexane	E2A21015	1	Sample		
3	Vial 2	9J25013-CCV1	E2A21015	1	Sample		
4	Vial 3	9J25013-CCB1	E2A21015	1	Sample		
5	Vial 4	9101522-BLK1	E2A21015	1	Sample		
6	Vial 5	9101522-BS1	E2A21015	1	Sample		
7	Vial 6	A9J0063-17RE2	E2A21015	1	Sample		
8	Vial 1	9J25013-IBL1	E2A21015	1	Sample		
9	Vial 7	A9J0315-23	E2A21015	1	Sample		
10	Vial 1	9J25013-IBL2	E2A21015	1	Sample		
11	Vial 8	A9J0357-01	E2A21015	1	Sample		
12	Vial 1	9J25013-IBL3	E2A21015	1	Sample		
13	Vial 9	A9J0357-02	E2A21015	1	Sample		
14	Vial 1	9J25013-IBL4	E2A21015	1	Sample		
15	Vial 10	A9J0357-09	E2A21015	1	Sample		
16	Vial 1	9J25013-IBL5	E2A21015	1	Sample		
17	Vial 11	A9J0357-10	E2A21015	1	Sample		
18	Vial 1	9J25013-IBL6	E2A21015	1	Sample		
19	Vial 12	A9J0357-14	E2A21015	1	Sample		
20	Vial 1	9J25013-IBL7	E2A21015	1	Sample		
21	Vial 2	9J25013-CCV2	E2A21015	1	Sample		
22	Vial 3	9J25013-CCB2	E2A21015	1	Sample		
23	Vial 1	Hexane	E2A21015	1	Sample		

Sequence Table (Back Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 51	Hexane	E2A21015	1	Sample		
2	Vial 51	Hexane	E2A21015	1	Sample		
3	Vial 52	9J25014-ICB1	E2A21015	1	Sample		
4	Vial 53	9J25014-CAL1	E2A21015	1	Sample		
5	Vial 54	9J25014-CAL2	E2A21015	1	Sample		
6	Vial 55	9J25014-CAL3	E2A21015	1	Sample		
7	Vial 56	9J25014-CAL4	E2A21015	1	Sample		
8	Vial 57	9J25014-CAL5	E2A21015	1	Sample		
9	Vial 58	9J25014-CAL6	E2A21015	1	Sample		
10	Vial 59	9J25014-CAL7	E2A21015	1	Sample		
11	Vial 51	9J25014-IBL1	E2A21015	1	Sample		
12	Vial 60	9J25014-ICV1	E2A21015	1	Sample		
13	Vial 61	9J25014-CAL8	E2A21015	1	Sample		
14	Vial 62	9J25014-CAL9	E2A21015	1	Sample		
15	Vial 63	9J25014-CALA	E2A21015	1	Sample		
16	Vial 64	9J25014-CALB	E2A21015	1	Sample		
17	Vial 65	9J25014-CALC	E2A21015	1	Sample		
18	Vial 66	9J25014-CALD	E2A21015	1	Sample		
19	Vial 67	9J25014-CALE	E2A21015	1	Sample		
20	Vial 68	9J25014-ICV2	E2A21015	1	Sample		
21	Vial 69	9J25014-ICV3	E2A21015	1	Sample		
22	Vial 70	9J25014-ICV4	E2A21015	1	Sample		
23	Vial 71	9J25014-ICV5	E2A21015	1	Sample		

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:19
Operator : MJB / KAK
Sample : 9J25014-CAL1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:22:01 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.717	2391999	9.624	ng/ml
62) S	DCBP (S)	10.698	1318659	10.532	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.390	203035	26.262	ng/ml
3)	Aroclor 1016 (2)	6.879	342549	24.487	ng/ml
4)	Aroclor 1016 (3)	7.006	170044	26.412	ng/ml
5)	Aroclor 1016 (4)	7.092	177152	28.277	ng/ml
6)	Aroclor 1016 (5)	7.137	189025	27.029	ng/ml
7)	Aroclor 1016 (6)	7.262	191737	27.461	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)	8.232	337139	25.386	ng/ml
42)	Aroclor 1260 (2)	8.437	413345	24.782	ng/ml
43)	Aroclor 1260 (3)	8.670	418334	24.841	ng/ml
44)	Aroclor 1260 (4)	9.160	618662	23.878	ng/ml
45)	Aroclor 1260 (5)	9.427	361157	23.847	ng/ml
46)	Aroclor 1260 (6)	10.012	148612	25.385	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:19
Operator : MJB / KAK
Sample : 9J25014-CAL1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:22:01 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

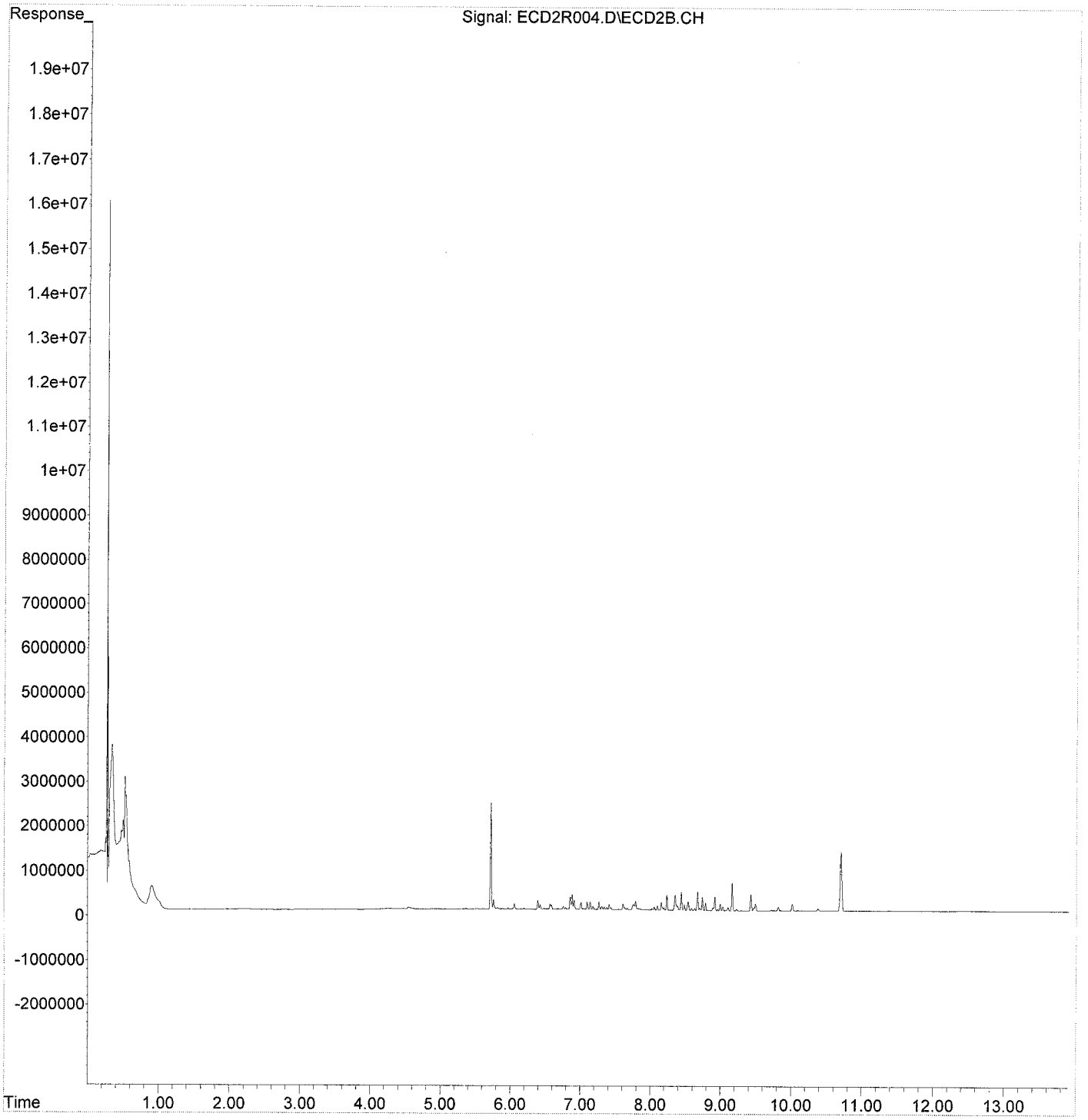
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	0.000	0	N.D. ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D. ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D. ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D. ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D. ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D. ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:19
Operator : MJB / KAK
Sample : 9J25014-CAL1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:22:01 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:37
Operator : MJB / KAK
Sample : 9J25014-CAL2
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:23:56 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	5.718	6329448	25.466 ng/ml
62) S	DCBP (S)	10.699	3507689	28.017 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	6.390	493668	63.854 ng/ml
3)	Aroclor 1016 (2)	6.878	850982	60.832 ng/ml
4)	Aroclor 1016 (3)	7.005	385301	59.847 ng/ml
5)	Aroclor 1016 (4)	7.092	408863	65.263 ng/ml
6)	Aroclor 1016 (5)	7.136	456813	65.321 ng/ml
7)	Aroclor 1016 (6)	7.261	452852	64.859 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)	8.231	824221	62.062 ng/ml
42)	Aroclor 1260 (2)	8.436	1025756	61.499 ng/ml
43)	Aroclor 1260 (3)	8.669	1053008	62.529 ng/ml
44)	Aroclor 1260 (4)	9.159	1549626	59.810 ng/ml
45)	Aroclor 1260 (5)	9.426	930309	61.427 ng/ml
46)	Aroclor 1260 (6)	10.011	375099	64.073 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:37
Operator : MJB / KAK
Sample : 9J25014-CAL2
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:23:56 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

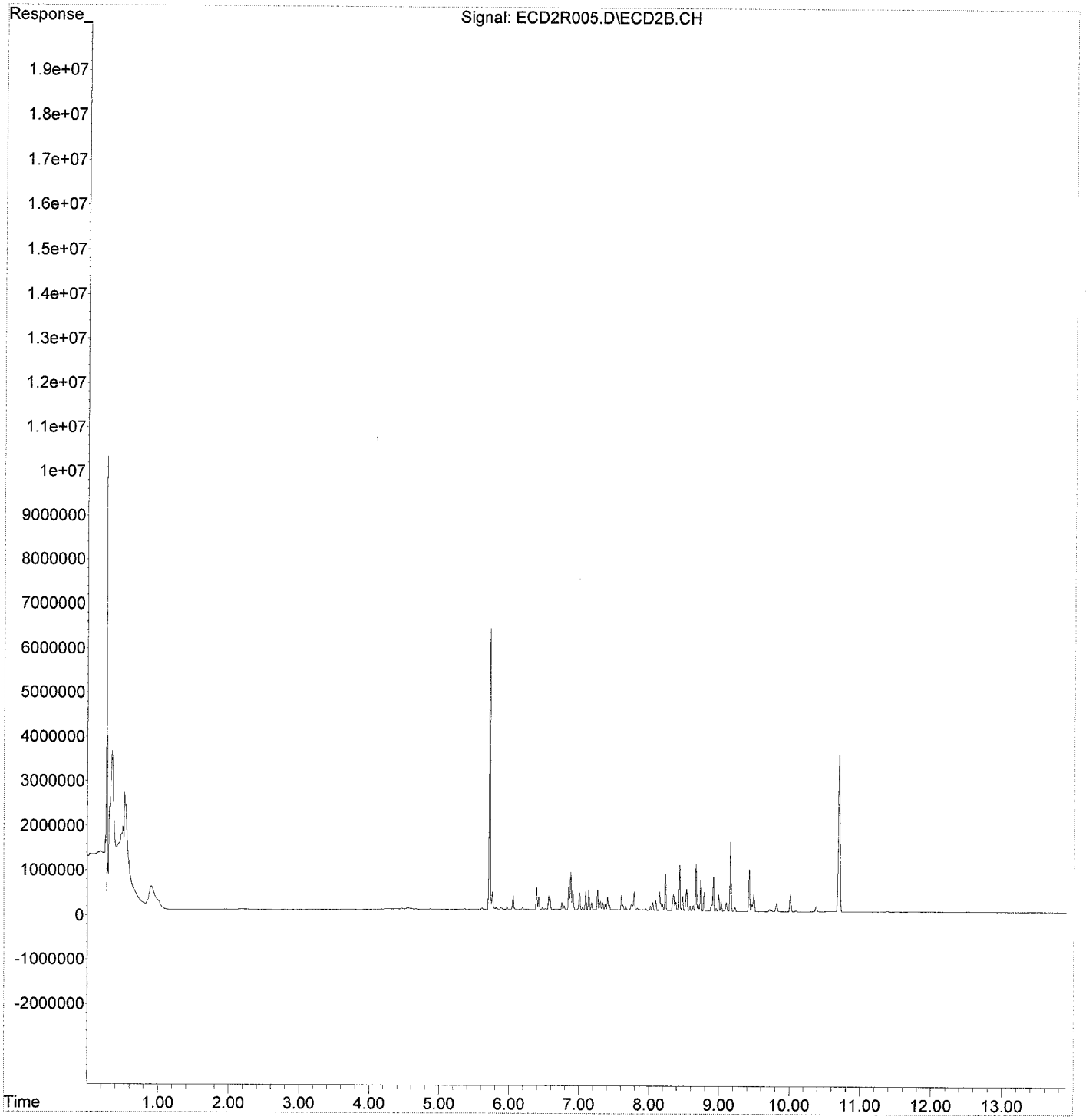
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:37
Operator : MJB / KAK
Sample : 9J25014-CAL2
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:23:56 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:54
Operator : MJB / KAK
Sample : 9J25014-CAL3
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:25:14 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.719	12908276	51.934	ng/ml
62) S	DCBP (S)	10.700	6866760	54.846	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.390	925201	119.671	ng/ml
3)	Aroclor 1016 (2)	6.879	1692274	120.970	ng/ml
4)	Aroclor 1016 (3)	7.006	755246	117.309	ng/ml
5)	Aroclor 1016 (4)	7.092	772578	123.320	ng/ml
6)	Aroclor 1016 (5)	7.137	847932	121.249	ng/ml
7)	Aroclor 1016 (6)	7.262	847087	121.323	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)	8.231	1567269	118.012	ng/ml
42)	Aroclor 1260 (2)	8.437	1995660	119.649	ng/ml
43)	Aroclor 1260 (3)	8.669	1985447	117.899	ng/ml
44)	Aroclor 1260 (4)	9.160	3069980	118.491	ng/ml
45)	Aroclor 1260 (5)	9.427	1747257	115.368	ng/ml
46)	Aroclor 1260 (6)	10.013	694240	118.587	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:54
Operator : MJB / KAK
Sample : 9J25014-CAL3
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:25:14 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

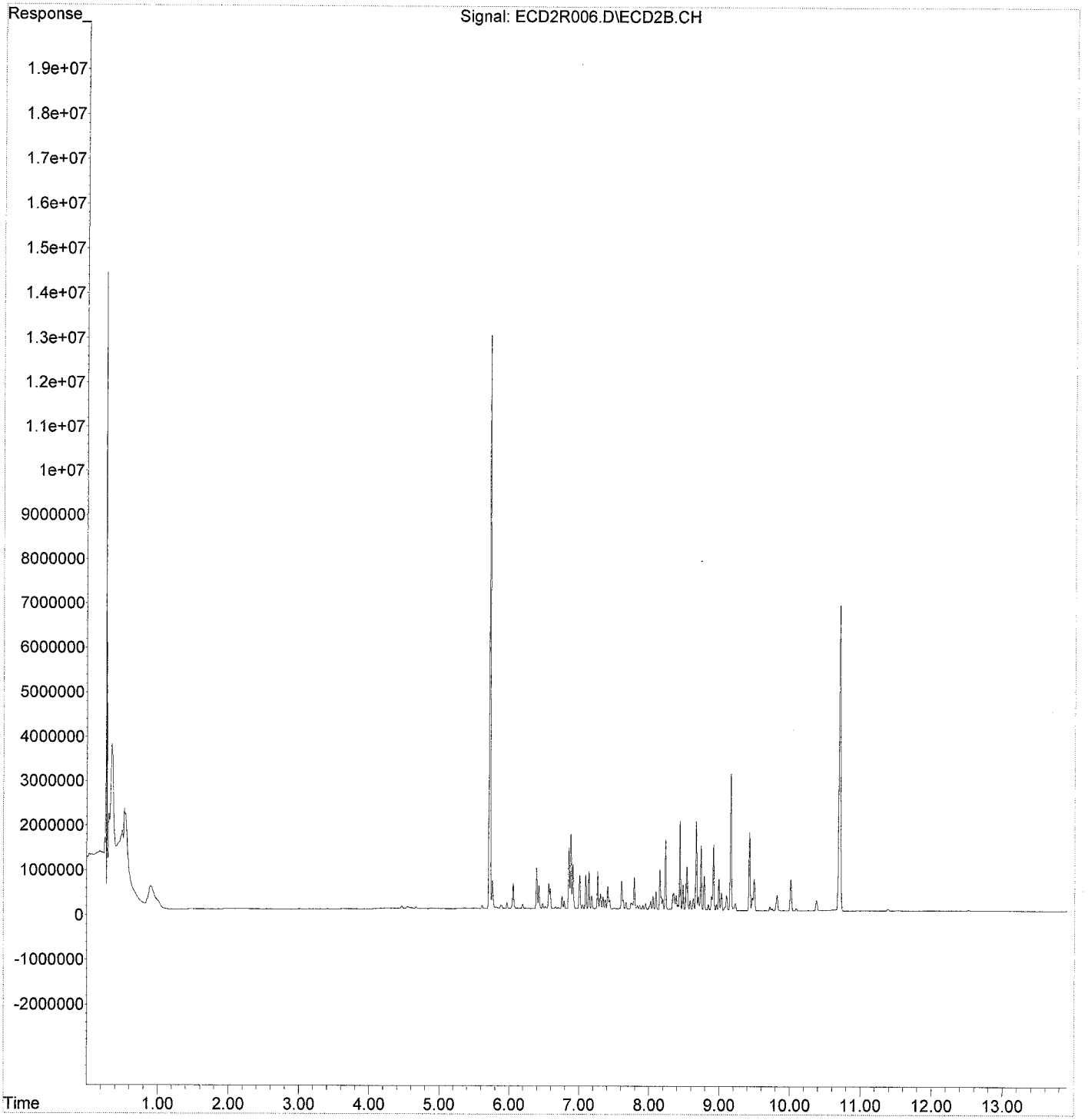
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 8:54
Operator : MJB / KAK
Sample : 9J25014-CAL3
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:25:14 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:12
Operator : MJB / KAK
Sample : 9J25014-CAL4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:26:23 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	5.719	25201953	101.396	ng/ml
62)	S DCBP (S)	10.701	13542694	108.169	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.391	1681899	217.546	ng/ml
3)	Aroclor 1016 (2)	6.880	2950427	210.908	ng/ml
4)	Aroclor 1016 (3)	7.007	1339661	208.084	ng/ml
5)	Aroclor 1016 (4)	7.093	1371367	218.899	ng/ml
6)	Aroclor 1016 (5)	7.138	1545261	220.963	ng/ml
7)	Aroclor 1016 (6)	7.264	1488996	213.259	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)	8.233	2941552	221.492	ng/ml
42)	Aroclor 1260 (2)	8.439	3541866	212.352	ng/ml
43)	Aroclor 1260 (3)	8.671	3824049	227.079	ng/ml
44)	Aroclor 1260 (4)	9.161	5726786	221.034	ng/ml
45)	Aroclor 1260 (5)	9.429	3291800	217.352	ng/ml
46)	Aroclor 1260 (6)	10.014	1229444	210.009	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:12
Operator : MJB / KAK
Sample : 9J25014-CAL4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:26:23 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

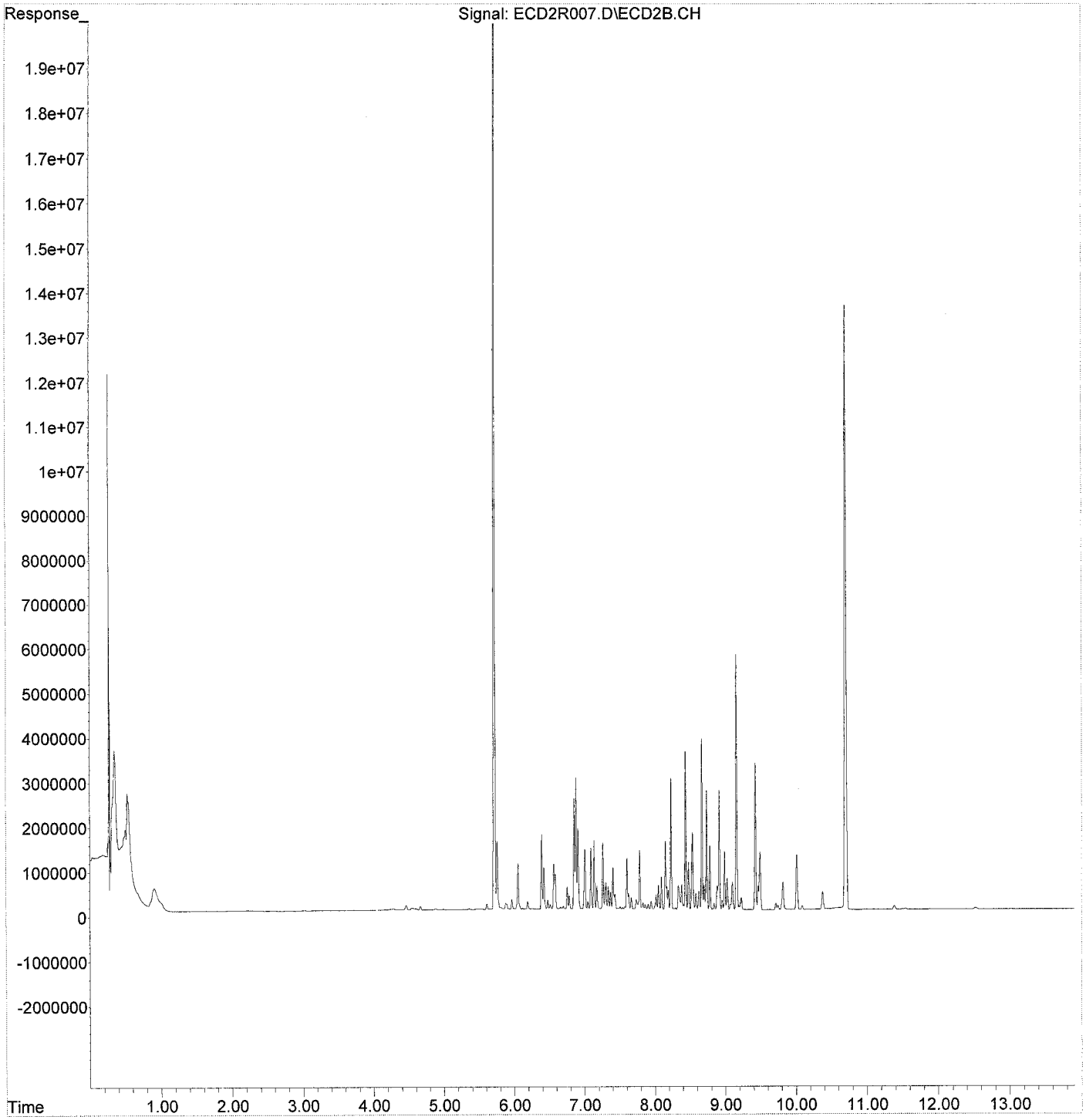
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:12
Operator : MJB / KAK
Sample : 9J25014-CAL4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:26:23 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:29
Operator : MJB / KAK
Sample : 9J25014-CAL5
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:27:32 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.721	74750626	300.748	ng/ml
62) S	DCBP (S)	10.702	37826419	302.129	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.392	4042674	522.901	ng/ml
3)	Aroclor 1016 (2)	6.881	8040226	574.747	ng/ml
4)	Aroclor 1016 (3)	7.007	3506618	544.667	ng/ml
5)	Aroclor 1016 (4)	7.093	3443828	549.708	ng/ml
6)	Aroclor 1016 (5)	7.138	3937867	563.090	ng/ml
7)	Aroclor 1016 (6)	7.264	3952172	566.044	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)	8.233	7847499	590.898	ng/ml
42)	Aroclor 1260 (2)	8.439	10138697	607.863	ng/ml
43)	Aroclor 1260 (3)	8.671	10067178	597.806	ng/ml
44)	Aroclor 1260 (4)	9.161	14996364	578.808	ng/ml
45)	Aroclor 1260 (5)	9.428	8974797	592.590	ng/ml
46)	Aroclor 1260 (6)	10.013	3236527	552.851	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:29
Operator : MJB / KAK
Sample : 9J25014-CAL5
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:27:32 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

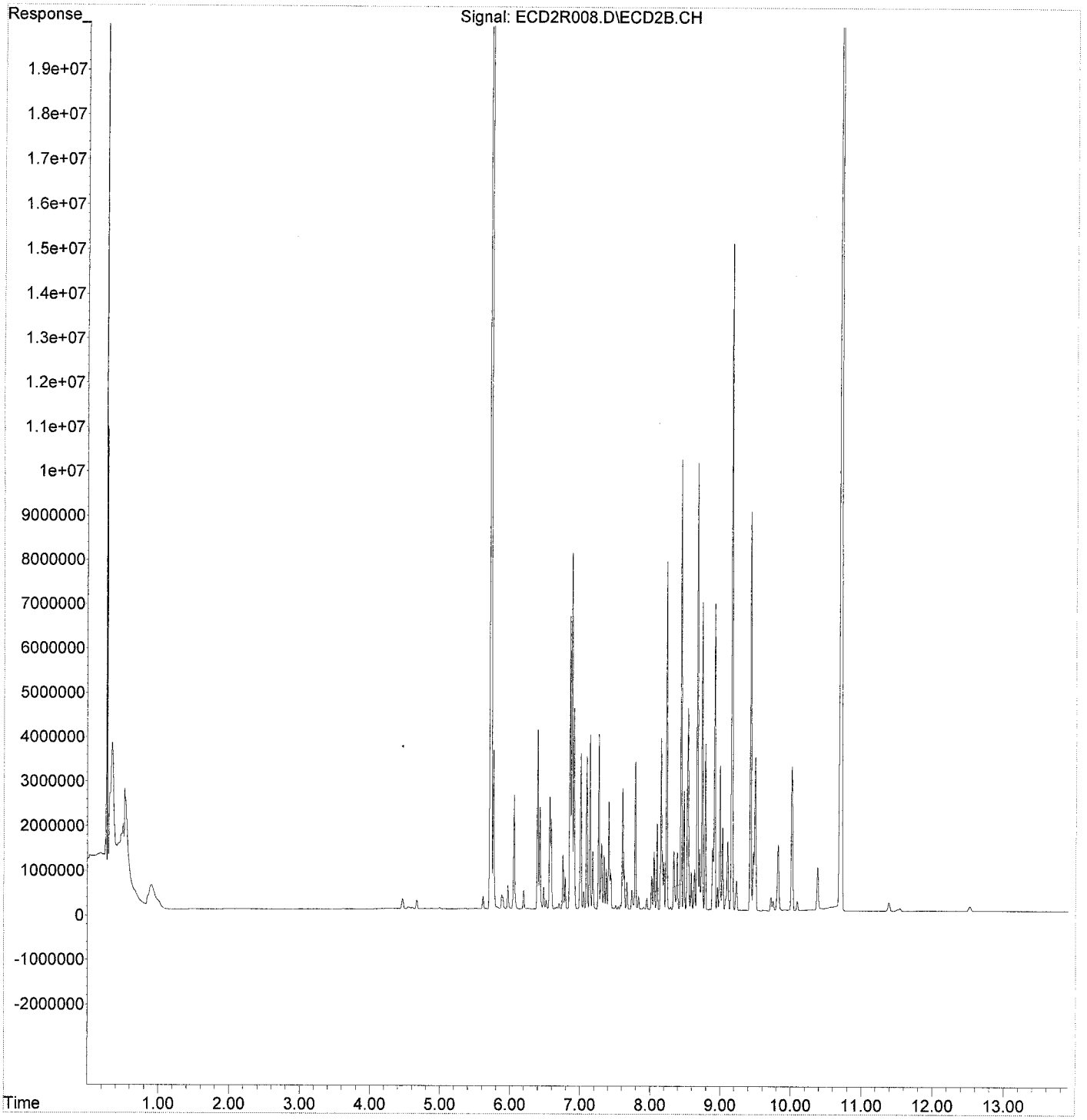
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:29
Operator : MJB / KAK
Sample : 9J25014-CAL5
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:27:32 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:47
Operator : MJB / KAK
Sample : 9J25014-CAL6
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:28:44 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.722	141150367	567.897	ng/ml
62) S	DCBP (S)	10.703	75851805	605.847	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.391	8009226	1035.957	ng/ml
3)	Aroclor 1016 (2)	6.880	15600018	1115.151	ng/ml
4)	Aroclor 1016 (3)	7.006	6715654	1043.112	ng/ml
5)	Aroclor 1016 (4)	7.092	6545978	1044.877	ng/ml
6)	Aroclor 1016 (5)	7.138	7260053	1038.141	ng/ml
7)	Aroclor 1016 (6)	7.263	7304270	1046.143	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)	8.233	14942236	1125.115	ng/ml
42)	Aroclor 1260 (2)	8.439	17867440	1071.238	ng/ml
43)	Aroclor 1260 (3)	8.671	19036703	1130.432	ng/ml
44)	Aroclor 1260 (4)	9.162	31228514	1205.313	ng/ml
45)	Aroclor 1260 (5)	9.429	17681701	1167.492	ng/ml
46)	Aroclor 1260 (6)	10.013	6505242	1111.200	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:47
Operator : MJB / KAK
Sample : 9J25014-CAL6
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:28:44 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

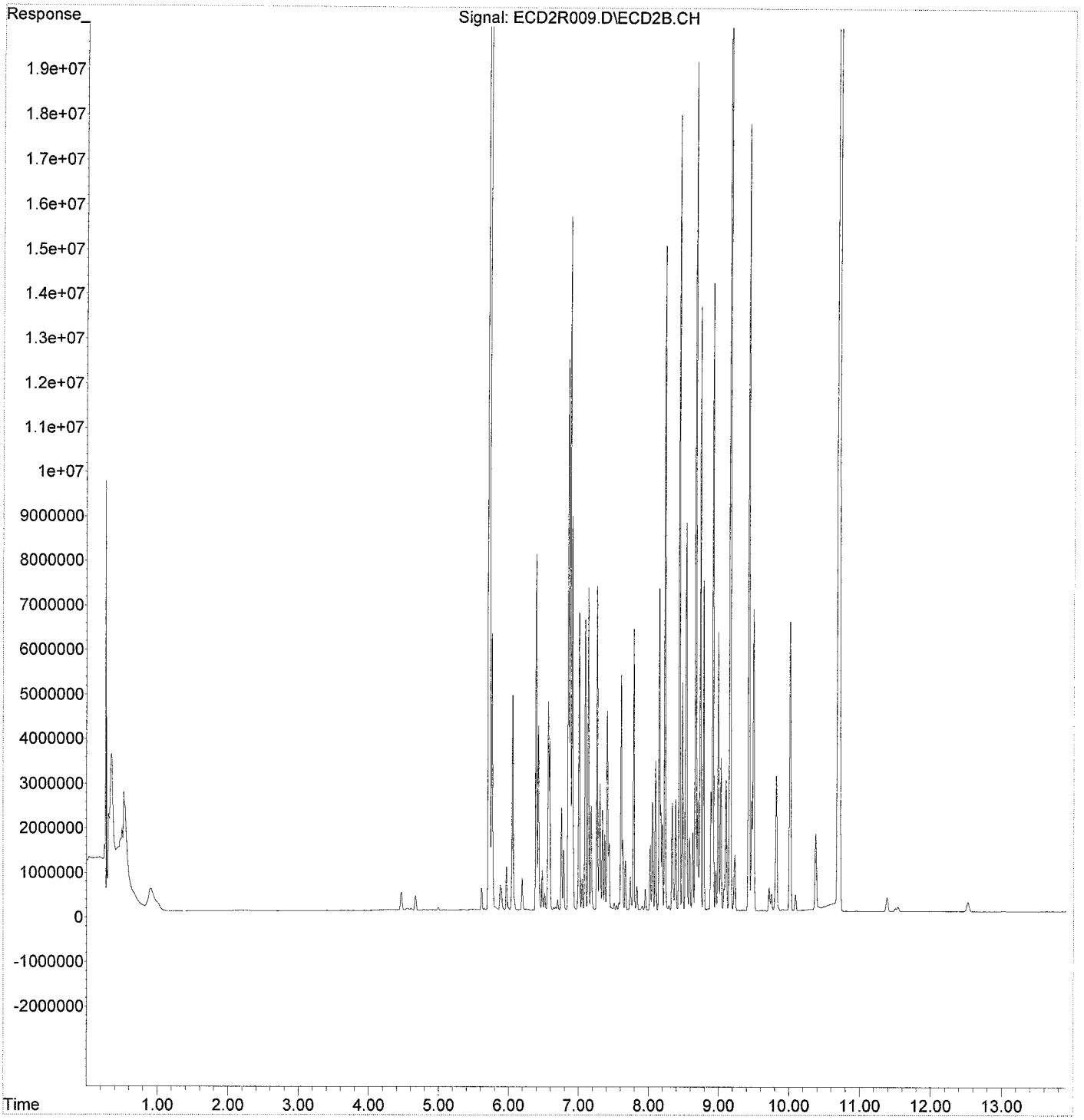
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	0.000	0	N.D. ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D. ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D. ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D. ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D. ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D. ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 9:47
Operator : MJB / KAK
Sample : 9J25014-CAL6
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:28:44 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:05
Operator : MJB / KAK
Sample : 9J25014-CAL7
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:30:01 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	5.728	201965239	812.576	ng/ml
62) S	DCBP (S)	10.704	143670457	1147.530	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	6.392	12600734	1629.847	ng/ml
3)	Aroclor 1016 (2)	6.881	25560677	1827.179	ng/ml
4)	Aroclor 1016 (3)	7.007	11059481	1717.819	ng/ml
5)	Aroclor 1016 (4)	7.094	10725098	1711.953	ng/ml
6)	Aroclor 1016 (5)	7.138	11742812	1679.148	ng/ml
7)	Aroclor 1016 (6)	7.264	11773868	1686.295	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)	8.233	24181558	1820.815	ng/ml
42)	Aroclor 1260 (2)	8.439	30034445	1800.708	ng/ml
43)	Aroclor 1260 (3)	8.671	31203805	1852.936	ng/ml
44)	Aroclor 1260 (4)	9.162	51214030	1976.685	ng/ml
45)	Aroclor 1260 (5)	9.429	28580187	1887.100	ng/ml
46)	Aroclor 1260 (6)	10.014	10934005	1867.704	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/mld

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:05
Operator : MJB / KAK
Sample : 9J25014-CAL7
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:30:01 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

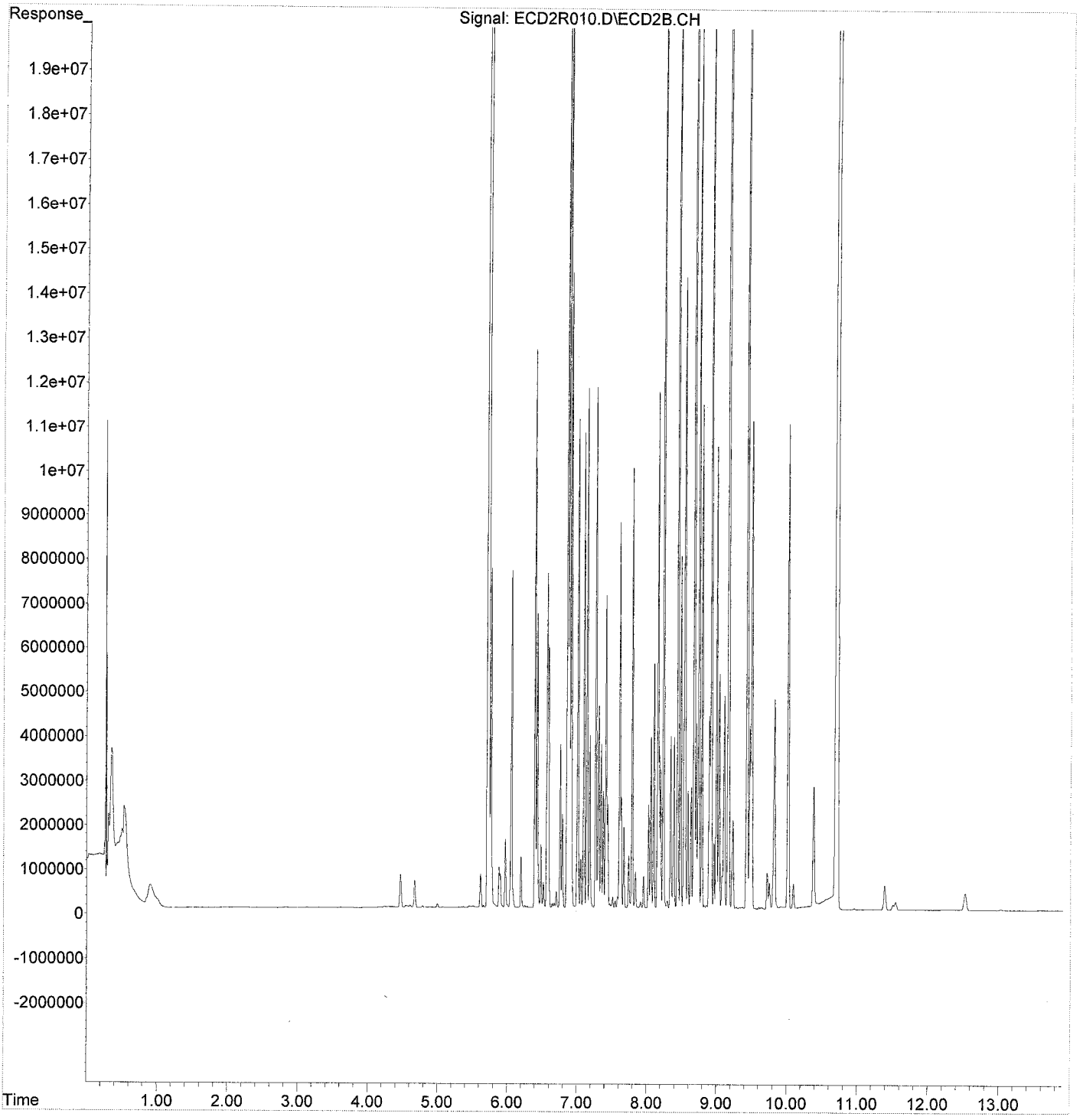
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	0.000	0	N.D. ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D. ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D. ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D. ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D. ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D. ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:05
Operator : MJB / KAK
Sample : 9J25014-CAL7
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 11:30:01 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Wed Jul 17 16:14:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:58
Operator : MJB / KAK
Sample : 9J25014-CAL8
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:50:36 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:50:30 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	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)	5.896	1071927	541.278	ng/ml
10)	Aroclor 1221 (2)	5.967	1093000	544.283	ng/ml
11)	Aroclor 1221 (3)	6.055	3537396	527.577	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
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

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:58
Operator : MJB / KAK
Sample : 9J25014-CAL8
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:50:36 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:50:30 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

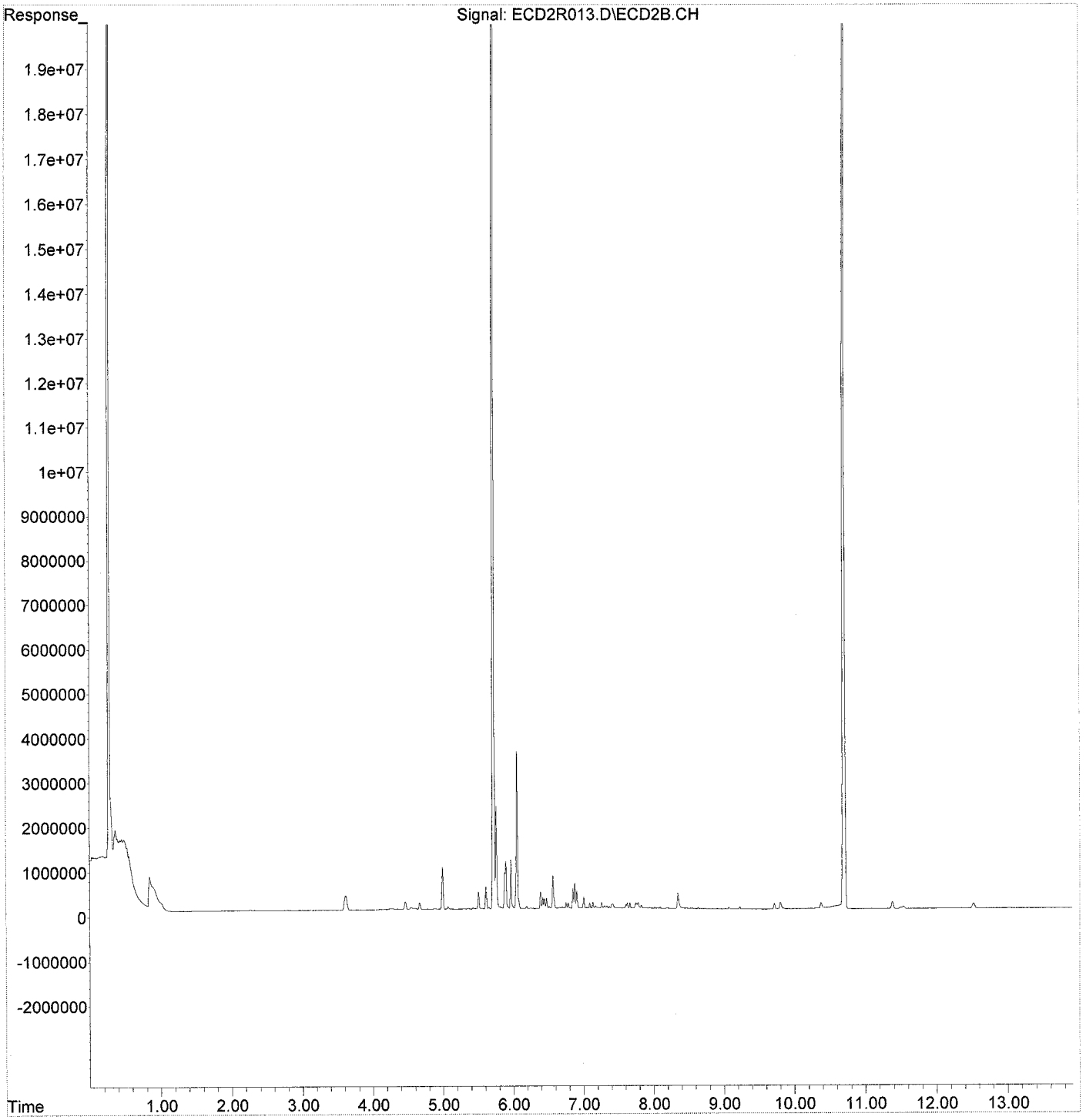
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	0.000	0	N.D. ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D. ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D. ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D. ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D. ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D. ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 10:58
Operator : MJB / KAK
Sample : 9J25014-CAL8
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:50:36 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:50:30 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 11:15
Operator : MJB / KAK
Sample : 9J25014-CAL9
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:52:21 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:52:16 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	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)	6.055	2862334	512.765	ng/ml
14)	Aroclor 1232 (2)	6.392	1738121	523.606	ng/ml
15)	Aroclor 1232 (3)	6.880	3237126	517.302	ng/ml
16)	Aroclor 1232 (4)	7.093	1193800	530.360	ng/ml
17)	Aroclor 1232 (5)	7.138	1366175	523.404	ng/ml
18)	Aroclor 1232 (6)	7.264	1483010	544.466	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
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

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 11:15
Operator : MJB / KAK
Sample : 9J25014-CAL9
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:52:21 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:52:16 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

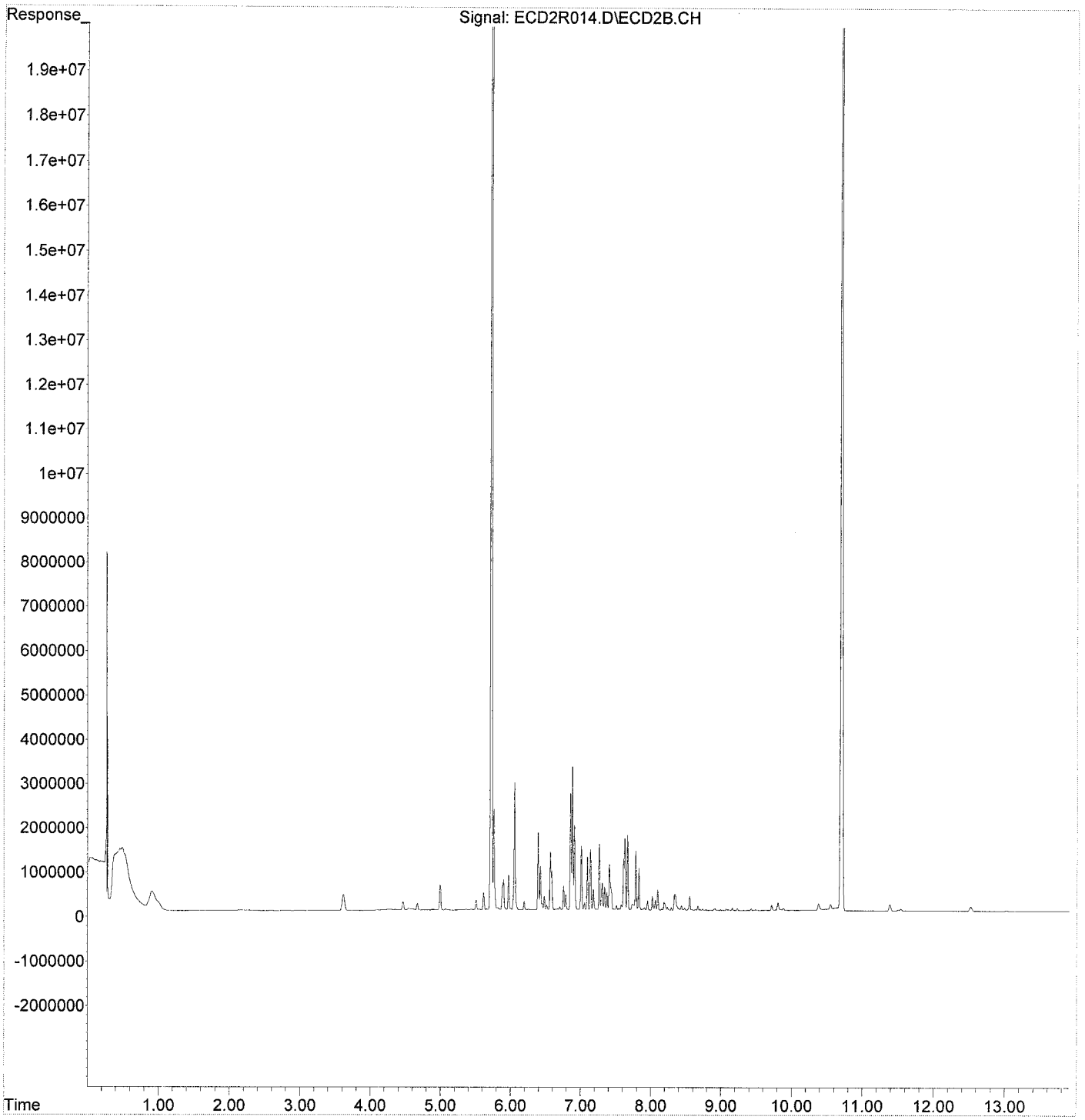
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 11:15
Operator : MJB / KAK
Sample : 9J25014-CAL9
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:52:21 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:52:16 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 11:33
Operator : MJB / KAK
Sample : 9J25014-CALA
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:54:05 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:53:58 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	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)	6.391	3275732	540.797	ng/ml
21)	Aroclor 1242 (2)	6.879	5915868	519.731	ng/ml
22)	Aroclor 1242 (3)	7.007	2641225	532.815	ng/ml
23)	Aroclor 1242 (4)	7.093	2496367	547.768	ng/ml
24)	Aroclor 1242 (5)	7.137	2907034	542.201	ng/ml
25)	Aroclor 1242 (6)	7.263	3097542	562.536	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
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

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 11:33
Operator : MJB / KAK
Sample : 9J25014-CALA
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:54:05 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:53:58 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

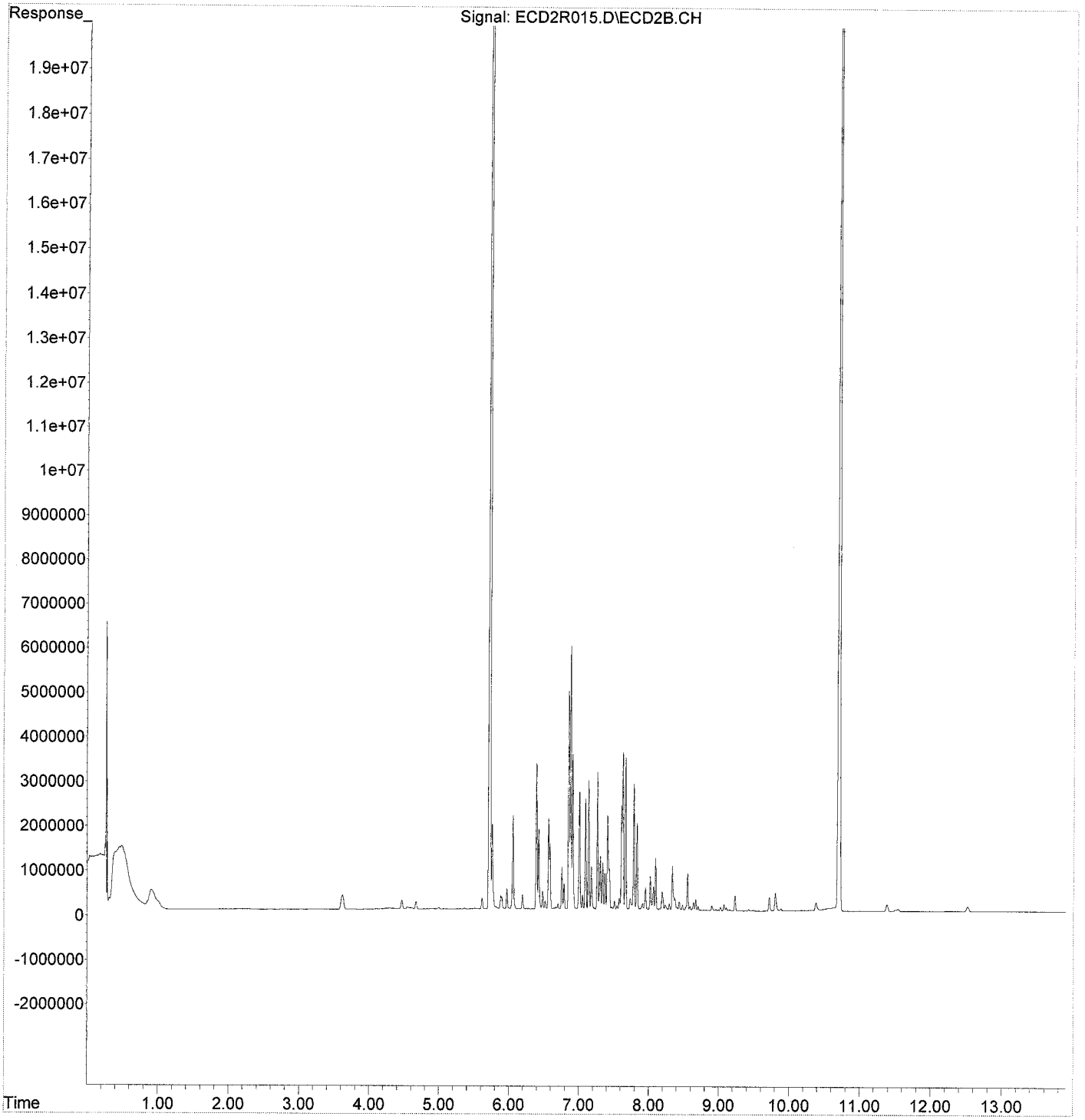
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 11:33
Operator : MJB / KAK
Sample : 9J25014-CALA
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:54:05 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:53:58 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 11:50
Operator : MJB / KAK
Sample : 9J25014-CALB
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:55:47 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:55:39 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	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)	6.852	3731186	559.086	ng/ml
28)	Aroclor 1248 (2)	7.093	4668078	579.689	ng/ml
29)	Aroclor 1248 (3)	7.138	4384791	565.533	ng/ml
30)	Aroclor 1248 (4)	7.263	5235273	560.126	ng/ml
31)	Aroclor 1248 (5)	7.628	6466500	548.888	ng/ml
32)	Aroclor 1248 (6)	7.785	5895544	559.858	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
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

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 11:50
Operator : MJB / KAK
Sample : 9J25014-CALB
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:55:47 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:55:39 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

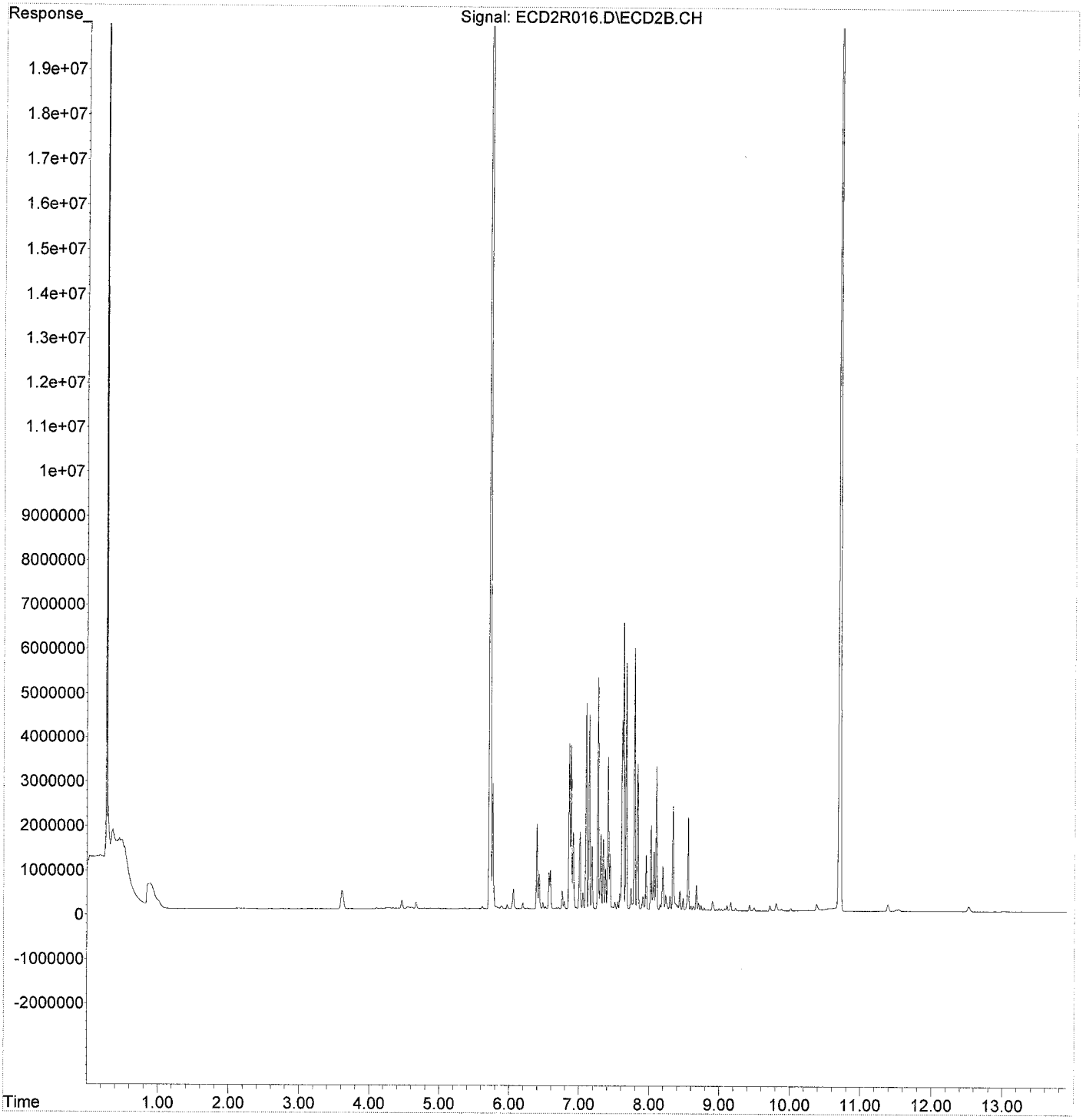
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	0.000	0	N.D. ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D. ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D. ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D. ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D. ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D. ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 11:50
Operator : MJB / KAK
Sample : 9J25014-CALB
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:55:47 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:55:39 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 12:08
Operator : MJB / KAK
Sample : 9J25014-CALC
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:57:27 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:57:18 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	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)	7.605	6462528	527.720	ng/ml
35)	Aroclor 1254 (2)	7.786	10123790	518.150	ng/ml
36)	Aroclor 1254 (3)	8.098	10713849	514.082	ng/ml
37)	Aroclor 1254 (4)	8.335	8258291	539.006	ng/ml
38)	Aroclor 1254 (5)	8.669	7846578	503.917	ng/ml
39)	Aroclor 1254 (6)	8.900	2445074	511.632	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
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

10/26/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 12:08
Operator : MJB / KAK
Sample : 9J25014-CALC
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:57:27 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:57:18 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

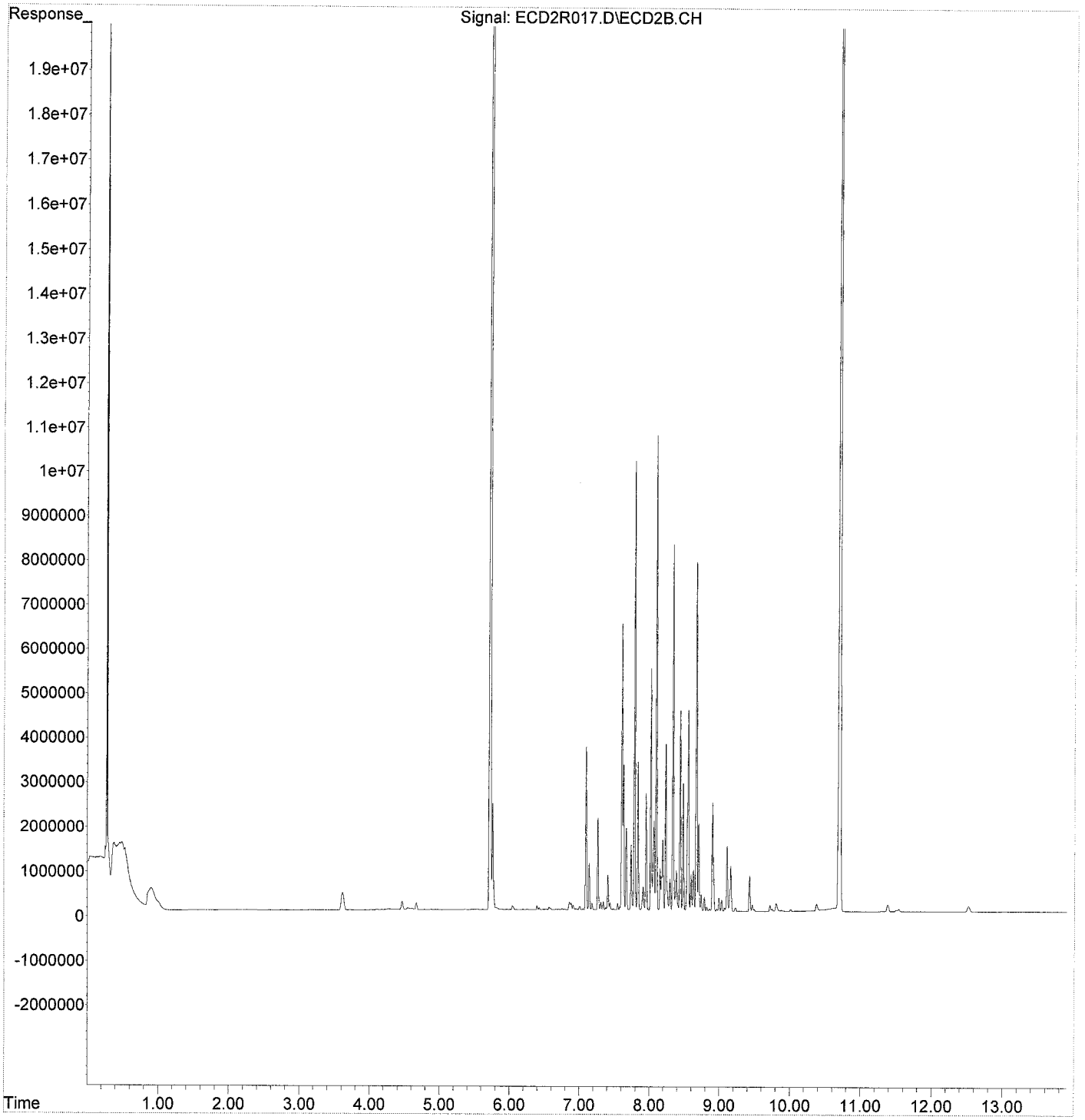
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9J25014\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 12:08
Operator : MJB / KAK
Sample : 9J25014-CALC
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:57:27 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:57:18 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 12:26
Operator : MJB / KAK
Sample : 9J25014-CALD
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:59:13 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:59:07 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

10/25/19

	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
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

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 12:26
Operator : MJB / KAK
Sample : 9J25014-CALD
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:59:13 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:59:07 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.437	7566758	569.057	ng/ml
49)	Aroclor 1262 (2)	8.738	10577131	597.440	ng/ml
50)	Aroclor 1262 (3)	8.916	8734138	584.406	ng/ml
51)	Aroclor 1262 (4)	9.160	17904668	558.345	ng/ml
52)	Aroclor 1262 (5)	9.427	10982410	583.745	ng/ml
53)	Aroclor 1262 (6)	10.013	4850265	594.558	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

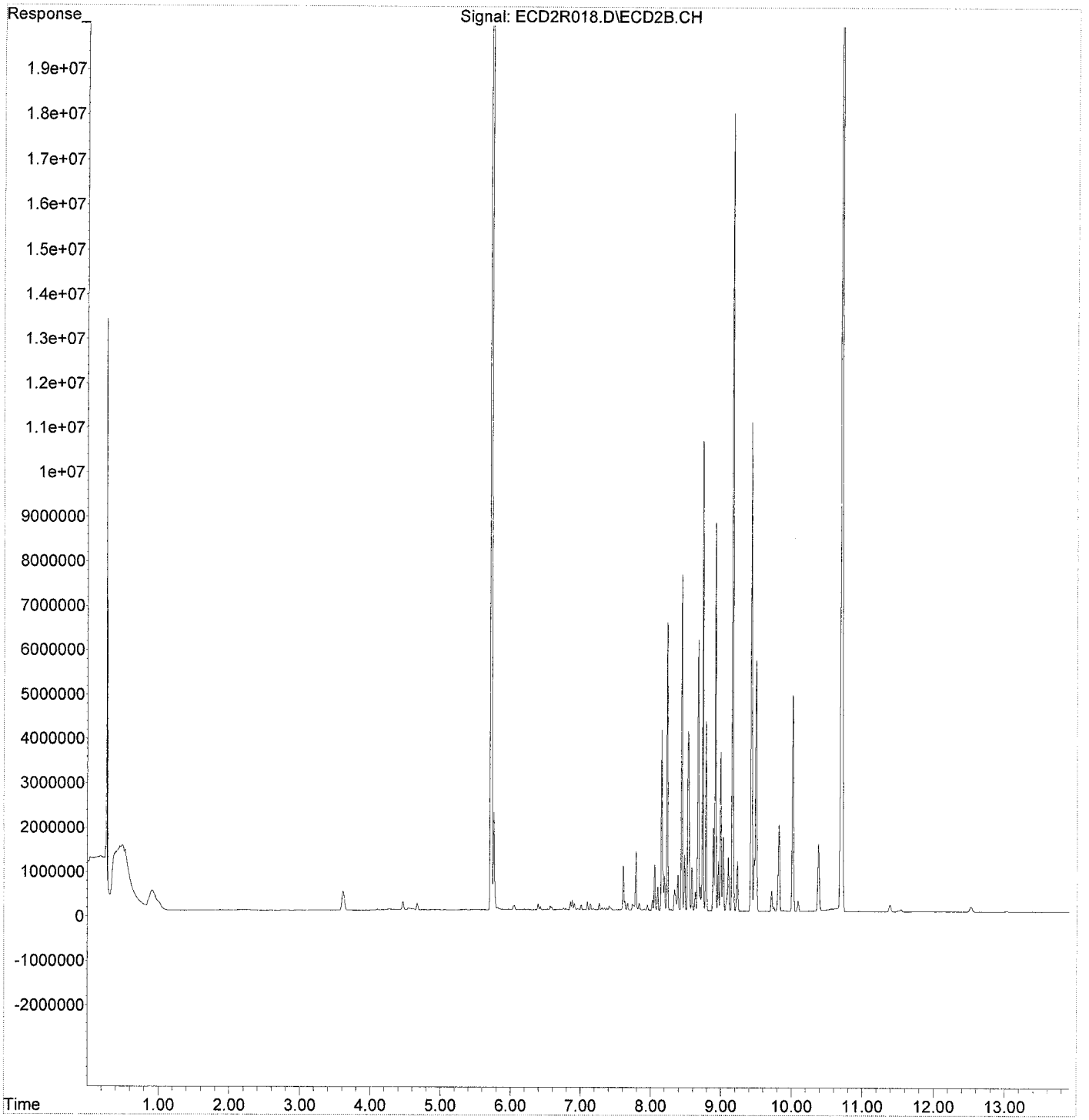
(f)=RT Delta > 1/2 Window (m)=manual int.

10/25/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 12:26
Operator : MJB / KAK
Sample : 9J25014-CALD
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 12:59:13 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 12:59:07 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 12:43
Operator : MJB / KAK
Sample : 9J25014-CALE
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 14:20:35 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:20:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

10/25/19

	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
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

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 12:43
Operator : MJB / KAK
Sample : 9J25014-CALE
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 14:20:35 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:20:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
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)	8.958	4666678	573.449	ng/ml
56)	Aroclor 1268 (2)	9.429	19618102	533.965	ng/ml
57)	Aroclor 1268 (3)	9.497	15763573	535.219	ng/ml
58)	Aroclor 1268 (4)	9.717	13542645	536.357	ng/ml
59)	Aroclor 1268 (5)	10.014	5298091	544.214	ng/ml
60)	Aroclor 1268 (6)	10.377	36740370	535.605	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

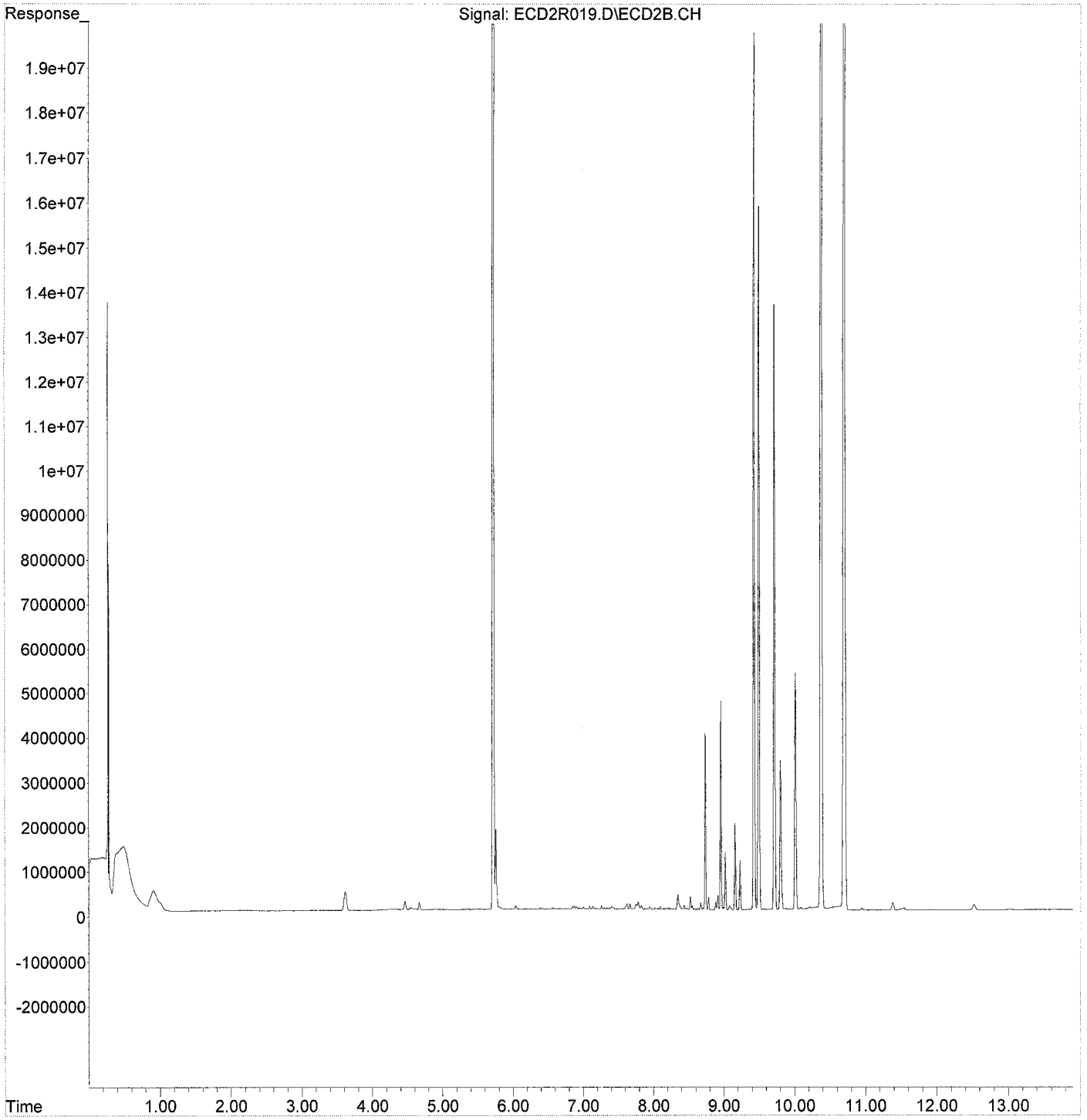
10/25/19

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9J25014\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 25 Oct 2019 12:43
Operator : MJB / KAK
Sample : 9J25014-CALE
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 25 14:20:35 2019
Quant Method : L:\Methods\RECD2_QUANTPCB_191025.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:20:23 2019
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

Polychlorinated Biphenyls by EPA 8082A
Calibration Data

Sequence 9L03052 (Cal ID A9L0407) DUALECD2F

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9L03052** Instrument: **DUALECD2F**

Date: **12/03/19 16:21** Calibration: **A9L0407**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L03052-ICB1	Water	QC	QC				A19K026
2	9L03052-CAL1	Water	QC	QC				A19F250
3	9L03052-CAL2	Water	QC	QC				A19F251
4	9L03052-CAL3	Water	QC	QC				A19F252
5	9L03052-CAL4	Water	QC	QC				A19F253
6	9L03052-CAL5	Water	QC	QC				A19F247
7	9L03052-CAL6	Water	QC	QC				A19F248
8	9L03052-CAL7	Water	QC	QC				A19F249
9	9L03052-IBL1	Water	QC	QC				
10	9L03052-ICV1	Water	QC	QC				A19H459
11	9L03052-CAL8	Water	QC	QC				A19H447
12	9L03052-CAL9	Water	QC	QC				A19H448
13	9L03052-CALA	Water	QC	QC				A19H449
14	9L03052-CALB	Water	QC	QC				A19H450
15	9L03052-CALC	Water	QC	QC				A19H451
16	9L03052-CALD	Water	QC	QC				A19H452
17	9L03052-CALE	Water	QC	QC				A19H453
18	9L03052-ICV2	Water	QC	QC				A19H405
19	9L03052-ICV3	Water	QC	QC				A19J367
20	9L03052-ICV4	Water	QC	QC				A19H406
21	9L03052-ICV5	Water	QC	QC				A19L037

Comments:

Data Entered By: 12/4/19

Data Reviewed By: MK7 12/9/19

Calibration Status Report HP G1530A

Method Path : K:\METHODS\
Method File : FECD2_QUANTPCB_191203.M
Title : PCB Data Analysis
Last Update : Wed Dec 04 15:29:22 2019
Response Via : Initial Calibration

A9L0407 12/4/19

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	K:\DATA\9L03052\ECD2F003.D
2	2	25	0	K:\DATA\9L03052\ECD2F004.D
3	3	50	0	K:\DATA\9L03052\ECD2F005.D
4	4	100	0	K:\DATA\9L03052\ECD2F006.D
5	5	250	0	K:\DATA\9L03052\ECD2F018.D
6	6	500	0	K:\DATA\9L03052\ECD2F008.D
7	7	800	0	K:\DATA\9L03052\ECD2F009.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Dec 04 15:26 2019	Dec 04 14:50 2019	03 Dec 2019 17:04
2	2	Dec 04 15:26 2019	Dec 04 14:51 2019	03 Dec 2019 17:22
3	3	Dec 04 15:27 2019	Dec 04 14:52 2019	03 Dec 2019 17:40
4	4	Dec 04 15:27 2019	Dec 04 14:54 2019	03 Dec 2019 17:57
5	5	Dec 04 15:29 2019	Dec 04 15:14 2019	03 Dec 2019 21:29
6	6	Dec 04 15:27 2019	Dec 04 14:56 2019	03 Dec 2019 18:32
7	7	Dec 04 15:27 2019	Dec 04 14:57 2019	03 Dec 2019 18:50

FECD2_QUANTPCB_191203.M Wed Dec 04 16:46:54 2019

Response Factor Report HP G1530A

Method Path : K:\METHODS\
Method File : FECD2_QUANTPCB_191203.M
Title : PCB Data Analysis
Last Update : Wed Dec 04 15:29:22 2019
Response Via : Initial Calibration

Calibration Files
1 =ECD2F003.D 2 =ECD2F004.D 3 =ECD2F005.D
4 =ECD2F006.D 5 =ECD2F018.D 6 =ECD2F008.D

12/4/19

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	S	TCMX (S)	6.079	6.081	6.245	6.243	7.658	6.722	6.659	E4	10.39
2)		Aroclor 1016 ...	4.495	3.869	3.742	3.519	3.743	3.364	3.738	E3	10.19 ✓
3)		Aroclor 1016 ...	8.056	7.042	7.109	6.630	7.719	6.834	7.194	E3	7.06 ✓
4)		Aroclor 1016 ...	4.743	3.990	3.903	3.717	4.044	3.751	3.973	E3	9.28 ✓
5)		Aroclor 1016 ...	4.368	3.818	3.564	3.253	3.640	3.257	3.577	E3	11.88 ✓
6)		Aroclor 1016 ...	4.872	4.418	4.040	3.837	4.384	3.740	4.151	E3	10.18 ✓
7)		Aroclor 1016 (6)	3.414	3.076	2.908	2.718	2.969	2.774	2.933	E3	8.72 ✓
8)		Aroclor 1016 ...							0.000		-1.00
9)		Aroclor 1221 (1)					1.082		1.082	E3	0.00
10)		Aroclor 1221 (2)					7.176		7.176	E2	0.00
11)		Aroclor 1221 (3)					2.340		2.340	E3	0.00
12)		Aroclor 1221 ...							0.000		-1.00
13)		Aroclor 1232 (1)					1.776		1.776	E3	0.00
14)		Aroclor 1232 (2)					2.780		2.780	E3	0.00
15)		Aroclor 1232 (3)					1.467		1.467	E3	0.00
16)		Aroclor 1232 (4)					1.139		1.139	E3	0.00
17)		Aroclor 1232 (5)					1.436		1.436	E3	0.00
18)		Aroclor 1232 (6)					1.198		1.198	E3	0.00
19)		Aroclor 1232 ...							0.000		-1.00
20)		Aroclor 1242 ...					2.656		2.656	E3	0.00
21)		Aroclor 1242 ...					5.187		5.187	E3	0.00
22)		Aroclor 1242 ...					2.820		2.820	E3	0.00
23)		Aroclor 1242 ...					2.289		2.289	E3	0.00
24)		Aroclor 1242 ...					2.985		2.985	E3	0.00
25)		Aroclor 1242 (6)					2.509		2.509	E3	0.00
26)		Aroclor 1242 ...							0.000		-1.00
27)		Aroclor 1248 ...					3.403		3.403	E3	0.00
28)		Aroclor 1248 ...					4.515		4.515	E3	0.00
29)		Aroclor 1248 ...					5.219		5.219	E3	0.00
30)		Aroclor 1248 ...					5.805		5.805	E3	0.00
31)		Aroclor 1248 ...					6.159		6.159	E3	0.00
32)		Aroclor 1248 (6)					3.417		3.417	E3	0.00
33)		Aroclor 1248 ...							0.000		-1.00
34)		Aroclor 1254 ...					5.998		5.998	E3	0.00
35)		Aroclor 1254 ...					7.288		7.288	E3	0.00
36)		Aroclor 1254 ...					1.121		1.121	E4	0.00
37)		Aroclor 1254 ...					7.130		7.130	E3	0.00
38)		Aroclor 1254 ...					7.659		7.659	E3	0.00
39)		Aroclor 1254 (6)					2.494		2.494	E3	0.00
40)		Aroclor 1254 ...							0.000		-1.00
41)		Aroclor 1260 ...	9.306	8.379	8.424	7.901	8.847	7.808	8.328	E3	7.24 ✓
42)		Aroclor 1260 ...	1.127	1.013	1.013	0.961	1.065	0.959	1.020	E4	5.79 ✓
43)		Aroclor 1260 (3)	8.939	8.042	8.022	7.279	7.996	7.355	7.865	E3	7.39 ✓
44)		Aroclor 1260 (4)	1.870	1.889	1.833	1.808	2.018	1.771	1.862	E4	4.24 ✓
45)		Aroclor 1260 (5)	1.271	1.231	1.222	1.136	1.258	1.158	1.210	E4	4.14 ✓
46)		Aroclor 1260 (6)	5.766	5.178	5.115	4.649	5.398	4.726	5.115	E3	7.56 ✓
47)		Aroclor 1260 ...							0.000		-1.00
48)		Aroclor 1262 (1)					8.046		8.046	E3	0.00
49)		Aroclor 1262 (2)					1.123		1.123	E4	0.00
50)		Aroclor 1262 (3)					9.705		9.705	E3	0.00
51)		Aroclor 1262 (4)					2.066		2.066	E4	0.00
52)		Aroclor 1262 (5)					1.308		1.308	E4	0.00
53)		Aroclor 1262 (6)					6.677		6.677	E3	0.00
54)		Aroclor 1262 ...							0.000		-1.00
55)		Aroclor 1268 (1)					5.104		5.104	E3	0.00
56)		Aroclor 1268 (2)					2.453		2.453	E4	0.00
57)		Aroclor 1268 (3)					2.041		2.041	E4	0.00
58)		Aroclor 1268 (4)					1.915		1.915	E4	0.00
59)		Aroclor 1268 (5)					7.750		7.750	E3	0.00
60)		Aroclor 1268 (6)					5.228		5.228	E4	0.00

Response Factor Report HP G1530A

Method Path : K:\METHODS\
Method File : FECD2_QUANTPCB_191203.M
Title : PCB Data Analysis
Last Update : Wed Dec 04 15:29:22 2019
Response Via : Initial Calibration

Calibration Files
1 =ECD2F003.D 2 =ECD2F004.D 3 =ECD2F005.D
4 =ECD2F006.D 5 =ECD2F018.D 6 =ECD2F008.D

	Compound	1	2	3	4	5	6	Avg	%RSD
61)	Aroclor 1268 ...							0.000	-1.00
62) S	DCBP (S)	1.085	1.080	1.138	1.058	1.243	1.098	1.117 E5	5.50

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

Compound List Report HP G1530A

Method Path : K:\METHODS\
Method File : FECD2_QUANTPCB_191203.M
Title : PCB Data Analysis
Last Update : Wed Dec 04 15:29:22 2019
Response Via : Initial Calibration

12/14/19

Total Cpnds : 62

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	4.811	1.000	A	H	L
2		Aroclor 1016 (1)	5.729	1.000	A	H	R
3		Aroclor 1016 (2)	6.143	1.000	A	H	R
4		Aroclor 1016 (3)	6.225	1.000	A	H	R
5		Aroclor 1016 (4)	6.382	1.000	A	H	R
6		Aroclor 1016 (5)	6.604	1.000	A	H	R
7		Aroclor 1016 (6)	6.730	1.000	A	H	R
8		Aroclor 1016 - AVE	0.749	1.000	A	H	R
9		Aroclor 1221 (1)	5.167	1.000	A	H	R
10		Aroclor 1221 (2)	5.285	1.000	A	H	R
11		Aroclor 1221 (3)	5.366	1.000	A	H	R
12		Aroclor 1221 - AVE	0.749	1.000	A	H	R
13		Aroclor 1232 (1)	5.367	1.000	A	H	R
14		Aroclor 1232 (2)	6.142	1.000	A	H	R
15		Aroclor 1232 (3)	6.225	1.000	A	H	R
16		Aroclor 1232 (4)	6.381	1.000	A	H	R
17		Aroclor 1232 (5)	6.603	1.000	A	H	R
18		Aroclor 1232 (6)	6.730	1.000	A	H	R
19		Aroclor 1232 - AVE	0.749	1.000	A	H	R
20		Aroclor 1242 (1)	5.728	1.000	A	H	R
21		Aroclor 1242 (2)	6.141	1.000	A	H	R
22		Aroclor 1242 (3)	6.224	1.000	A	H	R
23		Aroclor 1242 (4)	6.380	1.000	A	H	R
24		Aroclor 1242 (5)	6.603	1.000	A	H	R
25		Aroclor 1242 (6)	6.728	1.000	A	H	R
26		Aroclor 1242 - AVE	0.749	1.000	A	H	R
27		Aroclor 1248 (1)	6.131	1.000	A	H	R
28		Aroclor 1248 (2)	6.380	1.000	A	H	R
29		Aroclor 1248 (3)	6.601	1.000	A	H	R
30		Aroclor 1248 (4)	6.897	1.000	A	H	R
31		Aroclor 1248 (5)	6.934	1.000	A	H	R
32		Aroclor 1248 (6)	7.411	1.000	A	H	R
33		Aroclor 1248 - AVE	0.749	1.000	A	H	R
34		Aroclor 1254 (1)	6.930	1.000	A	H	R
35		Aroclor 1254 (2)	7.040	1.000	A	H	R
36		Aroclor 1254 (3)	7.412	1.000	A	H	R
37		Aroclor 1254 (4)	7.577	1.000	A	H	R
38		Aroclor 1254 (5)	7.958	1.000	A	H	R
39		Aroclor 1254 (6)	8.250	1.000	A	H	R
40		Aroclor 1254 - AVE	0.749	1.000	A	H	R
41		Aroclor 1260 (1)	7.532	1.000	A	H	R
42		Aroclor 1260 (2)	7.665	1.000	A	H	R
43		Aroclor 1260 (3)	8.221	1.000	A	H	R
44		Aroclor 1260 (4)	8.391	1.000	A	H	R
45		Aroclor 1260 (5)	8.690	1.000	A	H	R
46		Aroclor 1260 (6)	9.082	1.000	A	H	R
47		Aroclor 1260 - AVE	0.749	1.000	A	H	R
48		Aroclor 1262 (1)	7.664	1.000	A	H	R
49		Aroclor 1262 (2)	7.988	1.000	A	H	R
50		Aroclor 1262 (3)	8.220	1.000	A	H	R
51		Aroclor 1262 (4)	8.390	1.000	A	H	R
52		Aroclor 1262 (5)	8.688	1.000	A	H	R
53		Aroclor 1262 (6)	9.081	1.000	A	H	R
54		Aroclor 1262 - AVE	0.749	1.000	A	H	R
55		Aroclor 1268 (1)	8.212	1.000	A	H	R
56		Aroclor 1268 (2)	8.637	1.000	A	H	R

57		Aroclor 1268 (3)	8.685	1.000	A	H	R
58		Aroclor 1268 (4)	8.867	1.000	A	H	R
59		Aroclor 1268 (5)	9.080	1.000	A	H	R
60		Aroclor 1268 (6)	9.340	1.000	A	H	R
61		Aroclor 1268 - AVE	0.752	1.000	A	H	R
62	S	DCBP (S)	9.578	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

FECD2_QUANTPCB_191203.M Wed Dec 04 16:46:45 2019

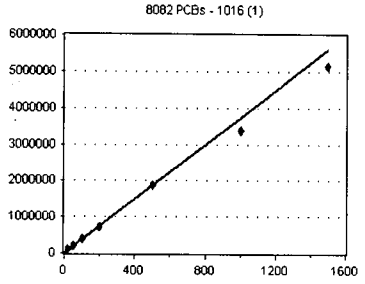
Element Calibration Review Sheet

Calibration ID: **A9L0407** Instrument: **DUALECD2F** Calibration Date: **12/04/2019**

Analysis: **8082 PCBs** Instrument Cal ID: **FECD2_QUANTPCB_19120**

1016 (1)

Curve Fit: **AVERAGE RF**

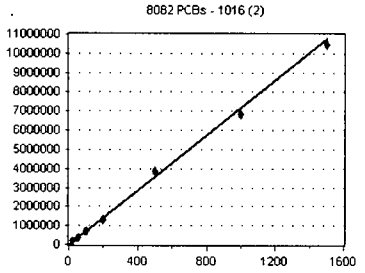


Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	89904	4495.200	5.73
9L03052-CAL2	50	193429	3868.580	5.73
9L03052-CAL3	100	374224	3742.240	5.73
9L03052-CAL4	200	703735	3518.675	5.73
9L03052-CAL5	500	1871482	3742.964	5.73
9L03052-CAL6	1000	3364096	3364.096	5.73
9L03052-CAL7	1500	5150886	3433.924	5.73

AVE RF **3737.954** RF RSD **10.19** AVE RT **5.73**

1016 (2)

Curve Fit: **AVERAGE RF**

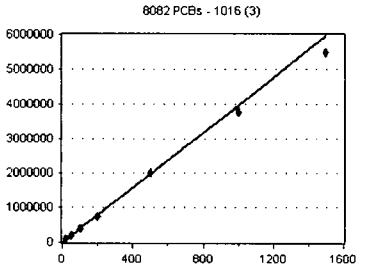


Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	161114	8055.700	6.14
9L03052-CAL2	50	352080	7041.600	6.14
9L03052-CAL3	100	710924	7109.240	6.14
9L03052-CAL4	200	1325963	6629.815	6.14
9L03052-CAL5	500	3859736	7719.472	6.14
9L03052-CAL6	1000	6834377	6834.377	6.14
9L03052-CAL7	1500	045072E+07	6967.146	6.14

AVE RF **7193.907** RF RSD **7.06** AVE RT **6.14**

1016 (3)

Curve Fit: **AVERAGE RF**

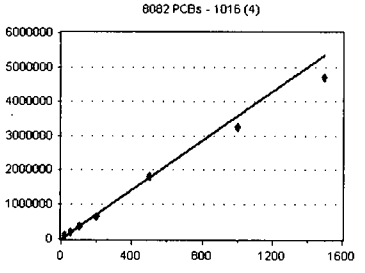


Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	94866	4743.300	6.23
9L03052-CAL2	50	199490	3989.800	6.23
9L03052-CAL3	100	390273	3902.730	6.23
9L03052-CAL4	200	743377	3716.885	6.22
9L03052-CAL5	500	2022155	4044.310	6.23
9L03052-CAL6	1000	3751237	3751.237	6.23
9L03052-CAL7	1500	5493308	3662.205	6.22

AVE RF **3972.924** RF RSD **9.28** AVE RT **6.22**

1016 (4)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	87352	4367.600	6.38
9L03052-CAL2	50	190893	3817.860	6.38
9L03052-CAL3	100	356425	3564.250	6.38
9L03052-CAL4	200	650662	3253.310	6.38
9L03052-CAL5	500	1820005	3640.010	6.38
9L03052-CAL6	1000	3257104	3257.104	6.38
9L03052-CAL7	1500	4711985	3141.323	6.38

AVE RF **3577.351** RF RSD **11.88** AVE RT **6.38**

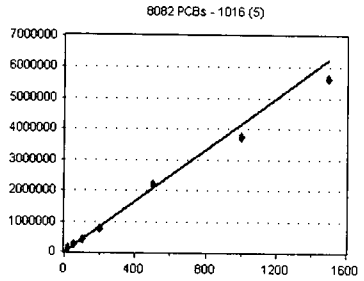
Element Calibration Review Sheet

Calibration ID: **A9L0407** Instrument: **DUALECD2F** Calibration Date: **12/04/2019**

Analysis: **8082 PCBs** Instrument Cal ID: **FECD2_QUANTPCB_19120**

1016 (5)

Curve Fit: **AVERAGE RF**

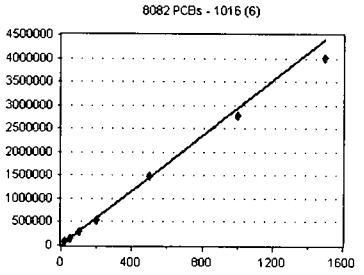


Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	97448	4872.400	6.60
9L03052-CAL2	50	220902	4418.040	6.60
9L03052-CAL3	100	404011	4040.110	6.60
9L03052-CAL4	200	767420	3837.100	6.60
9L03052-CAL5	500	2192154	4384.308	6.60
9L03052-CAL6	1000	3740486	3740.486	6.60
9L03052-CAL7	1500	5651954	3767.969	6.60

AVE RF **4151.488** RF RSD **10.18** AVE RT **6.60**

1016 (6)

Curve Fit: **AVERAGE RF**

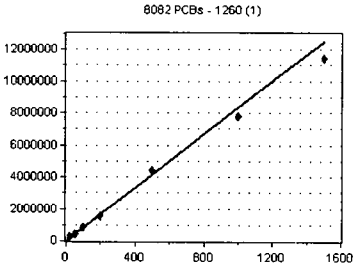


Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	68287	3414.350	6.73
9L03052-CAL2	50	153783	3075.660	6.73
9L03052-CAL3	100	290789	2907.890	6.73
9L03052-CAL4	200	543631	2718.155	6.73
9L03052-CAL5	500	1484483	2968.966	6.73
9L03052-CAL6	1000	2774363	2774.363	6.73
9L03052-CAL7	1500	4009865	2673.243	6.73

AVE RF **2933.232** RF RSD **8.72** AVE RT **6.73**

1260 (1)

Curve Fit: **AVERAGE RF**

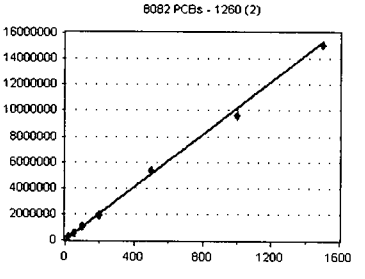


Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	186119	9305.950	7.53
9L03052-CAL2	50	418936	8378.720	7.53
9L03052-CAL3	100	842440	8424.400	7.53
9L03052-CAL4	200	1580165	7900.825	7.53
9L03052-CAL5	500	4423699	8847.398	7.53
9L03052-CAL6	1000	7808345	7808.345	7.53
9L03052-CAL7	1500	144334E+07	7628.894	7.53

AVE RF **8327.790** RF RSD **7.24** AVE RT **7.53**

1260 (2)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	225314	11265.700	7.67
9L03052-CAL2	50	506688	10133.760	7.67
9L03052-CAL3	100	1012879	10128.790	7.67
9L03052-CAL4	200	1922759	9613.795	7.67
9L03052-CAL5	500	5325133	10650.270	7.67
9L03052-CAL6	1000	9589273	9589.273	7.67
9L03052-CAL7	1500	505274E+07	10035.160	7.67

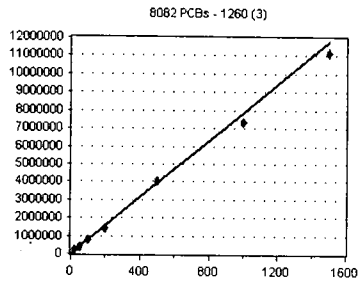
AVE RF **10202.390** RF RSD **5.79** AVE RT **7.67**

Element Calibration Review Sheet

Calibration ID: **A9L0407** Instrument: **DUALECD2F** Calibration Date: **12/04/2019**

Analysis: **8082 PCBs** Instrument Cal ID: **FECD2_QUANTPCB_19120**

1260 (3)

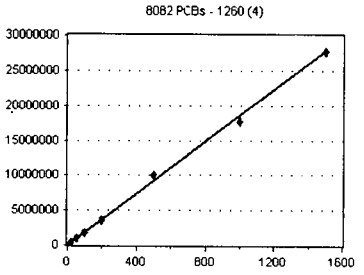


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	178776	8938.800	8.22
9L03052-CAL2	50	402124	8042.480	8.22
9L03052-CAL3	100	802199	8021.990	8.22
9L03052-CAL4	200	1455817	7279.085	8.22
9L03052-CAL5	500	3997829	7995.658	8.22
9L03052-CAL6	1000	7355010	7355.010	8.22
9L03052-CAL7	1500	113463E+07	7423.086	8.22

AVE RF **7865.158** RF RSD **7.39** AVE RT **8.22**

1260 (4)

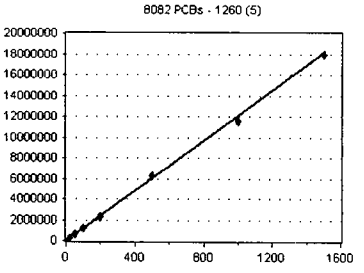


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	374030	18701.500	8.39
9L03052-CAL2	50	944538	18890.760	8.39
9L03052-CAL3	100	1832880	18328.800	8.39
9L03052-CAL4	200	3616251	18081.260	8.39
9L03052-CAL5	500	008925E+07	20178.500	8.39
9L03052-CAL6	1000	.77085E+07	17708.500	8.39
9L03052-CAL7	1500	765995E+07	18439.970	8.39

AVE RF **18618.470** RF RSD **4.24** AVE RT **8.39**

1260 (5)

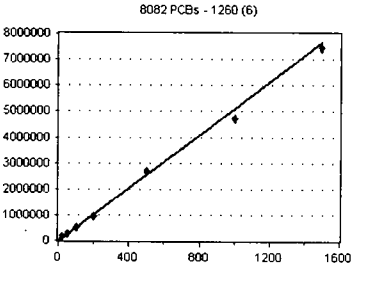


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	254106	12705.300	8.69
9L03052-CAL2	50	615297	12305.940	8.69
9L03052-CAL3	100	1221637	12216.370	8.69
9L03052-CAL4	200	2271341	11356.710	8.69
9L03052-CAL5	500	6288943	12577.890	8.69
9L03052-CAL6	1000	158015E+07	11580.150	8.69
9L03052-CAL7	1500	789422E+07	11929.480	8.69

AVE RF **12095.980** RF RSD **4.14** AVE RT **8.69**

1260 (6)



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	115322	5766.100	9.08
9L03052-CAL2	50	258919	5178.380	9.08
9L03052-CAL3	100	511487	5114.870	9.08
9L03052-CAL4	200	929790	4648.950	9.08
9L03052-CAL5	500	2699039	5398.078	9.08
9L03052-CAL6	1000	4725786	4725.786	9.08
9L03052-CAL7	1500	7455071	4970.047	9.08

AVE RF **5114.602** RF RSD **7.56** AVE RT **9.08**

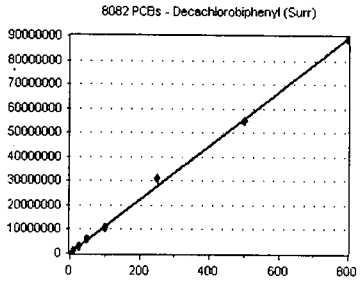
Element Calibration Review Sheet

Calibration ID: **A9L0407** Instrument: **DUALECD2F** Calibration Date: **12/04/2019**

Analysis: **8082 PCBs** Instrument Cal ID: **FECD2_QUANTPCB_19120**

Decachlorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	10	1085395	108539.500	9.58
9L03052-CAL2	25	2699632	107985.300	9.58
9L03052-CAL3	50	5688932	113778.600	9.58
9L03052-CAL4	100	057786E+07	105778.600	9.58
9L03052-CAL5	250	108338E+07	124333.500	9.58
9L03052-CAL6	500	490382E+07	109807.600	9.58
9L03052-CAL7	800	920232E+07	111502.900	9.58

AVE RF **111675.200** RF RSD **5.50** AVE RT **9.58**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9L03052

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) +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
9L03052-ICB1	Initial Cal Blank	Water	A19K026		12/3/2019 4:47:00PM
9L03052-CAL1	Cal Standard	Water	A19F250	"	12/3/2019 5:04:00PM
9L03052-CAL2	Cal Standard	Water	A19F251	"	12/3/2019 5:22:00PM
9L03052-CAL3	Cal Standard	Water	A19F252	"	12/3/2019 5:40:00PM
9L03052-CAL4	Cal Standard	Water	A19F253	"	12/3/2019 5:57:00PM
9L03052-CAL5	Cal Standard	Water	A19F247	"	12/3/2019 6:15:00PM
9L03052-CAL6	Cal Standard	Water	A19F248	"	12/3/2019 6:32:00PM
9L03052-CAL7	Cal Standard	Water	A19F249	"	12/3/2019 6:50:00PM
9L03052-ICV1	Initial Cal Check	Water	A19H459	"	12/3/2019 7:25:00PM
9L03052-CAL8	Cal Standard	Water	A19H447	"	12/3/2019 7:43:00PM
9L03052-CAL9	Cal Standard	Water	A19H448	"	12/3/2019 8:01:00PM
9L03052-CALA	Cal Standard	Water	A19H449	"	12/3/2019 8:18:00PM
9L03052-CALB	Cal Standard	Water	A19H450	"	12/3/2019 8:36:00PM
9L03052-CALC	Cal Standard	Water	A19H451	"	12/3/2019 8:53:00PM
9L03052-CALD	Cal Standard	Water	A19H452	"	12/3/2019 9:11:00PM
9L03052-CALE	Cal Standard	Water	A19H453	"	12/3/2019 9:29:00PM
9L03052-ICV2	Initial Cal Check	Water	A19H405	"	12/3/2019 9:46:00PM
9L03052-ICV3	Initial Cal Check	Water	A19J367	"	12/3/2019 10:04:00PM
9L03052-ICV4	Initial Cal Check	Water	A19H406	"	12/3/2019 10:21:00PM
9L03052-ICV5	Initial Cal Check	Water	A19L037	"	12/3/2019 10:39:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: A9L0407 Instrument: DUALECD2F

1311/8082 TCLP PCBs Sequence: 9L03052 Matrix: Water

9L03052-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	

9L03052-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	50.0	0	
Aroclor 1260	0.0000	0.00	50.0	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9L03052

Aroclor 1016	0.0000	0.00	50.0	0	
Aroclor 1260	0.0000	0.00	50.0	0	
9L03052-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	
9L03052-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	
9L03052-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	
9L03052-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	
9L03052-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	
9L03052-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	
9L03052-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	
9L03052-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	
9L03052-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	
9L03052-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: 9L03052

9L03052-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	

9L03052-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: **A9L0407** Instrument: **DUALECD2F**

8082 PCBs Sequence: **9L03052** Matrix: **Water**

9L03052-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)		500	338.20	68	
1260 (6)		500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	

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 : K:\DATA\9L03052\
Data File : ECD2F002.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 16:47
Operator : MJB / KAK
Sample : 9L03052-ICB1
Misc : [redacted]
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:46:12 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/4/19
clean

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
1) S	TCMX (S)	4.809	6338084	95.184 ng/ml
62) S	DCBP (S)	9.578	10758324	96.336 ng/ml
	Target Compounds			
2)	Aroclor 1016 (1)	5.730	2193	0.587 ng/ml
3)	Aroclor 1016 (2)	6.146	1281	0.178 ng/ml
4)	Aroclor 1016 (3)	6.226	1076	0.271 ng/ml
5)	Aroclor 1016 (4)	6.380	447	0.125 ng/ml
6)	Aroclor 1016 (5)	6.607	951	0.229 ng/ml
7)	Aroclor 1016 (6)	6.731	562	0.191 ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)	Aroclor 1221 (1)	5.162	6620	6.116 ng/ml
10)	Aroclor 1221 (2)	5.300	5965	8.313 ng/ml
11)	Aroclor 1221 (3)	5.361	4965	2.122 ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)	Aroclor 1232 (1)	5.371	4826	2.717 ng/ml
14)	Aroclor 1232 (2)	6.146	1281	0.461 ng/ml
15)	Aroclor 1232 (3)	6.226	1076	0.733 ng/ml
16)	Aroclor 1232 (4)	6.380	447	0.392 ng/ml
17)	Aroclor 1232 (5)	6.607	951	0.662 ng/ml
18)	Aroclor 1232 (6)	6.731	562	0.469 ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)	Aroclor 1242 (1)	5.730	2193	0.826 ng/ml
21)	Aroclor 1242 (2)	6.137	1320	0.255 ng/ml
22)	Aroclor 1242 (3)	6.226	1076	0.382 ng/ml
23)	Aroclor 1242 (4)	6.380	447	0.195 ng/ml
24)	Aroclor 1242 (5)	6.607	951	0.319 ng/ml
25)	Aroclor 1242 (6)	6.731	562	0.224 ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)	Aroclor 1248 (1)	6.130	1280	0.376 ng/ml
28)	Aroclor 1248 (2)	6.380	447	0.099 ng/ml
29)	Aroclor 1248 (3)	6.598	1020	0.196 ng/ml
30)	Aroclor 1248 (4)	6.903	924	0.159 ng/ml
31)	Aroclor 1248 (5)	6.933	1036	0.168 ng/ml
32)	Aroclor 1248 (6)	7.414	1315	0.385 ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)	Aroclor 1254 (1)	6.933	1036	0.173 ng/ml
35)	Aroclor 1254 (2)	7.027	397	0.054 ng/ml
36)	Aroclor 1254 (3)	7.414	1315	0.117 ng/ml
37)	Aroclor 1254 (4)	7.581	1251	0.175 ng/ml
38)	Aroclor 1254 (5)	7.969	3567	0.466 ng/ml
39)	Aroclor 1254 (6)	8.251	439	0.176 ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)	Aroclor 1260 (1)	7.530	1532	0.184 ng/ml
42)	Aroclor 1260 (2)	7.661	810	0.079 ng/ml
43)	Aroclor 1260 (3)	8.220	1016	0.129 ng/ml
44)	Aroclor 1260 (4)	8.387	4410	0.237 ng/ml
45)	Aroclor 1260 (5)	8.693	3008	0.249 ng/ml
46)	Aroclor 1260 (6)	9.084	3317	0.648 ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F002.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 16:47
Operator : MJB / KAK
Sample : 9L03052-ICB1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:46:12 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

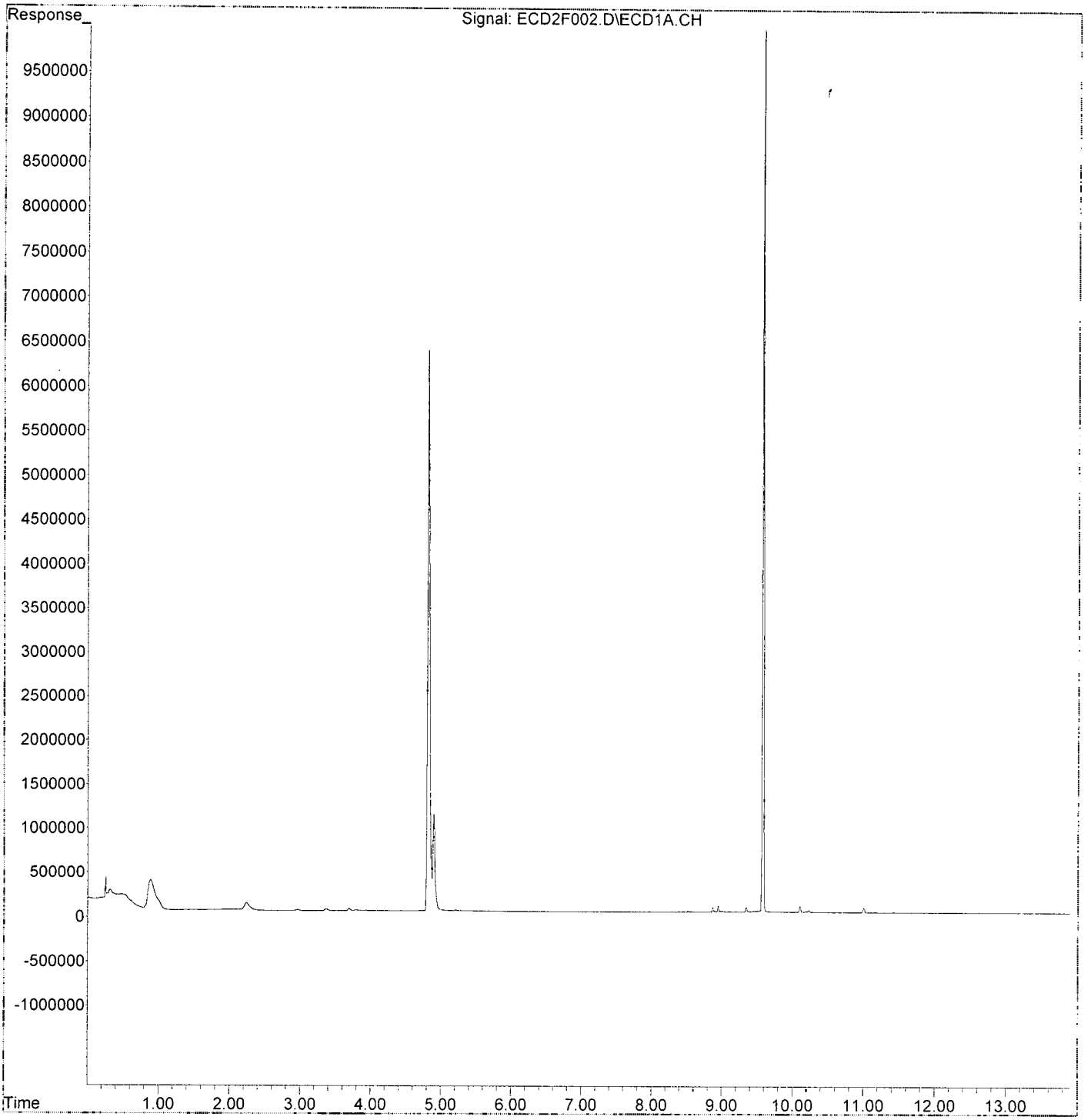
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.661	810	0.101 ng/ml
49)	Aroclor 1262 (2)	7.993	631	0.056 ng/ml
50)	Aroclor 1262 (3)	8.220	1016	0.105 ng/ml
51)	Aroclor 1262 (4)	8.387	4410	0.213 ng/ml
52)	Aroclor 1262 (5)	8.693	3008	0.230 ng/ml
53)	Aroclor 1262 (6)	9.084	3317	0.497 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.220	1016	0.199 ng/ml
56)	Aroclor 1268 (2)	8.643	2303	0.094 ng/ml
57)	Aroclor 1268 (3)	8.693	3008	0.147 ng/ml
58)	Aroclor 1268 (4)	8.870	57632	3.009 ng/ml
59)	Aroclor 1268 (5)	9.078	3271	0.422 ng/ml
60)	Aroclor 1268 (6)	9.344	58231	1.114 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 : K:\DATA\9L03052\
Data File : ECD2F002.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 16:47
Operator : MJB / KAK
Sample : 9L03052-ICB1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:46:12 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F010.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 19:08
Operator : MJB / KAK
Sample : 9L03052-[redacted]
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:46:27 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/4/19

		Compound	R.T.	Response	Conc Units
		System Monitoring Compounds			
1)	S	TCMX (S)	4.737f	12545	0.188 ng/ml
62)	S	DCBP (S)	9.577	25002	0.224 ng/ml
		Target Compounds			
2)		Aroclor 1016 (1)	5.752	12668	3.389 ng/ml
3)		Aroclor 1016 (2)	6.145	16520	2.296 ng/ml
4)		Aroclor 1016 (3)	6.237	10133	2.550 ng/ml
5)		Aroclor 1016 (4)	6.391	8879	2.482 ng/ml
6)		Aroclor 1016 (5)	6.610	12655	3.048 ng/ml
7)		Aroclor 1016 (6)	6.735	9348	3.187 ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9)		Aroclor 1221 (1)	5.136	3825	3.533 ng/ml
10)		Aroclor 1221 (2)	5.250	9695	13.511 ng/ml
11)		Aroclor 1221 (3)	5.363	4759	2.034 ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13)		Aroclor 1232 (1)	5.363	4759	2.679 ng/ml
14)		Aroclor 1232 (2)	6.145	16520	5.942 ng/ml
15)		Aroclor 1232 (3)	6.237	10133	6.907 ng/ml
16)		Aroclor 1232 (4)	6.391	8879	7.793 ng/ml
17)		Aroclor 1232 (5)	6.610	12655	8.813 ng/ml
18)		Aroclor 1232 (6)	6.735	9348	7.802 ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20)		Aroclor 1242 (1)	5.703	6298	2.371 ng/ml
21)		Aroclor 1242 (2)	6.145	16520	3.185 ng/ml
22)		Aroclor 1242 (3)	6.211	2588	0.918 ng/ml
23)		Aroclor 1242 (4)	6.391	8879	3.879 ng/ml
24)		Aroclor 1242 (5)	6.610	12655	4.240 ng/ml
25)		Aroclor 1242 (6)	6.735	9348	3.725 ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27)		Aroclor 1248 (1)	6.145	16520	4.854 ng/ml
28)		Aroclor 1248 (2)	6.391	8879	1.966 ng/ml
29)		Aroclor 1248 (3)	6.610	12655	2.425 ng/ml
30)		Aroclor 1248 (4)	6.901	6862	1.182 ng/ml
31)		Aroclor 1248 (5)	6.936	6915	1.123 ng/ml
32)		Aroclor 1248 (6)	7.418	9012	2.637 ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34)		Aroclor 1254 (1)	6.936	6915	1.153 ng/ml
35)		Aroclor 1254 (2)	7.044	8240	1.131 ng/ml
36)		Aroclor 1254 (3)	7.418	9012	0.804 ng/ml
37)		Aroclor 1254 (4)	7.580	6917	0.970 ng/ml
38)		Aroclor 1254 (5)	7.959	19034	2.485 ng/ml
39)		Aroclor 1254 (6)	8.250	3740	1.500 ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41)		Aroclor 1260 (1)	7.532	14399	1.729 ng/ml
42)		Aroclor 1260 (2)	7.666	25104	2.461 ng/ml
43)		Aroclor 1260 (3)	8.222	9877	1.256 ng/ml
44)		Aroclor 1260 (4)	8.392	31578	1.696 ng/ml
45)		Aroclor 1260 (5)	8.690	20342	1.682 ng/ml
46)		Aroclor 1260 (6)	9.082	8134	1.590 ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

<< MDL

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F010.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 19:08
Operator : MJB / KAK
Sample : 9L03052-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:46:27 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

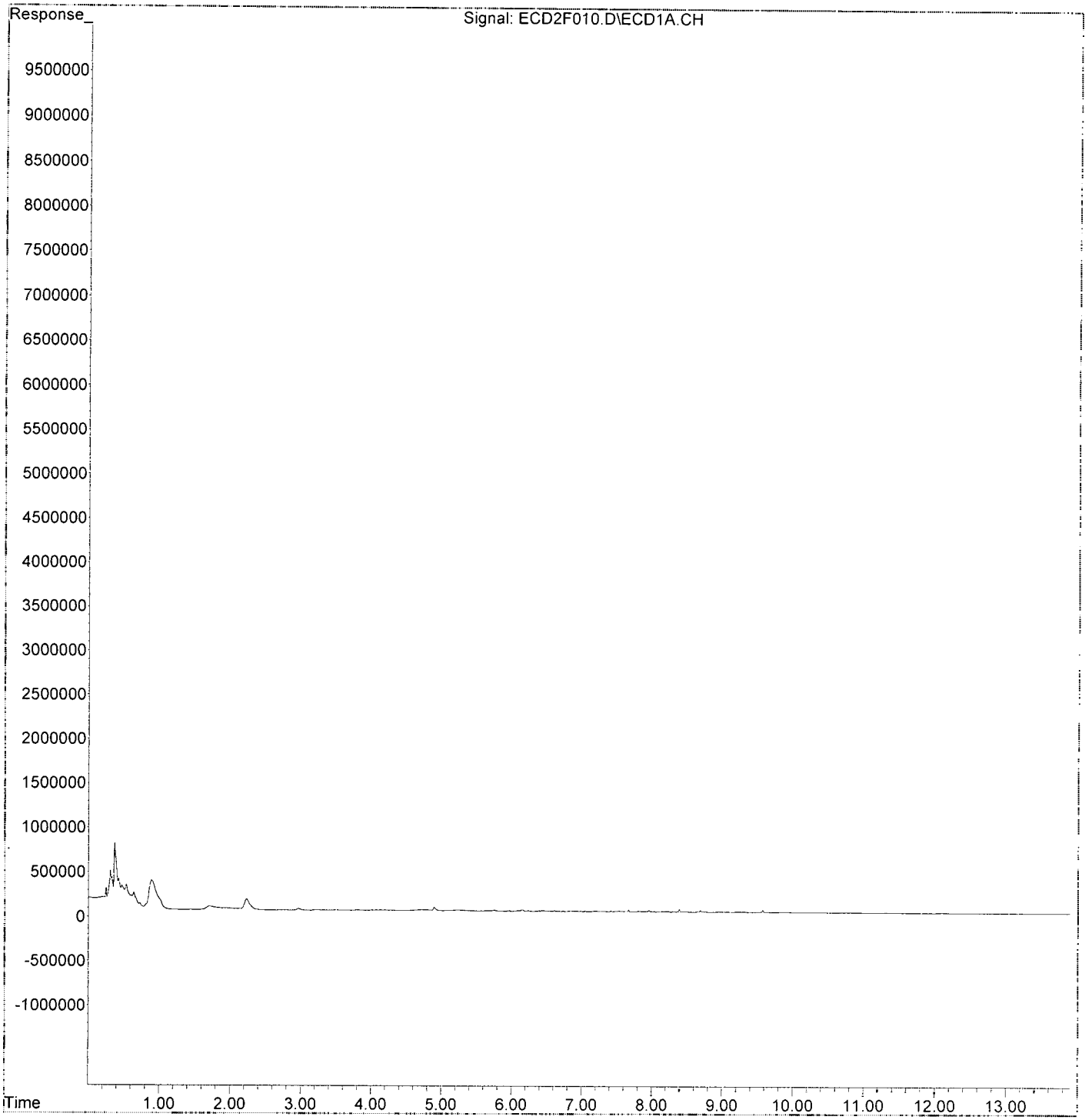
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.666	25104	3.120 ng/ml
49)	Aroclor 1262 (2)	7.989	9638	0.859 ng/ml
50)	Aroclor 1262 (3)	8.222	9877	1.018 ng/ml
51)	Aroclor 1262 (4)	8.392	31578	1.528 ng/ml
52)	Aroclor 1262 (5)	8.690	20342	1.555 ng/ml
53)	Aroclor 1262 (6)	9.082	8134	1.218 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.222	9877	1.935 ng/ml
56)	Aroclor 1268 (2)	8.639	4889	0.199 ng/ml
57)	Aroclor 1268 (3)	8.690	20342	0.996 ng/ml
58)	Aroclor 1268 (4)	8.872	2484	0.130 ng/ml
59)	Aroclor 1268 (5)	9.082	8134	1.050 ng/ml
60)	Aroclor 1268 (6)	9.341	4085	0.078 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 : K:\DATA\9L03052\
Data File : ECD2F010.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 19:08
Operator : MJB / KAK
Sample : 9L03052-IBL1
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:46:27 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 19:25
Operator : MJB / KAK
Sample : 9L03052-ICV1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:46:41 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/4/19

1016, 1260

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	4.809	11420854	171.516	ng/ml
62)	S	DCBP (S)	9.577	20581453	184.298	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	5.729	1584967	424.020	ng/ml
3)		Aroclor 1016 (2)	6.143	3295907	458.153	ng/ml
4)		Aroclor 1016 (3)	6.224	1748585	440.125	ng/ml
5)		Aroclor 1016 (4)	6.381	1506724	421.184	ng/ml
6)		Aroclor 1016 (5)	6.604	1802153	434.098	ng/ml
7)		Aroclor 1016 (6)	6.730	1256017	428.203	ng/ml
8)		Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)		Aroclor 1221 (1)	5.167	154121	142.384	ng/ml
10)		Aroclor 1221 (2)	5.287	169658	236.435	ng/ml
11)		Aroclor 1221 (3)	5.367	741426	316.834	ng/ml
12)		Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)		Aroclor 1232 (1)	5.367	741426	417.429	ng/ml
14)		Aroclor 1232 (2)	6.143	3295907	1185.500	ng/ml
15)		Aroclor 1232 (3)	6.224	1748585	1191.994	ng/ml
16)		Aroclor 1232 (4)	6.381	1506724	1322.425	ng/ml
17)		Aroclor 1232 (5)	6.604	1802153	1254.999	ng/ml
18)		Aroclor 1232 (6)	6.730	1256017	1048.322	ng/ml
19)		Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)		Aroclor 1242 (1)	5.729	1584967	596.744	ng/ml
21)		Aroclor 1242 (2)	6.143	3295907	635.407	ng/ml
22)		Aroclor 1242 (3)	6.224	1748585	620.028	ng/ml
23)		Aroclor 1242 (4)	6.381	1506724	658.194	ng/ml
24)		Aroclor 1242 (5)	6.604	1802153	603.796	ng/ml
25)		Aroclor 1242 (6)	6.730	1256017	500.560	ng/ml
26)		Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)		Aroclor 1248 (1)	6.143	3295907	968.446	ng/ml
28)		Aroclor 1248 (2)	6.381	1506724	333.699	ng/ml
29)		Aroclor 1248 (3)	6.604	1802153	345.316	ng/ml
30)		Aroclor 1248 (4)	6.898	306212	52.748	ng/ml
31)		Aroclor 1248 (5)	6.931	1452015	235.743	ng/ml
32)		Aroclor 1248 (6)	7.419	3020035	883.719	ng/ml
33)		Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)		Aroclor 1254 (1)	6.931	1452015	242.078	ng/ml
35)		Aroclor 1254 (2)	7.042	1517384	208.215	ng/ml
36)		Aroclor 1254 (3)	7.419	3020035	269.406	ng/ml
37)		Aroclor 1254 (4)	7.578	308753	43.303	ng/ml
38)		Aroclor 1254 (5)	7.959	4100152	535.339	ng/ml
39)		Aroclor 1254 (6)	8.251	442599	177.474	ng/ml
40)		Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)		Aroclor 1260 (1)	7.531	4033365	484.326	ng/ml
42)		Aroclor 1260 (2)	7.665	4859368	476.297	ng/ml
43)		Aroclor 1260 (3)	8.221	3358472	427.006	ng/ml
44)		Aroclor 1260 (4)	8.391	7851638	421.712	ng/ml
45)		Aroclor 1260 (5)	8.691	5184287	428.596	ng/ml
46)		Aroclor 1260 (6)	9.082	1729763	338.201	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

434.297

429.356

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 19:25
Operator : MJB / KAK
Sample : 9L03052-ICV1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:46:41 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

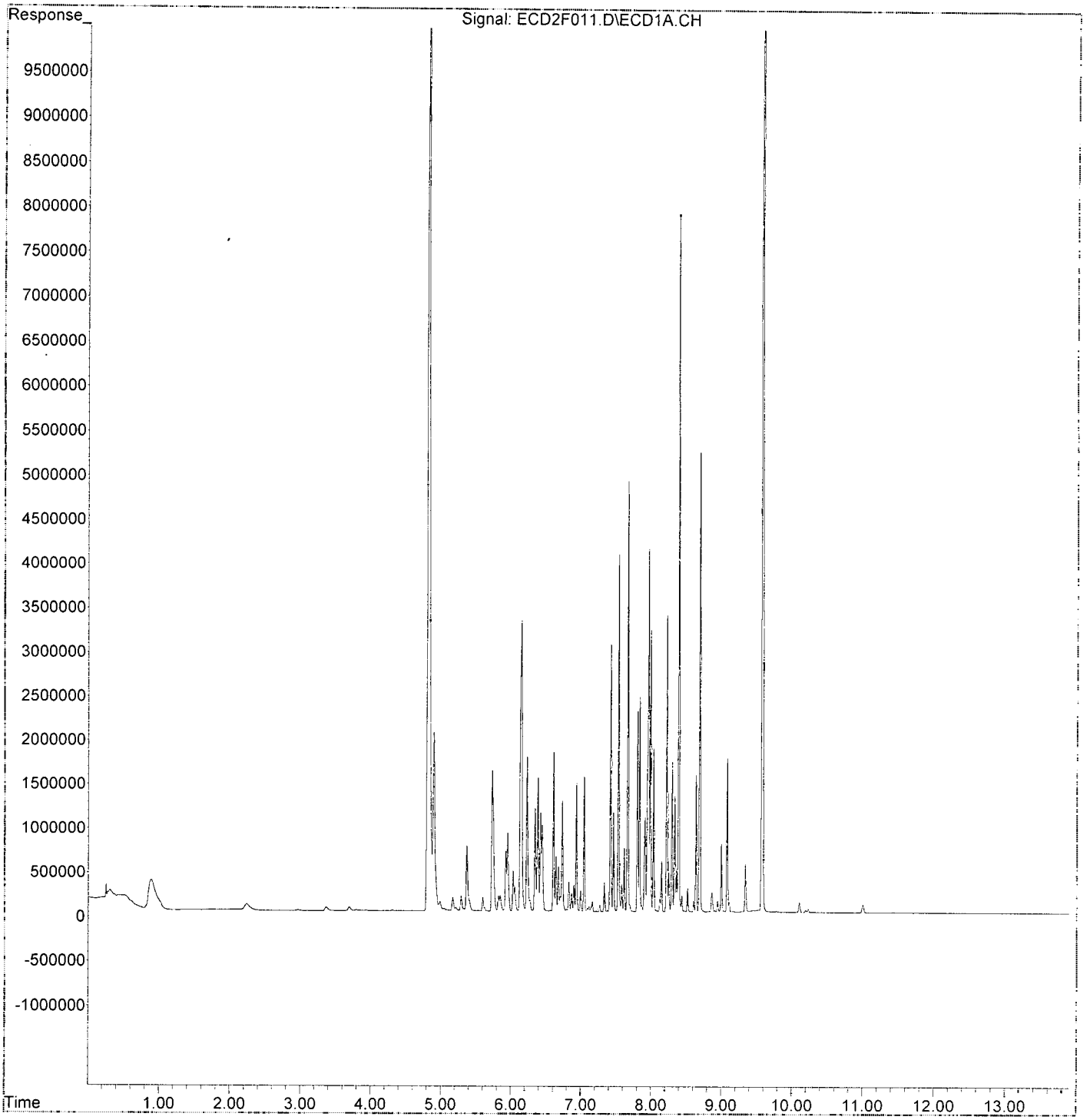
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.665	4859368	603.917 ng/ml
49)	Aroclor 1262 (2)	7.989	3182035	283.476 ng/ml
50)	Aroclor 1262 (3)	8.221	3358472	346.058 ng/ml
51)	Aroclor 1262 (4)	8.391	7851638	380.039 ng/ml
52)	Aroclor 1262 (5)	8.691	5184287	396.281 ng/ml
53)	Aroclor 1262 (6)	9.082	1729763	259.077 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.221	3358472	657.977 ng/ml
56)	Aroclor 1268 (2)	8.638	1542082	62.876 ng/ml
57)	Aroclor 1268 (3)	8.691	5184287	253.955 ng/ml
58)	Aroclor 1268 (4)	8.865	214550	11.202 ng/ml
59)	Aroclor 1268 (5)	9.082	1729763	223.203 ng/ml
60)	Aroclor 1268 (6)	9.340	542704	10.380 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 : K:\DATA\9L03052\
Data File : ECD2F011.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 19:25
Operator : MJB / KAK
Sample : 9L03052-ICV1
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:46:41 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F019.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 21:46
Operator : MJB / KAK
Sample : 9L03052-ICV2
Misc : [redacted]
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:46:57 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/4/19

1221, 1254

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
1)	S TCMX (S)	4.806	2523842	37.902	ng/ml	
62)	S DCBP (S)	9.576	9098738	81.475	ng/ml	
	Target Compounds					
2)	Aroclor 1016 (1)	5.729	408626	109.318	ng/ml	
3)	Aroclor 1016 (2)	6.141	518754	72.110	ng/ml	
4)	Aroclor 1016 (3)	6.224	315790	79.485	ng/ml	
5)	Aroclor 1016 (4)	6.381	1796683	502.238	ng/ml	
6)	Aroclor 1016 (5)	6.602	1114869	268.547	ng/ml	
7)	Aroclor 1016 (6)	6.729	509980	173.863	ng/ml	
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml	
9)	Aroclor 1221 (1)	5.165	999048	922.965	ng/ml	922.872
10)	Aroclor 1221 (2)	5.284	659283	918.773	ng/ml	
11)	Aroclor 1221 (3)	5.366	2169002	926.879	ng/ml	
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml	
13)	Aroclor 1232 (1)	5.366	2169002	1221.167	ng/ml	
14)	Aroclor 1232 (2)	6.141	518754	186.590	ng/ml	
15)	Aroclor 1232 (3)	6.224	315790	215.271	ng/ml	
16)	Aroclor 1232 (4)	6.381	1796683	1576.916	ng/ml	
17)	Aroclor 1232 (5)	6.602	1114869	776.382	ng/ml	
18)	Aroclor 1232 (6)	6.729	509980	425.650	ng/ml	
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml	
20)	Aroclor 1242 (1)	5.729	408626	153.849	ng/ml	
21)	Aroclor 1242 (2)	6.141	518754	100.009	ng/ml	
22)	Aroclor 1242 (3)	6.224	315790	111.975	ng/ml	
23)	Aroclor 1242 (4)	6.381	1796683	784.858	ng/ml	
24)	Aroclor 1242 (5)	6.602	1114869	373.527	ng/ml	
25)	Aroclor 1242 (6)	6.729	509980	203.242	ng/ml	
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml	
27)	Aroclor 1248 (1)	6.141	518754	152.427	ng/ml	
28)	Aroclor 1248 (2)	6.381	1796683	397.917	ng/ml	
29)	Aroclor 1248 (3)	6.602	1114869	213.623	ng/ml	
30)	Aroclor 1248 (4)	6.897	1645230	283.409	ng/ml	
31)	Aroclor 1248 (5)	6.930	3291877	534.456	ng/ml	
32)	Aroclor 1248 (6)	7.412	5438265	1591.338	ng/ml	
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml	
34)	Aroclor 1254 (1)	6.930	3291877	548.818	ng/ml	506.727
35)	Aroclor 1254 (2)	7.040	3724068	511.017	ng/ml	
36)	Aroclor 1254 (3)	7.412	5438265	485.127	ng/ml	
37)	Aroclor 1254 (4)	7.577	3641186	510.683	ng/ml	
38)	Aroclor 1254 (5)	7.958	3764966	491.575	ng/ml	
39)	Aroclor 1254 (6)	8.249	1229847	493.144	ng/ml	
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml	
41)	Aroclor 1260 (1)	7.531	2171772	260.786	ng/ml	
42)	Aroclor 1260 (2)	7.664	2434418	238.612	ng/ml	
43)	Aroclor 1260 (3)	8.220	352887	44.867	ng/ml	
44)	Aroclor 1260 (4)	8.390	825894	44.359	ng/ml	
45)	Aroclor 1260 (5)	8.689	707191	58.465	ng/ml	
46)	Aroclor 1260 (6)	9.080	59626	11.658	ng/ml	
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F019.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 21:46
Operator : MJB / KAK
Sample : 9L03052-ICV2
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:46:57 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

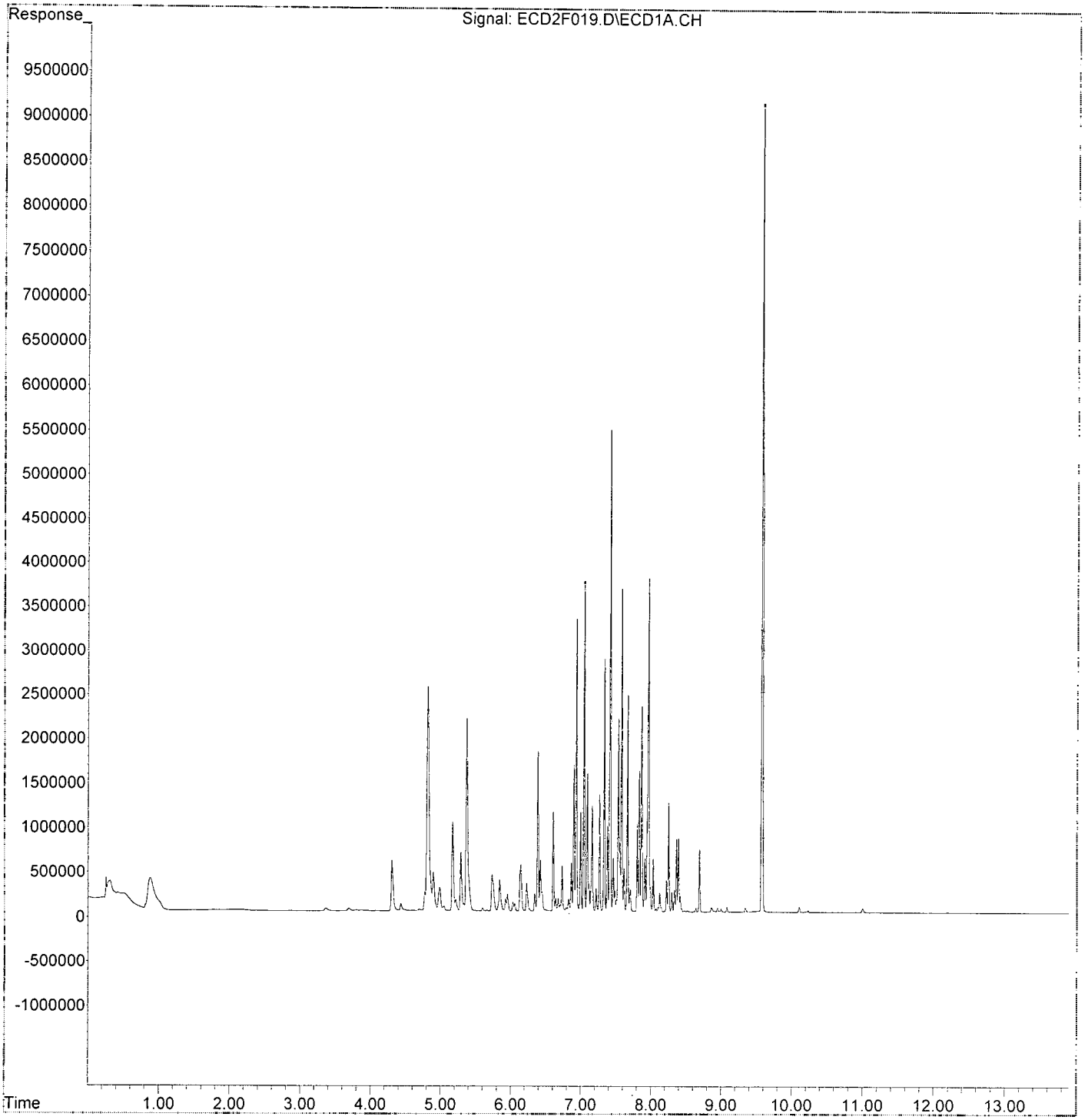
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.664	2434418	302.547	ng/ml
49)	Aroclor 1262 (2)	7.986	283402	25.247	ng/ml
50)	Aroclor 1262 (3)	8.220	352887	36.362	ng/ml
51)	Aroclor 1262 (4)	8.390	825894	39.975	ng/ml
52)	Aroclor 1262 (5)	8.689	707191	54.057	ng/ml
53)	Aroclor 1262 (6)	9.080	59626	8.931	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.220	352887	69.136	ng/ml
56)	Aroclor 1268 (2)	8.637	48189	1.965	ng/ml
57)	Aroclor 1268 (3)	8.689	707191	34.642	ng/ml
58)	Aroclor 1268 (4)	8.859	50067	2.614	ng/ml
59)	Aroclor 1268 (5)	9.080	59626	7.694	ng/ml
60)	Aroclor 1268 (6)	9.340	48854	0.934	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 : K:\DATA\9L03052\
Data File : ECD2F019.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 21:46
Operator : MJB / KAK
Sample : 9L03052-ICV2
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:46:57 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F020.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 22:04
Operator : MJB / KAK
Sample : 9L03052-ICV3
Misc : [redacted]
ALS Vial : 19 Sample Multiplier: 1

12/4/19
1232, 1262

Integration File: PCB1.e
Quant Time: Dec 04 15:47:09 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.807	2529050	37.981	ng/ml
62) S	DCBP (S)	9.577	9324205	83.494	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.728	780192	208.722	ng/ml
3)	Aroclor 1016 (2)	6.140	1503421	208.985	ng/ml
4)	Aroclor 1016 (3)	6.224	809480	203.749	ng/ml
5)	Aroclor 1016 (4)	6.381	633249	177.016	ng/ml
6)	Aroclor 1016 (5)	6.603	781085	188.146	ng/ml
7)	Aroclor 1016 (6)	6.729	644810	219.830	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.165	352683	325.824	ng/ml
10)	Aroclor 1221 (2)	5.284	262348	365.607	ng/ml
11)	Aroclor 1221 (3)	5.366	914140	390.639	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.366	914140	514.669	ng/ml
14)	Aroclor 1232 (2)	6.140	1503421	540.763	ng/ml
15)	Aroclor 1232 (3)	6.224	809480	551.815	ng/ml
16)	Aroclor 1232 (4)	6.381	633249	555.792	ng/ml
17)	Aroclor 1232 (5)	6.603	781085	543.939	ng/ml
18)	Aroclor 1232 (6)	6.729	644810	538.185	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.728	780192	293.744	ng/ml
21)	Aroclor 1242 (2)	6.140	1503421	289.839	ng/ml
22)	Aroclor 1242 (3)	6.224	809480	287.032	ng/ml
23)	Aroclor 1242 (4)	6.381	633249	276.627	ng/ml
24)	Aroclor 1242 (5)	6.603	781085	261.696	ng/ml
25)	Aroclor 1242 (6)	6.729	644810	256.976	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.140	1503421	441.755	ng/ml
28)	Aroclor 1248 (2)	6.381	633249	140.248	ng/ml
29)	Aroclor 1248 (3)	6.603	781085	149.666	ng/ml
30)	Aroclor 1248 (4)	6.897	807432	139.089	ng/ml
31)	Aroclor 1248 (5)	6.934	1110368	180.275	ng/ml
32)	Aroclor 1248 (6)	7.419	2767318	809.769	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.934	1110368	185.119	ng/ml
35)	Aroclor 1254 (2)	7.041	720967	98.931	ng/ml
36)	Aroclor 1254 (3)	7.419	2767318	246.862	ng/ml
37)	Aroclor 1254 (4)	7.579	293242	41.128	ng/ml
38)	Aroclor 1254 (5)	7.959	1932670	252.340	ng/ml
39)	Aroclor 1254 (6)	8.251	135955	54.515	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.531	3315864	398.168	ng/ml
42)	Aroclor 1260 (2)	7.665	3967208	388.851	ng/ml
43)	Aroclor 1260 (3)	8.220	4669824	593.736	ng/ml
44)	Aroclor 1260 (4)	8.391	10490038	563.421	ng/ml
45)	Aroclor 1260 (5)	8.689	6158136	509.106	ng/ml
46)	Aroclor 1260 (6)	9.081	3347737	654.545	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

540.861

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F020.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 22:04
Operator : MJB / KAK
Sample : 9L03052-ICV3
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:47:09 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.665	3967208	493.041	ng/ml
49)	Aroclor 1262 (2)	7.988	5589920	497.985	ng/ml
50)	Aroclor 1262 (3)	8.220	4669824	481.180	ng/ml
51)	Aroclor 1262 (4)	8.391	10490038	507.744	ng/ml
52)	Aroclor 1262 (5)	8.689	6158136	470.720	ng/ml
53)	Aroclor 1262 (6)	9.081	3347737	501.411	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.220	4669824	914.892	ng/ml
56)	Aroclor 1268 (2)	8.638	3952358	161.152	ng/ml
57)	Aroclor 1268 (3)	8.689	6158136	301.660	ng/ml
58)	Aroclor 1268 (4)	8.867	311895	16.284	ng/ml
59)	Aroclor 1268 (5)	9.081	3347737	431.981	ng/ml
60)	Aroclor 1268 (6)	9.340	1087897	20.808	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

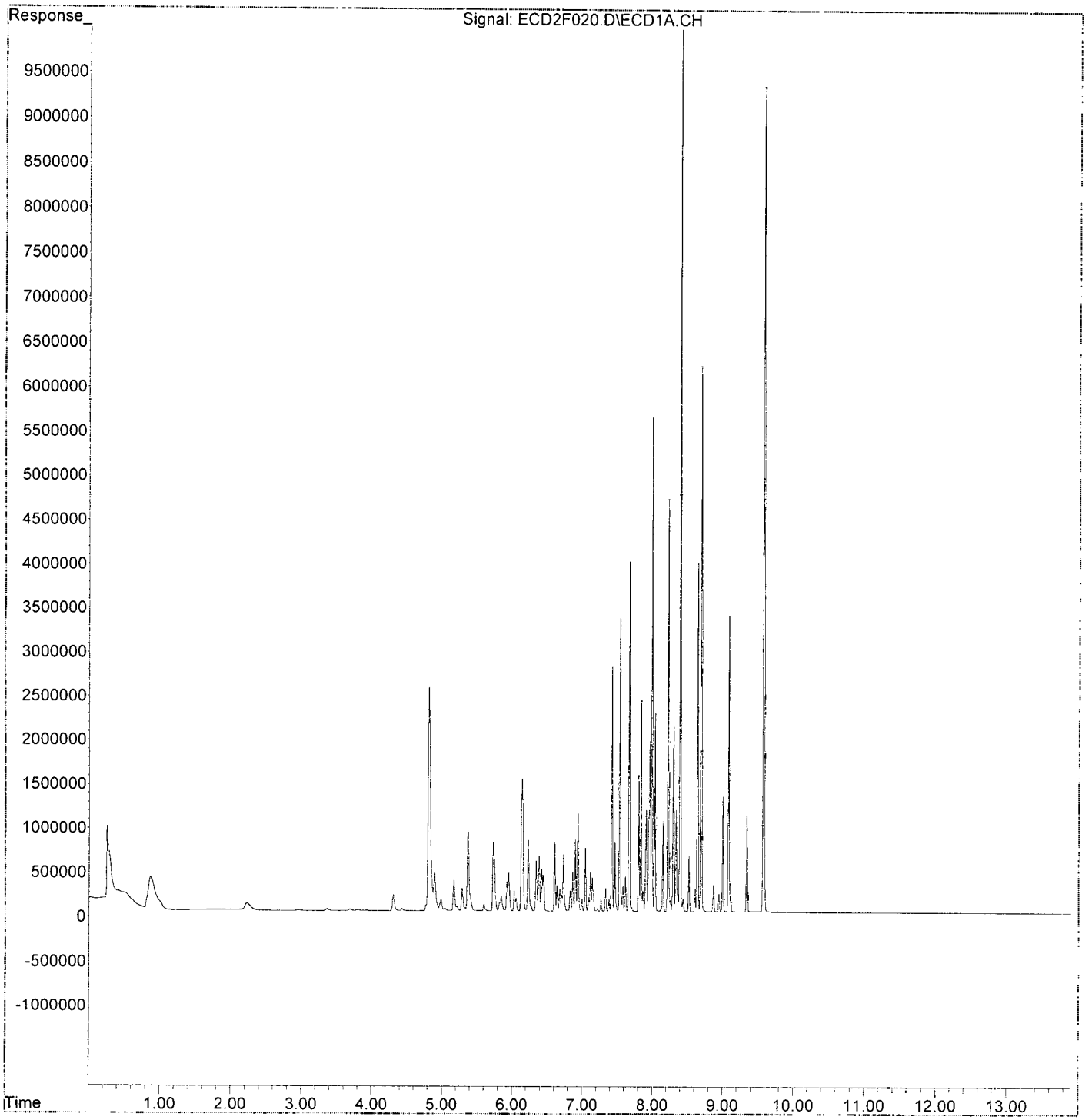
492.014

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F020.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 22:04
Operator : MJB / KAK
Sample : 9L03052-ICV3
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:47:09 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F021.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 22:21
Operator : MJB / KAK
Sample : 9L03052-[illegible]
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:47:22 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/4/19
1242, 1268

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)	S TCMX (S)	4.809	2665860	40.035	ng/ml
62)	S DCBP (S)	9.576	4442909	39.784	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.728	1382752	369.922	ng/ml
3)	Aroclor 1016 (2)	6.141	2750450	382.331	ng/ml
4)	Aroclor 1016 (3)	6.223	1465507	368.873	ng/ml
5)	Aroclor 1016 (4)	6.380	1228739	343.477	ng/ml
6)	Aroclor 1016 (5)	6.603	1520400	366.230	ng/ml
7)	Aroclor 1016 (6)	6.729	1310155	446.660	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.167	142252	131.419	ng/ml
10)	Aroclor 1221 (2)	5.284	157140	218.989	ng/ml
11)	Aroclor 1221 (3)	5.366	700121	299.183	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.366	700121	394.174	ng/ml
14)	Aroclor 1232 (2)	6.141	2750450	989.305	ng/ml
15)	Aroclor 1232 (3)	6.223	1465507	999.022	ng/ml
16)	Aroclor 1232 (4)	6.380	1228739	1078.442	ng/ml
17)	Aroclor 1232 (5)	6.603	1520400	1058.790	ng/ml
18)	Aroclor 1232 (6)	6.729	1310155	1093.508	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.728	1382752	520.609	ng/ml
21)	Aroclor 1242 (2)	6.141	2750450	530.250	ng/ml
22)	Aroclor 1242 (3)	6.223	1465507	519.652	ng/ml
23)	Aroclor 1242 (4)	6.380	1228739	536.759	ng/ml
24)	Aroclor 1242 (5)	6.603	1520400	509.397	ng/ml
25)	Aroclor 1242 (6)	6.729	1310155	522.136	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.141	2750450	808.173	ng/ml
28)	Aroclor 1248 (2)	6.380	1228739	272.133	ng/ml
29)	Aroclor 1248 (3)	6.603	1520400	291.328	ng/ml
30)	Aroclor 1248 (4)	6.896	1550785	267.140	ng/ml
31)	Aroclor 1248 (5)	6.935	1647945	267.554	ng/ml
32)	Aroclor 1248 (6)	7.411	529842	155.042	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.935	1647945	274.744	ng/ml
35)	Aroclor 1254 (2)	7.040	376012	51.596	ng/ml
36)	Aroclor 1254 (3)	7.411	529842	47.265	ng/ml
37)	Aroclor 1254 (4)	7.577	374880	52.578	ng/ml
38)	Aroclor 1254 (5)	7.959	74111	9.676	ng/ml
39)	Aroclor 1254 (6)	8.249	38994	15.636	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.552	195683	23.498	ng/ml
42)	Aroclor 1260 (2)	7.664	79308	7.773	ng/ml
43)	Aroclor 1260 (3)	8.212	2553339	324.639	ng/ml
44)	Aroclor 1260 (4)	8.390	1205764	64.762	ng/ml
45)	Aroclor 1260 (5)	8.685	10212114	844.257	ng/ml
46)	Aroclor 1260 (6)	9.081	3853280	753.388	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

523.13A

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F021.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 22:21
Operator : MJB / KAK
Sample : 9L03052-ICV4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:47:22 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.664	79308	9.856	ng/ml
49)	Aroclor 1262 (2)	7.988	2099746	187.059	ng/ml
50)	Aroclor 1262 (3)	8.212	2553339	263.097	ng/ml
51)	Aroclor 1262 (4)	8.390	1205764	58.362	ng/ml
52)	Aroclor 1262 (5)	8.685	10212114	780.602	ng/ml
53)	Aroclor 1262 (6)	9.081	3853280	577.129	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.212	2553339	500.239	ng/ml
56)	Aroclor 1268 (2)	8.638	11416672	465.499	ng/ml
57)	Aroclor 1268 (3)	8.685	10212114	500.246	ng/ml
58)	Aroclor 1268 (4)	8.868	9250966	482.994	ng/ml
59)	Aroclor 1268 (5)	9.081	3853280	497.214	ng/ml
60)	Aroclor 1268 (6)	9.341	25949592	496.325	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

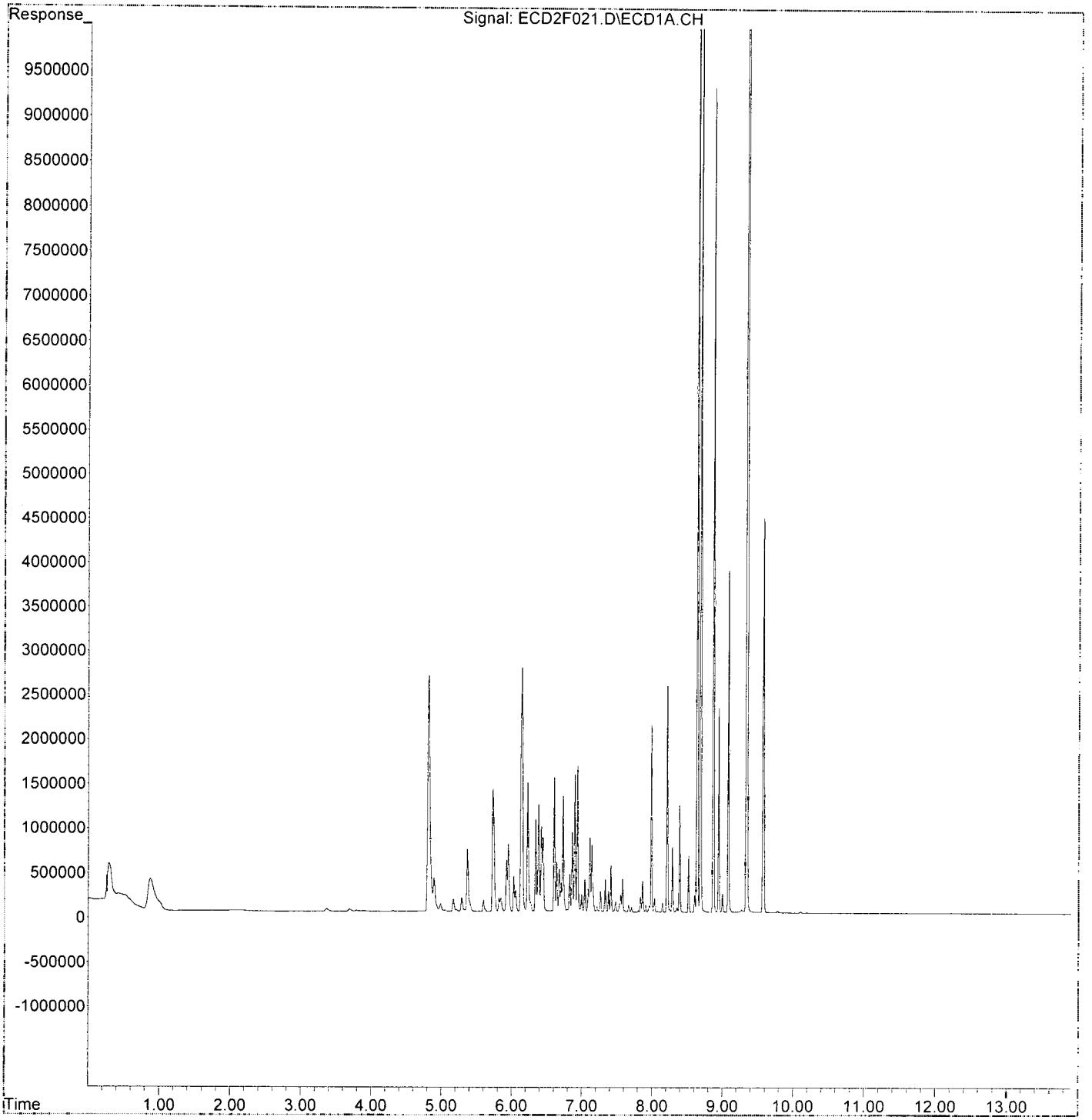
490.420

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F021.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 22:21
Operator : MJB / KAK
Sample : 9L03052-ICV4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:47:22 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F022.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 22:39
Operator : MJB / KAK
Sample : 9L03052-ICV5
Misc : [redacted]
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:47:36 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/4/19
1246

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.807	3885	0.058	ng/ml
62) S	DCBP (S)	9.575	9875	0.088	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.728	773412	206.908	ng/ml
3)	Aroclor 1016 (2)	6.141	1727133	240.083	ng/ml
4)	Aroclor 1016 (3)	6.223	962046	242.150	ng/ml
5)	Aroclor 1016 (4)	6.381	2489269	695.841	ng/ml
6)	Aroclor 1016 (5)	6.603	2879322	693.564	ng/ml
7)	Aroclor 1016 (6)	6.729	2195827	748.604	ng/ml
8)	Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9)	Aroclor 1221 (1)	5.166	16969	15.677	ng/ml
10)	Aroclor 1221 (2)	5.287	19525	27.211	ng/ml
11)	Aroclor 1221 (3)	5.367	88672	37.892	ng/ml
12)	Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13)	Aroclor 1232 (1)	5.367	88672	49.923	ng/ml
14)	Aroclor 1232 (2)	6.141	1727133	621.230	ng/ml
15)	Aroclor 1232 (3)	6.223	962046	655.818	ng/ml
16)	Aroclor 1232 (4)	6.381	2489269	2184.787	ng/ml
17)	Aroclor 1232 (5)	6.603	2879322	2005.127	ng/ml
18)	Aroclor 1232 (6)	6.729	2195827	1832.725	ng/ml
19)	Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20)	Aroclor 1242 (1)	5.728	773412	291.192	ng/ml
21)	Aroclor 1242 (2)	6.141	1727133	332.968	ng/ml
22)	Aroclor 1242 (3)	6.223	962046	341.130	ng/ml
23)	Aroclor 1242 (4)	6.381	2489269	1087.406	ng/ml
24)	Aroclor 1242 (5)	6.603	2879322	964.692	ng/ml
25)	Aroclor 1242 (6)	6.729	2195827	875.103	ng/ml
26)	Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27)	Aroclor 1248 (1)	6.130	1712166	503.091	ng/ml
28)	Aroclor 1248 (2)	6.381	2489269	551.307	ng/ml
29)	Aroclor 1248 (3)	6.603	2879322	551.715	ng/ml
30)	Aroclor 1248 (4)	6.897	3307894	569.822	ng/ml
31)	Aroclor 1248 (5)	6.934	3316675	538.482	ng/ml
32)	Aroclor 1248 (6)	7.411	1869117	546.939	ng/ml
33)	Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34)	Aroclor 1254 (1)	6.934	3316675	552.953	ng/ml
35)	Aroclor 1254 (2)	7.041	1195032	163.982	ng/ml
36)	Aroclor 1254 (3)	7.411	1869117	166.737	ng/ml
37)	Aroclor 1254 (4)	7.578	1323324	185.599	ng/ml
38)	Aroclor 1254 (5)	7.958	294269	38.421	ng/ml
39)	Aroclor 1254 (6)	8.251	119096	47.755	ng/ml
40)	Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41)	Aroclor 1260 (1)	7.535	286492	34.402	ng/ml
42)	Aroclor 1260 (2)	7.663	187599	18.388	ng/ml
43)	Aroclor 1260 (3)	8.220	32805	4.171	ng/ml
44)	Aroclor 1260 (4)	8.391	78085	4.194	ng/ml
45)	Aroclor 1260 (5)	8.690	62566	5.172	ng/ml
46)	Aroclor 1260 (6)	9.080	20052	3.921	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

543.599

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F022.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 22:39
Operator : MJB / KAK
Sample : 9L03052-ICV5
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:47:36 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

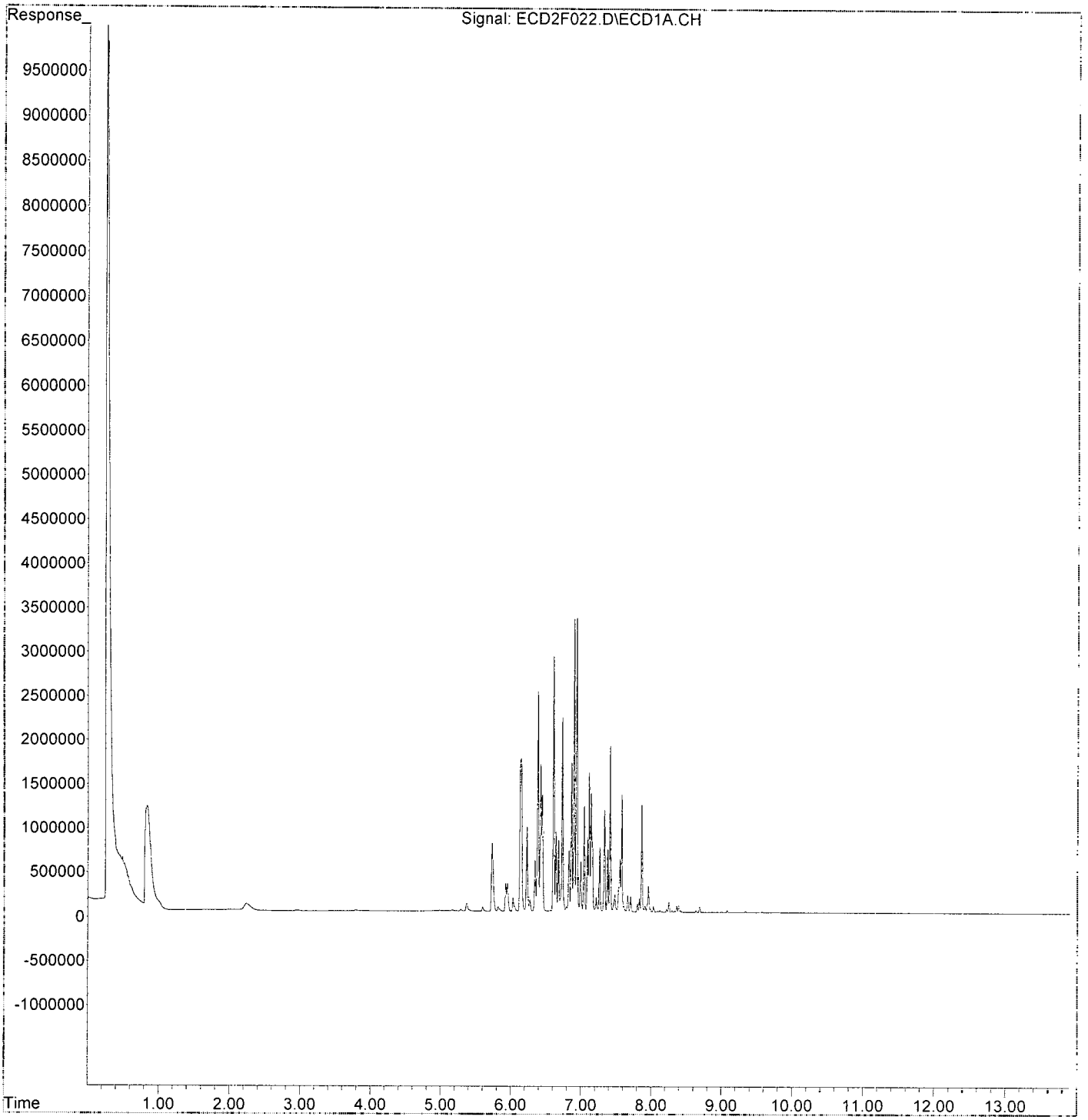
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.663	187599	23.315 ng/ml
49)	Aroclor 1262 (2)	7.988	36173	3.223 ng/ml
50)	Aroclor 1262 (3)	8.220	32805	3.380 ng/ml
51)	Aroclor 1262 (4)	8.391	78085	3.779 ng/ml
52)	Aroclor 1262 (5)	8.690	62566	4.782 ng/ml
53)	Aroclor 1262 (6)	9.080	20052	3.003 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.220	32805	6.427 ng/ml
56)	Aroclor 1268 (2)	8.638	20328	0.829 ng/ml
57)	Aroclor 1268 (3)	8.690	62566	3.065 ng/ml
58)	Aroclor 1268 (4)	8.865	4340	0.227 ng/ml
59)	Aroclor 1268 (5)	9.080	20052	2.587 ng/ml
60)	Aroclor 1268 (6)	9.340	13546	0.259 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 : K:\DATA\9L03052\
Data File : ECD2F022.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 22:39
Operator : MJB / KAK
Sample : 9L03052-ICV5
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:47:36 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:04
Operator : MJB / KAK
Sample : 9L03052-CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:32:40 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.810	607866	9.129	ng/ml
62) S	DCBP (S)	9.578	1085395	9.719	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.730	89904	24.052	ng/ml
3)	Aroclor 1016 (2)	6.144	161114	22.396	ng/ml
4)	Aroclor 1016 (3)	6.226	94866	23.878	ng/ml
5)	Aroclor 1016 (4)	6.382	87352	24.418	ng/ml
6)	Aroclor 1016 (5)	6.604	97448	23.473	ng/ml
7)	Aroclor 1016 (6)	6.731	68287	23.280	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)	7.532	186119	22.349	ng/ml
42)	Aroclor 1260 (2)	7.665	225314	22.084	ng/ml
43)	Aroclor 1260 (3)	8.222	178776	22.730	ng/ml
44)	Aroclor 1260 (4)	8.392	374030	20.089	ng/ml
45)	Aroclor 1260 (5)	8.690	254106	21.007	ng/ml
46)	Aroclor 1260 (6)	9.082	115322	22.548	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:04
Operator : MJB / KAK
Sample : 9L03052-CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:32:40 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

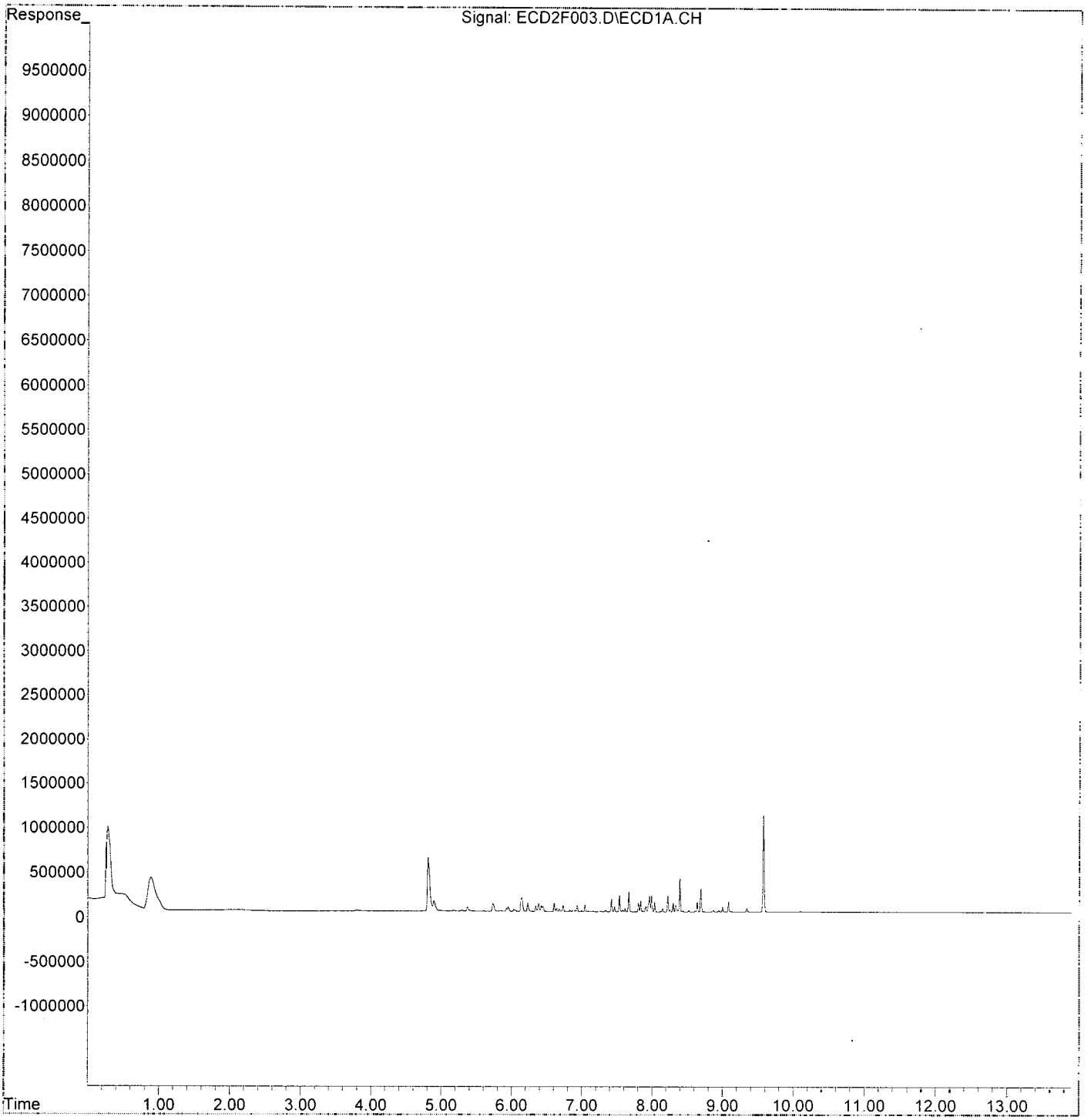
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\requant\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:04
Operator : MJB / KAK
Sample : 9L03052-CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:32:40 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:22
Operator : MJB / KAK
Sample : 9L03052-CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:32:58 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
1)	S	TCMX (S)	4.809	1520231	22.830	ng/ml
62)	S	DCBP (S)	9.576	2699632	24.174	ng/ml
		Target Compounds				
2)		Aroclor 1016 (1)	5.729	193429	51.747	ng/ml
3)		Aroclor 1016 (2)	6.143	352080	48.941	ng/ml
4)		Aroclor 1016 (3)	6.225	199490	50.212	ng/ml
5)		Aroclor 1016 (4)	6.381	190893	53.362	ng/ml
6)		Aroclor 1016 (5)	6.604	220902	53.210	ng/ml
7)		Aroclor 1016 (6)	6.731	153783	52.428	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)	7.531	418936	50.306	ng/ml
42)		Aroclor 1260 (2)	7.665	506688	49.664	ng/ml
43)		Aroclor 1260 (3)	8.221	402124	51.127	ng/ml
44)		Aroclor 1260 (4)	8.390	944538	50.731	ng/ml
45)		Aroclor 1260 (5)	8.690	615297	50.868	ng/ml
46)		Aroclor 1260 (6)	9.081	258919	50.623	ng/ml
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:22
Operator : MJB / KAK
Sample : 9L03052-CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:32:58 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

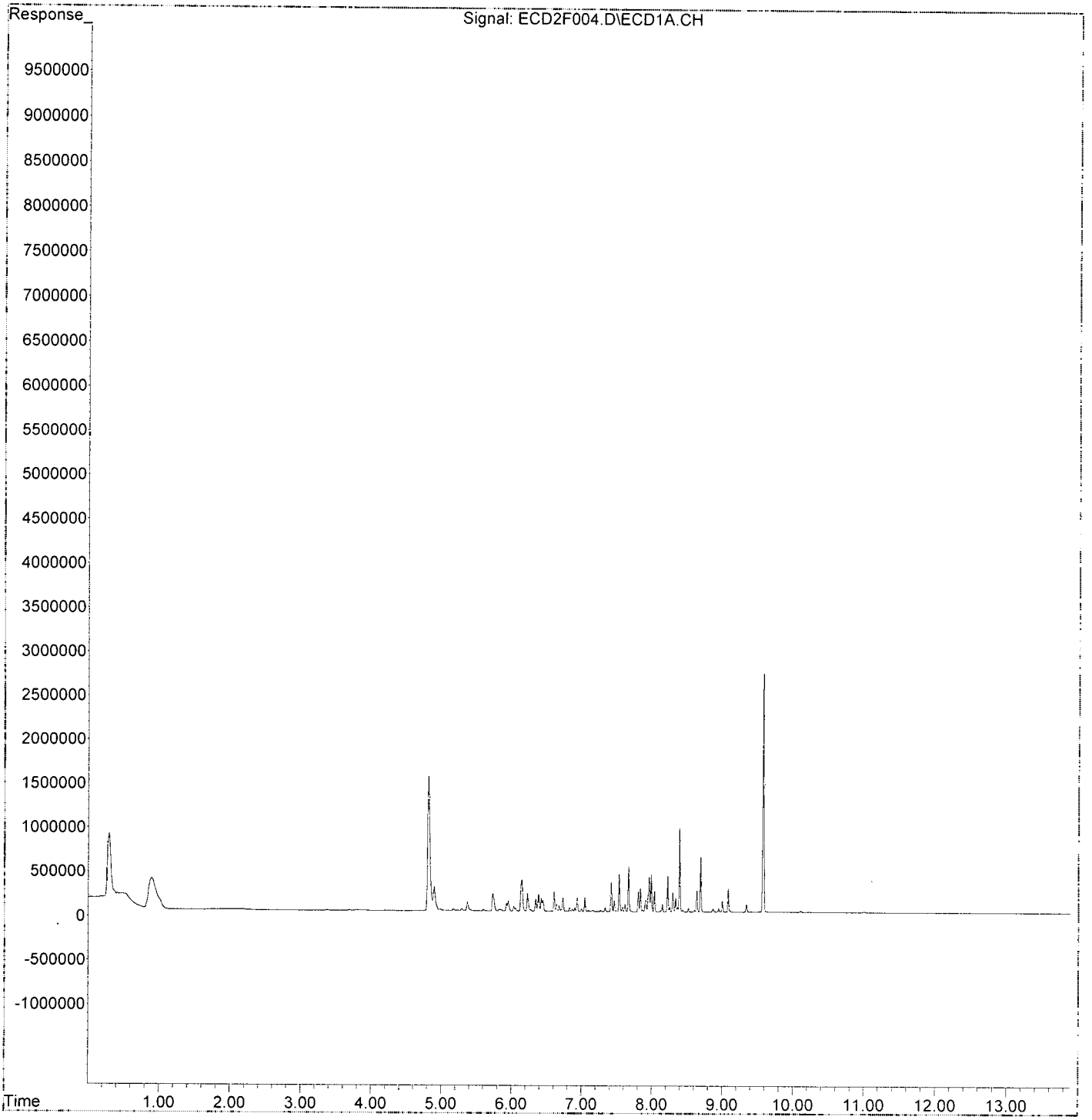
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\requant\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:22
Operator : MJB / KAK
Sample : 9L03052-CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:32:58 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:40
Operator : MJB / KAK
Sample : 9L03052-CAL3
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:33:14 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
1)	S	TCMX (S)	4.809	3122586	46.894	ng/ml	✓
62)	S	DCBP (S)	9.577	5688932	50.942	ng/ml	✓
		Target Compounds					
2)		Aroclor 1016 (1)	5.729	374224	100.115	ng/ml	
3)		Aroclor 1016 (2)	6.143	710924	98.823	ng/ml	
4)		Aroclor 1016 (3)	6.225	390273	98.233	ng/ml	✓
5)		Aroclor 1016 (4)	6.381	356425	99.634	ng/ml	
6)		Aroclor 1016 (5)	6.604	404011	97.317	ng/ml	
7)		Aroclor 1016 (6)	6.730	290789	99.136	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)	7.531	842440	101.160	ng/ml	
42)		Aroclor 1260 (2)	7.665	1012879	99.279	ng/ml	
43)		Aroclor 1260 (3)	8.221	802199	101.994	ng/ml	
44)		Aroclor 1260 (4)	8.391	1832880	98.444	ng/ml	✓
45)		Aroclor 1260 (5)	8.689	1221637	100.995	ng/ml	
46)		Aroclor 1260 (6)	9.082	511487	100.005	ng/ml	
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:40
Operator : MJB / KAK
Sample : 9L03052-CAL3
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:33:14 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

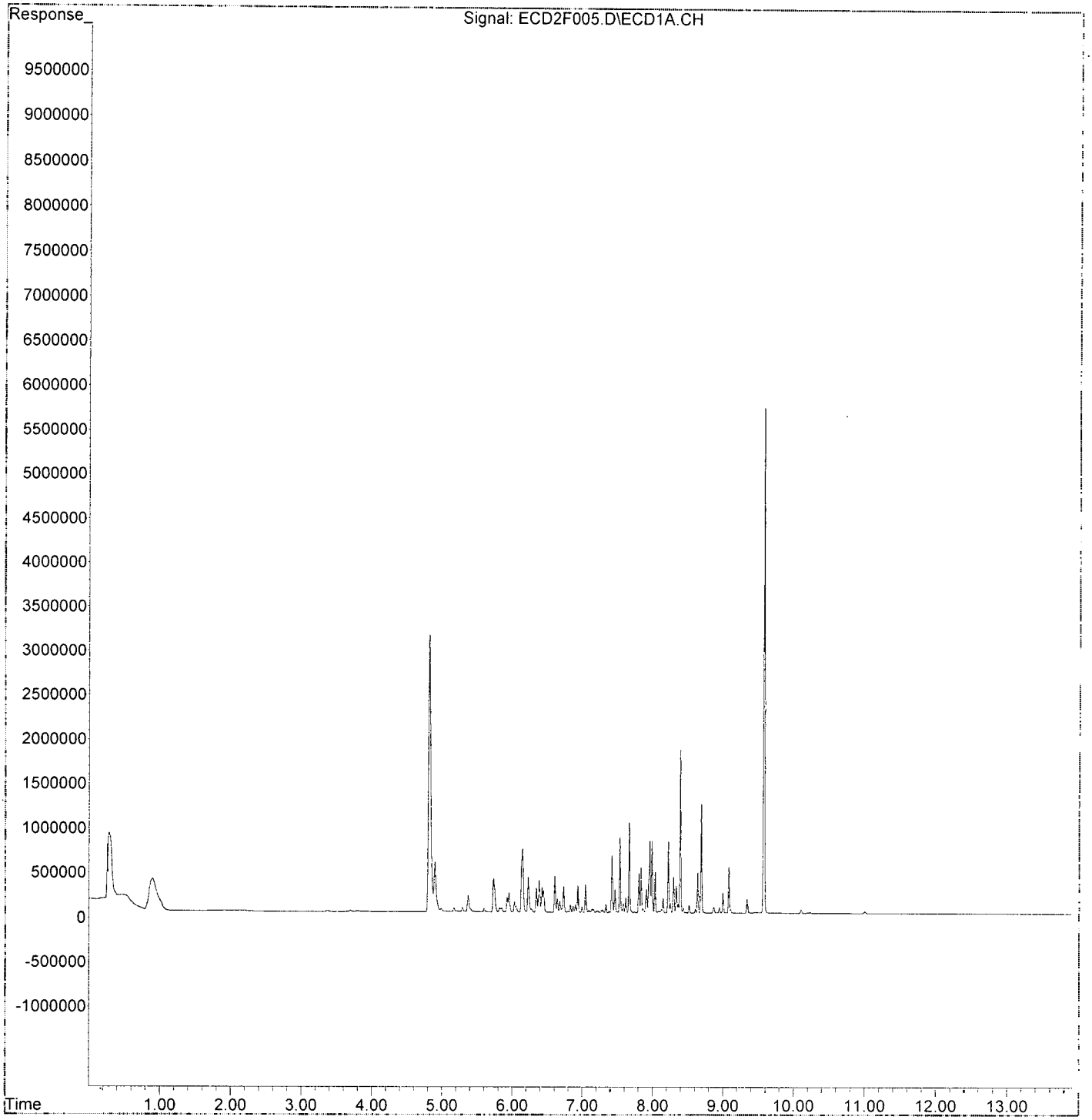
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\requant\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:40
Operator : MJB / KAK
Sample : 9L03052-CAL3
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:33:14 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:57
Operator : MJB / KAK
Sample : 9L03052-CAL4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:33:28 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
1)	S	TCMX (S)	4.811	6242821	93.753	ng/ml	✓
62)	S	DCBP (S)	9.576	10577859	94.720	ng/ml	✓
		Target Compounds					
2)		Aroclor 1016 (1)	5.729	703735	188.267	ng/ml	
3)		Aroclor 1016 (2)	6.143	1325963	184.317	ng/ml	
4)		Aroclor 1016 (3)	6.224	743377	187.111	ng/ml	✓
5)		Aroclor 1016 (4)	6.381	650662	181.884	ng/ml	
6)		Aroclor 1016 (5)	6.604	767420	184.854	ng/ml	
7)		Aroclor 1016 (6)	6.729	543631	185.335	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)	7.531	1580165	189.746	ng/ml	
42)		Aroclor 1260 (2)	7.665	1922759	188.462	ng/ml	
43)		Aroclor 1260 (3)	8.220	1455817	185.097	ng/ml	
44)		Aroclor 1260 (4)	8.391	3616251	194.229	ng/ml	✓
45)		Aroclor 1260 (5)	8.690	2271341	187.777	ng/ml	
46)		Aroclor 1260 (6)	9.080	929790	181.791	ng/ml	
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

12/14/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:57
Operator : MJB / KAK
Sample : 9L03052-CAL4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:33:28 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

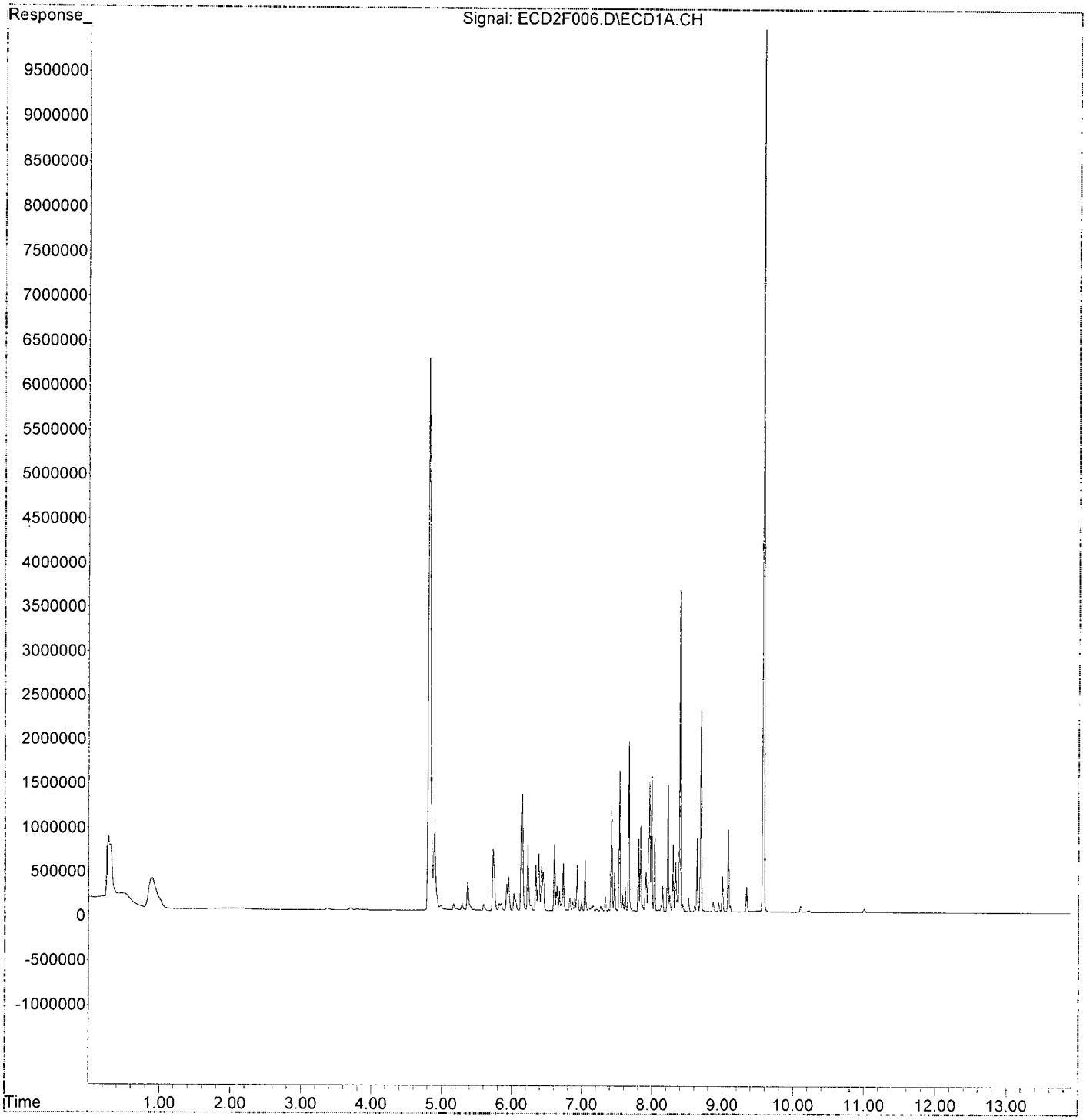
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\requant\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:57
Operator : MJB / KAK
Sample : 9L03052-CAL4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:33:28 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F007.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:15
Operator : MJB / KAK
Sample : 9L03052-CAL5
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:33:46 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.811	19144959	287.515	ng/ml
62) S	DCBP (S)	9.578	31083383	278.338	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.729	1871482	500.670	ng/ml
3)	Aroclor 1016 (2)	6.143	3859736	536.529	ng/ml
4)	Aroclor 1016 (3)	6.225	2022155	508.984	ng/ml
5)	Aroclor 1016 (4)	6.382	1820005	508.757	ng/ml
6)	Aroclor 1016 (5)	6.604	2192154	528.041	ng/ml
7)	Aroclor 1016 (6)	6.730	1484483	506.092	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)	7.532	4423699	531.197	ng/ml
42)	Aroclor 1260 (2)	7.665	5325133	521.949	ng/ml
43)	Aroclor 1260 (3)	8.221	3997829	508.296	ng/ml
44)	Aroclor 1260 (4)	8.391	10089251	541.895	ng/ml
45)	Aroclor 1260 (5)	8.690	6288943	519.920	ng/ml
46)	Aroclor 1260 (6)	9.082	2699039	527.712	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F007.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:15
Operator : MJB / KAK
Sample : 9L03052-CAL5
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:33:46 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

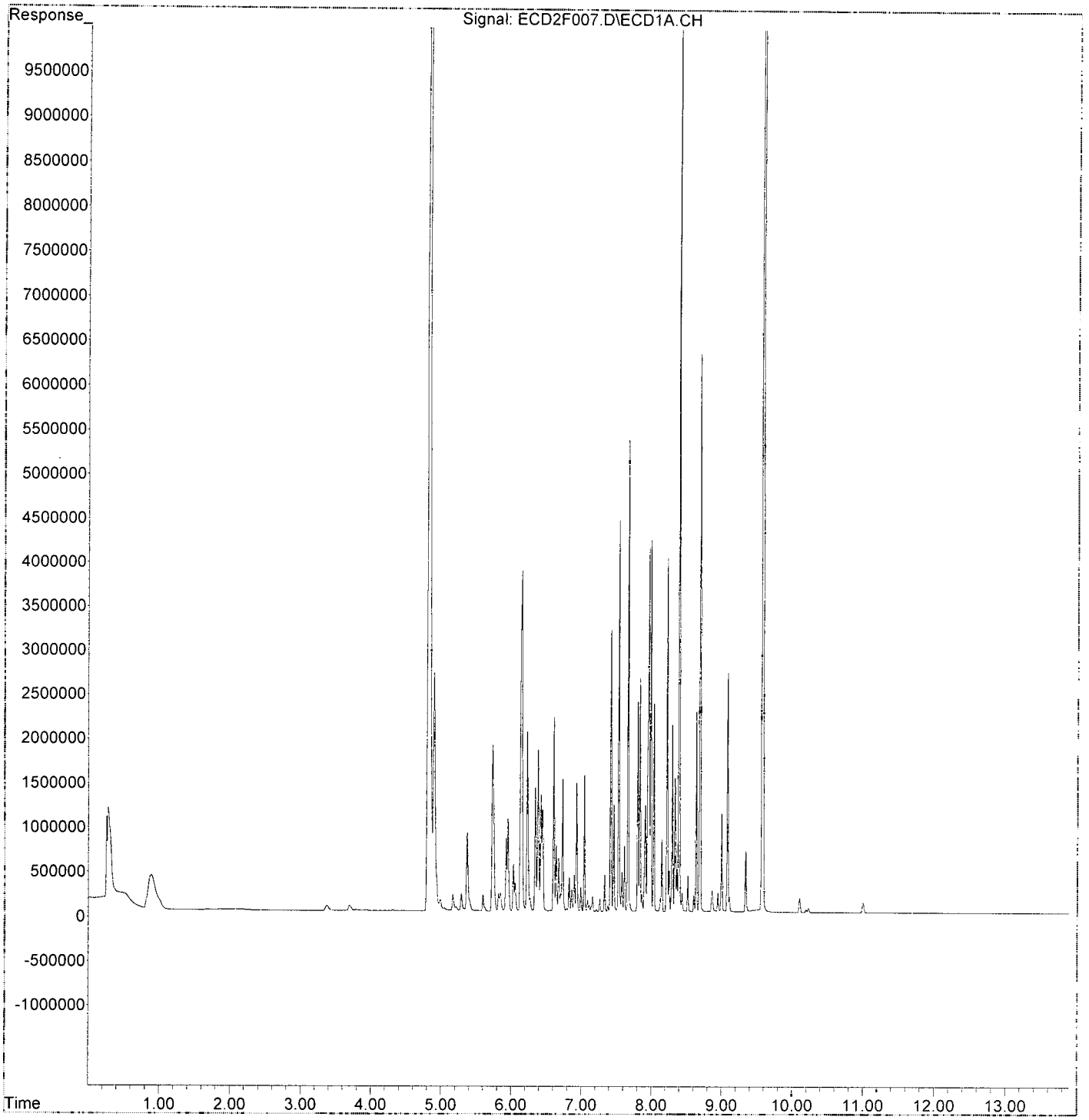
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\requant\
Data File : ECD2F007.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:15
Operator : MJB / KAK
Sample : 9L03052-CAL5
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:33:46 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:32
Operator : MJB / KAK
Sample : 9L03052-CAL6
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:34:01 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.810	33608191	504.720	ng/ml
62) S	DCBP (S)	9.578	54903816	491.639	ng/ml ✓
	Target Compounds				
2)	Aroclor 1016 (1)	5.729	3364096	899.982	ng/ml
3)	Aroclor 1016 (2)	6.142	6834377	950.023	ng/ml
4)	Aroclor 1016 (3)	6.225	3751237	944.200	ng/ml ✓
5)	Aroclor 1016 (4)	6.382	3257104	910.478	ng/ml
6)	Aroclor 1016 (5)	6.604	3740486	900.999	ng/ml
7)	Aroclor 1016 (6)	6.730	2774363	945.839	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)	7.532	7808345	937.625	ng/ml
42)	Aroclor 1260 (2)	7.665	9589273	939.904	ng/ml
43)	Aroclor 1260 (3)	8.221	7355010	935.138	ng/ml ✓
44)	Aroclor 1260 (4)	8.391	17708495	951.125	ng/ml
45)	Aroclor 1260 (5)	8.690	11580150	957.356	ng/ml
46)	Aroclor 1260 (6)	9.081	4725786	923.979	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:32
Operator : MJB / KAK
Sample : 9L03052-CAL6
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:34:01 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

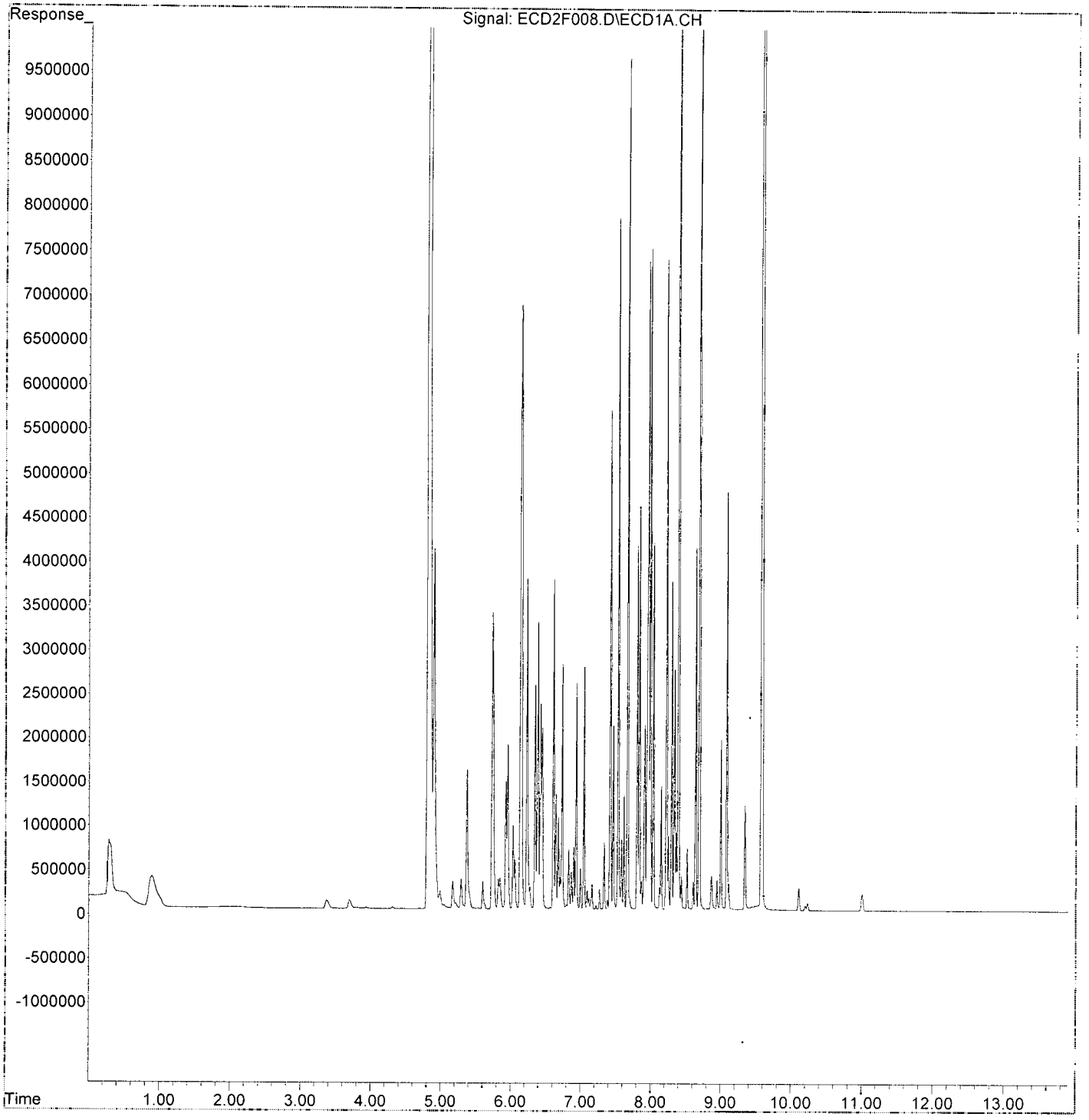
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\requant\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:32
Operator : MJB / KAK
Sample : 9L03052-CAL6
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:34:01 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:50
Operator : MJB / KAK
Sample : 9L03052-CAL7
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:34:15 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
1)	S	TCMX (S)	4.809	60673888	911.187	ng/ml	✓
62)	S	DCBP (S)	9.580	89202319	798.766	ng/ml	✓
		Target Compounds					
2)		Aroclor 1016 (1)	5.729	5150886	1377.995	ng/ml	
3)		Aroclor 1016 (2)	6.142	10450716	1452.718	ng/ml	
4)		Aroclor 1016 (3)	6.224	5493308	1382.686	ng/ml	
5)		Aroclor 1016 (4)	6.382	4711985	1317.170	ng/ml	✓
6)		Aroclor 1016 (5)	6.604	5651954	1361.429	ng/ml	
7)		Aroclor 1016 (6)	6.730	4009865	1367.048	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)	7.532	11443339	1374.115	ng/ml	
42)		Aroclor 1260 (2)	7.665	15052739	1475.412	ng/ml	
43)		Aroclor 1260 (3)	8.221	11134634	1415.691	ng/ml	✓
44)		Aroclor 1260 (4)	8.392	27659948	1485.619	ng/ml	
45)		Aroclor 1260 (5)	8.691	17894220	1479.353	ng/ml	
46)		Aroclor 1260 (6)	9.082	7455071	1457.605	ng/ml	
47)		Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml	

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:50
Operator : MJB / KAK
Sample : 9L03052-CAL7
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:34:15 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

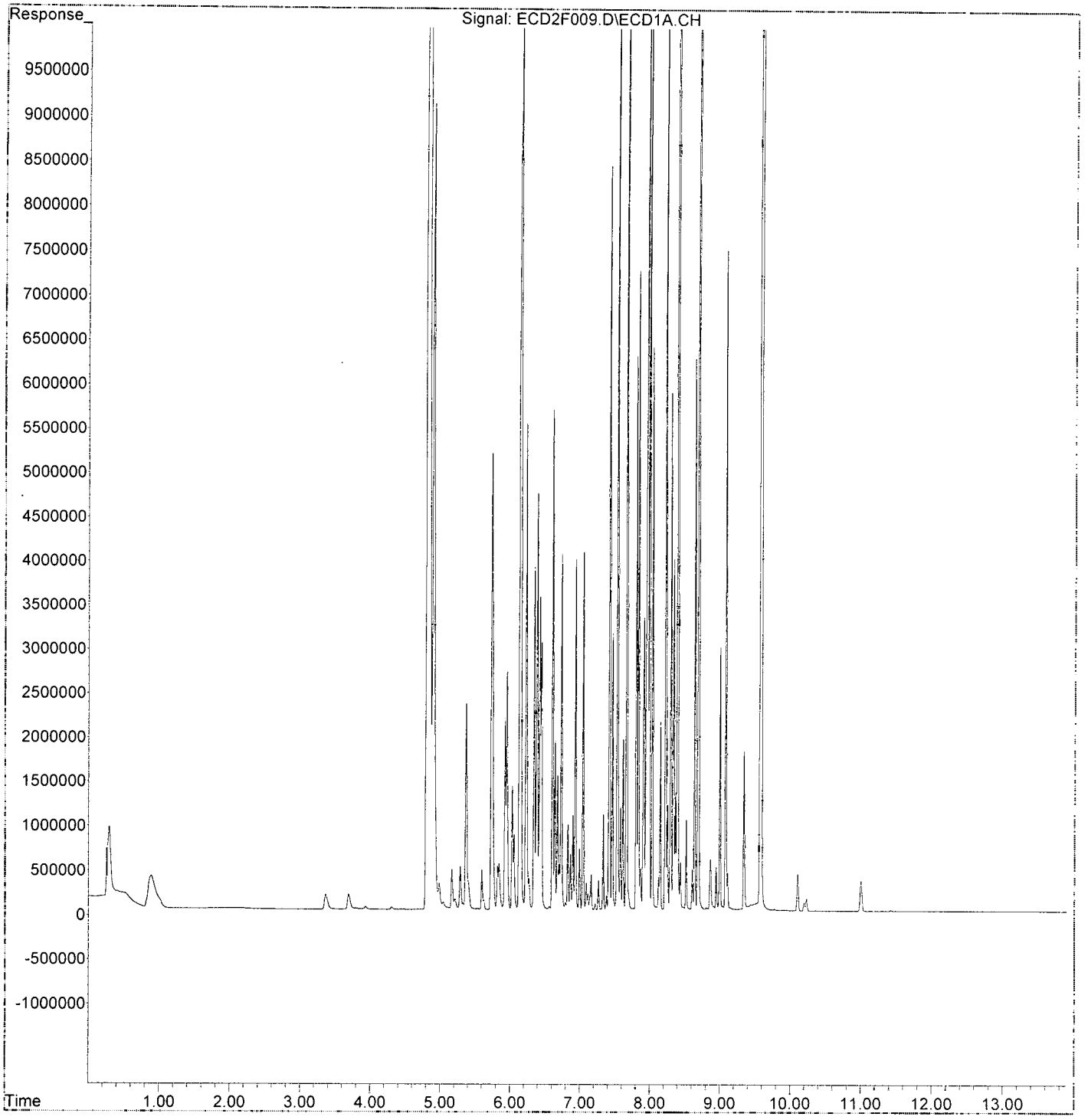
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\requant\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:50
Operator : MJB / KAK
Sample : 9L03052-CAL7
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:34:15 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:29:22 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Sequence: C:\HPCHEM\2\SEQUENCE\9L03052.S

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	Hexane	E2A21015	1	Sample		
2	Vial 2	9L03052-ICB1	E2A21015	1	Sample		
3	Vial 3	9L03052-CAL1	E2A21015	1	Sample		
4	Vial 4	9L03052-CAL2	E2A21015	1	Sample		
5	Vial 5	9L03052-CAL3	E2A21015	1	Sample		
6	Vial 6	9L03052-CAL4	E2A21015	1	Sample		
7	Vial 7	9L03052-CAL5	E2A21015	1	Sample		
8	Vial 8	9L03052-CAL6	E2A21015	1	Sample		
9	Vial 9	9L03052-CAL7	E2A21015	1	Sample		
10	Vial 1	9L03052-IBL1	E2A21015	1	Sample		
11	Vial 10	9L03052-ICV1	E2A21015	1	Sample		
12	Vial 11	9L03052-CAL8	E2A21015	1	Sample		
13	Vial 12	9L03052-CAL9	E2A21015	1	Sample		
14	Vial 13	9L03052-CALA	E2A21015	1	Sample		
15	Vial 14	9L03052-CALB	E2A21015	1	Sample		
16	Vial 15	9L03052-CALC	E2A21015	1	Sample		
17	Vial 16	9L03052-CALD	E2A21015	1	Sample		
18	Vial 17	9L03052-CALE	E2A21015	1	Sample		
19	Vial 18	9L03052-ICV2	E2A21015	1	Sample		
20	Vial 19	9L03052-ICV3	E2A21015	1	Sample		
21	Vial 20	9L03052-ICV4	E2A21015	1	Sample		
22	Vial 21	9L03052-ICV5	E2A21015	1	Sample		

12/14/19

Sequence Table (Back Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 51	Hexane	E2A21015	1	Sample		
2	Vial 51	Hexane	E2A21015	1	Sample		
3	Vial 51	Hexane	E2A21015	1	Sample		
4	Vial 51	Hexane	E2A21015	1	Sample		
5	Vial 51	Hexane	E2A21015	1	Sample		
6	Vial 51	Hexane	E2A21015	1	Sample		
7	Vial 51	Hexane	E2A21015	1	Sample		
8	Vial 51	Hexane	E2A21015	1	Sample		
9	Vial 51	Hexane	E2A21015	1	Sample		
10	Vial 51	Hexane	E2A21015	1	Sample		
11	Vial 51	Hexane	E2A21015	1	Sample		
12	Vial 51	Hexane	E2A21015	1	Sample		
13	Vial 51	Hexane	E2A21015	1	Sample		
14	Vial 51	Hexane	E2A21015	1	Sample		
15	Vial 51	Hexane	E2A21015	1	Sample		
16	Vial 51	Hexane	E2A21015	1	Sample		
17	Vial 51	Hexane	E2A21015	1	Sample		
18	Vial 51	Hexane	E2A21015	1	Sample		
19	Vial 51	Hexane	E2A21015	1	Sample		
20	Vial 51	Hexane	E2A21015	1	Sample		
21	Vial 51	Hexane	E2A21015	1	Sample		
22	Vial 51	Hexane	E2A21015	1	Sample		

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:04
Operator : MJB / KAK
Sample : 9L03052-CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:49:16 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.810	607866	10.347	ng/ml
62) S	DCBP (S)	9.578	1085395	12.026	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.730	89904	27.283	ng/ml
3)	Aroclor 1016 (2)	6.144	161114	24.967	ng/ml
4)	Aroclor 1016 (3)	6.226	94866	26.936	ng/ml
5)	Aroclor 1016 (4)	6.382	87352	28.487	ng/ml
6)	Aroclor 1016 (5)	6.604	97448	26.883	ng/ml
7)	Aroclor 1016 (6)	6.731	68287	26.990	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)	7.532	186119	26.585	ng/ml
42)	Aroclor 1260 (2)	7.665	225314	25.315	ng/ml
43)	Aroclor 1260 (3)	8.222	178776	26.838	ng/ml
44)	Aroclor 1260 (4)	8.392	374030	23.669	ng/ml
45)	Aroclor 1260 (5)	8.690	254106	24.637	ng/ml
46)	Aroclor 1260 (6)	9.082	115322	26.770	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:04
Operator : MJB / KAK
Sample : 9L03052-CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:49:16 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

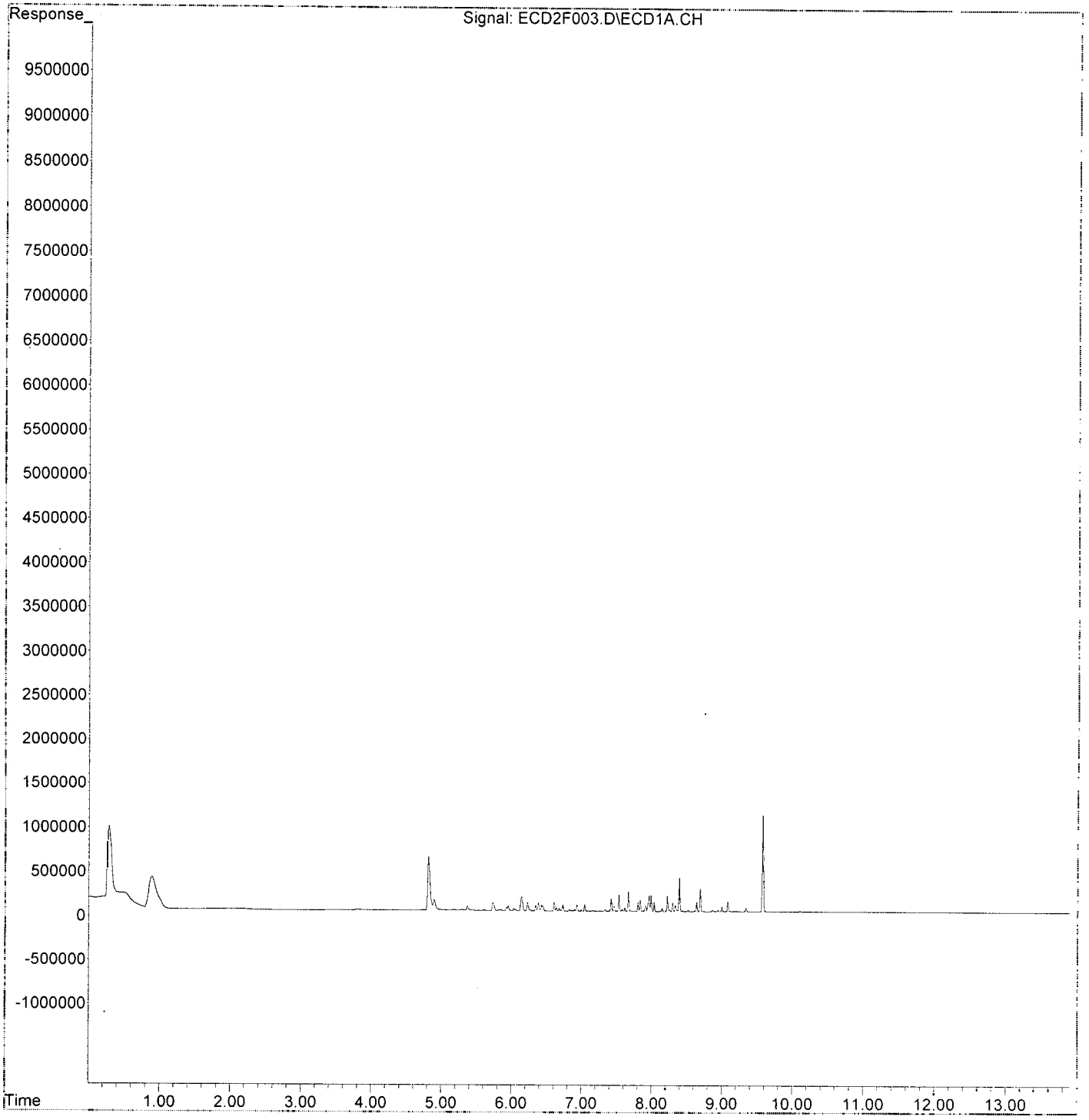
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\
Data File : ECD2F003.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:04
Operator : MJB / KAK
Sample : 9L03052-CAL1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:49:16 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:22
Operator : MJB / KAK
Sample : 9L03052-CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:50:40 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.809	1520231	25.877	ng/ml
62) S	DCBP (S)	9.576	2699632	29.910	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.729	193429	58.698	ng/ml
3)	Aroclor 1016 (2)	6.143	352080	54.560	ng/ml
4)	Aroclor 1016 (3)	6.225	199490	56.642	ng/ml
5)	Aroclor 1016 (4)	6.381	190893	62.253	ng/ml
6)	Aroclor 1016 (5)	6.604	220902	60.940	ng/ml
7)	Aroclor 1016 (6)	6.731	153783	60.783	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)	7.531	418936	59.840	ng/ml
42)	Aroclor 1260 (2)	7.665	506688	56.927	ng/ml
43)	Aroclor 1260 (3)	8.221	402124	60.368	ng/ml
44)	Aroclor 1260 (4)	8.390	944538	59.772	ng/ml
45)	Aroclor 1260 (5)	8.690	615297	59.656	ng/ml
46)	Aroclor 1260 (6)	9.081	258919	60.104	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:22
Operator : MJB / KAK
Sample : 9L03052-CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:50:40 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

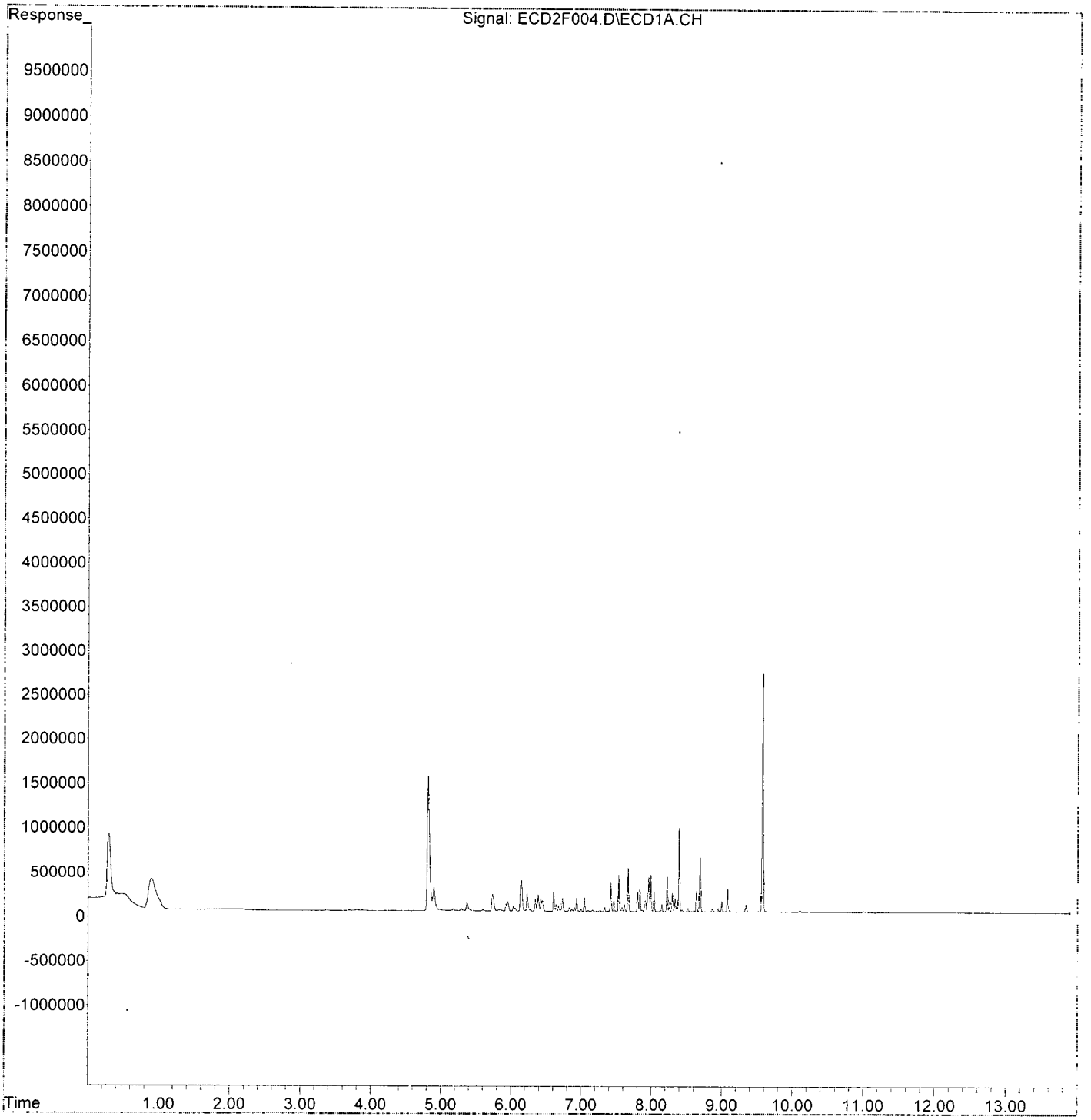
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\
Data File : ECD2F004.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:22
Operator : MJB / KAK
Sample : 9L03052-CAL2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:50:40 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:40
Operator : MJB / KAK
Sample : 9L03052-CAL3
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:51:56 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.809	3122586	53.152	ng/ml
62) S	DCBP (S)	9.577	5688932	63.030	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.729	374224	113.563	ng/ml
3)	Aroclor 1016 (2)	6.143	710924	110.169	ng/ml
4)	Aroclor 1016 (3)	6.225	390273	110.812	ng/ml
5)	Aroclor 1016 (4)	6.381	356425	116.236	ng/ml
6)	Aroclor 1016 (5)	6.604	404011	111.455	ng/ml
7)	Aroclor 1016 (6)	6.730	290789	114.935	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)	7.531	842440	120.332	ng/ml
42)	Aroclor 1260 (2)	7.665	1012879	113.799	ng/ml
43)	Aroclor 1260 (3)	8.221	802199	120.429	ng/ml
44)	Aroclor 1260 (4)	8.391	1832880	115.988	ng/ml
45)	Aroclor 1260 (5)	8.689	1221637	118.443	ng/ml
46)	Aroclor 1260 (6)	9.082	511487	118.733	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:40
Operator : MJB / KAK
Sample : 9L03052-CAL3
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:51:56 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

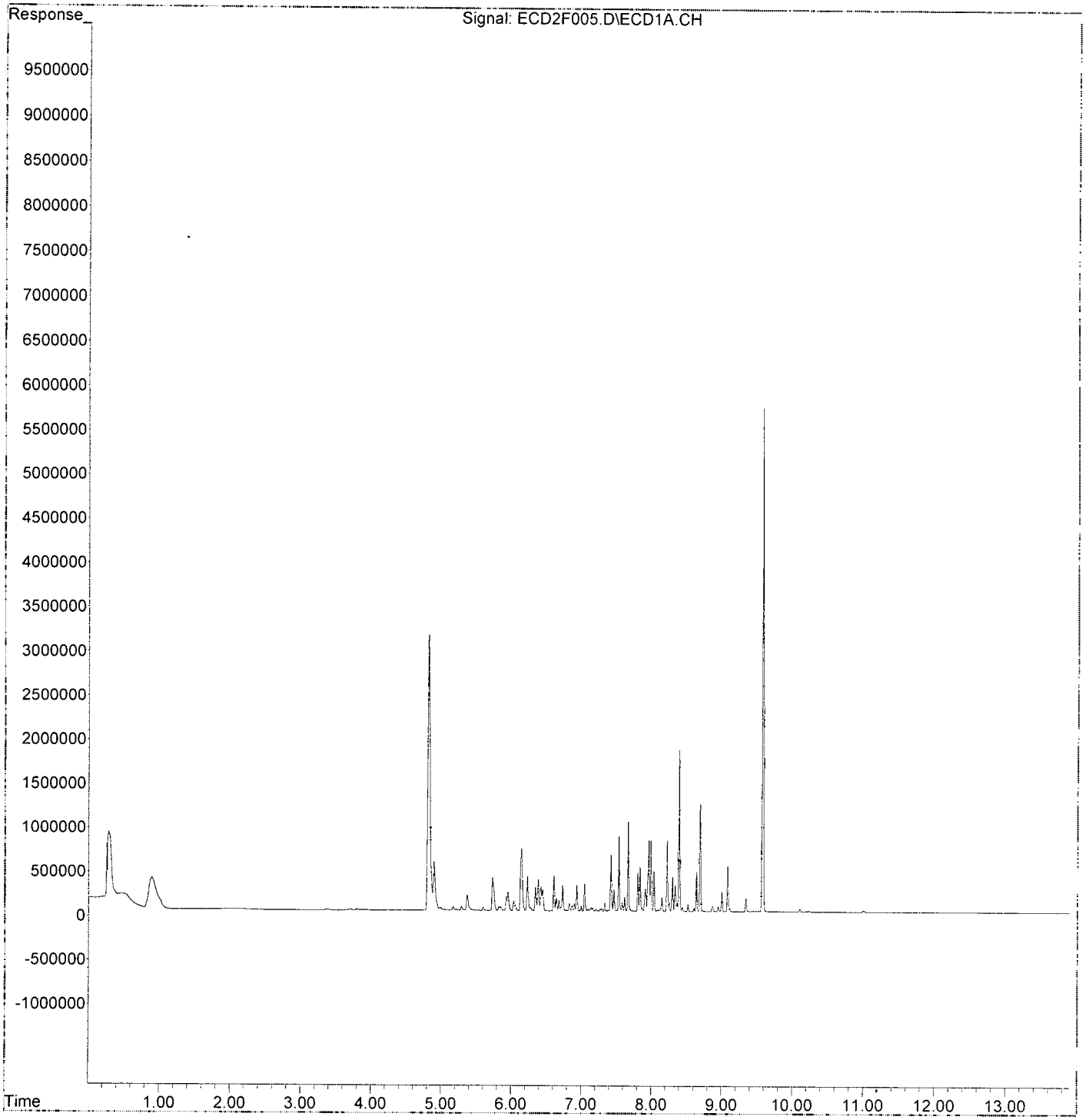
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\
Data File : ECD2F005.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:40
Operator : MJB / KAK
Sample : 9L03052-CAL3
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:51:56 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:57
Operator : MJB / KAK
Sample : 9L03052-CAL4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:53:08 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.811	6242821	106.264	ng/ml
62) S	DCBP (S)	9.576	10577859	117.197	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.729	703735	213.556	ng/ml
3)	Aroclor 1016 (2)	6.143	1325963	205.479	ng/ml
4)	Aroclor 1016 (3)	6.224	743377	211.070	ng/ml
5)	Aroclor 1016 (4)	6.381	650662	212.191	ng/ml
6)	Aroclor 1016 (5)	6.604	767420	211.709	ng/ml
7)	Aroclor 1016 (6)	6.729	543631	214.871	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)	7.531	1580165	225.708	ng/ml
42)	Aroclor 1260 (2)	7.665	1922759	216.026	ng/ml
43)	Aroclor 1260 (3)	8.220	1455817	218.552	ng/ml
44)	Aroclor 1260 (4)	8.391	3616251	228.843	ng/ml
45)	Aroclor 1260 (5)	8.690	2271341	220.217	ng/ml
46)	Aroclor 1260 (6)	9.080	929790	215.835	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:57
Operator : MJB / KAK
Sample : 9L03052-CAL4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:53:08 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

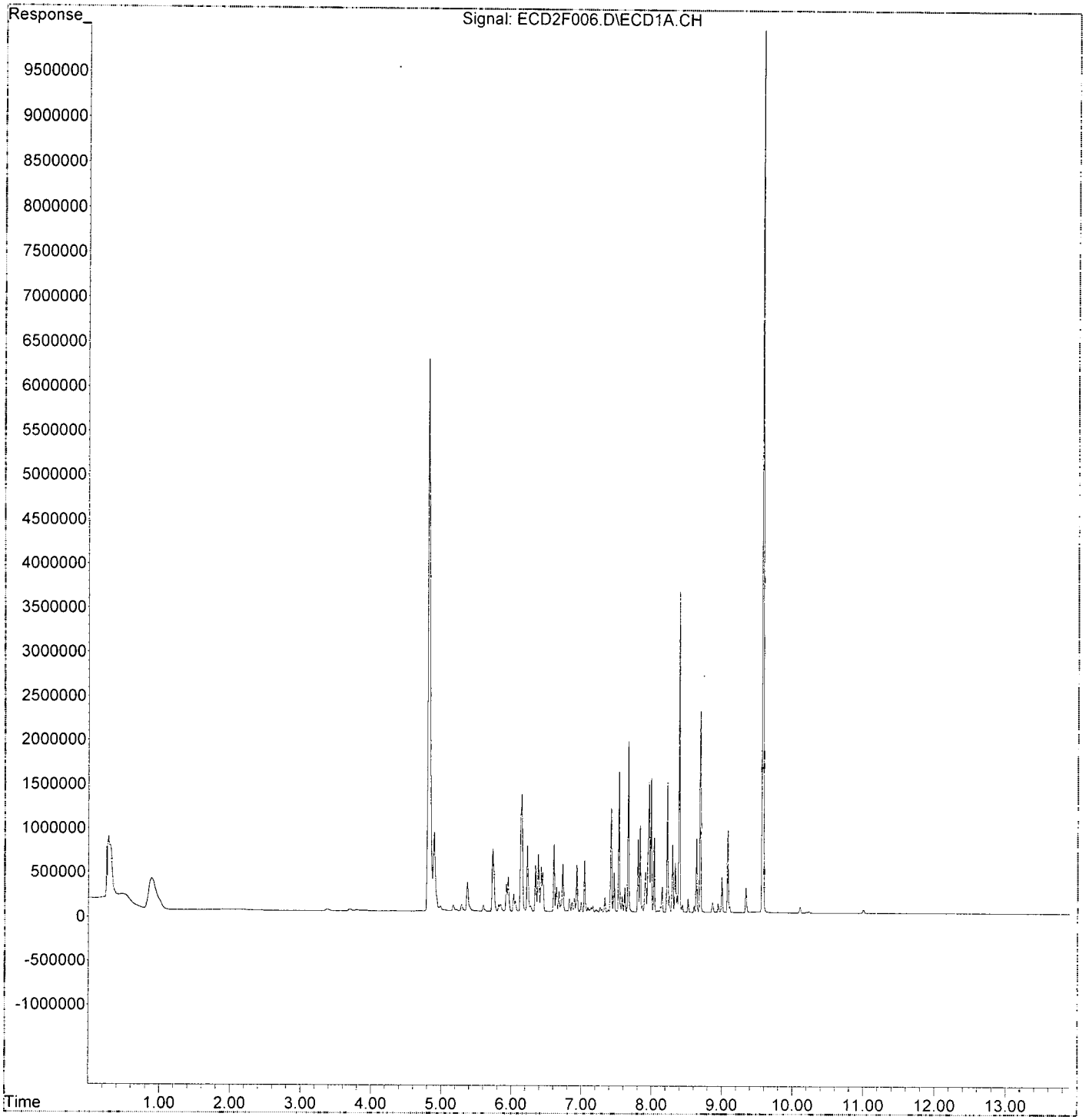
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\
Data File : ECD2F006.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 17:57
Operator : MJB / KAK
Sample : 9L03052-CAL4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:53:08 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F007.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:15
Operator : MJB / KAK
Sample : 9L03052-CAL5
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:47:08 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.811	19144959	325.882	ng/ml
62) S	DCBP (S)	9.578	31083383	344.386	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.729	1871482	567.923	ng/ml
3)	Aroclor 1016 (2)	6.143	3859736	598.126	ng/ml
4)	Aroclor 1016 (3)	6.225	2022155	574.160	ng/ml
5)	Aroclor 1016 (4)	6.382	1820005	593.533	ng/ml
6)	Aroclor 1016 (5)	6.604	2192154	604.752	ng/ml
7)	Aroclor 1016 (6)	6.730	1484483	586.744	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)	7.532	4423699	631.872	ng/ml
42)	Aroclor 1260 (2)	7.665	5325133	598.200	ng/ml
43)	Aroclor 1260 (3)	8.221	3997829	600.167	ng/ml
44)	Aroclor 1260 (4)	8.391	10089251	638.466	ng/ml
45)	Aroclor 1260 (5)	8.690	6288943	609.741	ng/ml
46)	Aroclor 1260 (6)	9.082	2699039	626.537	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F007.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:15
Operator : MJB / KAK
Sample : 9L03052-CAL5
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:47:08 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

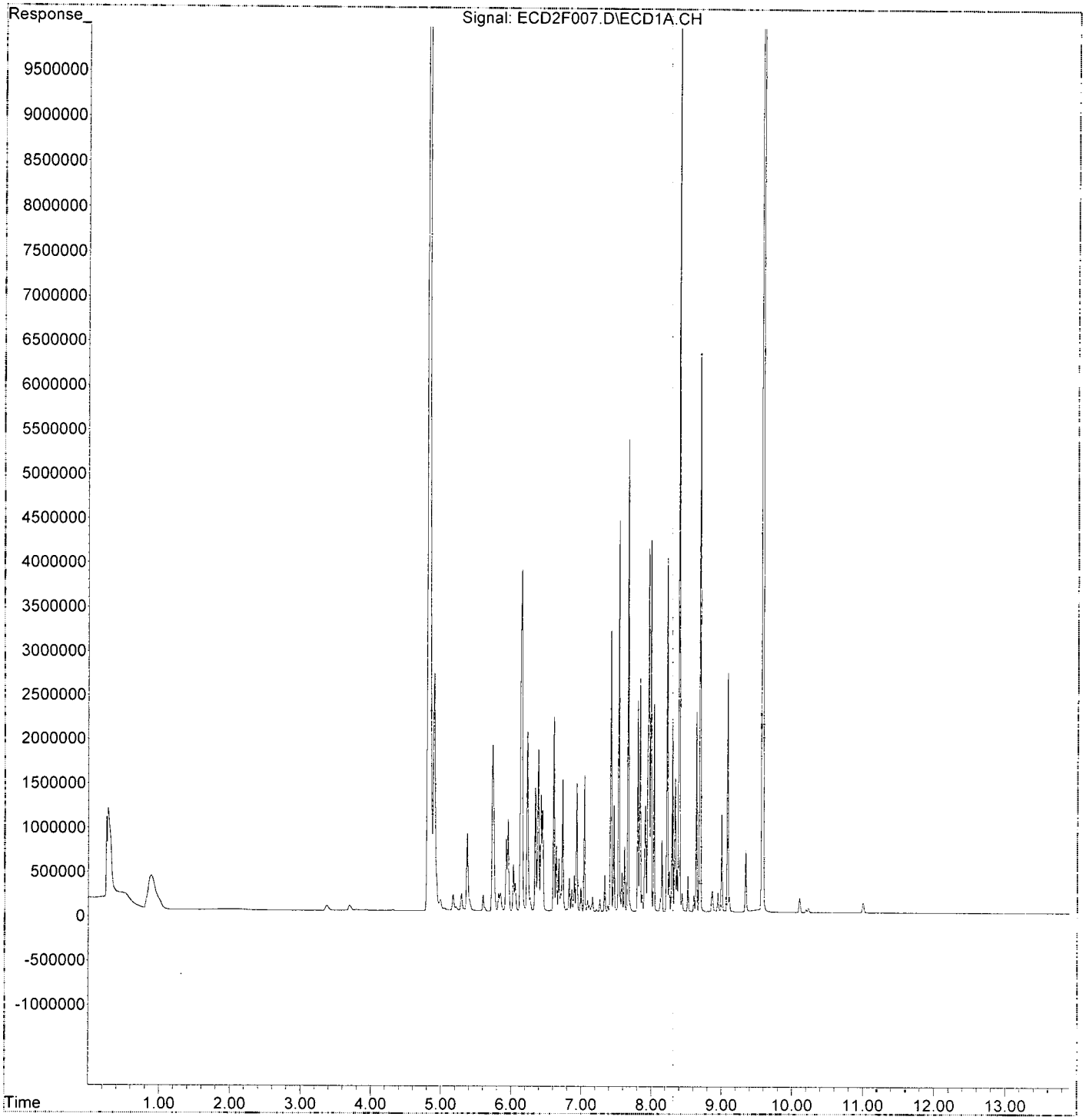
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\
Data File : ECD2F007.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:15
Operator : MJB / KAK
Sample : 9L03052-CAL5
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:47:08 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:32
Operator : MJB / KAK
Sample : 9L03052-CAL6
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:54:26 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.810	33608191	572.073	ng/ml
62) S	DCBP (S)	9.578	54903816	608.303	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.729	3364096	1020.874	ng/ml
3)	Aroclor 1016 (2)	6.142	6834377	1059.093	ng/ml
4)	Aroclor 1016 (3)	6.225	3751237	1065.106	ng/ml
5)	Aroclor 1016 (4)	6.382	3257104	1062.193	ng/ml
6)	Aroclor 1016 (5)	6.604	3740486	1031.893	ng/ml
7)	Aroclor 1016 (6)	6.730	2774363	1096.572	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)	7.532	7808345	1115.329	ng/ml
42)	Aroclor 1260 (2)	7.665	9589273	1077.375	ng/ml
43)	Aroclor 1260 (3)	8.221	7355010	1104.158	ng/ml
44)	Aroclor 1260 (4)	8.391	17708495	1120.626	ng/ml
45)	Aroclor 1260 (5)	8.690	11580150	1122.747	ng/ml
46)	Aroclor 1260 (6)	9.081	4725786	1097.013	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:32
Operator : MJB / KAK
Sample : 9L03052-CAL6
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:54:26 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

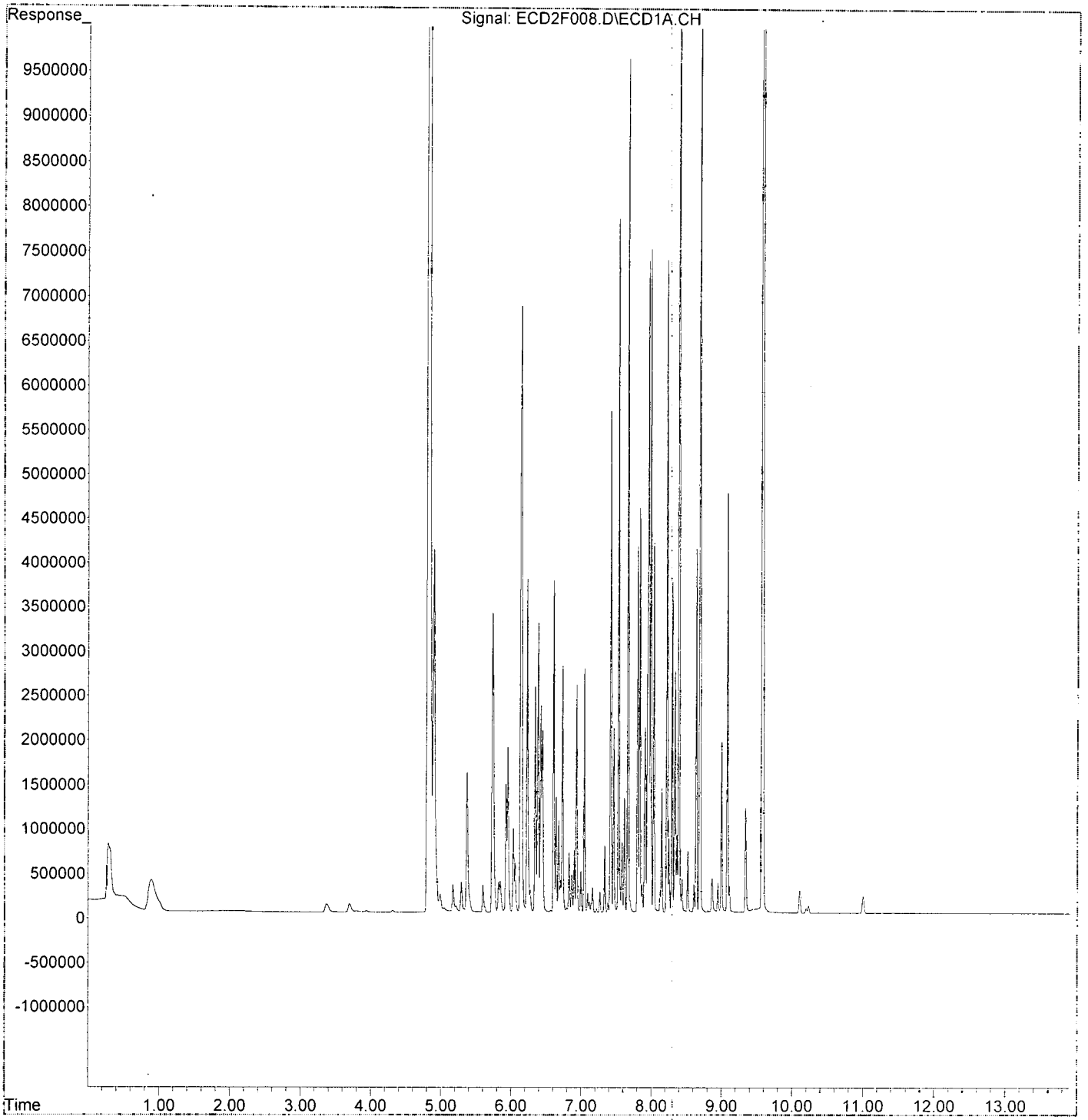
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\
Data File : ECD2F008.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:32
Operator : MJB / KAK
Sample : 9L03052-CAL6
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:54:26 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:50
Operator : MJB / KAK
Sample : 9L03052-CAL7
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:56:25 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1) S	TCMX (S)	4.809	60673888	1032.780	ng/ml
62) S	DCBP (S)	9.580	89202319	988.310	ng/ml
	Target Compounds				
2)	Aroclor 1016 (1)	5.729	5150886	1563.096	ng/ml
3)	Aroclor 1016 (2)	6.142	10450716	1619.501	ng/ml
4)	Aroclor 1016 (3)	6.224	5493308	1559.740	ng/ml
5)	Aroclor 1016 (4)	6.382	4711985	1536.653	ng/ml
6)	Aroclor 1016 (5)	6.604	5651954	1559.212	ng/ml
7)	Aroclor 1016 (6)	6.730	4009865	1584.906	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)	7.532	11443339	1634.544	ng/ml
42)	Aroclor 1260 (2)	7.665	15052739	1691.206	ng/ml
43)	Aroclor 1260 (3)	8.221	11134634	1671.567	ng/ml
44)	Aroclor 1260 (4)	8.392	27659948	1750.371	ng/ml
45)	Aroclor 1260 (5)	8.691	17894220	1734.924	ng/ml
46)	Aroclor 1260 (6)	9.082	7455071	1730.572	ng/ml
47)	Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:50
Operator : MJB / KAK
Sample : 9L03052-CAL7
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:56:25 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

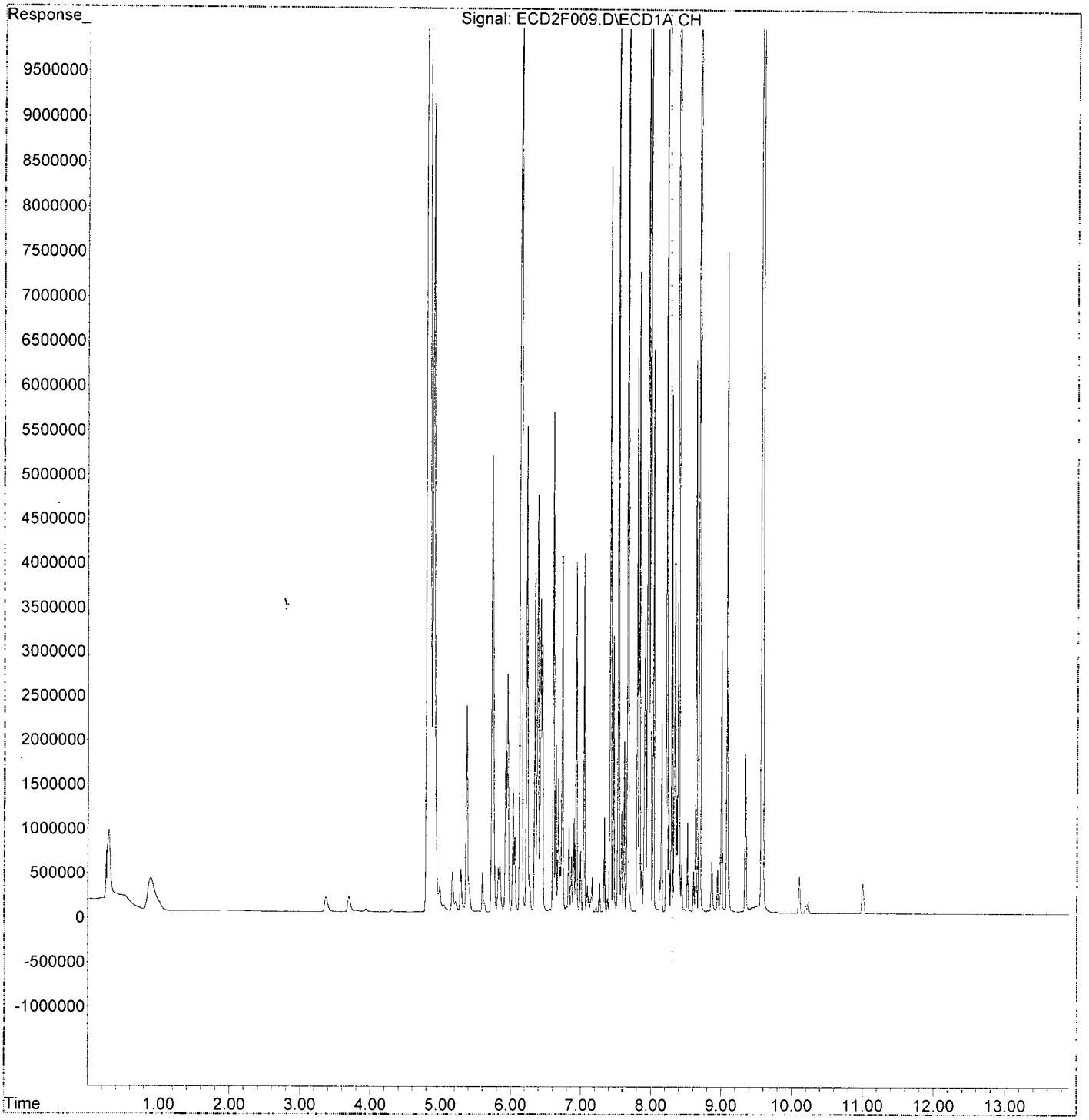
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	0.000	0	N.D. ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D. ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D. ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D. ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D. ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D. ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\
Data File : ECD2F009.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 18:50
Operator : MJB / KAK
Sample : 9L03052-CAL7
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:56:25 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:46:53 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 19:43
Operator : MJB / KAK
Sample : 9L03052-CAL8
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:58:12 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:58:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	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)	5.167	541216	548.599	ng/ml
10)	Aroclor 1221 (2)	5.286	358784	549.849	ng/ml
11)	Aroclor 1221 (3)	5.366	1170056	547.567	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
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

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 19:43
Operator : MJB / KAK
Sample : 9L03052-CAL8
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:58:12 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:58:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

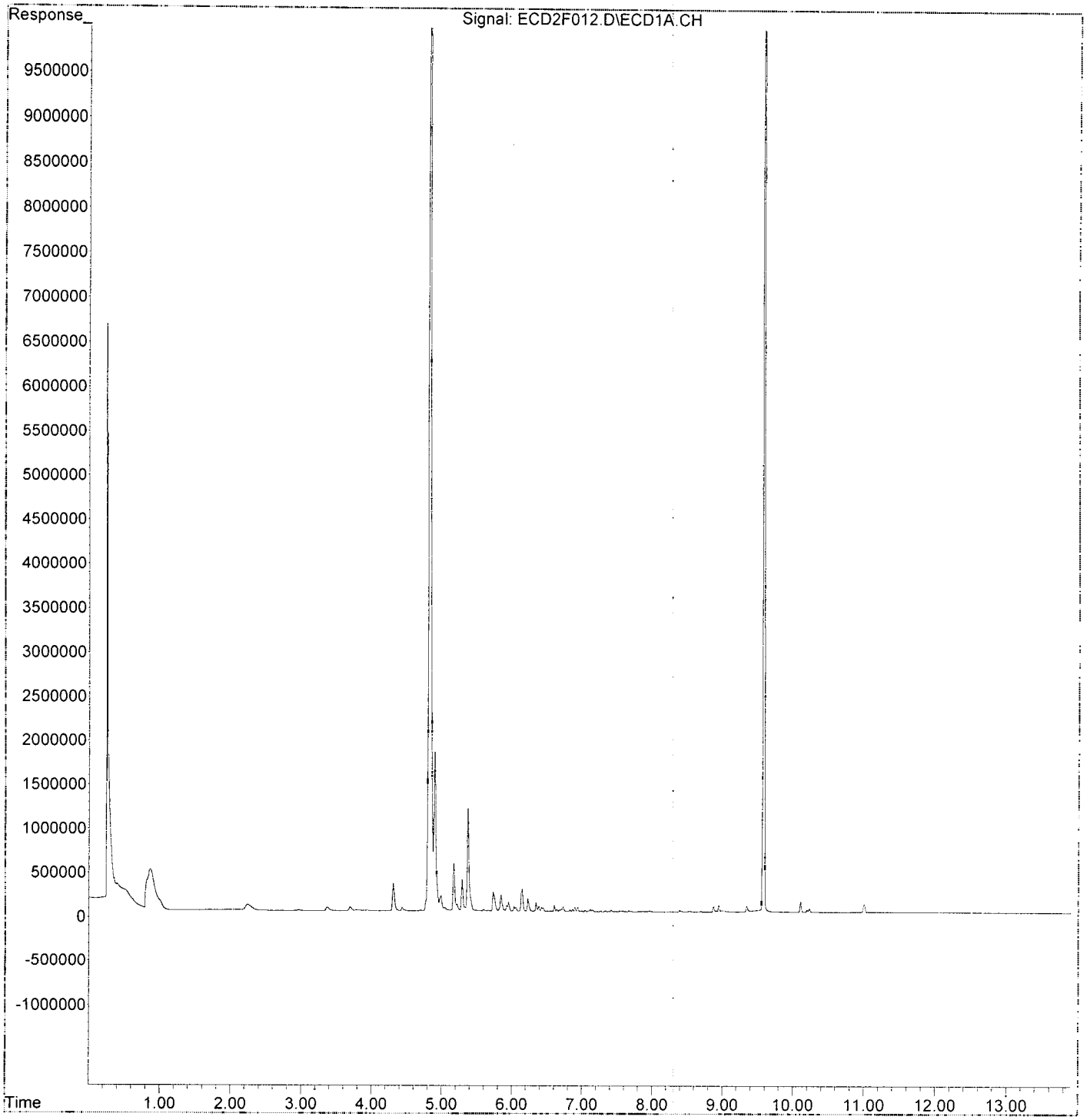
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\
Data File : ECD2F012.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 19:43
Operator : MJB / KAK
Sample : 9L03052-CAL8
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:58:12 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:58:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 20:01
Operator : MJB / KAK
Sample : 9L03052-CAL9
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:59:44 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:59:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	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)	5.368	888086	514.457	ng/ml
14)	Aroclor 1232 (2)	6.142	1390092	546.929	ng/ml
15)	Aroclor 1232 (3)	6.225	733471	527.208	ng/ml
16)	Aroclor 1232 (4)	6.382	569682	572.844	ng/ml
17)	Aroclor 1232 (5)	6.604	717990	566.540	ng/ml
18)	Aroclor 1232 (6)	6.730	599061	579.471	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
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

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 20:01
Operator : MJB / KAK
Sample : 9L03052-CAL9
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:59:44 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:59:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

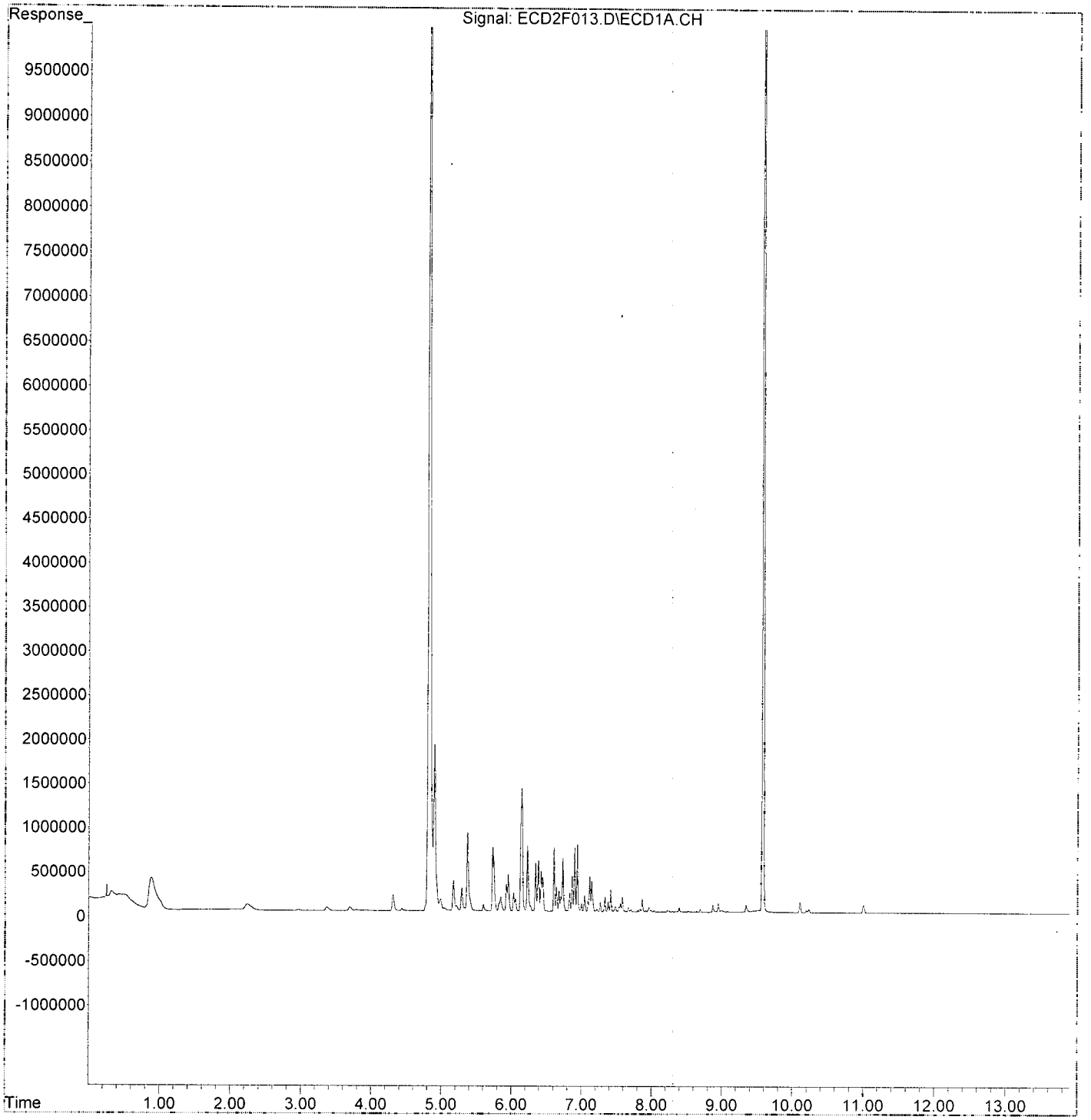
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\
Data File : ECD2F013.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 20:01
Operator : MJB / KAK
Sample : 9L03052-CAL9
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 14:59:44 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 14:59:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 20:18
Operator : MJB / KAK
Sample : 9L03052-CALA
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:01:14 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:01:07 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	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)	5.728	1328013	579.386	ng/ml
21)	Aroclor 1242 (2)	6.141	2593542	562.063	ng/ml
22)	Aroclor 1242 (3)	6.224	1410085	581.224	ng/ml
23)	Aroclor 1242 (4)	6.380	1144590	560.027	ng/ml
24)	Aroclor 1242 (5)	6.603	1492353	571.145	ng/ml
25)	Aroclor 1242 (6)	6.729	1254611	589.352	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
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

12/14/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 20:18
Operator : MJB / KAK
Sample : 9L03052-CALA
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:01:14 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:01:07 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

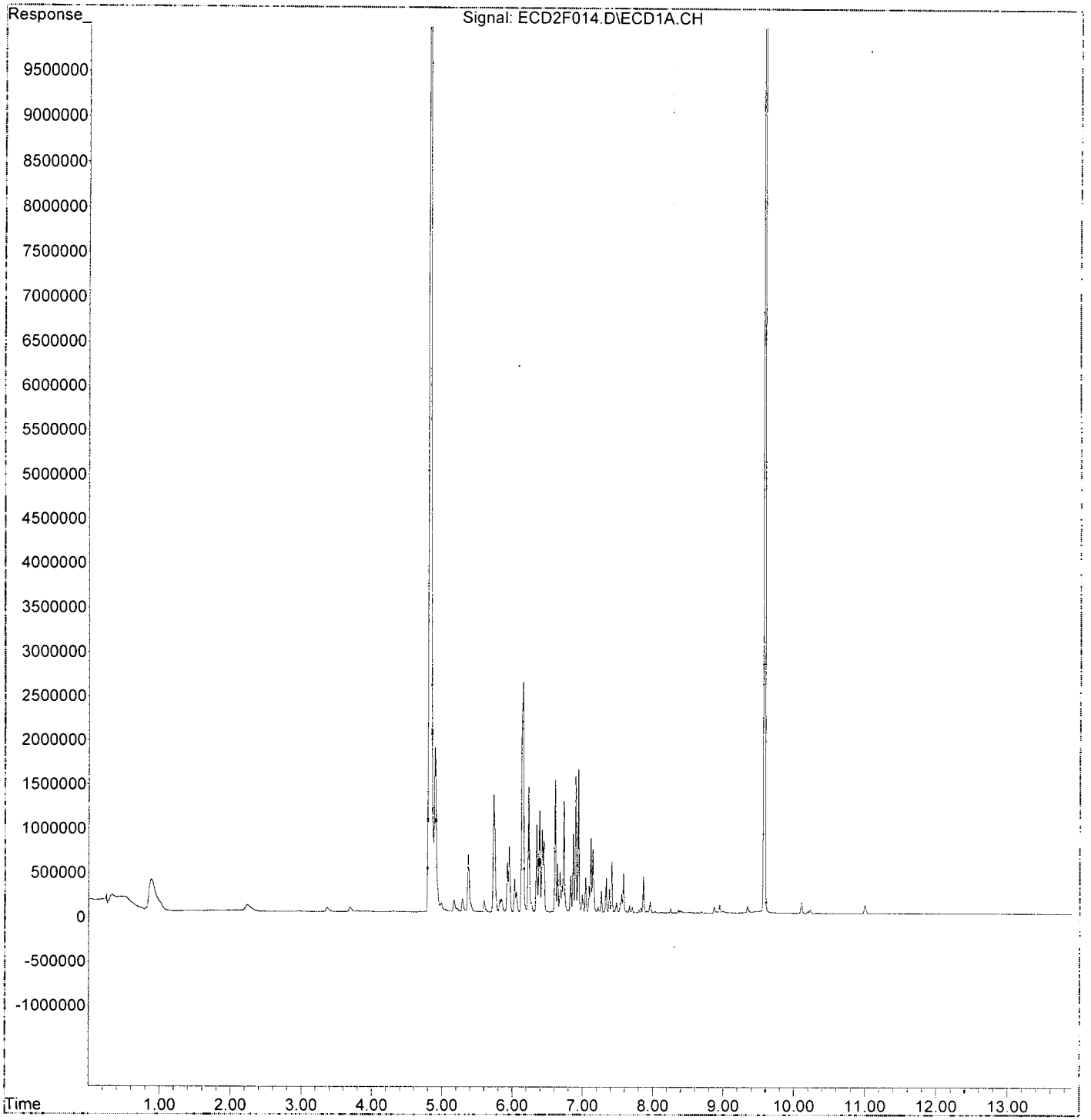
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	0.000	0	N.D. ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D. ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D. ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D. ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D. ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D. ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\
Data File : ECD2F014.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 20:18
Operator : MJB / KAK
Sample : 9L03052-CALA
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:01:14 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:01:07 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 20:36
Operator : MJB / KAK
Sample : 9L03052-CALB
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:08:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:08:29 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	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)	6.132	1701647	573.384	ng/ml
28)	Aroclor 1248 (2)	6.381	2257607	618.190	ng/ml
29)	Aroclor 1248 (3)	6.602	2609430	598.171	ng/ml
30)	Aroclor 1248 (4)	6.897	2902570	579.992	ng/ml
31)	Aroclor 1248 (5)	6.935	3079652	600.040	ng/ml
32)	Aroclor 1248 (6)	7.411	1708709	612.376	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
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

12/18/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 20:36
Operator : MJB / KAK
Sample : 9L03052-CALB
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:08:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:08:29 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

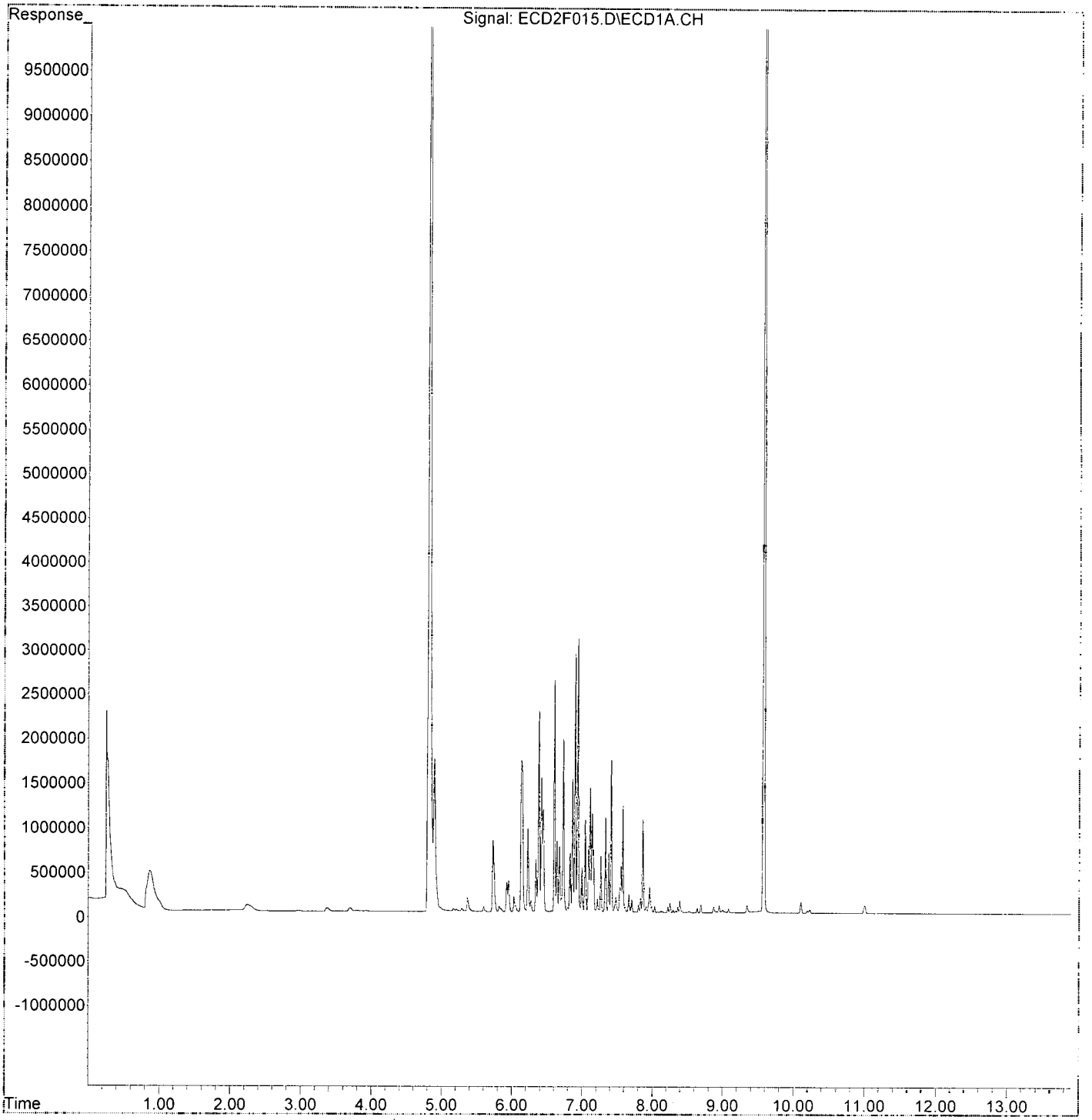
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\
Data File : ECD2F015.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 20:36
Operator : MJB / KAK
Sample : 9L03052-CALB
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:08:37 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:08:29 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F016.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 20:53
Operator : MJB / KAK
Sample : 9L03052-CALC
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:10:17 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:10:11 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	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)	6.931	2999059	566.437	ng/ml
35)	Aroclor 1254 (2)	7.041	3643784	577.886	ng/ml
36)	Aroclor 1254 (3)	7.412	5604987	589.510	ng/ml
37)	Aroclor 1254 (4)	7.578	3565014	559.341	ng/ml
38)	Aroclor 1254 (5)	7.959	3829495	583.093	ng/ml
39)	Aroclor 1254 (6)	8.251	1246944	598.592	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
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

12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F016.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 20:53
Operator : MJB / KAK
Sample : 9L03052-CALC
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:10:17 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:10:11 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

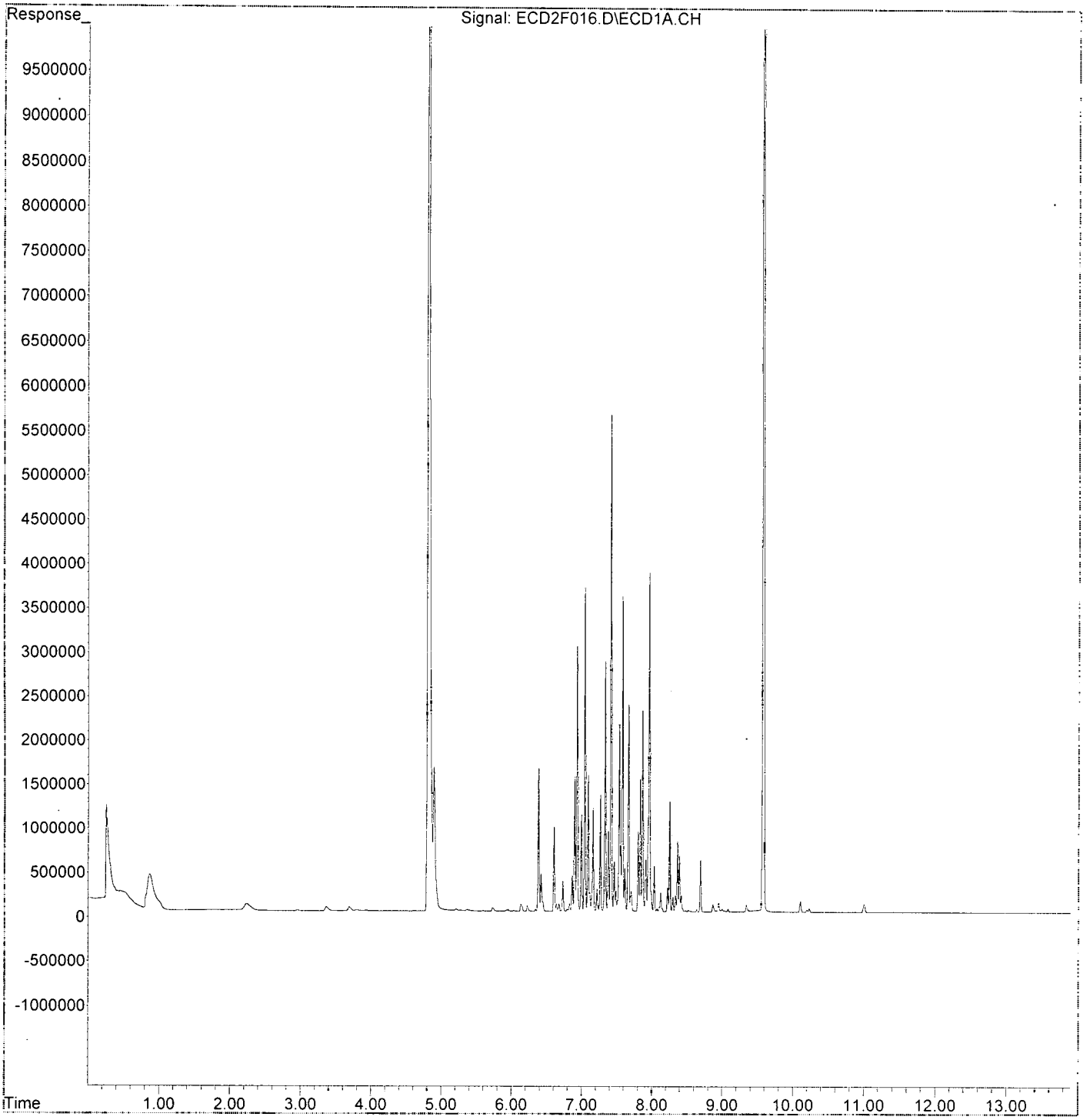
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	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 : K:\DATA\9L03052\
Data File : ECD2F016.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 20:53
Operator : MJB / KAK
Sample : 9L03052-CALC
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:10:17 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:10:11 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 21:11
Operator : MJB / KAK
Sample : 9L03052-CALD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:11:52 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:11:45 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/4/19

	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
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

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 21:11
Operator : MJB / KAK
Sample : 9L03052-CALD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:11:52 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:11:45 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	7.664	4023207	603.629	ng/ml
49)	Aroclor 1262 (2)	7.988	5612535	601.336	ng/ml
50)	Aroclor 1262 (3)	8.220	4852466	611.448	ng/ml
51)	Aroclor 1262 (4)	8.390	10330047	587.616	ng/ml
52)	Aroclor 1262 (5)	8.688	6541182	608.155	ng/ml
53)	Aroclor 1262 (6)	9.081	3338319	586.149	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

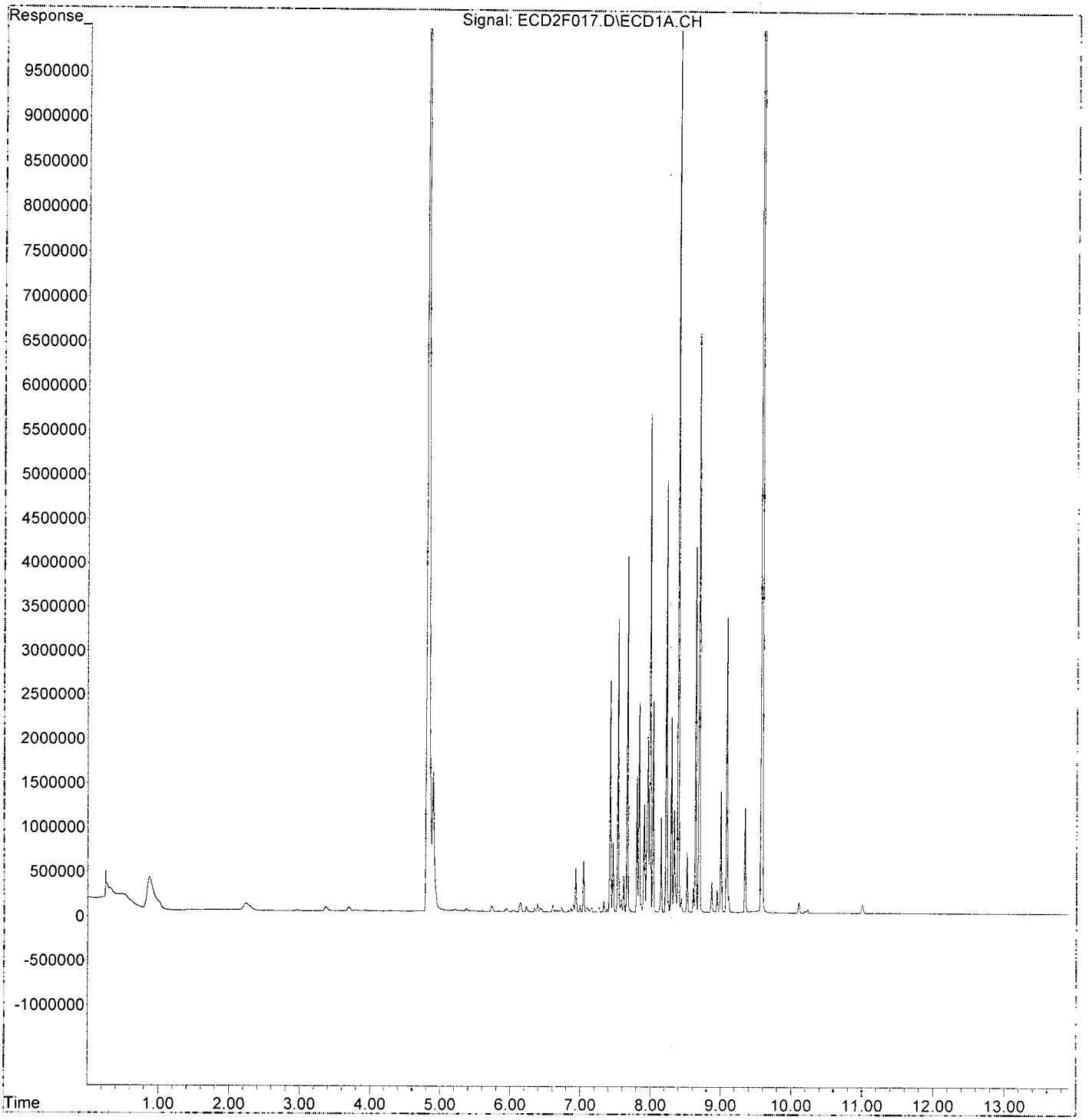
(f)=RT Delta > 1/2 Window (m)=manual int.

12/18/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F017.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 21:11
Operator : MJB / KAK
Sample : 9L03052-CALD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:11:52 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:11:45 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 21:29
Operator : MJB / KAK
Sample : 9L03052-CALE
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:13:26 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:13:19 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

12/4/19

	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
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

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 21:29
Operator : MJB / KAK
Sample : 9L03052-CALE
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:13:26 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:13:19 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

	Compound	R.T.	Response	Conc	Units
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)	8.212	2552118	620.744	ng/ml
56)	Aroclor 1268 (2)	8.637	12262824	603.513	ng/ml
57)	Aroclor 1268 (3)	8.685	10207095	608.706	ng/ml
58)	Aroclor 1268 (4)	8.867	9576694	629.111	ng/ml
59)	Aroclor 1268 (5)	9.081	3874868	615.533	ng/ml
60)	Aroclor 1268 (6)	9.340	26141757	603.570	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

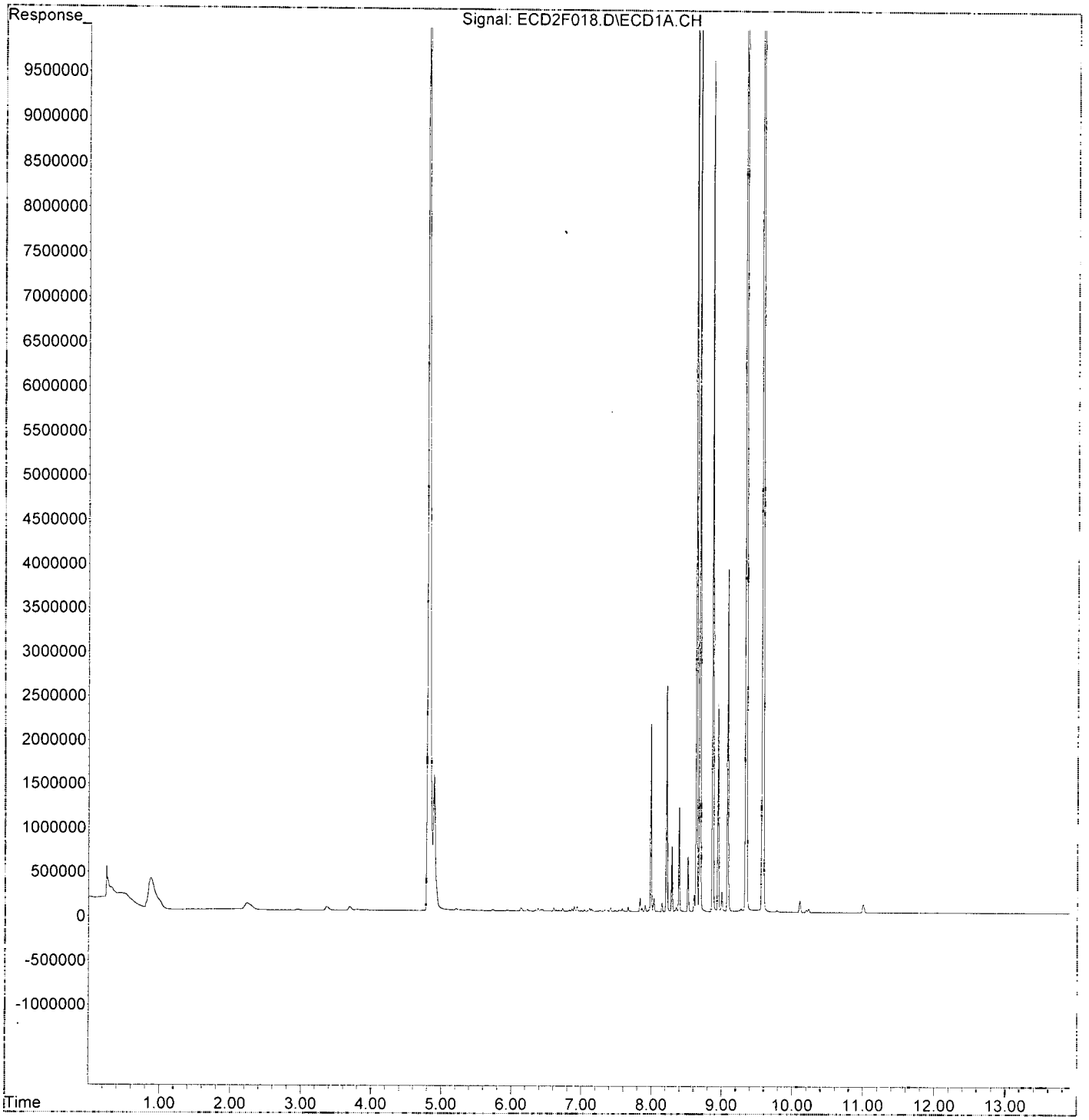
12/4/19

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\
Data File : ECD2F018.D
Signal(s) : ECD1A.CH
Acq On : 03 Dec 2019 21:29
Operator : MJB / KAK
Sample : 9L03052-CALE
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e
Quant Time: Dec 04 15:13:26 2019
Quant Method : K:\METHODS\FECD2_QUANTPCB_191203.M
Quant Title : PCB Data Analysis
QLast Update : Wed Dec 04 15:13:19 2019
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
Benchsheet & Analysis Sequence Data

Batch 9120734
Sequence 9L20036 (A9J0514-18RE1)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120734 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH other	pH >11
	9120734-BLK1		QC	12/05/19 15:26	11	10				100					
	9120734-BLK2		QC	12/05/19 15:26	11	10				100					
	9120734-BS1		QC	12/05/19 15:26	10	10	A19I221		100	100					
	9120734-BS2		QC	12/05/19 15:26	10	10	A19I221		100	100					
	A9J0514-18RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.69	10				100	PDI-066SC-A-05-06-191011	MS/MSD, MDL. Use Custom Spike.			
	9120734-MS1		QC	12/05/19 15:26	10.6	10	A19I221	A9J0514-18RE1	100	100					
	9120734-MSD1		QC	12/05/19 15:26	10.83	10	A19I221	A9J0514-18RE1	100	100					
	A9J0514-19RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.43	10				100	PDI-066SC-A-06-07-191011	MDL. Use Custom Spike.			
	A9J0553-36RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.59	10				100	PDI-074SC-A-08-09-191012	MDL. Use Custom Spike.			
	A9J0553-36RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.59	10				100	PDI-074SC-A-08-09-191012	Added 12/16/2019 By MJB			
	A9J0553-37RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.38	10				100	PDI-074SC-A-09-10-191012	MDL. Use Custom Spike.			
	A9J0558-38RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.3	10				100	PDI-076SC-A-04-05-191013	MDL. Use Custom Spike.			
	A9J0558-38RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.3	10				100	PDI-076SC-A-04-05-191013	Added 12/16/2019 By MJB			
	A9J0558-39RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.61	10				100	PDI-076SC-A-05-06-191013	MDL. Use Custom Spike.			
	A9J0594-16RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.16	10				100	PDI-077SC-A-00-01-191014	MDL. Use Custom Spike.			
	A9J0594-16RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.16	10				100	PDI-077SC-A-00-01-191014	Added 12/16/2019 By MJB			
	A9J0594-17RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.16	10				100	PDI-077SC-A-01-02-191014	MDL. Use Custom Spike.			
	A9J0594-17RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.16	10				100	PDI-077SC-A-01-02-191014	Added 12/16/2019 By MJB			

Standards/Reagents

Prepared By: Date

MJB 12/23/19
Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120734 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11

Reagent(s)

Std ID	Exp. Date	Description
A19H411	08/31/21	n-Hexane Lot# 192712
A19I263	03/18/20	DCM CHEM PROD. 194934

Analyte Spike(s)

Std ID	Exp. Date	Description
A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

From 9120582 on 12/10/2019 by jgc

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120734 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	9120734-BLK1		QC	12/05/19 15:26	11	10				100					
	9120734-BLK2		QC	12/05/19 15:26	11	10				100					
	9120734-BS1		QC	12/05/19 15:26	10	10	A191221			100					
	9120734-BS2		QC	12/05/19 15:26	10	5 10	A191221		100	100					
	A9J0514-18RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.69	10			100	100	PDI-066SC-A-05-06-191011	MS/MSD, MDL. Use Custom Spike.			
	9120734-MS1		QC	12/05/19 15:26	10.6	10	A191221	A9J0514-18RE1	100	100					
	9120734-MSD1		QC	12/05/19 15:26	10.83	10	A191221	A9J0514-18RE1	100	100					
	A9J0514-19RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.43	10				100	PDI-066SC-A-06-07-191011	MDL. Use Custom Spike.			
	A9J0553-36RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.59	10				100	PDI-074SC-A-08-09-191012	MDL. Use Custom Spike.			
	A9J0553-36RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.59	10				100	PDI-074SC-A-08-09-191012	Added 12/16/2019 By MJB			
	A9J0553-37RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.38	10				100	PDI-074SC-A-09-10-191012	MDL. Use Custom Spike.			
	A9J0558-38RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.3	10				100	PDI-076SC-A-04-05-191013	MDL. Use Custom Spike.			
	A9J0558-38RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.3	10				100	PDI-076SC-A-04-05-191013	Added 12/16/2019 By MJB			
	A9J0558-39RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.61	10				100	PDI-076SC-A-05-06-191013	MDL. Use Custom Spike.			
	A9J0594-16RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.16	10				100	PDI-077SC-A-00-01-191014	MDL. Use Custom Spike.			
	A9J0594-16RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.16	10				100	PDI-077SC-A-00-01-191014	Added 12/16/2019 By MJB			
	A9J0594-17RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.16	10				100	PDI-077SC-A-01-02-191014	MDL. Use Custom Spike.			
	A9J0594-17RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.16	10				100	PDI-077SC-A-01-02-191014	Added 12/16/2019 By MJB			

In | Out

1mL 2mL

1mL 2mL

1mL 2mL

1mL 2mL

Standards/Reagents

JC 12/17/19
Prepared By: Date

CAS 12/17/19
Reviewed By: Date

AAO 12-18-19

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120734 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11

Reagent(s)

Std ID	Exp. Date	Description
A19H411	08/31/21	n-Hexane Lot# 192712
A19I263	03/18/20	DCM CHEM PROD. 194934

Analyte Spike(s)

Std ID	Exp. Date	Description
A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

From 9120582 on 12/10/2019 by jgc

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120734 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments (In / Out)	pH <2	pH Other	pH >11
	9120734-BLK1		QC	12/05/19 15:26	11	5 10				100		1mL / 2mL			
	9120734-BS1		QC	12/05/19 15:26	10	5 10	A19I221		100	100		1mL / 2mL			
	A9J0514-18RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.69	5 10				100	PDI-066SC-A-05-06-191011	MS/MSD, MDL. Use Custom Spike. 1mL / 2mL			
	9120734-MS1		QC	12/05/19 15:26	10.6	5 10	A19I221	A9J0514-18RE1	100	100		1mL / 2mL			
	9120734-MSD1		QC	12/05/19 15:26	10.83	5 10	A19I221	A9J0514-18RE1	100	100		1mL / 2mL			
	A9J0514-19RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.43	5 10				100	PDI-066SC-A-06-07-191011	MDL. Use Custom Spike. 1mL / 2mL			
	A9J0553-36RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.59	5 10				100	PDI-074SC-A-08-09-191012	MDL. Use Custom Spike. 1mL / 2mL			
	A9J0553-37RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.38	5 10				100	PDI-074SC-A-09-10-191012	MDL. Use Custom Spike. 1mL / 2mL			
	A9J0558-38RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.3	5 10				100	PDI-076SC-A-04-05-191013	MDL. Use Custom Spike. 1mL / 2mL			
	A9J0558-39RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.61	5 10				100	PDI-076SC-A-05-06-191013	MDL. Use Custom Spike. 1mL / 2mL			
	A9J0594-16RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.16	5 10				100	PDI-077SC-A-00-01-191014	MDL. Use Custom Spike. 1mL / 2mL			
	A9J0594-17RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	10.16	5 10				100	PDI-077SC-A-01-02-191014	MDL. Use Custom Spike. 1mL / 2mL			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A19H411	08/31/21	n-Hexane Lot# 192712
A19I263	03/18/20	DCM CHEM PROD. 194934

Analyte Spike(s)

Std ID	Exp. Date	Description
A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

From 9120582 on 12/10/2019 by jgc

Prepared By: JC — Date: 12/10/19 (12/10/19)

Reviewed By: EGS — Date: 12/11/19

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120582 (Soil)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
1	9120582-BLK1		QC	12/05/19 15:26	~~10~~ 11	5				100					
2	9120582-BS1		QC	12/05/19 15:26	10	5	A19I221		100	100					
3	A9J0514-18	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	~~10~~ 10.69	5				100	PDI-066SC-A-05-06-191011	MS/MSD, MDL. Use Custom Spike. Mud Odor			
4	9120582-MS1		QC	12/05/19 15:26	~~10~~ 10.60	5	A19I221	A9J0514-18	100	100					
5	9120582-MSD1		QC	12/05/19 15:26	~~10~~ 10.83	5	A19I221	A9J0514-18	100	100					
6	A9J0514-19	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	~~10~~ 10.43	5				100	PDI-066SC-A-06-07-191011	MDL. Use Custom Spike. Mud			
7	A9J0553-36	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	~~10~~ 10.59	5				100	PDI-074SC-A-08-09-191012	MDL. Use Custom Spike. Mud			
8	A9J0553-37	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	~~10~~ 10.38	5				100	PDI-074SC-A-09-10-191012	MDL. Use Custom Spike. dirt			
9	A9J0558-38	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	~~10~~ 10.30	5				100	PDI-076SC-A-04-05-191013	MDL. Use Custom Spike. Mud			
10	A9J0558-39	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	~~10~~ 10.61	5				100	PDI-076SC-A-05-06-191013	MDL. Use Custom Spike. Mud			
11	A9J0594-16	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	~~10~~ 10.16	5				100	PDI-077SC-A-00-01-191014	MDL. Use Custom Spike. Mud Odor			
12	A9J0594-17	A	8081B 2,4+4,4-DDx Only (+Add)	12/05/19 15:26	~~10~~ 10.16	5				100	PDI-077SC-A-01-02-191014	MDL. Use Custom Spike. Mud			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A19~~K010~~ L058	10/29/25	Sodium Sulfate ~~Lot # 188777~~

12/5/19

Analyte Spike(s)

Std ID	Exp. Date	Description
A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved.
Initial:

Witness: 12-05-19

Prepared By: Date 12/5/19

Reviewed By: CAS Date 12/05/19

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9L20036** Instrument: **DUALECD5**

Date: **12/20/19 10:52** Calibration: **A9L1807**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L20036-BKD1	Sediment	QC	QC				A19J201
2	9L20036-CCV1	Sediment	QC	QC				A19K133
3	9L20036-CCV2	Sediment	QC	QC				A19J408
4	9L20036-CCB1	Sediment	QC	QC				A19L018
5	9120734-BLK2	Sediment	QC	QC		9120734		
6	9120734-BS2	Sediment	QC	QC		9120734		
7	A9J0558-38RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
8	9L20036-IBL1	Sediment	QC	QC				
9	A9J0594-16RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
10	9L20036-IBL2	Sediment	QC	QC				
11	A9J0096-24RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
12	A9J0096-34RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
13	9L20036-IBL3	Sediment	QC	QC				
14	A9J0353-42RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
15	A9J0553-36RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
16	A9J0594-17RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
17	9L20036-IBL4	Sediment	QC	QC				
18	9L20036-CCV3	Sediment	QC	QC				A19K134
19	9L20036-CCV4	Sediment	QC	QC				A19J409
20	9L20036-CCB2	Sediment	QC	QC				A19L018
21	A9J0463-58RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
22	A9J0463-57RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
23	9L20036-IBL5	Sediment	QC	QC				
24	A9J0463-40RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
25	9L20036-IBL6	Sediment	QC	QC				
26	A9J0463-39RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
27	9L20036-IBL7	Sediment	QC	QC				
28	A9J0096-35RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
29	9L20036-IBL8	Sediment	QC	QC				
30	A9J0353-41RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
31	9L20036-IBL9	Sediment	QC	QC				
32	A9J0558-39RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
33	9L20036-IBLA	Sediment	QC	QC				
34	A9J0514-18RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
35	9L20036-IBLB	Sediment	QC	QC				
36	9120734-MS1	Sediment	QC	QC		9120734		
37	9L20036-IBLC	Sediment	QC	QC				
38	9120734-MSD1	Sediment	QC	QC		9120734		
39	9L20036-IBLD	Sediment	QC	QC				
40	9L20036-CCV5	Sediment	QC	QC				A19K133
41	9L20036-CCV6	Sediment	QC	QC				A19J408
42	9L20036-CCB3	Sediment	QC	QC				A19L018
43	9L20036-IBLE	Sediment	QC	QC				

Comments:

Data Entered By: MB 12/21/19

Data Reviewed By: MW 12/30/19

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 9L20036 BKD1
Data File: ECD5-12191903.D

First Column Area Counts		Percent Breakdown	
DDE	777333		
DDD	9222587		
DDT	128314908	**7.23**	**PASS**
Endrin	74073263	**13.77**	**PASS**
Endrin Aldehyde	3453926		
Endrin Ketone	8378170		

Second Column Area Counts		Percent Breakdown	
DDE	1370313		
DDD	13572131		
DDT	184806831	**7.48**	**PASS**
Endrin	114007101	**10.40**	**PASS**
Endrin Aldehyde	3399439		
Endrin Ketone	9834238		

Breakdown must be less than 15% to accept sample data.

MJB 12/20/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L20036\
Data File : ECD5-12201903.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 11:40
Operator : MJB
Sample : 9L20036-BKD1
Misc : A19J201
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: Dec 20 11:54:20 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_191217.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
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	7.549	777333	NoCal	ng/mL
2)	Endrin	7.920	74073263	NoCal	ng/mL
3)	4,4'-DDD	7.970	9222587	NoCal	ng/mL
4)	4,4'-DDT	8.167	128314908	NoCal	ng/mL
5)	Endrin Aldehyde	8.368	3453926	NoCal	ng/mL
6)	Endrin Ketone	8.863	8378170	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.443	1370313	NoCal	ng/mL
9)	Endrin [2C]	8.824	114007101	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.861	13572131	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.207	3399439	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.090	184806831	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.804	9834238	NoCal	ng/mL

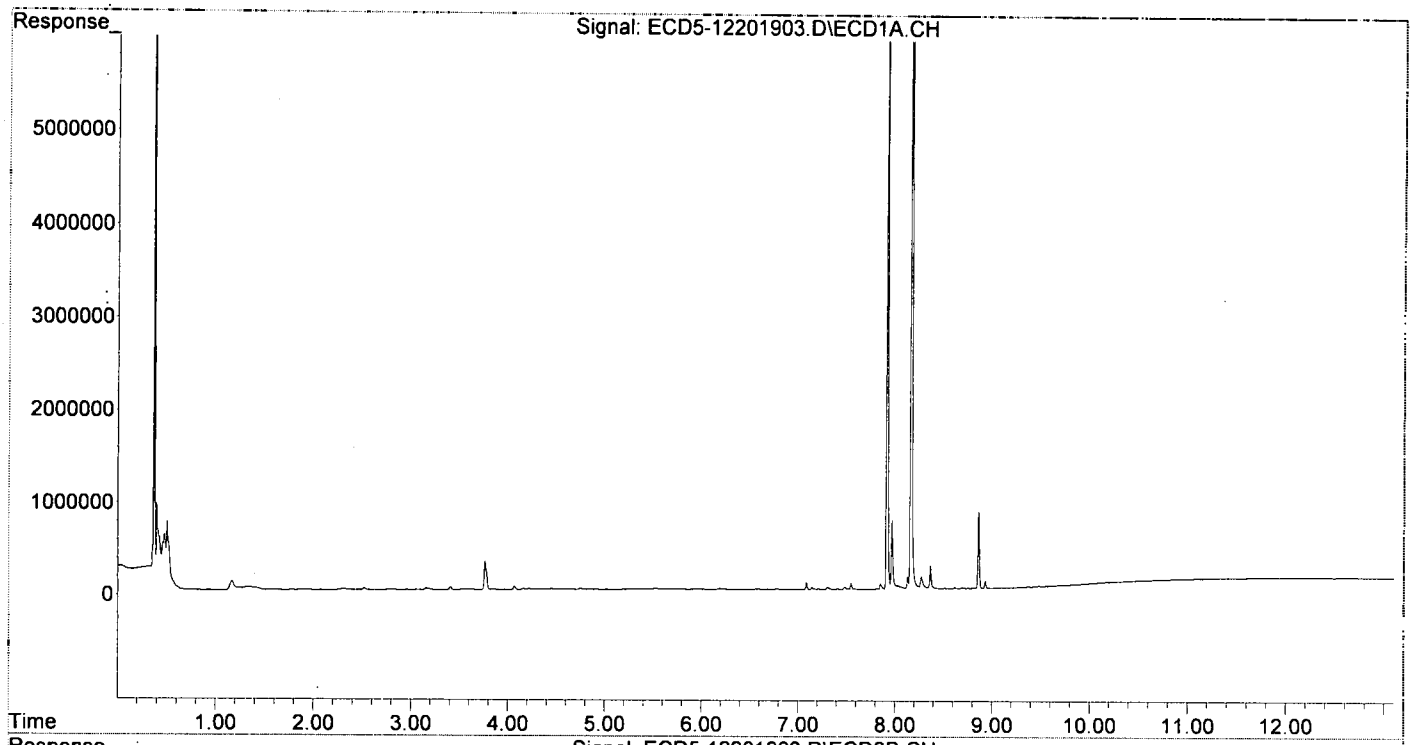
(f)=RT Delta > 1/2 Window (m)=manual int.

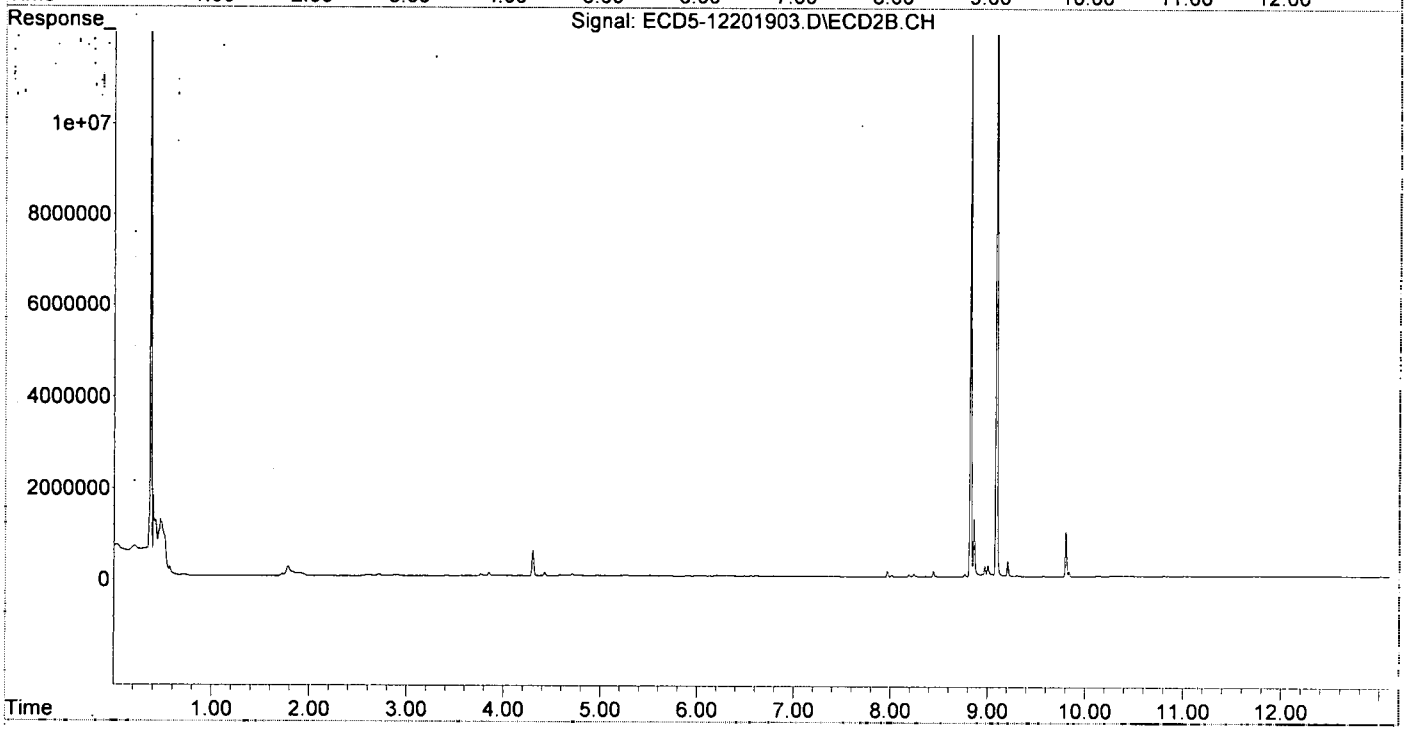
MJB 12/20/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L20036\
Data File : ECD5-12201903.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 11:40
Operator : MJB
Sample : 9L20036-BKD1
Misc : A19J201
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: Dec 20 11:54:20 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_191217.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 11:58
Operator : MJB
Sample : 9L20036-CCV1
Misc : A19K133, 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: Dec 20 15:19:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/24/19

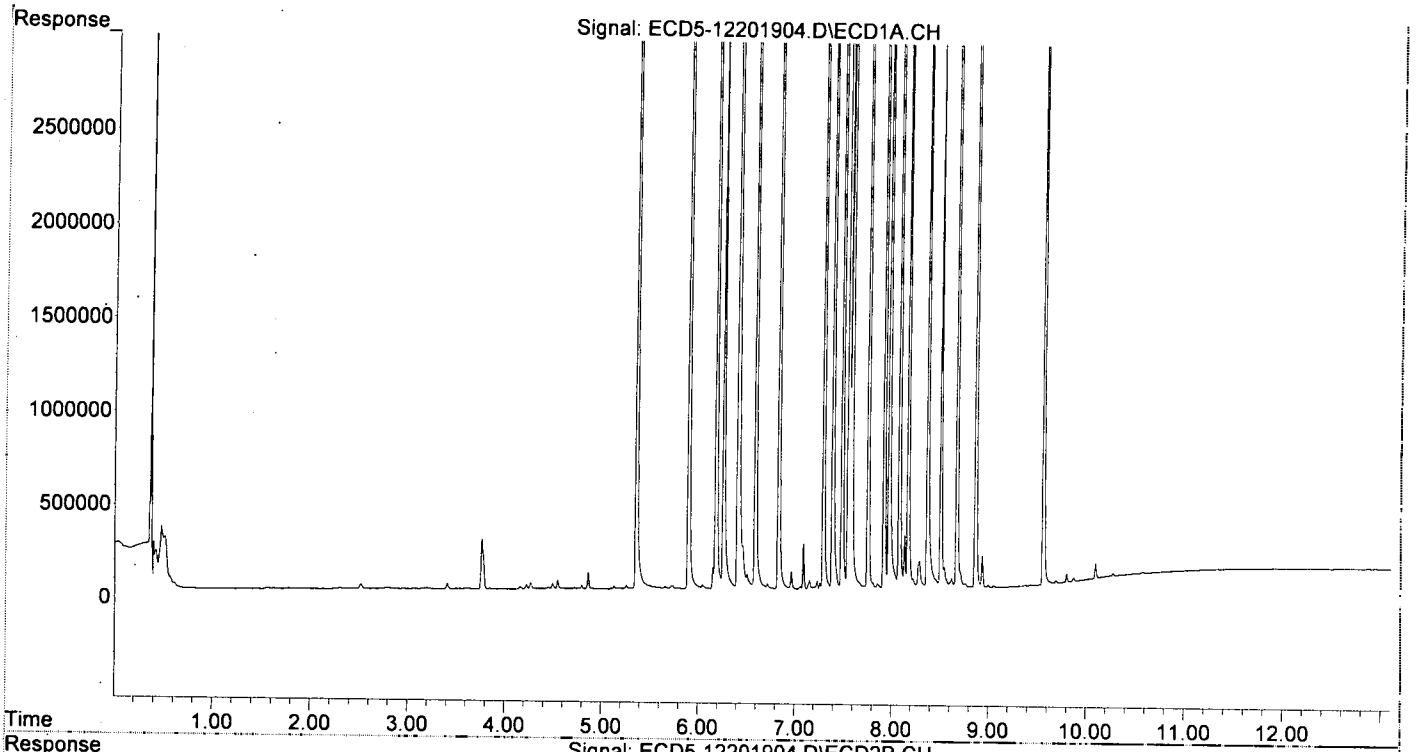
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.359	6.078	7892927	13911107	44.250	46.860	
22)	S	DCBP (S)	9.559	10.680	6543612	7699046	48.502	45.214	
		Target Compounds							
2)		a-BHC	5.899	6.686	11422291	20911331	47.580	52.548	
3)		g-BHC	6.182	7.006	9505404	17255772	46.742	50.959	
4)		b-BHC	6.258	7.068	3344235	6827737	47.167	49.268	
5)		Heptachlor	6.589	7.384	8561791	15447095	46.567	51.630	
6)		d-BHC	6.408	7.326	7770769	16778981	51.104	54.153	
7)		Aldrin	6.830	7.652	9331449	16074026	49.141	51.805	
8)		Heptachlo...	7.292	8.091	8482451	14322763	47.213	50.013	
9)		trans-Chl...	7.388	8.231	8608298	14594112	47.747	50.033	
10)		cis-Chlor...	7.485	8.340	8663871	14294369	50.648	50.933	
11)		Endosulfa...	7.582	8.392	8245273	13260603	46.917	50.451	
12)		4,4'-DDE	7.548	8.443	7864106	14652060	51.186	52.640	
13)		Dieldrin	7.754	8.593	9487621	15186843	48.337	51.126	
14)		Endrin	7.919	8.823	7208346	11227990	47.180	51.399	
15)		4,4'-DDD	7.971	8.861	6781023	12042683	52.578	53.387	
16)		Endosulfa...	8.077	8.970	7087597	11973225	46.388	50.573	
17)		4,4'-DDT	8.167	9.089	5904818	9545737	55.196	56.216	
18)		Endrin Al...	8.367	9.207	6008173	9759636	50.262	49.718	
19)		Endosulfa...	8.670	9.399	7039218	10869460	49.900	52.188	
20)		Methoxychlor	8.504	9.568	2915986	4750561	54.701	56.896	
21)		Endrin Ke...	8.863	9.804	8198133	12059382	49.591	52.675	
23)		Hexachlor...	3.172f	0.000	5695	0	BelowCal	N.D.	
24)		Hexachlor...	5.726	6.558	15997	7540	BelowCal	0.026	
25)		Oxychlordane	7.228	8.009	41410	28545	0.099	0.113	
26)		2,4'-DDE	7.292	8.231	8482451	14594112	78.673	76.739	
27)		trans-Non...	7.485	8.285	8663871	76202	48.199	0.270	#
28)		2,4'-DDD	0.000	8.593	0	15186843	N.D.	89.578	#
29)		2,4'-DDT	7.854	8.823	22282	11227990	0.230	72.890	#
30)		cis-Nonac...	7.971f	8.861	6781023	12042683	32.930	37.609	
31)		Mirex	8.617	9.804	50802	12059382	0.177	73.264	#
32)		Chlordane...	7.388	8.231	8608298	14594112	450.537	429.744	
33)		Chlordane...	7.485	8.340	8663871	14294369	384.575	494.840	
34)		Chlordane...	0.000	9.003	0	274114	N.D.	21.689	#
35)		Chlordane...	3.762f	0.000	266082	0	NoCal	N.D.	
36)		Toxaphene...	7.485	8.565	8663871	59819	9016.279	25.282	#
37)		Toxaphene...	7.754	0.000	9487621	0	6469.934	N.D.	#
38)		Toxaphene...	8.077	8.970	7087597	11973225	1964.881	2470.699	
39)		Toxaphene...	8.282f	9.044	141790	89777	38.838	4.348	#
40)		Toxaphene...	8.504f	9.207	2915986	9759636	1150.925	2081.065	#
41)		Toxaphene...	8.617	9.568f	50802	4750561	14.939	1035.954	#
42)		Toxaphene...	3.762f	0.000	266082	0	NoCal	N.D.	

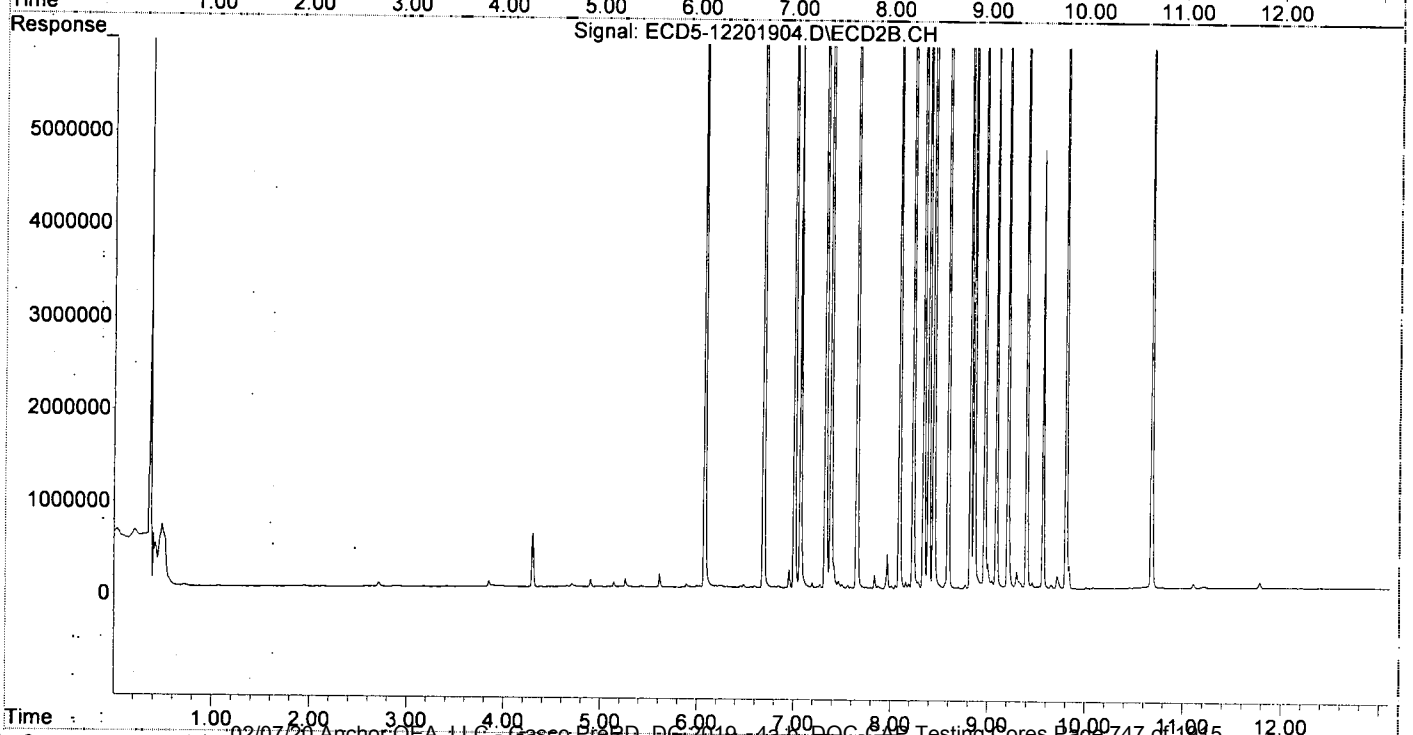
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 11:58
Operator : MJB
Sample : 9L20036-CCV1
Misc : A19K133, 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: Dec 20 15:19:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 12:15
Operator : MJB
Sample : 9L20036-CCV2
Misc : A19J408, 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: Dec 20 15:19:23 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/20/19

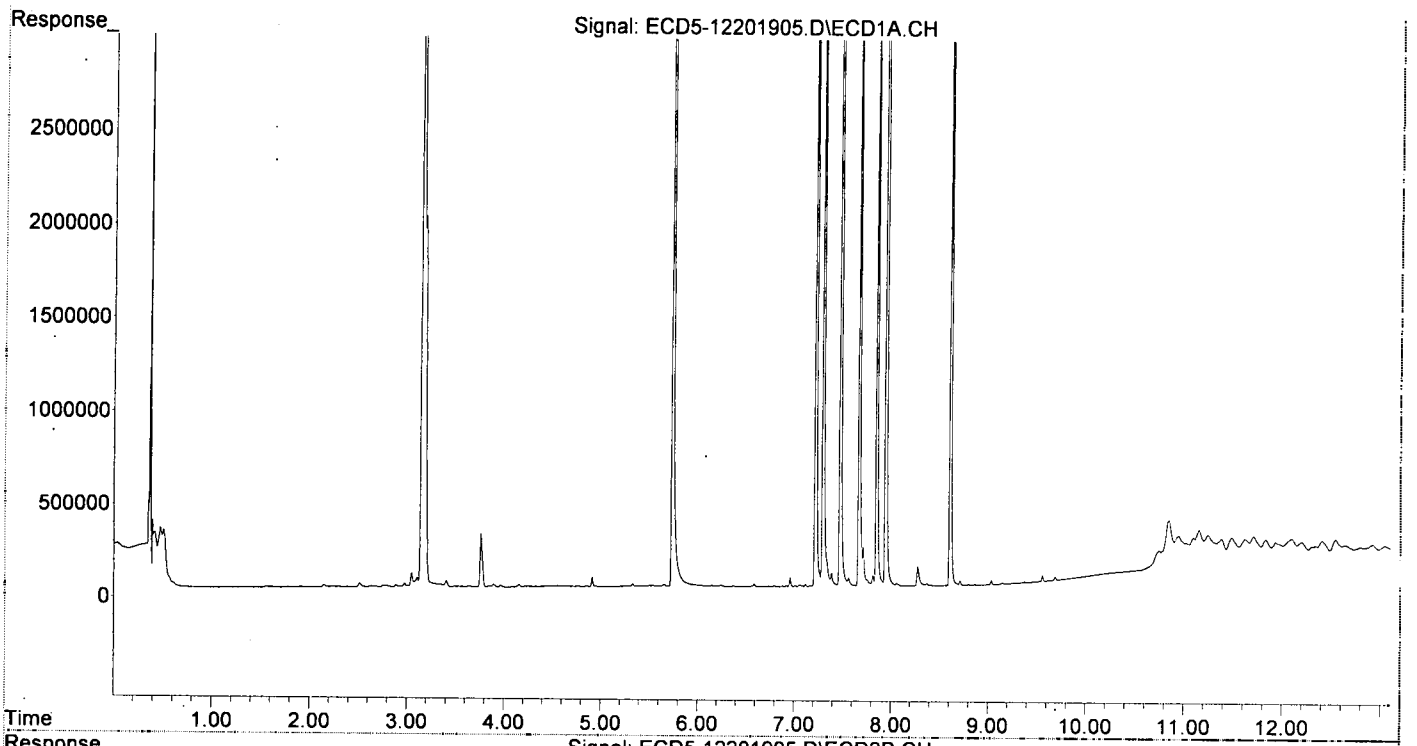
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.331f	6.074	17224	7932	0.097	0.027	#
22)	S	DCBP (S)	9.559	10.679	29619	34431	0.010	0.202	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.152f	0.000	6471	0	0.032	N.D.	#
4)		b-BHC	6.244	7.086	8480	5693	0.120	0.041	#
5)		Heptachlor	6.588	7.382	13990	22269	0.076	0.074	
6)		d-BHC	6.371f	0.000	4476	0	BelowCal	N.D.	
7)		Aldrin	6.794f	7.621f	4526	5516	0.024	0.018	
8)		Heptachlo...	7.297	8.088	4994517	38999	27.799	0.136	#
9)		trans-Chl...	7.387	8.221	73501	8786730	0.408	30.124	#
10)		cis-Chlor...	7.475	0.000	7633517	0	44.755	N.D.	#
11)		Endosulfa...	7.565	8.400	46907	62316	0.267	0.237	
12)		4,4'-DDE	7.565	0.000	46907	0	0.305	N.D.	#
13)		Dieldrin	7.714f	8.596	212015	7689592	1.080	25.887	#
14)		Endrin	7.946f	8.823	9019930	7751112	59.038	36.371	
15)		4,4'-DDD	7.946f	8.864	9019930	14525231	68.481	63.362	
16)		Endosulfa...	8.062	8.946f	15991	15529	0.105	0.066	
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.373	9.207	10839	8095	0.091	0.041	#
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...	8.863	9.798	2687	7490781	BelowCal	33.789	
23)		Hexachlor...	3.152	3.759	5441752	12226434	33.506	33.757	
24)		Hexachlor...	5.739	6.546	7132386	13273957	43.938	45.301	
25)		Oxychlordane	7.220	8.020	6545018	11286718	44.492	44.612	
26)		2,4'-DDE	7.297	8.221	4994517	8786730	46.323	46.203	
27)		trans-Non...	7.475	8.295	7633517	12717606	42.467	45.078	
28)		2,4'-DDD	7.670	8.596	4349718	7689592	44.238	45.356	
29)		2,4'-DDT	7.852	8.823	4753977	7751112	49.131	52.454	
30)		cis-Nonac...	7.946	8.864	9019930	14525231	43.803	45.362	
31)		Mirex	8.612	9.798	5242858	7490781	43.991	46.742	
32)		Chlordane...	7.387	8.221	73501	8786730	3.847	258.737	#
33)		Chlordane...	7.475	0.000	7633517	0	338.839	N.D.	#
34)		Chlordane...	8.062f	9.005	15991	201580	2.801	12.322	#
35)		Chlordane...	3.761f	0.000	283852	0	NoCal	N.D.	
36)		Toxaphene...	7.475	8.596f	7633517	7689592	8065.600	3249.969	#
37)		Toxaphene...	0.000	8.946f	0	15529	N.D.	5.243	#
38)		Toxaphene...	8.062	8.946	15991	15529	1.845	3.204	#
39)		Toxaphene...	8.277f	9.005f	102489	201580	26.309	20.527	
40)		Toxaphene...	0.000	9.207	0	8095	N.D.	BelowCal	
41)		Toxaphene...	8.612	0.000	5242858	0	1541.684	N.D.	#
42)		Toxaphene...	3.761	3.759f	283852	12226434	NoCal	NoCal	

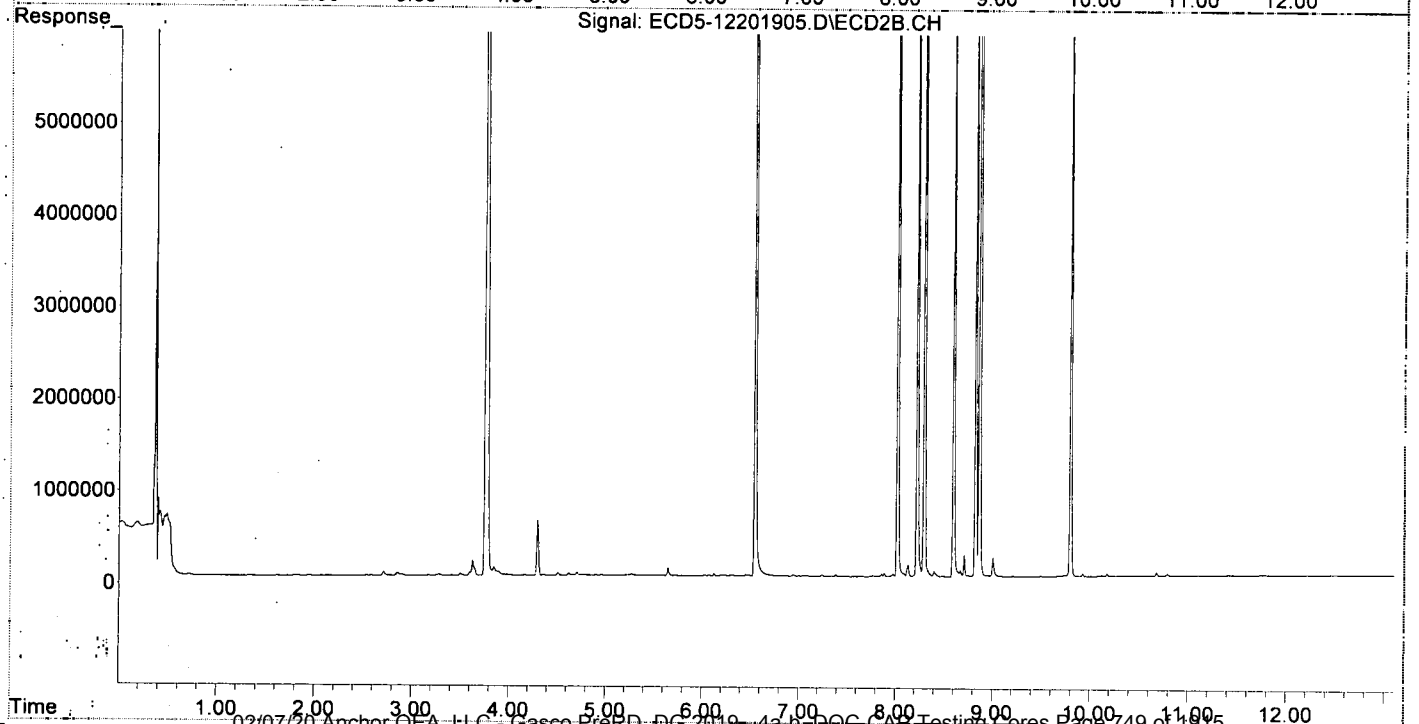
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 12:15
Operator : MJB
Sample : 9L20036-CCV2
Misc : A19J408, 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: Dec 20 15:19:23 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 12:32
Operator : MJB
Sample : 9L20036-CCB1
Misc : A19L018
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: Dec 20 15:19:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/20/19

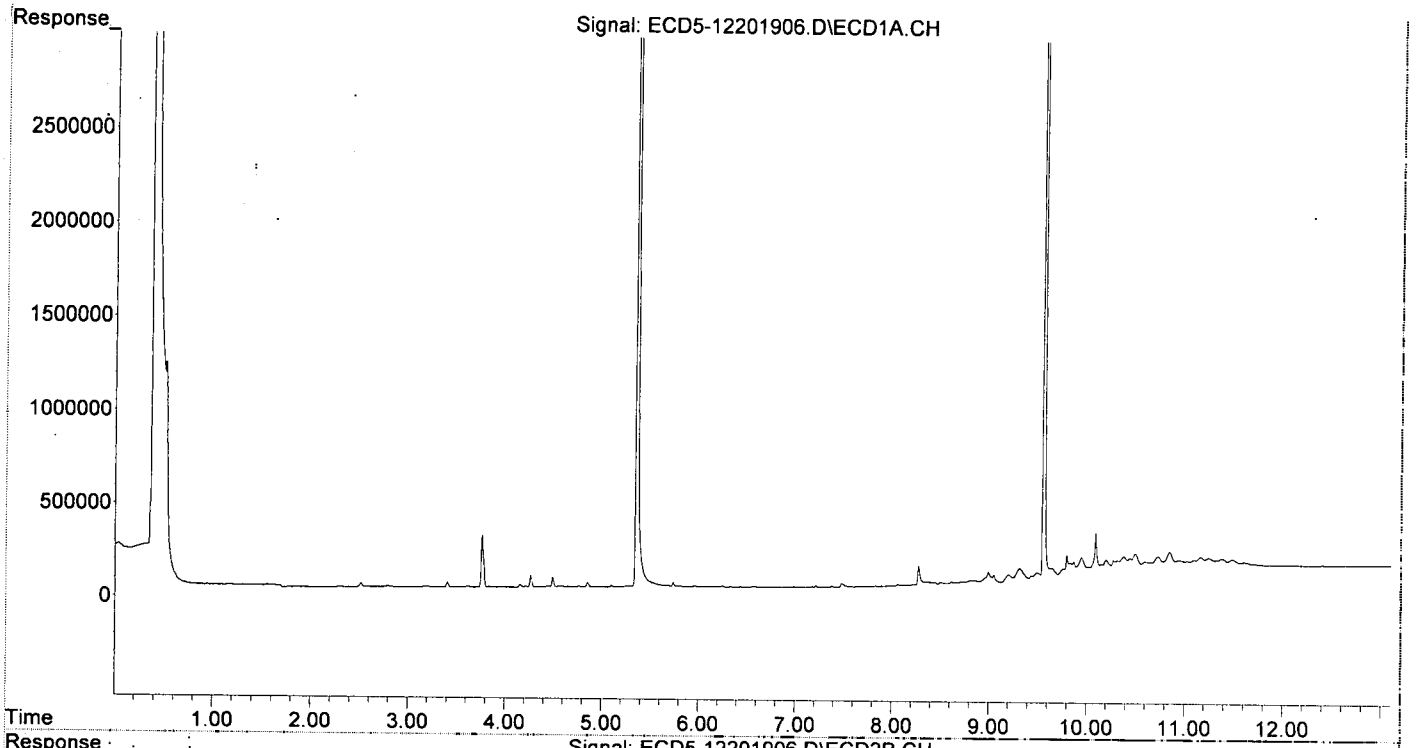
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.357	6.077	15942936	28779174	89.381	96.943	
22)	S	DCBP (S)	9.559	10.680	12912723	16415538	94.532	96.403	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.202f	0.000	3809	0	0.019	N.D.	#
4)		b-BHC	6.245	7.088f	7536	4954	0.106	0.036	#
5)		Heptachlor	6.566f	0.000	3098	0	0.017	N.D.	#
6)		d-BHC	0.000	7.341	0	9952	N.D.	BelowCal	
7)		Aldrin	0.000	7.656	0	16225	N.D.	0.052	#
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.377	8.242	6765	52722	0.038	0.181	#
10)		cis-Chlor...	7.484	0.000	19892	0	BelowCal	N.D.	
11)		Endosulfa...	7.579	0.000	1617	0	0.009	N.D.	#
12)		4,4'-DDE	7.579f	0.000	1617	0	0.011	N.D.	#
13)		Dieldrin	7.737	0.000	1156	0	0.006	N.D.	#
14)		Endrin	7.918	0.000	487	0	0.003	N.D.	#
15)		4,4'-DDD	7.984	0.000	945	0	BelowCal	N.D.	
16)		Endosulfa...	8.062	8.947f	10102	13753	0.066	0.058	
17)		4,4'-DDT	8.165	9.115f	2721	5740	BelowCal	0.256	
18)		Endrin Al...	8.367	9.216	16204	10117	0.136	0.052	#
19)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20)		Methoxychlor	8.496	0.000	9273	0	0.258	N.D.	#
21)		Endrin Ke...	8.832f	9.802	14510	3599	BelowCal	BelowCal	
23)		Hexachlor...	3.172f	0.000	4576	0	BelowCal	N.D.	
24)		Hexachlor...	5.739	6.558	25303	6411	BelowCal	0.022	
25)		Oxychlordane	7.215	0.000	9652	0	BelowCal	N.D.	
26)		2,4'-DDE	0.000	8.242f	0	52722	N.D.	0.277	#
27)		trans-Non...	7.484	0.000	19892	0	0.111	N.D.	#
28)		2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)		2,4'-DDT	7.830f	0.000	2775	0	0.029	N.D.	#
30)		cis-Nonac...	7.918f	0.000	487	0	0.002	N.D.	#
31)		Mirex	8.613	9.802	13070	3599	BelowCal	BelowCal	
32)		Chlordane...	7.377	8.242	6765	52722	0.354	1.552	#
33)		Chlordane...	7.484	0.000	19892	0	0.883	N.D.	#
34)		Chlordane...	8.062f	9.005	10102	209278	1.770	13.317	#
35)		Chlordane...	3.760f	0.000	274236	0	NoCal	N.D.	
36)		Toxaphene...	7.484	0.000	19892	0	21.161	N.D.	#
37)		Toxaphene...	7.737f	8.947f	1156	13753	78764.970	4.643	#
38)		Toxaphene...	8.062	8.947	10102	13753	0.024	2.838	#
39)		Toxaphene...	8.349f	9.005f	16434	209278	BelowCal	21.639	
40)		Toxaphene...	8.519f	9.216	8589	10117	3.390	BelowCal	#
41)		Toxaphene...	8.613	0.000	13070	0	3.843	N.D.	#
42)		Toxaphene...	3.760	0.000	274236	0	NoCal	N.D.	

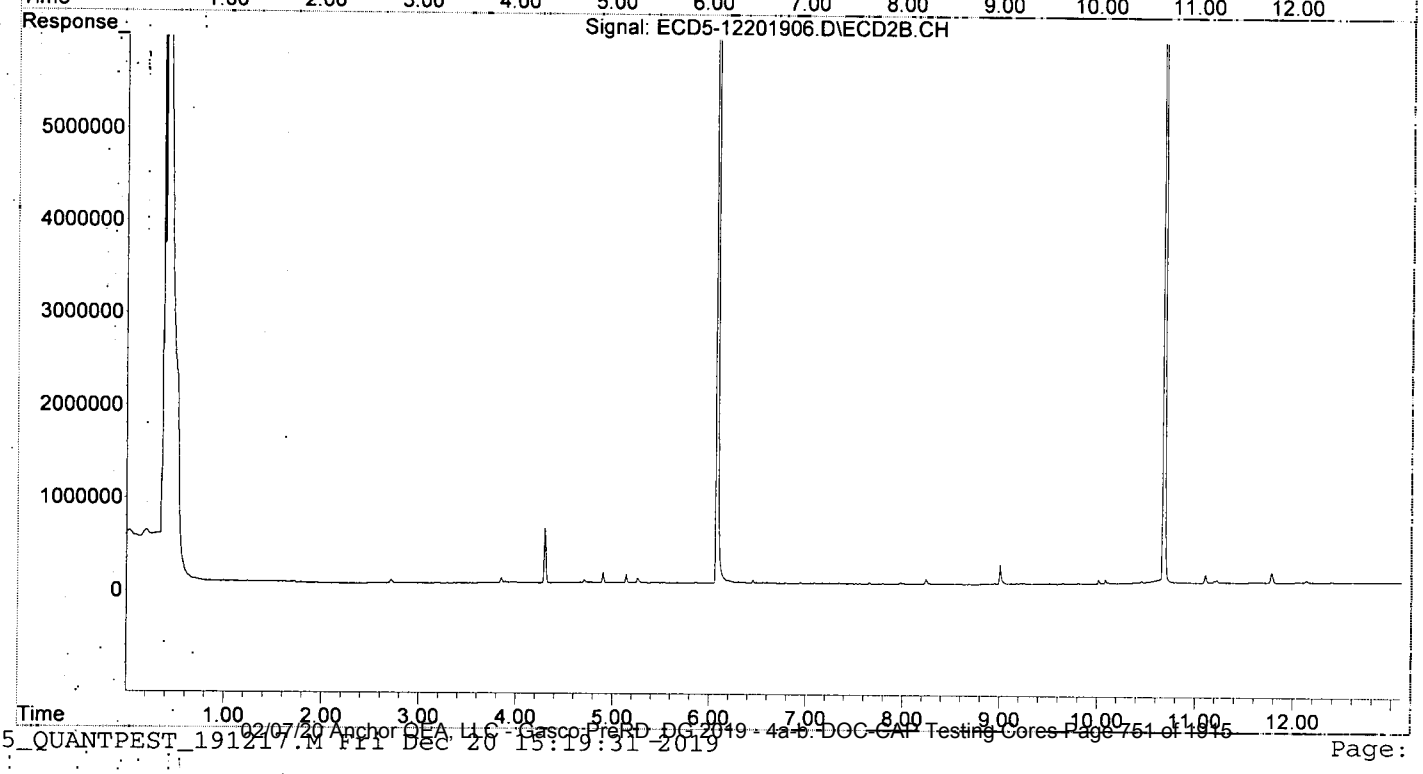
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 12:32
Operator : MJB
Sample : 9L20036-CCB1
Misc : A19L018
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: Dec 20 15:19:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 12:49
Operator : MJB
Sample : 9120734-BLK2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC, 4,4-DDT 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: Dec 20 15:19:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/20/19

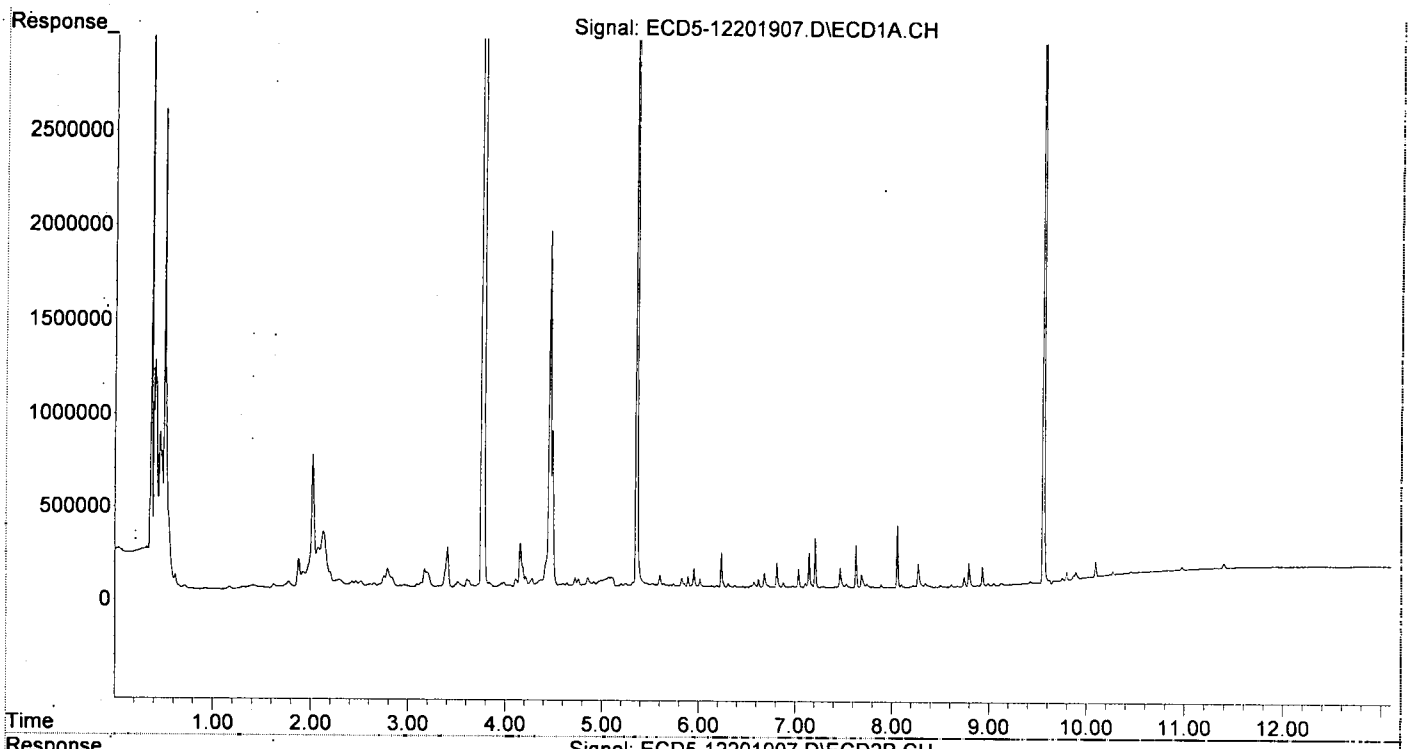
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.357	6.076	5237018	9454185	29.360	31.846	
22)	S	DCBP (S)	9.557	10.678	6493968	7483465	48.138	43.948	
		Target Compounds							
2)		a-BHC	5.890	0.000	64999	0	0.271	N.D.	#
3)		g-BHC	6.186	6.972f	14758	25303	0.073	0.075	
4)		b-BHC	6.236f	7.053	190091	15017	2.681	0.108	#
5)		Heptachlor	6.574	7.390	31600	10070	0.172	0.034	#
6)		d-BHC	6.428f	7.347f	8649	11163	0.028	BelowCal	#
7)		Aldrin	6.810	7.658	133702	8180	0.704	0.026	#
8)		Heptachlo...	7.291	8.069f	7999	44058	0.045	0.154	#
9)		trans-Chl...	7.415f	8.228	7727	129333	0.043	0.443	#
10)		cis-Chlor...	7.465	8.357	105324	18788	0.448	0.067	#
11)		Endosulfa...	0.000	8.397	0	13105	N.D.	0.050	#
12)		4,4'-DDE	7.529	8.437	20819	359243	0.136	1.361	#
13)		Dieldrin	7.742	8.591	20016	7722	0.102	0.026	#
14)		Endrin	7.888f	0.000	15677	0	0.103	N.D.	#
15)		4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
16)		Endosulfa...	8.056f	8.943f	334456	387107	2.189	1.635	
17)		4,4'-DDT	0.000	9.078	0	16820	N.D.	0.333	#
18)		Endrin Al...	8.345f	9.169f	21791	29423	0.182	0.150	
19)		Endosulfa...	8.672	0.000	3349	0	BelowCal	N.D.	
20)		Methoxychlor	8.501	9.565	13194	21407	0.340	0.426	
21)		Endrin Ke...	8.881	9.802	4927	76920	BelowCal	0.163	
23)		Hexachlor...	3.169	3.753	105156	525781	0.488	1.452	#
24)		Hexachlor...	5.738	6.555	24597	193642	BelowCal	0.661	
25)		Oxychlordane	7.207	0.000	265377	0	1.681	N.D.	#
26)		2,4'-DDE	7.291	8.228	7999	129333	0.074	0.680	#
27)		trans-Non...	7.465	8.294	105324	26097	0.586	0.093	#
28)		2,4'-DDD	7.687	8.591	72505	7722	0.737	0.046	#
29)		2,4'-DDT	7.888f	0.000	15677	0	0.162	N.D.	#
30)		cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.	
31)		Mirex	8.612	9.802	12485	76920	BelowCal	0.135	
32)		Chlordane...	7.415f	8.228	7727	129333	0.404	3.808	#
33)		Chlordane...	7.465	8.357	105324	18788	4.675	0.650	#
34)		Chlordane...	8.056f	9.001	334456	225488	58.594	15.411	#
35)		Chlordane...	3.762f	3.690f	5542166	21221	NoCal	NoCal	
36)		Toxaphene...	7.465	8.591f	105324	7722	124.693	3.263	#
37)		Toxaphene...	7.742	8.943f	20016	387107	8.906	130.698	#
38)		Toxaphene...	8.056	8.943	334456	387107	99.761	79.880	
39)		Toxaphene...	8.345f	9.047	21791	13782	0.535	BelowCal	#
40)		Toxaphene...	8.536	9.169f	4233	29423	1.671	4.032	#
41)		Toxaphene...	8.612	9.599	12485	79779	3.671	17.397	#
42)		Toxaphene...	3.762f	3.753f	5542166	525781	NoCal	NoCal	

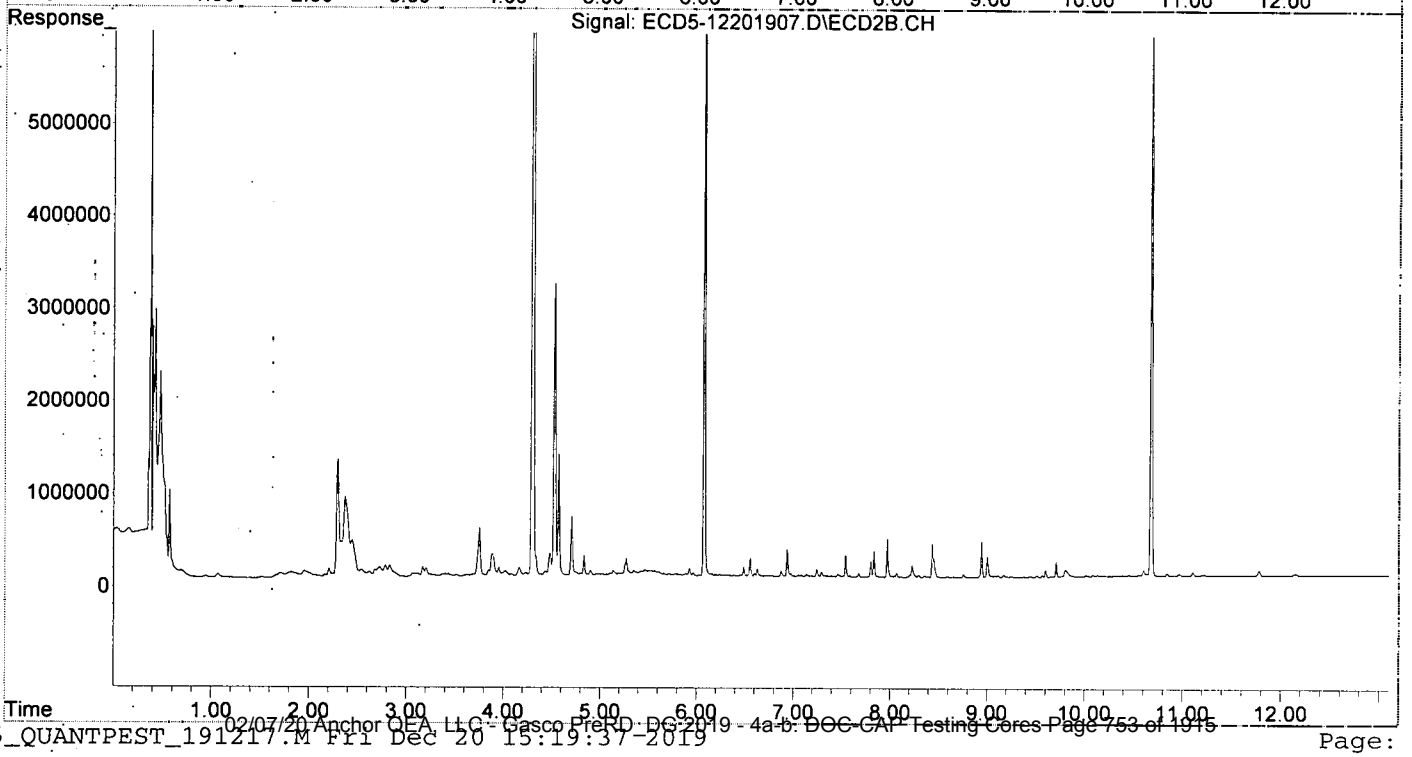
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 12:49
Operator : MJB
Sample : 9120734-BLK2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC, 4,4-DDT 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: Dec 20 15:19:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 13:07
Operator : MJB
Sample : 9120734-BS2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC, 4,4-DDT 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: Dec 20 15:19:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/20/19

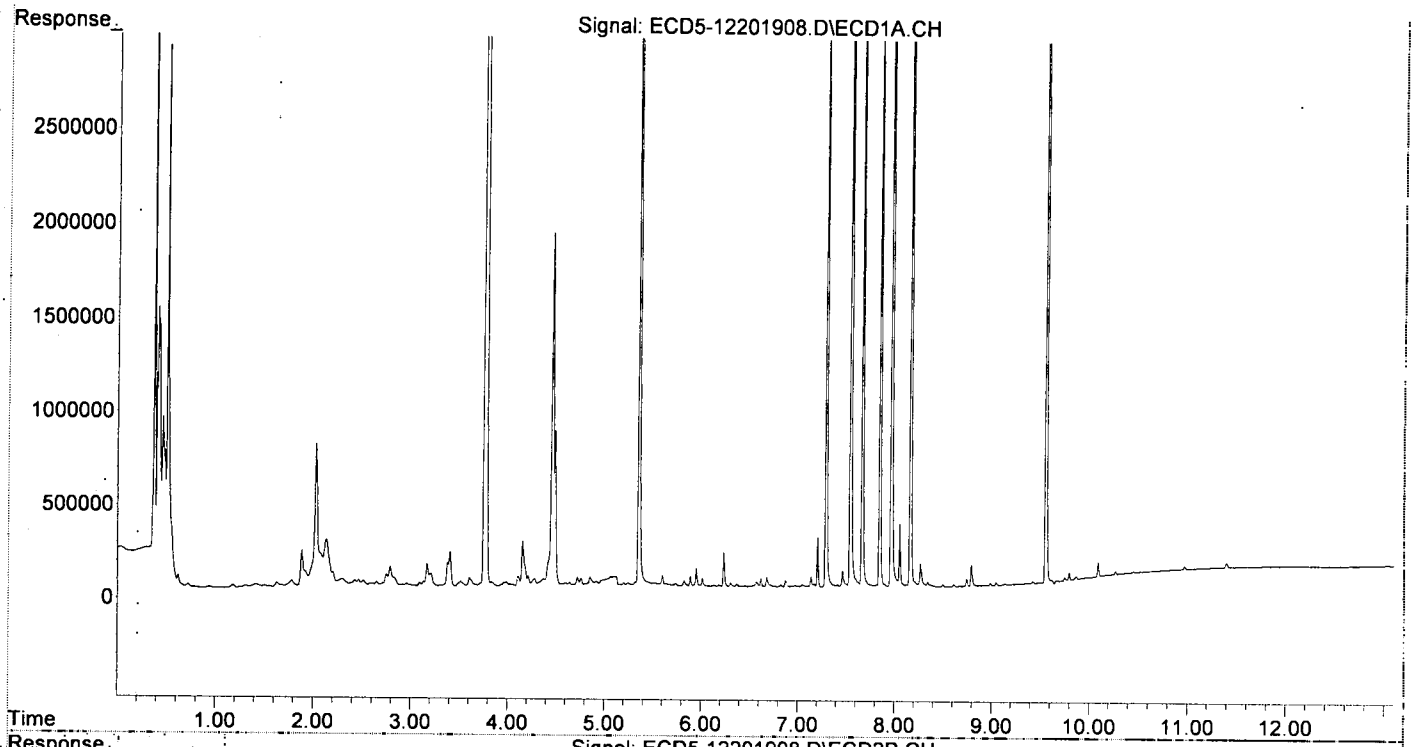
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.357	6.076	5123747	9188586	28.725	30.952	
22)	S	DCBP (S)	9.557	10.679	6144604	7157892	45.574	42.036	
		Target Compounds							
2)		a-BHC	5.890	0.000	59469	0	0.248	N.D.	#
3)		g-BHC	6.185	6.969f	11921	26419	0.059	0.078	
4)		b-BHC	6.236f	7.053	184711	19835	2.605	0.143	#
5)		Heptachlor	6.574	7.390	28022	13024	0.152	0.044	#
6)		d-BHC	6.428f	7.319	6735	17972	0.014	0.018	
7)		Aldrin	6.827	7.657	10627	8284	0.056	0.027	#
8)		Heptachlo...	7.293	8.069f	4209488	61677	23.430	0.215	#
9)		trans-Chl...	7.411f	8.219	12504	6887569	0.069	23.613	#
10)		cis-Chlor...	7.464	8.356	87722	33513	0.341	0.119	#
11)		Endosulfa...	7.545f	8.397	6872527	13553	39.106	0.052	#
12)		4,4'-DDE	7.545	8.441	6872527	11758904	44.732	42.950	
13)		Dieldrin	0.000	8.594	0	6925475	N.D.	23.314	#
14)		Endrin	0.000	8.821	0	7119165	N.D.	33.561	#
15)		4,4'-DDD	7.966	8.859	6358768	10618013	49.505	47.521	
16)		Endosulfa...	8.055f	8.943f	337670	388313	2.210	1.640	
17)		4,4'-DDT	8.164	9.088	6058632	9455115	56.441	55.755	
18)		Endrin Al...	8.345f	9.210	25448	8882	0.213	0.045	#
19)		Endosulfa...	8.671	9.374f	2448	4912	BelowCal	BelowCal	
20)		Methoxychlor	8.500	9.566	12907	19416	0.334	0.399	
21)		Endrin Ke...	8.880	9.803	3456	74892	BelowCal	0.154	
23)		Hexachlor...	3.169	3.754	128317	442020	0.632	1.220	#
24)		Hexachlor...	5.737	6.555	20583	196964	BelowCal	0.672	
25)		Oxychlordane	7.206	8.011	263659	23605	1.669	0.093	#
26)		2,4'-DDE	7.293	8.219	4209488	6887569	39.042	36.216	
27)		trans-Non...	7.464	8.293	87722	32977	0.488	0.117	#
28)		2,4'-DDD	7.666	8.594	4347191	6925475	44.213	40.849	
29)		2,4'-DDT	7.848	8.821	4698389	7119165	48.557	48.568	
30)		cis-Nonac...	7.966f	8.859	6358768	10618013	30.880	33.160	
31)		Mirex	8.611	9.803	13671	74892	BelowCal	0.122	
32)		Chlordane...	7.411f	8.219	12504	6887569	0.654	202.814	#
33)		Chlordane...	7.464	8.356	87722	33513	3.894	1.160	#
34)		Chlordane...	8.055f	9.001	337670	217539	59.157	14.384	#
35)		Chlordane...	3.760f	3.691f	6199935	18170	NoCal	NoCal	
36)		Toxaphene...	7.464	8.594f	87722	6925475	103.394	2927.018	#
37)		Toxaphene...	0.000	8.943f	0	388313	N.D.	131.106	#
38)		Toxaphene...	8.055	8.943	337670	388313	100.744	80.129	
39)		Toxaphene...	8.345f	9.001f	25448	217539	1.704	22.831	#
40)		Toxaphene...	0.000	9.210	0	8882	N.D.	BelowCal	
41)		Toxaphene...	8.611	9.600	13671	63155	4.020	13.772	#
42)		Toxaphene...	3.760	3.754f	6199935	442020	NoCal	NoCal	

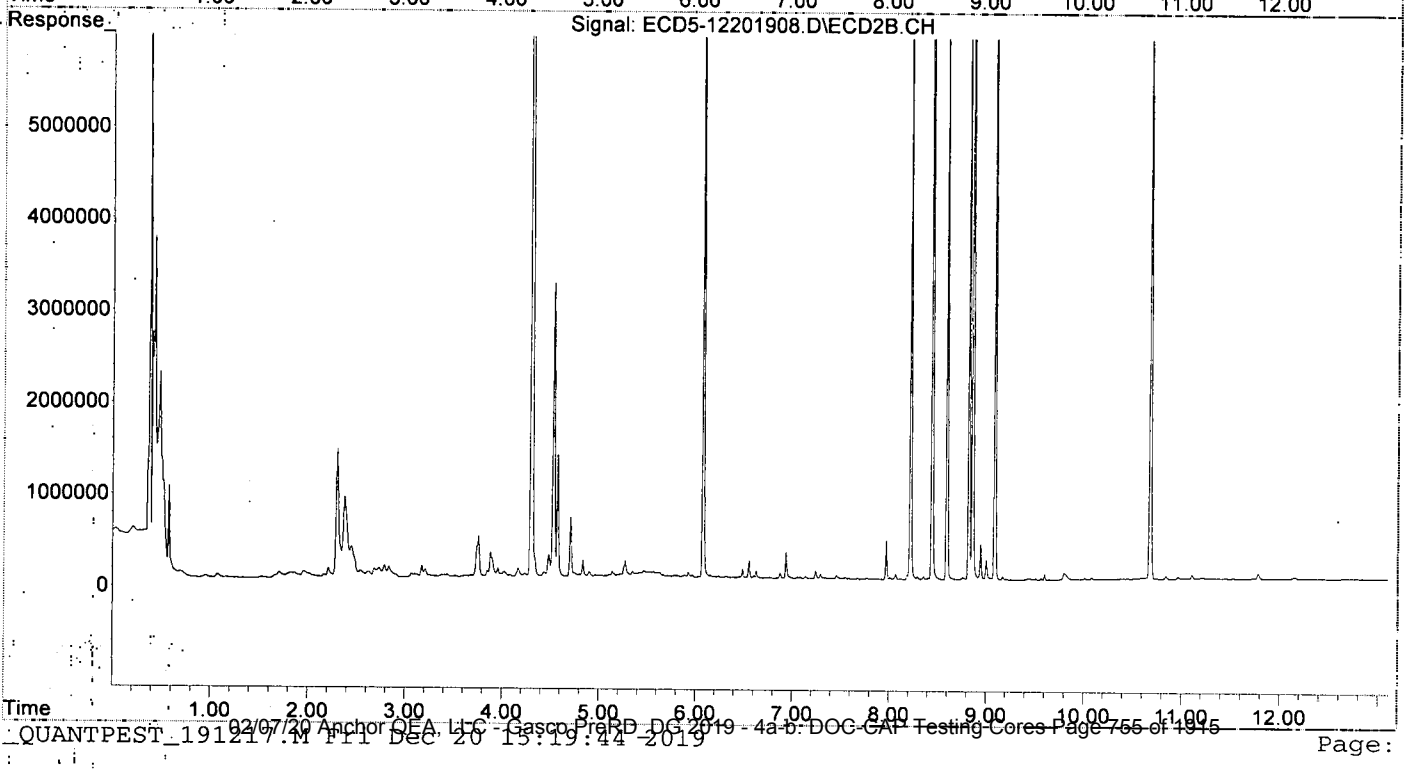
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 13:07
Operator : MJB
Sample : 9120734-BS2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC, 4,4-DDT 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: Dec 20 15:19:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 16:47
Operator : MJB
Sample : 9L20036-CCV3
Misc : A19K134, 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: Dec 20 17:01:39 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/2/2019

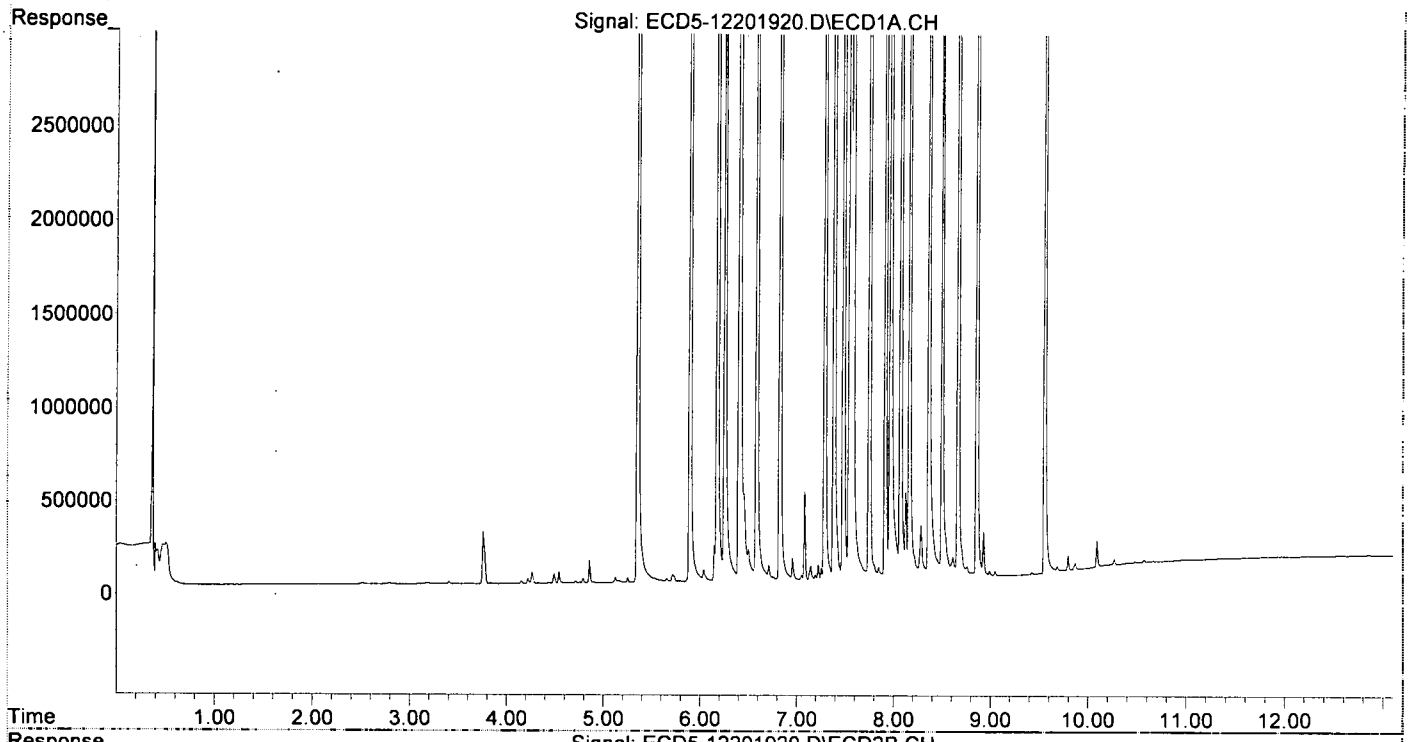
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.355	6.074	15402700	28156082	86.353	94.844	
22)	S	DCBP (S)	9.556	10.675	12644179	16190887	92.617	95.084	
		Target Compounds							
2)		a-BHC	5.895	6.683	22678090	41496780	94.467	104.277	
3)		g-BHC	6.178	7.003	18950092	35198881	93.185	103.948	
4)		b-BHC	6.254	7.064	6648734	12935124	93.773	93.339	
5)		Heptachlor	6.586	7.380	17999956	32144267	97.900	107.438	
6)		d-BHC	6.404	7.323	15321677	32587335	93.387	97.635	
7)		Aldrin	6.826	7.649	18397569	32649009	96.885	105.224	
8)		Heptachlo...	7.288	8.089	16539054	28527129	92.056	99.612	
9)		trans-Chl...	7.384	8.229	17297139	29138729	95.941	99.896	
10)		cis-Chlor...	7.481	8.337	16524868	28109542	94.384	100.159	
11)		Endosulfa...	7.578	8.389	16248403	26541847	92.456	100.981	
12)		4,4'-DDE	7.545	8.440	15416960	29379588	100.347	97.975	
13)		Dieldrin	7.750	8.591	18423484	31237386	93.862	105.159	
14)		Endrin	7.915	8.820	14022205	22177749	91.779	94.763	
15)		4,4'-DDD	7.967	8.858	12853438	24031765	94.344	99.088	
16)		Endosulfa...	8.072	8.967	13759935	24070691	90.058	101.671	
17)		4,4'-DDT	8.164	9.086	11935387	20387736	99.474	105.609	
18)		Endrin Al...	8.363	9.204	11558888	19735327	96.696	100.537	
19)		Endosulfa...	8.665	9.396	13809371	22201802	94.998	99.218	
20)		Methoxychlor	8.501	9.565	5656060	9963278	97.872	106.983	
21)		Endrin Ke...	8.859	9.800	16830181	25485773	98.335	102.425	
23)		Hexachlor...	3.169	0.000	5654	0	BelowCal	N.D.	
24)		Hexachlor...	5.719	6.555	39077	6853	0.061	0.023	#
25)		Oxychlordane	0.000	8.004	0	48411	N.D.	0.191	#
26)		2,4'-DDE	7.288	8.229	16539054	29138729	153.395	153.218	
27)		trans-Non...	7.481	8.281	16524868	154628	91.932	0.548	#
28)		2,4'-DDD	0.000	8.591	0	31237386	N.D.	184.251	#
29)		2,4'-DDT	7.847	8.820	56144	22177749	0.580	129.338	#
30)		cis-Nonac...	7.967f	8.858	12853438	24031765	62.419	75.050	
31)		Mirex	8.612	9.800	103753	25485773	0.628	144.007	#
32)		Chlordane...	7.384	8.229	17297139	29138729	905.289	858.030	
33)		Chlordane...	7.481	8.337	16524868	28109542	733.512	973.091	
34)		Chlordane...	8.072f	9.000	13759935	278575	2410.630	22.264	#
35)		Chlordane...	3.758f	0.000	276831	0	NoCal	N.D.	
36)		Toxaphene...	7.481	8.591f	16524868	31237386	15575.366	13202.329	
37)		Toxaphene...	7.750	0.000	18423484	0	14036.474	N.D.	#
38)		Toxaphene...	8.072	8.967	13759935	24070691	3529.579	4967.035	#
39)		Toxaphene...	8.284f	9.041	275358	146267	81.301	12.530	#
40)		Toxaphene...	8.501f	9.204	5656060	19735327	2232.418	3762.205	#
41)		Toxaphene...	8.612	9.565f	103753	9963278	30.509	2172.691	#
42)		Toxaphene...	3.758	0.000	276831	0	NoCal	N.D.	

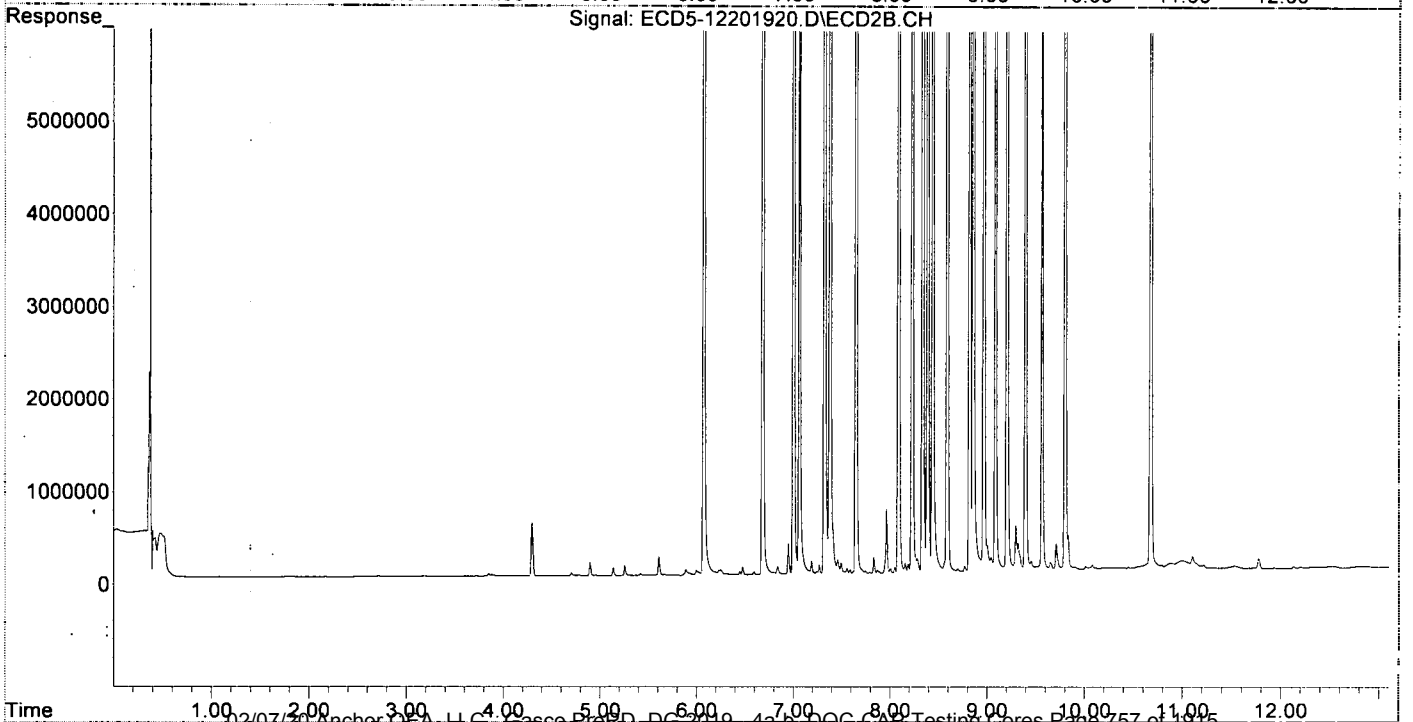
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 16:47
Operator : MJB
Sample : 9L20036-CCV3
Misc : A19K134, 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: Dec 20 17:01:39 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 17:04
Operator : MJB
Sample : 9L20036-CCV4
Misc : A19J409, 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: Dec 20 17:19:38 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/20/19

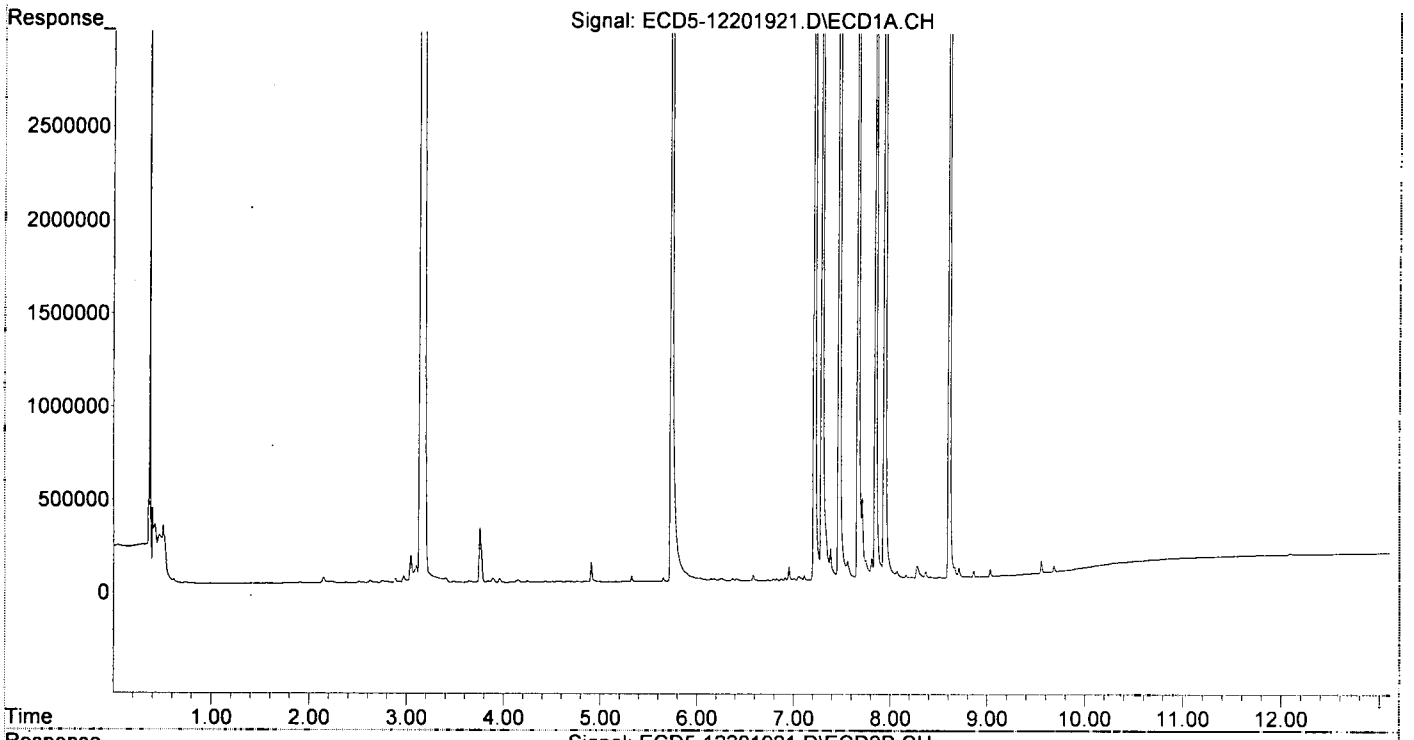
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.327f	6.074	30712	9997	0.172	0.034	#
22)	S	DCBP (S)	9.557	10.676	66015	72378	0.285	0.425	#
		Target Compounds							
2)		a-BHC	0.000	6.681	0	38925	N.D.	0.098	#
3)		g-BHC	6.179	7.002	13590	15886	0.067	0.047	
4)		b-BHC	6.260	7.066	12651	20553	0.178	0.148	
5)		Heptachlor	6.585	7.379	31819	52825	0.173	0.177	
6)		d-BHC	6.411	7.323	12286	26413	0.055	0.048	
7)		Aldrin	6.827	7.647	9891	19047	0.052	0.061	
8)		Heptachlo...	7.293	8.085	9668711	92210	53.816	0.322	#
9)		trans-Chl...	7.383	8.218	168159	18103980	0.933	62.066	#
10)		cis-Chlor...	7.472	0.000	15265724	0	87.517	N.D.	#
11)		Endosulfa...	7.561f	8.396	100884	125717	0.574	0.478	
12)		4,4'-DDE	7.561	0.000	100884	0	0.657	N.D.	#
13)		Dieldrin	0.000	8.593	0	15731045	N.D.	52.958	#
14)		Endrin	7.943f	8.819	17964713	16016799	117.584	71.032	
15)		4,4'-DDD	7.943f	8.861	17964713	30418186	126.576	121.267	
16)		Endosulfa...	8.074	8.966	40837	52697	0.267	0.223	
17)		4,4'-DDT	8.165	9.085	17750	23627	0.163	0.380	#
18)		Endrin Al...	8.368	9.204	34911	36122	0.292	0.184	
19)		Endosulfa...	0.000	9.395	0	38312	N.D.	BelowCal	
20)		Methoxychlor	8.504	9.566	5544	9433	0.180	0.262	#
21)		Endrin Ke...	8.861	9.795	33987	15612486	BelowCal	66.594	
23)		Hexachlor...	3.148	3.755	11026492	26014646	67.365	71.825	
24)		Hexachlor...	5.736	6.543	14161136	27466503	83.818	93.736	
25)		Oxychlordane	7.216	8.016	12992312	23757464	85.737	93.904	
26)		2,4'-DDE	7.293	8.218	9668711	18103980	89.675	95.195	
27)		trans-Non...	7.472	8.292	15265724	26277455	84.927	93.141	
28)		2,4'-DDD	7.667	8.593	8493302	15731045	86.380	92.788	
29)		2,4'-DDT	7.849	8.819	9370771	16016799	96.845	98.842	
30)		cis-Nonac...	7.943	8.861	17964713	30418186	87.241	94.995	
31)		Mirex	8.609	9.795	10511675	15612486	87.670	92.940	
32)		Chlordane...	7.383	8.218	168159	18103980	8.801	533.097	#
33)		Chlordane...	7.472	0.000	15265724	0	677.620	N.D.	#
34)		Chlordane...	0.000	9.004	0	156535	N.D.	6.499	#
35)		Chlordane...	3.757	3.755f	288394	26014646	NoCal	NoCal	
36)		Toxaphene...	7.472	8.593f	15265724	15731045	14594.475	6648.650	#
37)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
38)		Toxaphene...	8.074	8.966	40837	52697	9.524	10.874	
39)		Toxaphene...	8.280f	9.004f	66154	156535	14.712	14.016	
40)		Toxaphene...	8.504f	9.204	5544	36122	2.188	5.708	#
41)		Toxaphene...	8.609	9.566f	10511675	9433	3091.001	2.057	#
42)		Toxaphene...	3.757	3.755f	288394	26014646	NoCal	NoCal	

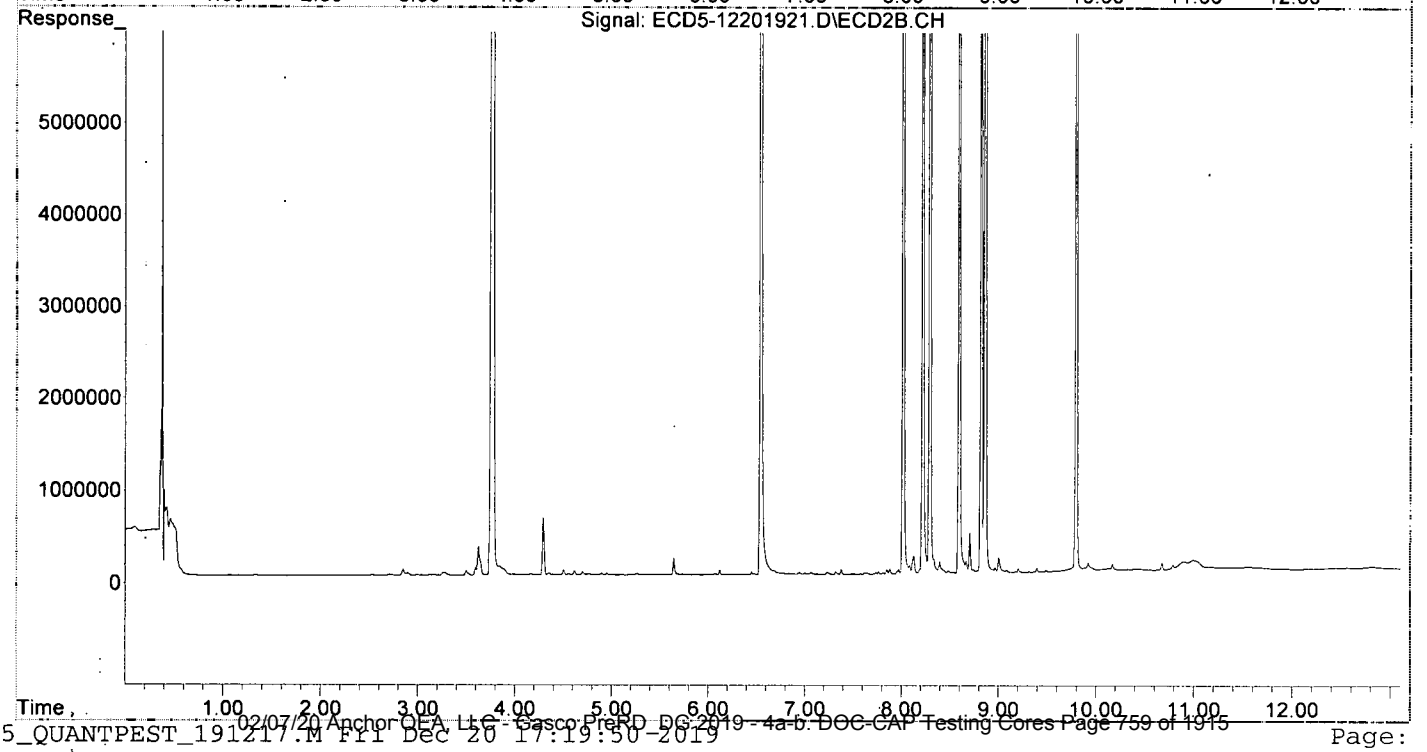
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 17:04
Operator : MJB
Sample : 9L20036-CCV4
Misc : A19J409, 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: Dec 20 17:19:38 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 17:22
Operator : MJB
Sample : 9L20036-CCB2
Misc : A19L018
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: Dec 20 17:37:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/20/19

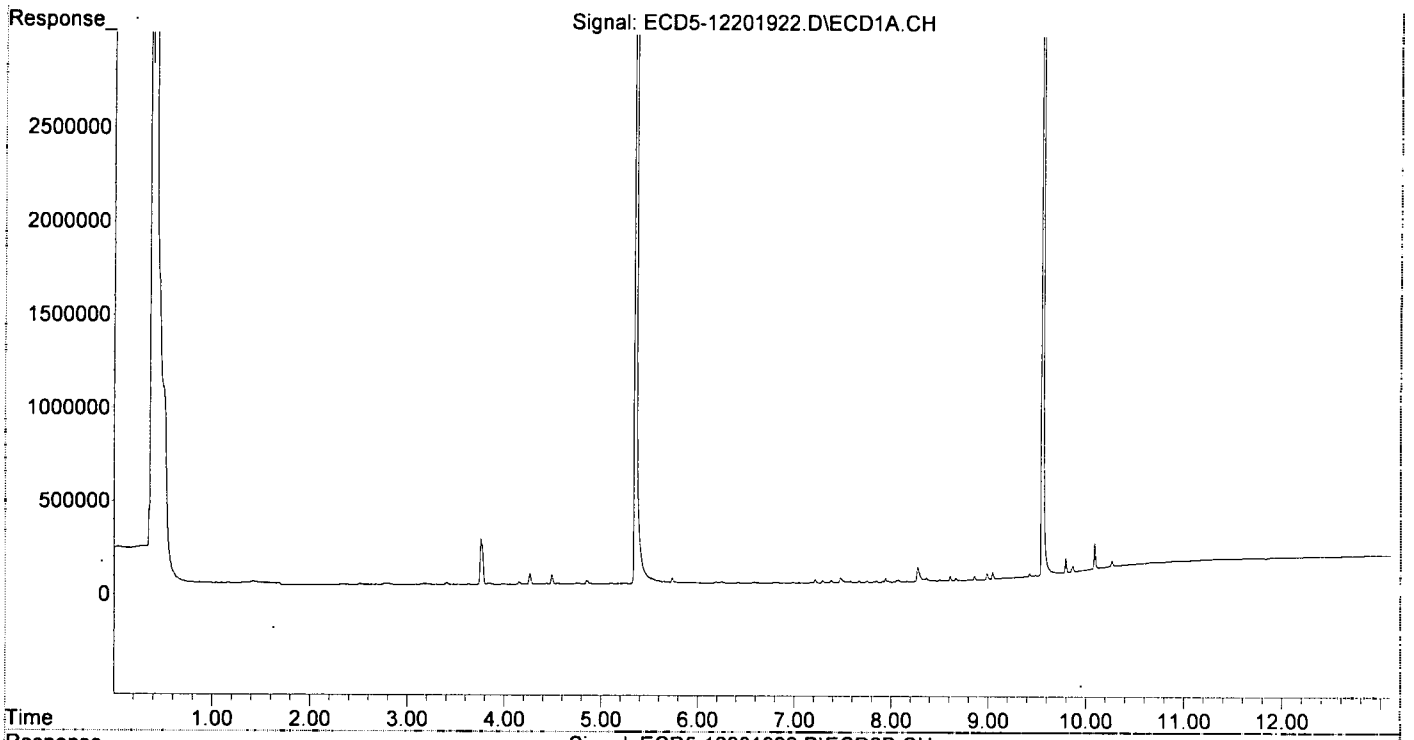
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.355	6.074	15151120	27945893	84.942	94.136	
22)	S	DCBP (S)	9.556	10.676	12153869	15615365	89.116	91.704	
		Target Compounds							
2)		a-BHC	5.895	0.000	3843	0	0.016	N.D.	#
3)		g-BHC	6.189	7.002	5786	8560	0.028	0.025	
4)		b-BHC	6.244	7.068	7209	7950	0.102	0.057	#
5)		Heptachlor	6.586	7.380	5184	8283	0.028	0.028	
6)		d-BHC	6.413	7.323	4611	11645	BelowCal	BelowCal	
7)		Aldrin	6.827	7.652	4748	20421	0.025	0.066	#
8)		Heptachlo...	7.293	8.088	13311	10716	0.074	0.037	#
9)		trans-Chl...	7.384	8.238	12327	42296	0.068	0.145	#
10)		cis-Chlor...	7.477	8.336	26913	11904	BelowCal	0.042	
11)		Endosulfa...	7.580	8.388	8249	11309	0.047	0.043	
12)		4,4'-DDE	7.545	8.440	6167	5650	0.040	BelowCal	#
13)		Dieldrin	7.752	8.592	8310	28701	0.042	0.097	#
14)		Endrin	7.916	8.819	7298	27030	0.048	0.070	#
15)		4,4'-DDD	7.971	8.859	5658	41624	BelowCal	0.043	
16)		Endosulfa...	8.074	8.967	11751	18249	0.077	0.077	
17)		4,4'-DDT	8.164	9.086	3378	9417	0.004	0.282	#
18)		Endrin Al...	8.365	9.204	19926	18834	0.167	0.096	#
19)		Endosulfa...	8.667	9.395	14713	20870	BelowCal	BelowCal	
20)		Methoxychlor	8.501	0.000	8211	0	0.236	N.D.	#
21)		Endrin Ke...	8.861	9.798	18932	53090	BelowCal	0.048	
23)		Hexachlor...	3.167	0.000	4717	0	BelowCal	N.D.	
24)		Hexachlor...	5.737	6.545	27618	14996	BelowCal	0.051	
25)		Oxychlordane	7.216	8.016	19852	21801	BelowCal	0.086	
26)		2,4'-DDE	7.293	8.238	13311	42296	0.123	0.222	#
27)		trans-Non...	7.477	8.291	26913	28586	0.150	0.101	
28)		2,4'-DDD	7.669	8.592	10442	28701	0.106	0.169	#
29)		2,4'-DDT	7.849	8.819	8686	27030	0.090	0.113	
30)		cis-Nonac...	7.943	8.859	21728	41624	0.106	0.130	
31)		Mirex	8.609	9.798	26131	53090	BelowCal	BelowCal	
32)		Chlordane...	7.384	8.238	12327	42296	0.645	1.245	#
33)		Chlordane...	7.477	8.336	26913	11904	1.195	0.412	#
34)		Chlordane...	0.000	9.002	0	166844	N.D.	7.832	#
35)		Chlordane...	3.758	0.000	237518	0	NoCal	N.D.	
36)		Toxaphene...	7.477	8.592f	26913	28701	29.685	12.130	#
37)		Toxaphene...	7.752	8.944f	8310	12922	1.574	4.363	#
38)		Toxaphene...	8.074	8.967	11751	18249	0.534	3.766	#
39)		Toxaphene...	8.276f	9.002f	77814	166844	18.435	15.507	
40)		Toxaphene...	8.542	9.204	3204	18834	1.264	1.380	
41)		Toxaphene...	8.609	0.000	26131	0	7.684	N.D.	#
42)		Toxaphene...	3.758	0.000	237518	0	NoCal	N.D.	

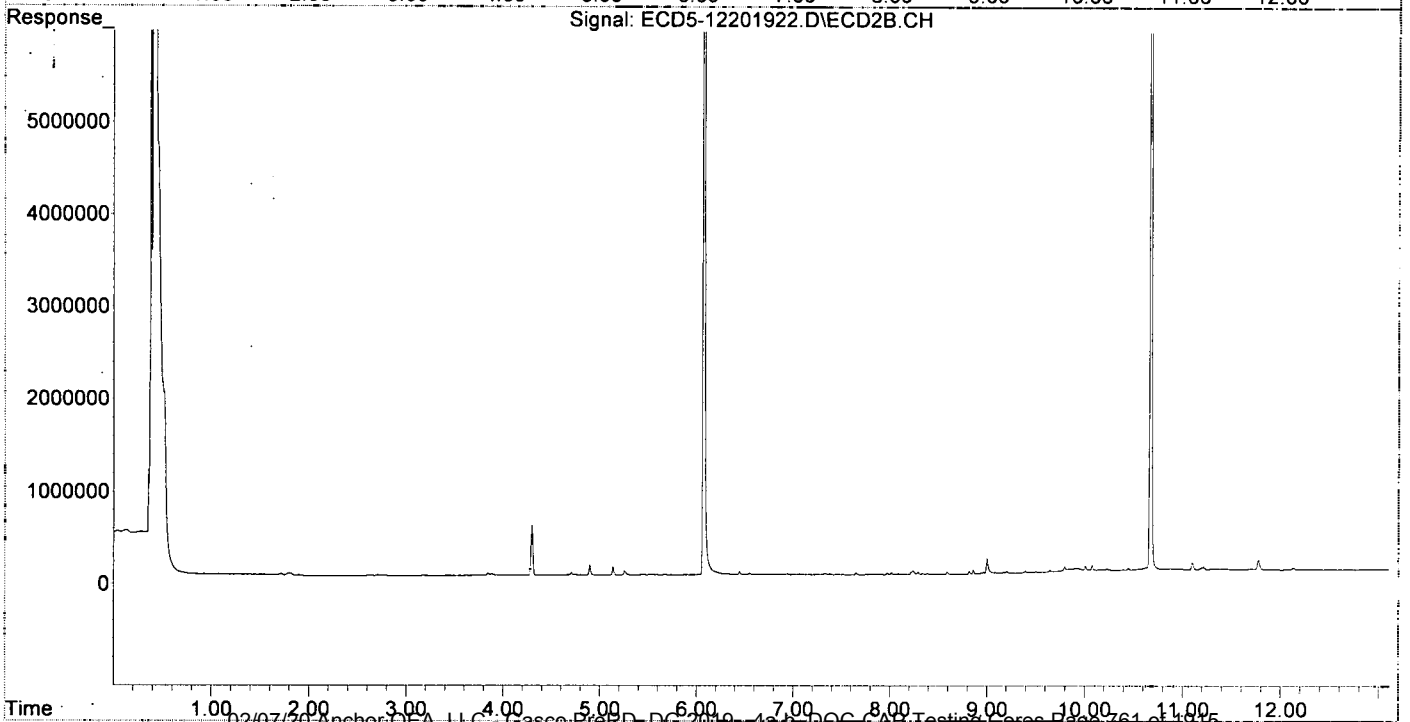
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 17:22
Operator : MJB
Sample : 9L20036-CCB2
Misc : A19L018
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: Dec 20 17:37:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 21:43
Operator : MJB
Sample : A9J0514-18RE1@5
Misc : 5x, 8081B 2,4-4,4-DDx, GPC
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: Dec 21 15:43:54 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

R-04

MJB 12/21/19

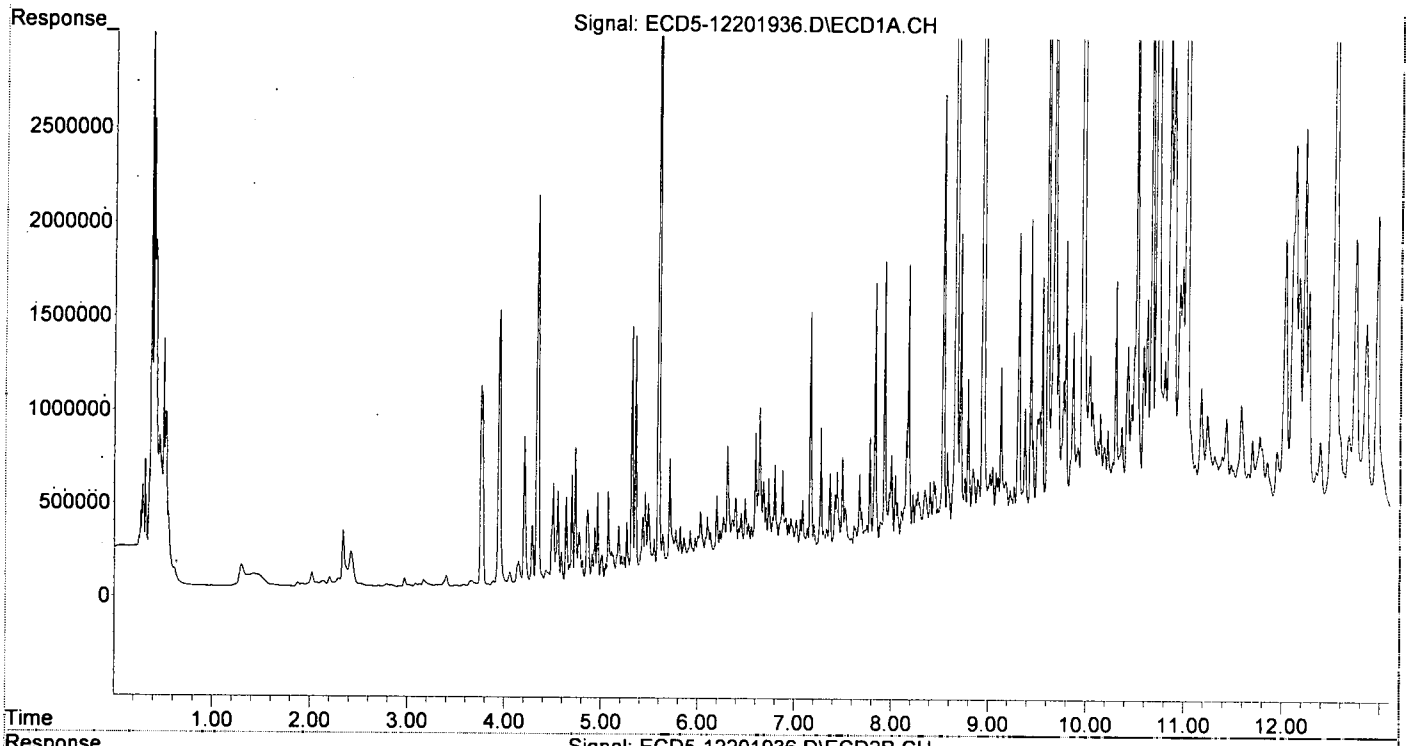
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.357	6.076	1267629	2312832	7.107	7.791
22) S	DCBP (S)	9.553	10.679	1369108	2291188	10.104	~~13.455~~ S-04
	Target Compounds						
2)	a-BHC	5.922f	6.680	200134	329462	0.834	0.828
3)	g-BHC	6.197	7.024	375465	325095	1.846	0.960 #
4)	b-BHC	6.267	7.081	255388	798090	3.602	5.759 #
5)	Heptachlor	6.599	7.400	693356	818410	3.771	2.735
6)	d-BHC	6.422	7.342	187953	1330273	1.330	4.667 #
7)	Aldrin	6.798f	7.639	513645	373072	2.705	1.202 #
8)	Heptachlo...	7.275	8.072	684869	286185	3.812	0.999 #
9)	trans-Chl...	7.368	8.239	439013	1054036	2.435	3.614 #
10)	cis-Chlor...	7.497	8.361f	516953	1045735	2.931	3.726
11)	Endosulfa...	7.589	8.361f	75947	1045735	0.432	3.979 #
12)	4,4'-DDE	7.539	8.448	169726	533163	1.105m MDL CURE	2.044m # P-01
13)	Dieldrin	7.751	8.568f	143502	2748888	0.731	9.254 #
14)	Endrin	7.932	8.828	1536550	364152	10.057	1.754 #
15)	4,4'-DDD	7.980	8.856	306919	848609	2.391m R-02	3.954 # P-01
16)	Endosulfa...	8.106f	8.951	201214	788279	1.317	3.330 #
17)	4,4'-DDT	8.177	9.096	1500083	1150036	15.708	7.986 # R-02
18)	Endrin Al...	8.349	9.212	300993	986037	2.518	5.023 #
19)	Endosulfa...	8.668	9.410	14209672	2929033	97.580	14.780 #
20)	Methoxychlor	8.481f	9.559	195810	504981	4.131	6.941 #
21)	Endrin Ke...	8.843	9.790	393933	1507459	2.250	6.990 #
23)	Hexachlor...	3.168	3.752	36265	159613	0.057	0.441 #
24)	Hexachlor...	5.710f	6.539	600400	443180	3.690	1.512 #
25)	Oxychlordane	7.202	8.006	171397	1549727	1.018	6.125 #
26)	2,4'-DDE	7.286	8.227	202932	443954	1.882m MDL CURE	2.334m R-01
27)	trans-Non...	7.497f	8.307	516953	829770	2.876	2.941
28)	2,4'-DDD	7.674	8.586	417302	448012	4.244	2.643m P-02
29)	2,4'-DDT	7.842	8.828	608598	364152	6.290m	2.664 # R-02
30)	cis-Nonac...	7.932	8.856	1536550	848609	7.462	2.650 #
31)	Mirex	8.579f	9.790	494064	1507459	3.948	9.524 #
32)	Chlordane...	7.368f	8.239	439013	1054036	22.977	31.038
33)	Chlordane...	7.497	8.361	516953	1045735	22.947	36.201 #
34)	Chlordane...	8.043	8.994	395810	403101	69.343	38.312 #
35)	Chlordane...	3.762f	3.694f	1055766	15272	NoCal	NoCal
36)	Toxaphene...	7.442f	8.568	439413	2748888	525.814	1161.804 #
37)	Toxaphene...	7.751	8.894f	143502	2378404	86.339	803.018 #
38)	Toxaphene...	8.043f	8.951	395810	788279	118.499	162.663
39)	Toxaphene...	8.349f	9.039	300993	260979	89.430	29.098 #
40)	Toxaphene...	8.537	9.212	2408000	986037	950.425	238.936 #
41)	Toxaphene...	8.579f	9.598	494064	2974048	145.281	648.550 #
42)	Toxaphene...	3.762f	3.752f	1055766	159613	NoCal	NoCal

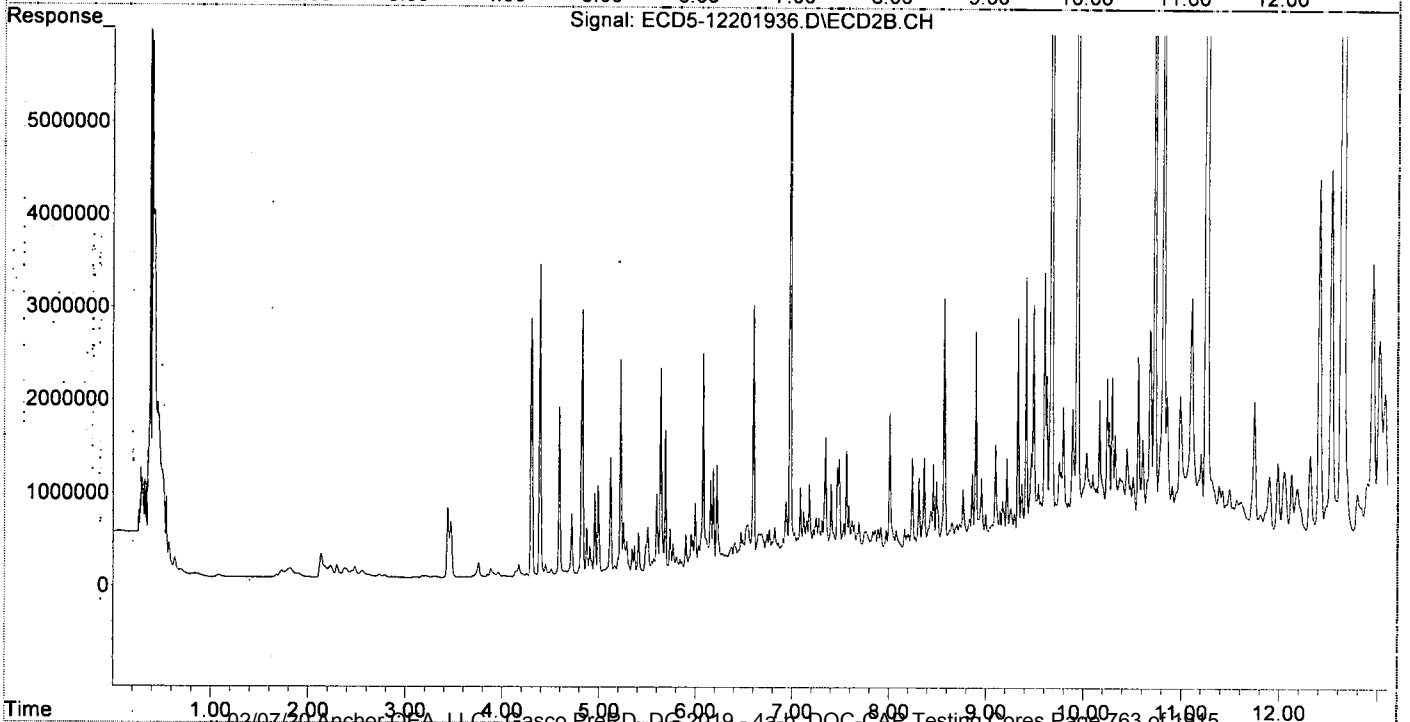
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 21:43
Operator : MJB
Sample : A9J0514-18RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 15:43:54 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

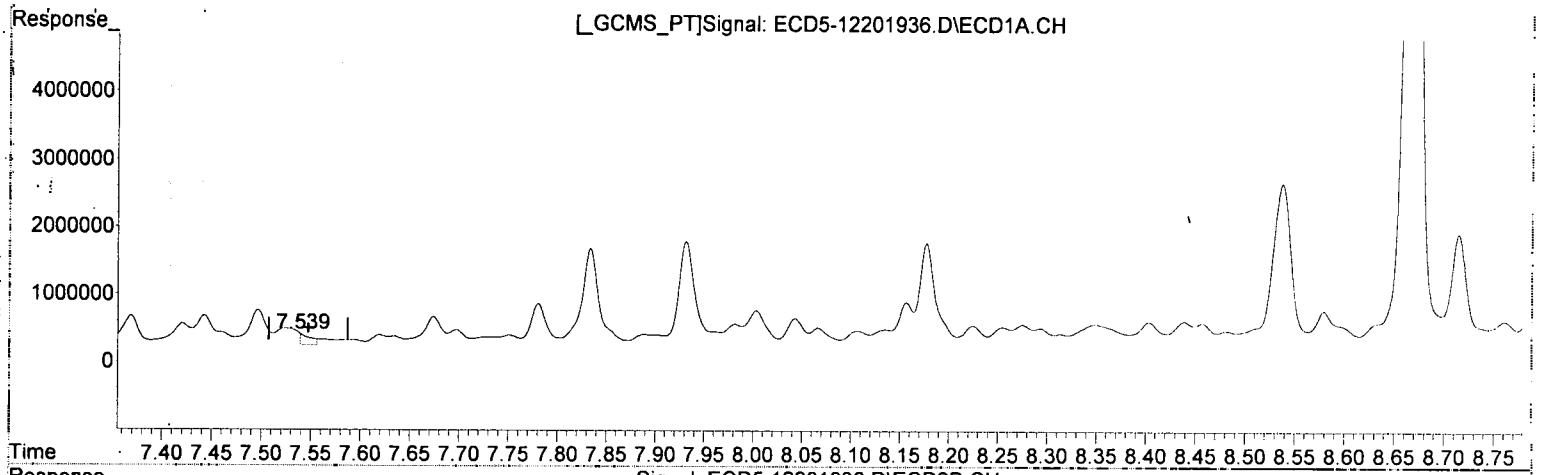


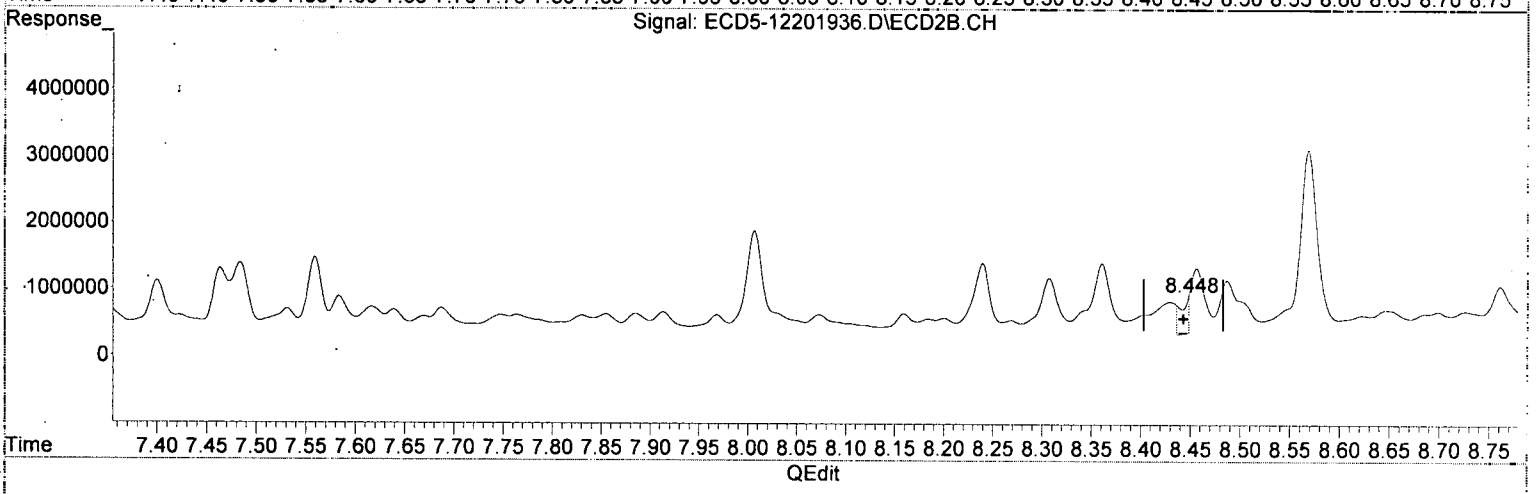


Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 21:43
Operator : MJB
Sample : A9J0514-18RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(12) 4,4'-DDE

7.539min 1.105 ng/mL (m) MDL-MRL

response 169726

MJB 12/25/19 12/21/19

MJB 12/21/19

(12) 4,4'-DDE #2

8.448min 2.044 ng/mL (m) RT-51

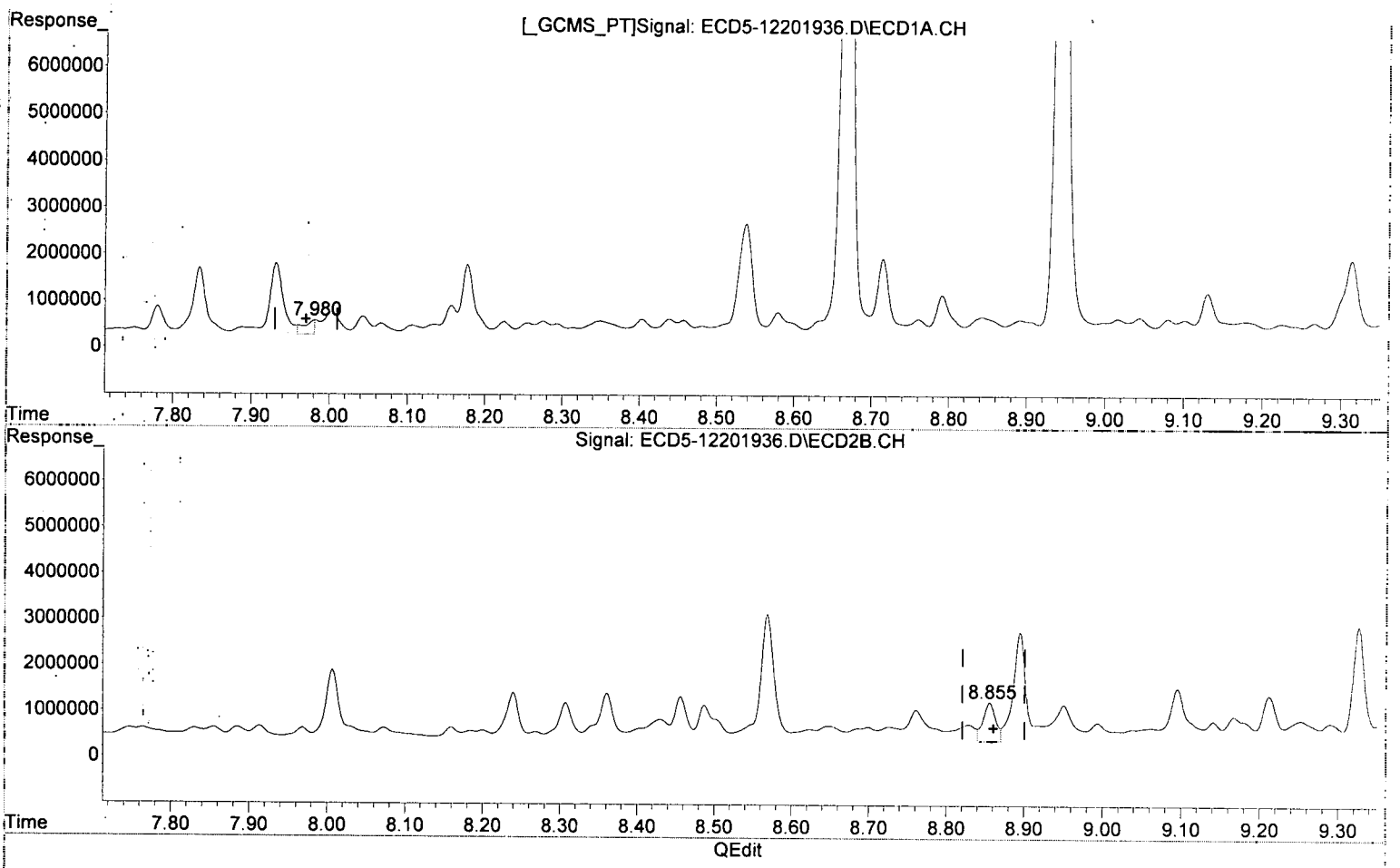
response 533163

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 21:43
Operator : MJB
Sample : A9J0514-18RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.980min 2.391 ng/mL (m) R.02

response 306919

MJB 12/21/19

(15) 4,4'-DDD #2

8.856min 3.954 ng/mL P.01

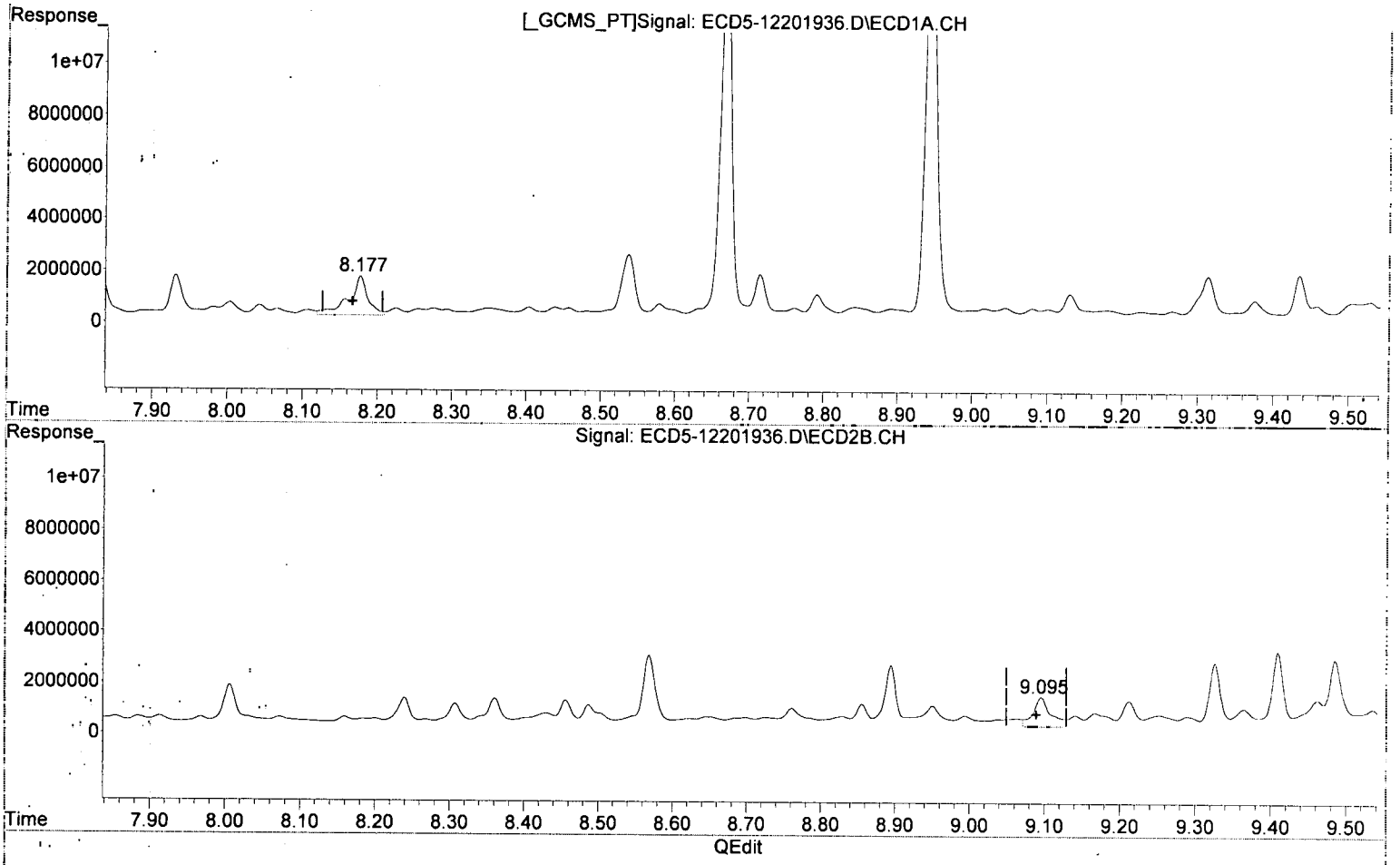
response 848609

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 21:43
Operator : MJB
Sample : A9J0514-18RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.177min 15.708 ng/mL

response 1500083

MJB 12/21/19

(17) 4,4'-DDT #2

9.096min 7.986 ng/mL R=2

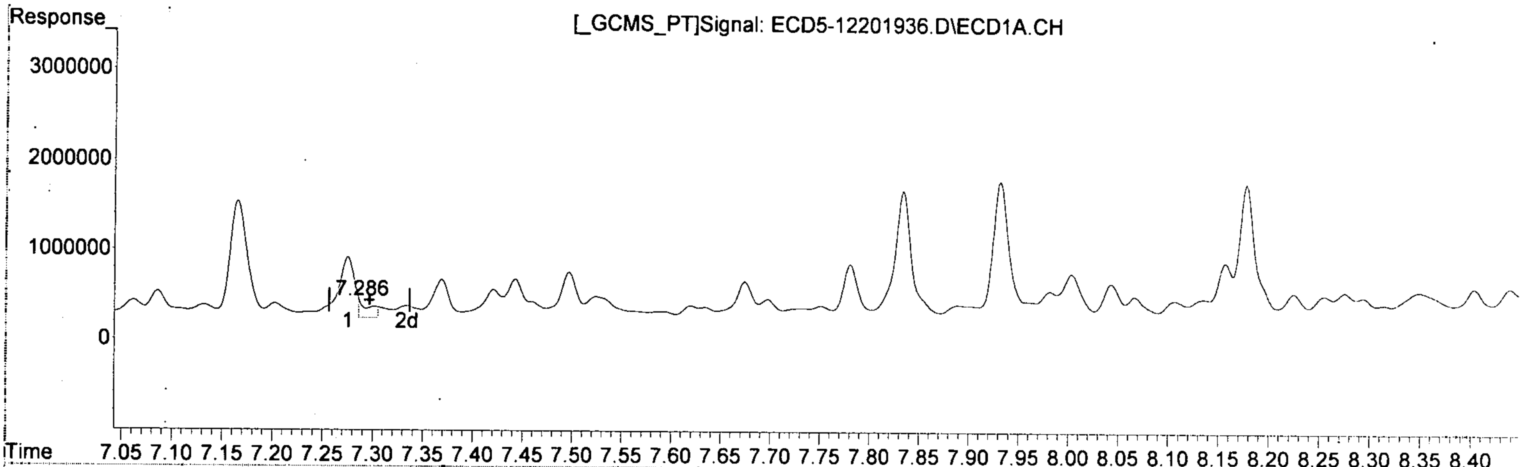
response 1150036

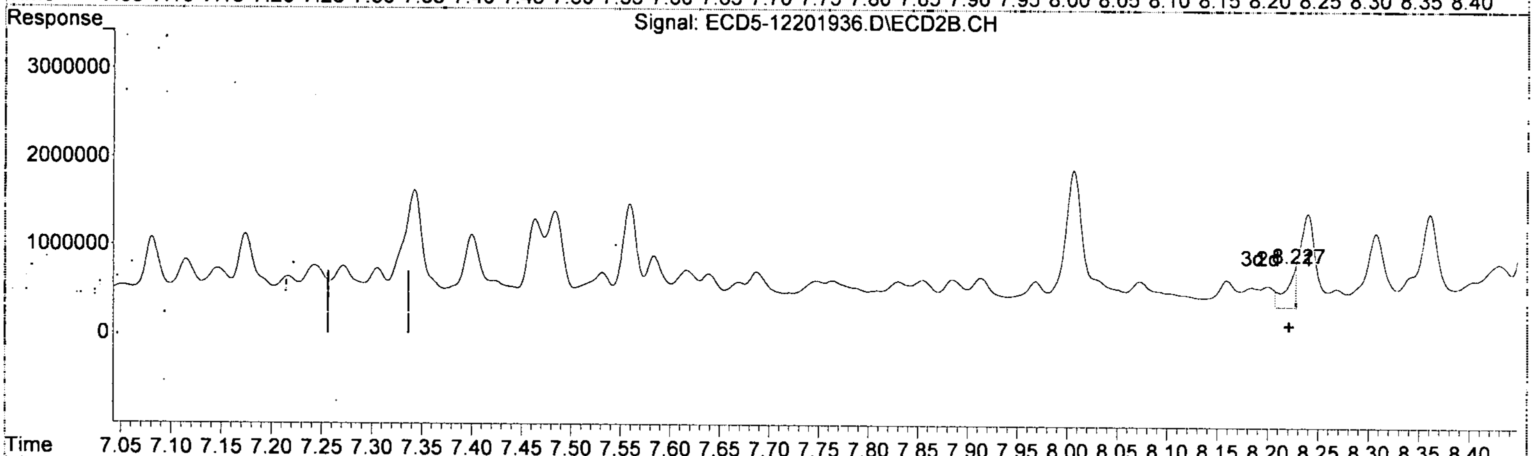
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 21:43
Operator : MJB
Sample : A9J0514-18RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(26) 2,4'-DDE

7.286min 1.882 ng/mL m MDL=MRL

response 202932

(26) 2,4'-DDE #2

8.227min 2.334 ng/mL m P-21

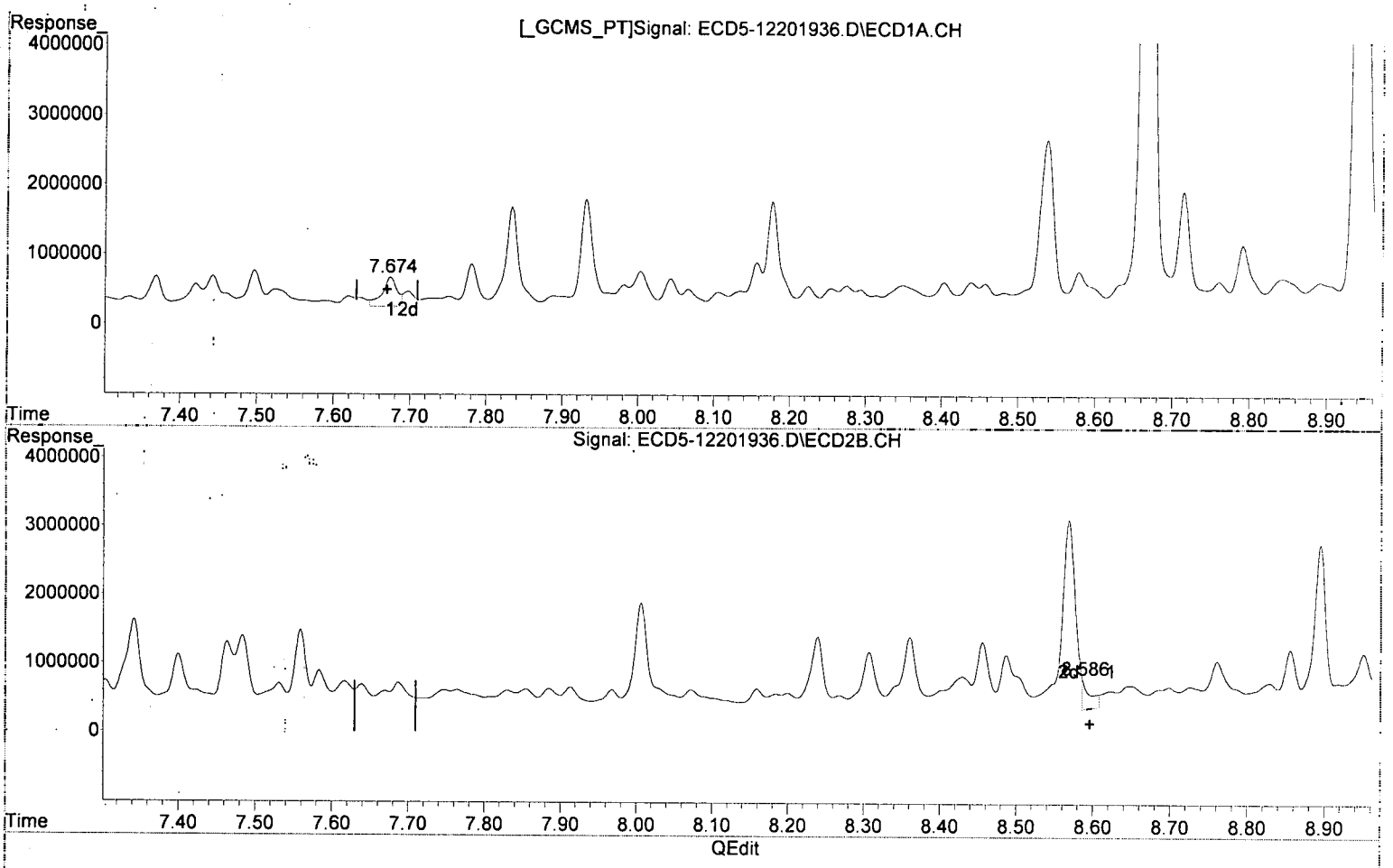
response 443954

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 21:43
Operator : MJB
Sample : A9J0514-18RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.674min 4.244 ng/mL

response 417302

MJB 12/21/19

(28) 2,4'-DDD #2

8.586min 2.643 ng/mL mjb 12/21/19

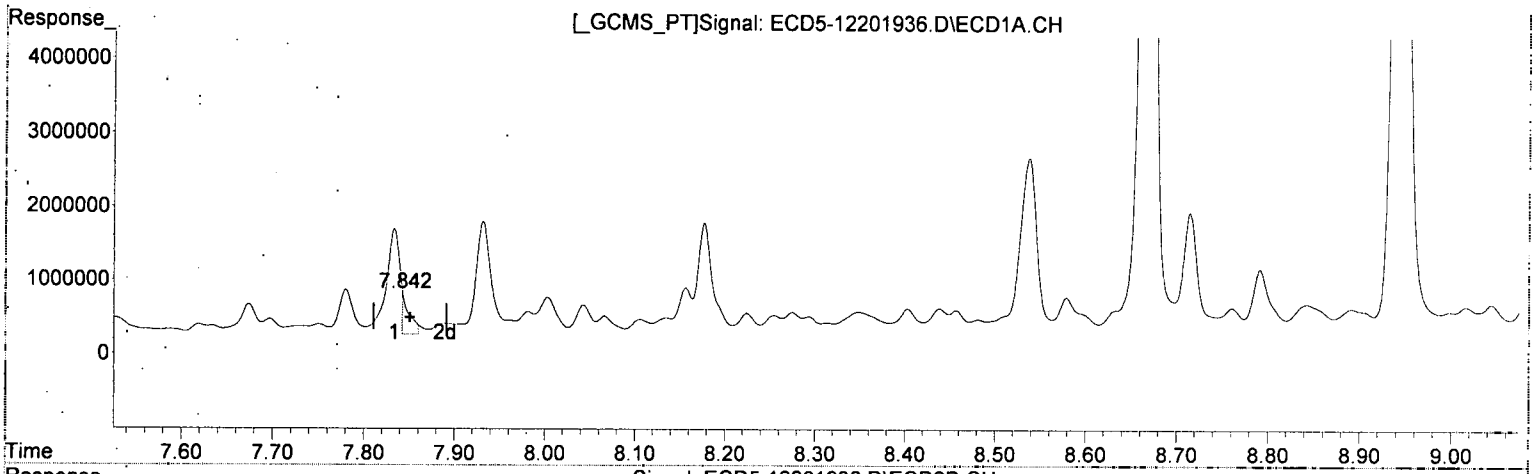
response 448012

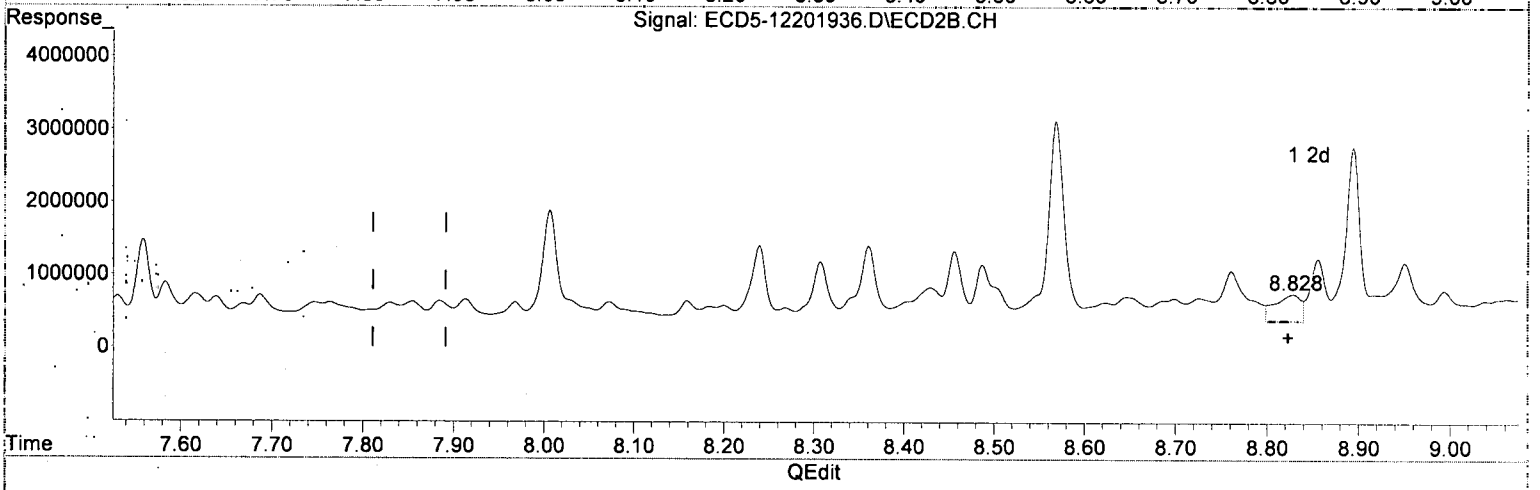
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 21:43
Operator : MJB
Sample : A9J0514-18RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(29) 2,4'-DDT

7.842min 6.290 ng/mL (m)

response 608598

MJB 12/21/19

(29) 2,4'-DDT #2

8.828min 2.664 ng/mL P-02

response 364152

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 21:43
Operator : MJB
Sample : A9J0514-18RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJ 12/21/19

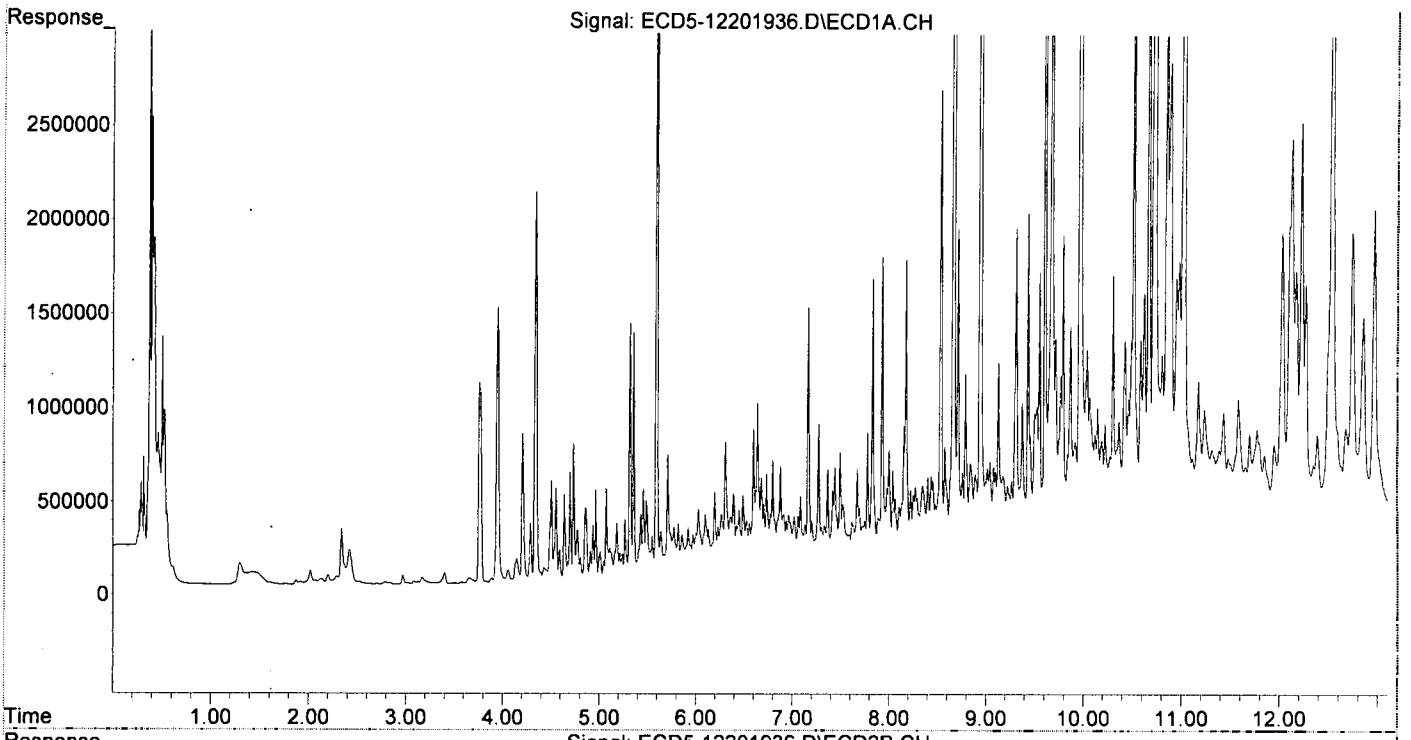
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.357	6.076	1267629	2312832	7.107	7.791	
22)	S	DCBP (S)	9.553	10.679	1369108	2291188	10.104	13.455	
		Target Compounds							
2)		a-BHC	5.922f	6.680	200134	329462	0.834	0.828	
3)		g-BHC	6.197	7.024	375465	325095	1.846	0.960	#
4)		b-BHC	6.267	7.081	255388	798090	3.602	5.759	#
5)		Heptachlor	6.599	7.400	693356	818410	3.771	2.735	
6)		d-BHC	6.422	7.342	187953	1330273	1.330	4.667	#
7)		Aldrin	6.798f	7.639	513645	373072	2.705	1.202	#
8)		Heptachlo...	7.275	8.072	684869	286185	3.812	0.999	#
9)		trans-Chl...	7.368	8.239	439013	1054036	2.435	3.614	#
10)		cis-Chlor...	7.497	8.361f	516953	1045735	2.931	3.726	
11)		Endosulfa...	7.589	8.361f	75947	1045735	0.432	3.979	#
12)		4,4'-DDE	7.525f	8.430	243269	469642	1.583	1.794	
13)		Dieldrin	7.751	8.568f	143502	2748888	0.731	9.254	#
14)		Endrin	7.932	8.828	1536550	364152	10.057	1.754	#
15)		4,4'-DDD	8.003f	8.856	504096	848609	4.029	3.954	
16)		Endosulfa...	8.106f	8.951	201214	788279	1.317	3.330	#
17)		4,4'-DDT	8.177	9.096	1500083	1150036	15.708	7.986	#
18)		Endrin Al...	8.349	9.212	300993	986037	2.518	5.023	#
19)		Endosulfa...	8.668	9.410	14209672	2929033	97.580	14.780	#
20)		Methoxychlor	8.481f	9.559	195810	504981	4.131	6.941	#
21)		Endrin Ke...	8.843	9.790	393933	1507459	2.250	6.990	#
23)		Hexachlor...	3.168	3.752	36265	159613	0.057	0.441	#
24)		Hexachlor...	5.710f	6.539	600400	443180	3.690	1.512	#
25)		Oxychlordane	7.202	8.006	171397	1549727	1.018	6.125	#
26)		2,4'-DDE	7.275f	8.239	684869	1054036	6.352	5.542	
27)		trans-Non...	7.497f	8.307	516953	829770	2.876	2.941	
28)		2,4'-DDD	7.674	8.623f	417302	257092	4.244	1.516	#
29)		2,4'-DDT	7.834	8.828	1427052	364152	14.748	2.664	#
30)		cis-Nonac...	7.932	8.856	1536550	848609	7.462	2.650	#
31)		Mirex	8.579f	9.790	494064	1507459	3.948	9.524	#
32)		Chlordane...	7.368f	8.239	439013	1054036	22.977	31.038	
33)		Chlordane...	7.497	8.361	516953	1045735	22.947	36.201	#
34)		Chlordane...	8.043	8.994	395810	403101	69.343	38.312	#
35)		Chlordane...	3.762f	3.694f	1055766	15272	NoCal	NoCal	
36)		Toxaphene...	7.442f	8.568	439413	2748888	525.814	1161.804	#
37)		Toxaphene...	7.751	8.894f	143502	2378404	86.339	803.018	#
38)		Toxaphene...	8.043f	8.951	395810	788279	118.499	162.663	
39)		Toxaphene...	8.349f	9.039	300993	260979	89.430	29.098	#
40)		Toxaphene...	8.537	9.212	2408000	986037	950.425	238.936	#
41)		Toxaphene...	8.579f	9.598	494064	2974048	145.281	648.550	#
42)		Toxaphene...	3.762f	3.752f	1055766	159613	NoCal	NoCal	

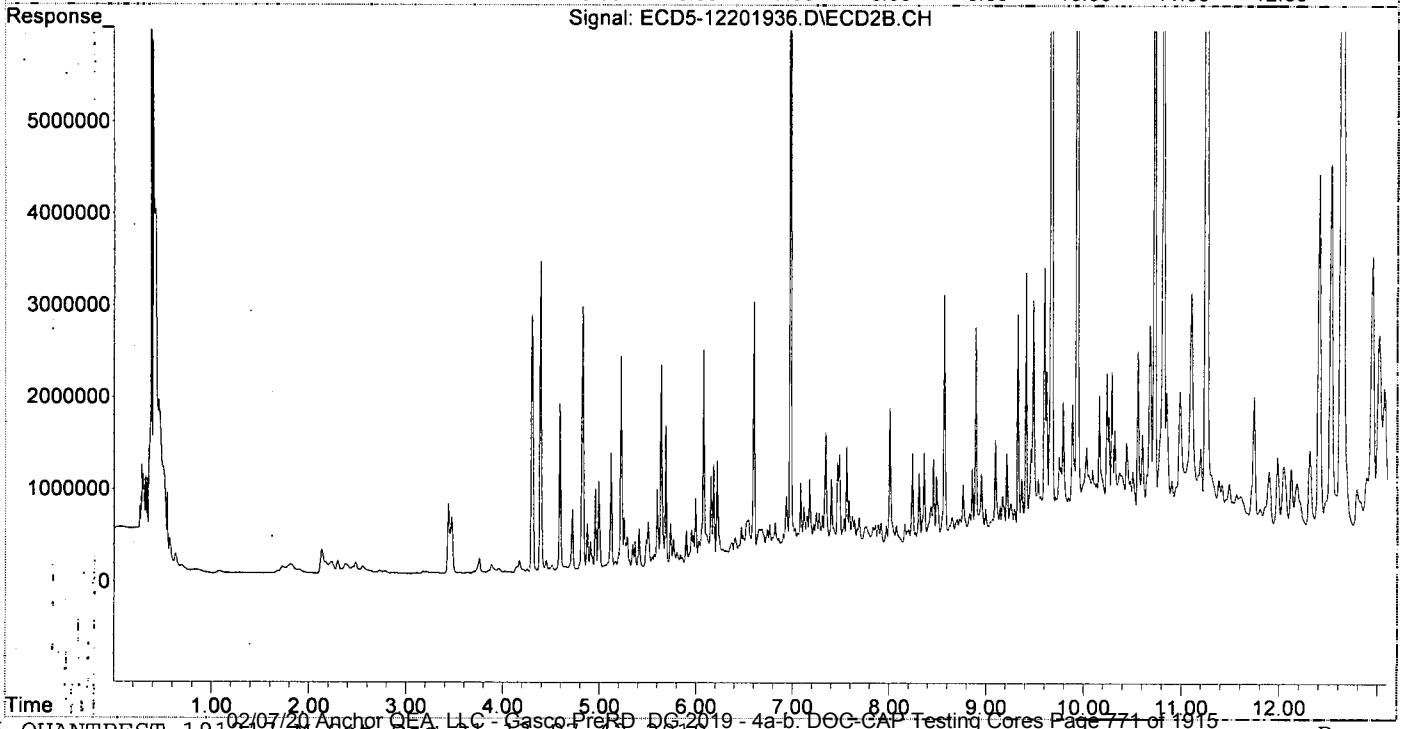
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 21:43
Operator : MJB
Sample : A9J0514-18RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:21
Operator : MJB
Sample : 9120734-MS1(5)
Misc : 5x, 8081B 2,4+4,4-DDx, 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: Dec 21 15:48:19 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

R-04

MJB 12/12/19

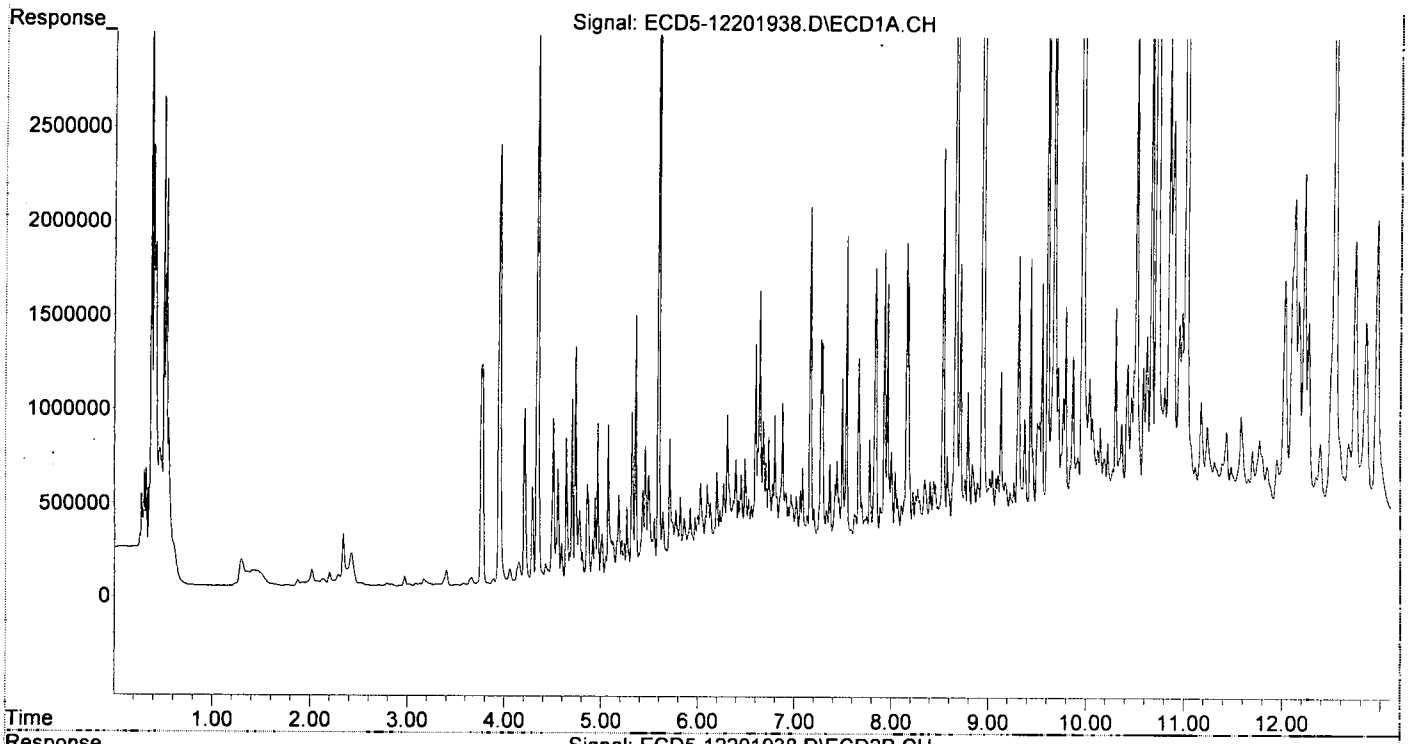
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.357	6.075	1408341	2318139	7.896	7.809	
22)	S DCBP (S)	9.554	10.678	1508969	2319677	11.155	~~13.623~~	S-04
	Target Compounds							
2)	a-BHC	5.921f	6.697	376248	422558	1.567	1.062	
3)	g-BHC	6.197	7.021	562663	477401	2.767	1.410	#
4)	b-BHC	6.267	7.080	498374	1114907	7.029	8.045	
5)	Heptachlor	6.598	7.399	1234245	1557359	6.713	5.205	
6)	d-BHC	6.394	7.342	628117	2435249	4.495	8.518	#
7)	Aldrin	6.797f	7.639	848078	633674	4.466	2.042	#
8)	Heptachlo...	7.290	8.072	1243708	389902	6.922	1.361	#
9)	trans-Chl...	7.367f	8.238	585227	1066850	3.246	3.657	
10)	cis-Chlor...	7.495	8.360f	1034401	989416	6.041	3.525	#
11)	Endosulfa...	7.585	8.404	228978	388874	1.303 MDL NPL	1.480	
12)	4,4'-DDE	7.540	8.437	1779381	2894466	11.582	11.152	
13)	Dieldrin	7.749	8.590	299338	1550109	1.525	5.218	#
14)	Endrin	7.931	8.817	1714121	1681518	11.219	8.237	
15)	4,4'-DDD	7.962	8.855	1529583	2746471	12.426 R-02	12.941	
16)	Endosulfa...	8.107f	8.951	350481	868121	2.294	3.667	#
17)	4,4'-DDT	8.159	9.085	1742116	2086630	18.113	14.050 R-02	
18)	Endrin Al...	8.347	9.212	485126	976745	4.058	4.976	
19)	Endosulfa...	8.667	9.410	12172137	2625079	84.345	13.253	#
20)	Methoxychlor	8.537f	9.556	2251068	486643	43.203	6.698	#
21)	Endrin Ke...	8.840f	9.790	558627	1396014	3.286	6.464	#
23)	Hexachlor...	3.169	3.753	38094	231215	0.069	0.638	#
24)	Hexachlor...	5.710f	6.541	742745	691959	4.606	2.361	#
25)	Oxychlordane	7.201	8.006	351460	1992602	2.288 MDL	7.876	#
26)	2,4'-DDE	7.290	8.218	1238332	1732286	11.485m NPL	9.109	
27)	trans-Non...	7.495f	8.307	1034401	1329098	5.755	4.711	
28)	2,4'-DDD	7.664	8.590	1119493	1550109	11.386	9.143 R-02	
29)	2,4'-DDT	7.838	8.817	1608998	1681518	16.629	12.356 R-02	
30)	cis-Nonac...	7.931	8.855	1714121	2746471	8.324	8.577	
31)	Mirex	8.579f	9.790	607087	1396014	4.909	8.800	#
32)	Chlordane...	7.367f	8.238	585227	1066850	30.629	31.415	
33)	Chlordane...	7.495	8.360	1034401	989416	45.915	34.251	
34)	Chlordane...	8.043	8.994	534350	497647	93.614	50.470	#
35)	Chlordane...	3.768f	3.695f	1179003	15144	NoCal	NoCal	
36)	Toxaphene...	7.441f	8.568	602797	2854407	719.862	1206.401	#
37)	Toxaphene...	7.749	8.895f	299338	2206338	184.275	744.924	#
38)	Toxaphene...	8.043f	8.951	534350	868121	160.663	179.139	
39)	Toxaphene...	8.347f	8.994f	485126	497647	147.628	63.077	#
40)	Toxaphene...	8.537	9.212	2251068	976745	888.485	236.697	#
41)	Toxaphene...	8.579f	9.598	607087	2656563	178.516	579.316	#
42)	Toxaphene...	3.768f	3.753f	1179003	231215	NoCal	NoCal	

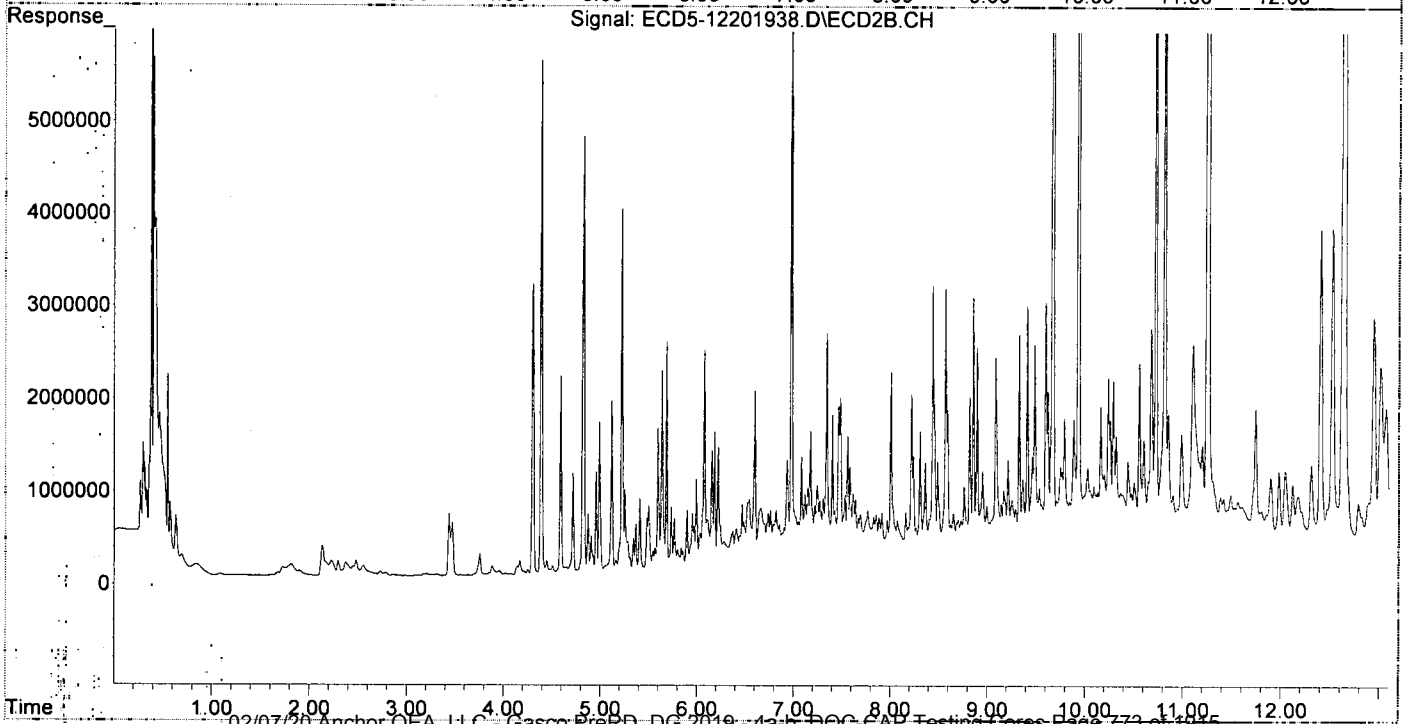
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:21
Operator : MJB
Sample : 9120734-MS1@5
Misc : 5x, 8081B 2,4+4,4-DDx, 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: Dec 21 15:48:19 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

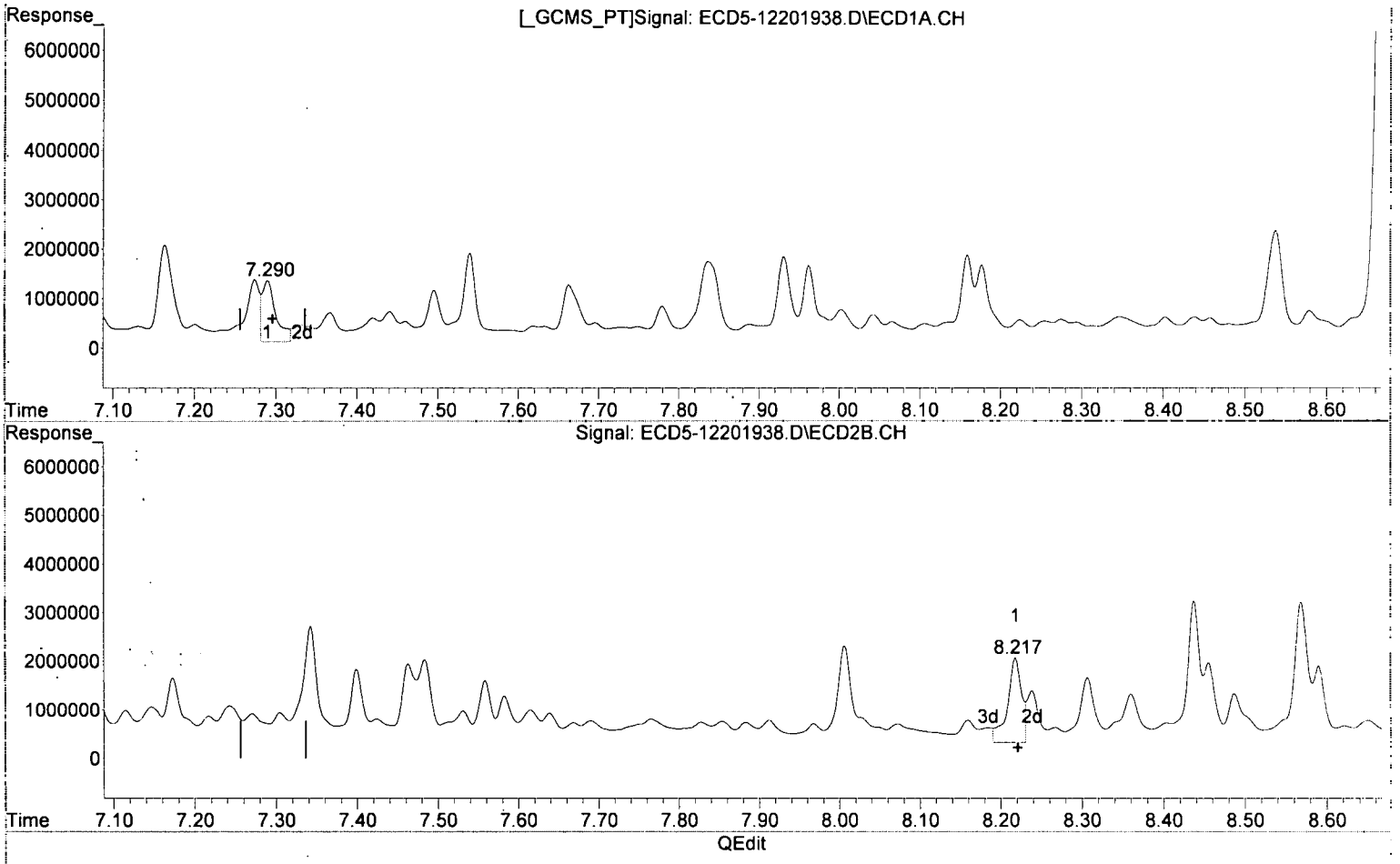




Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:21
Operator : MJB
Sample : 9120734-MS1@5
Misc : 5x, 8081B 2,4+4,4-DDx, 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: Dec 21 13:07:47 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.290min 11.485 ng/mL (m)

response 1238332

WB 12/21/19

(26) 2,4'-DDE #2

8.218min 9.109 ng/mL

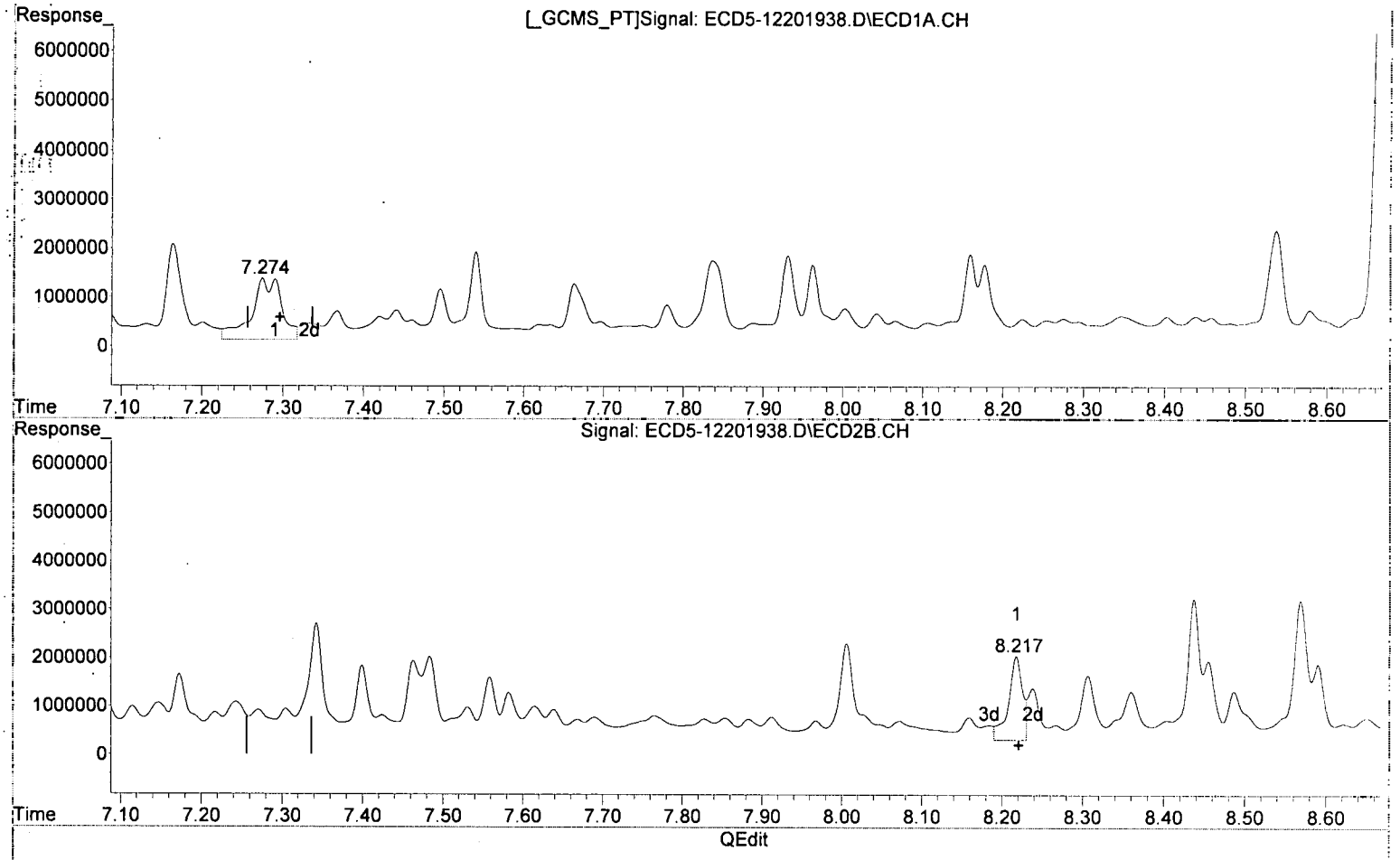
response 1732286

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:21
Operator : MJB
Sample : 9120734-MS1@5
Misc : 5x, 8081B 2,4+4,4-DDx, 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: Dec 21 13:07:47 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.290min 11.535 ng/mL

response 1243708

WB 12/21/19

(26) 2,4'-DDE #2

8.218min 9.109 ng/mL

response 1732286

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:21
Operator : MJB
Sample : 9120734-MS1@5
Misc : 5x, 8081B 2,4+4,4-DDx, 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: Dec 21 13:07:47 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

ME MJB 12/21/19

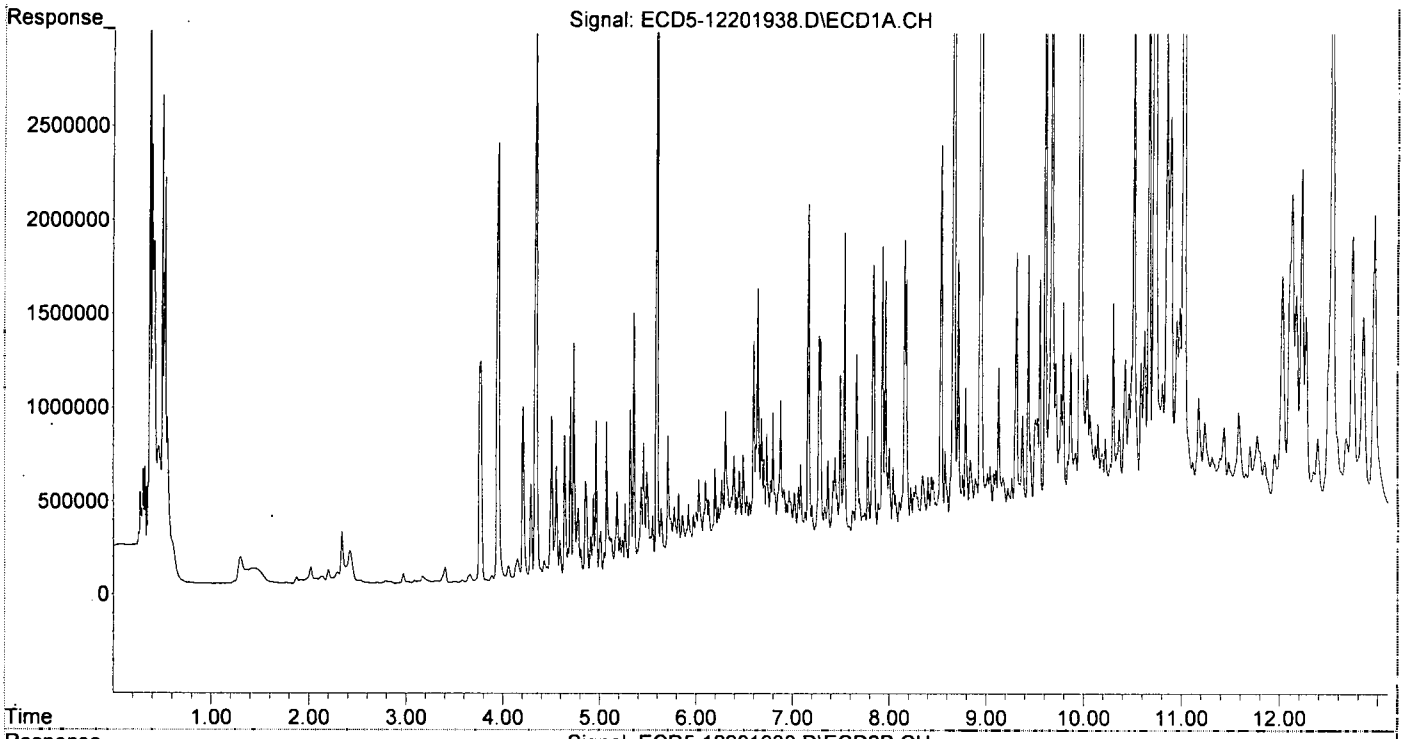
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.357	6.075	1408341	2318139	7.896	7.809	
22)	S	DCBP (S)	9.554	10.678	1508969	2319677	11.155	13.623	
		Target Compounds							
2)		a-BHC	5.921f	6.697	376248	422558	1.567	1.062	
3)		g-BHC	6.197	7.021	562663	477401	2.767	1.410	#
4)		b-BHC	6.267	7.080	498374	1114907	7.029	8.045	
5)		Heptachlor	6.598	7.399	1234245	1557359	6.713	5.205	
6)		d-BHC	6.394	7.342	628117	2435249	4.495	8.518	#
7)		Aldrin	6.797f	7.639	848078	633674	4.466	2.042	#
8)		Heptachlo...	7.290	8.072	1243708	389902	6.922	1.361	#
9)		trans-Chl...	7.367f	8.238	585227	1066850	3.246	3.657	
10)		cis-Chlor...	7.495	8.360f	1034401	989416	6.041	3.525	#
11)		Endosulfa...	7.585	8.404	228978	388874	1.303	1.480	
12)		4,4'-DDE	7.540	8.437	1779381	2894466	11.582	11.152	
13)		Dieldrin	7.749	8.590	299338	1550109	1.525	5.218	#
14)		Endrin	7.931	8.817	1714121	1681518	11.219	8.237	
15)		4,4'-DDD	7.962	8.855	1529583	2746471	12.426	12.941	
16)		Endosulfa...	8.107f	8.951	350481	868121	2.294	3.667	#
17)		4,4'-DDT	8.159	9.085	1742116	2086630	18.113	14.050	
18)		Endrin Al...	8.347	9.212	485126	976745	4.058	4.976	
19)		Endosulfa...	8.667	9.410	12172137	2625079	84.345	13.253	#
20)		Methoxychlor	8.537f	9.556	2251068	486643	43.203	6.698	#
21)		Endrin Ke...	8.840f	9.790	558627	1396014	3.286	6.464	#
23)		Hexachlor...	3.169	3.753	38094	231215	0.069	0.638	#
24)		Hexachlor...	5.710f	6.541	742745	691959	4.606	2.361	#
25)		Oxychlordane	7.201	8.006	351460	1992602	2.288	7.876	#
26)		2,4'-DDE	7.290	8.218	1243708	1732286	11.535	9.109	
27)		trans-Non...	7.495f	8.307	1034401	1329098	5.755	4.711	
28)		2,4'-DDD	7.664	8.590	1119493	1550109	11.386	9.143	
29)		2,4'-DDT	7.838	8.817	1608998	1681518	16.629	12.356	
30)		cis-Nonac...	7.931	8.855	1714121	2746471	8.324	8.577	
31)		Mirex	8.579f	9.790	607087	1396014	4.909	8.800	#
32)		Chlordane...	7.367f	8.238	585227	1066850	30.629	31.415	
33)		Chlordane...	7.495	8.360	1034401	989416	45.915	34.251	
34)		Chlordane...	8.043	8.994	534350	497647	93.614	50.470	#
35)		Chlordane...	3.768f	3.695f	1179003	15144	NoCal	NoCal	
36)		Toxaphene...	7.441f	8.568	602797	2854407	719.862	1206.401	#
37)		Toxaphene...	7.749	8.895f	299338	2206338	184.275	744.924	#
38)		Toxaphene...	8.043f	8.951	534350	868121	160.663	179.139	
39)		Toxaphene...	8.347f	8.994f	485126	497647	147.628	63.077	#
40)		Toxaphene...	8.537	9.212	2251068	976745	888.485	236.697	#
41)		Toxaphene...	8.579f	9.598	607087	2656563	178.516	579.316	#
42)		Toxaphene...	3.768f	3.753f	1179003	231215	NoCal	NoCal	

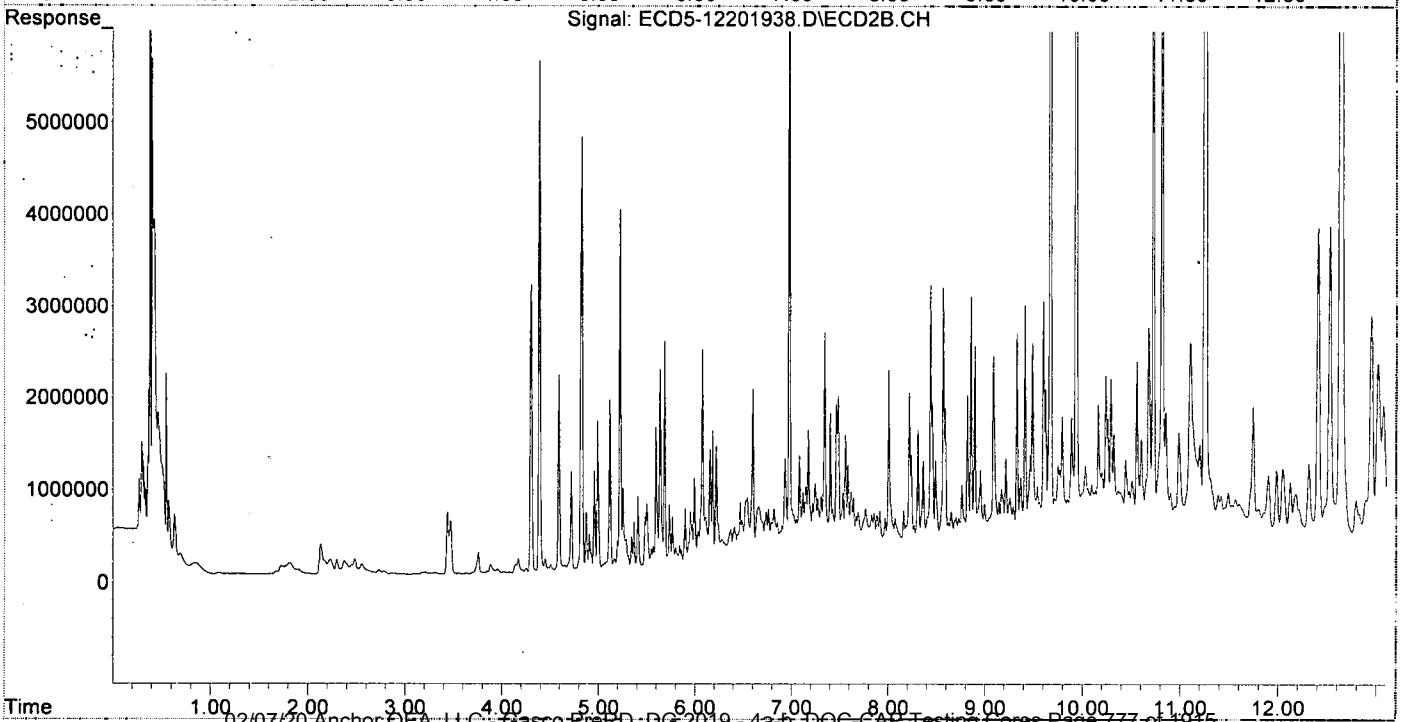
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:21
Operator : MJB
Sample : 9120734-MS1@5
Misc : 5x, 8081B 2,4+4,4-DDx, 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: Dec 21 13:07:47 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:58
Operator : MJB
Sample : 9120734-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 15:51:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

R-04

MJB 12/27

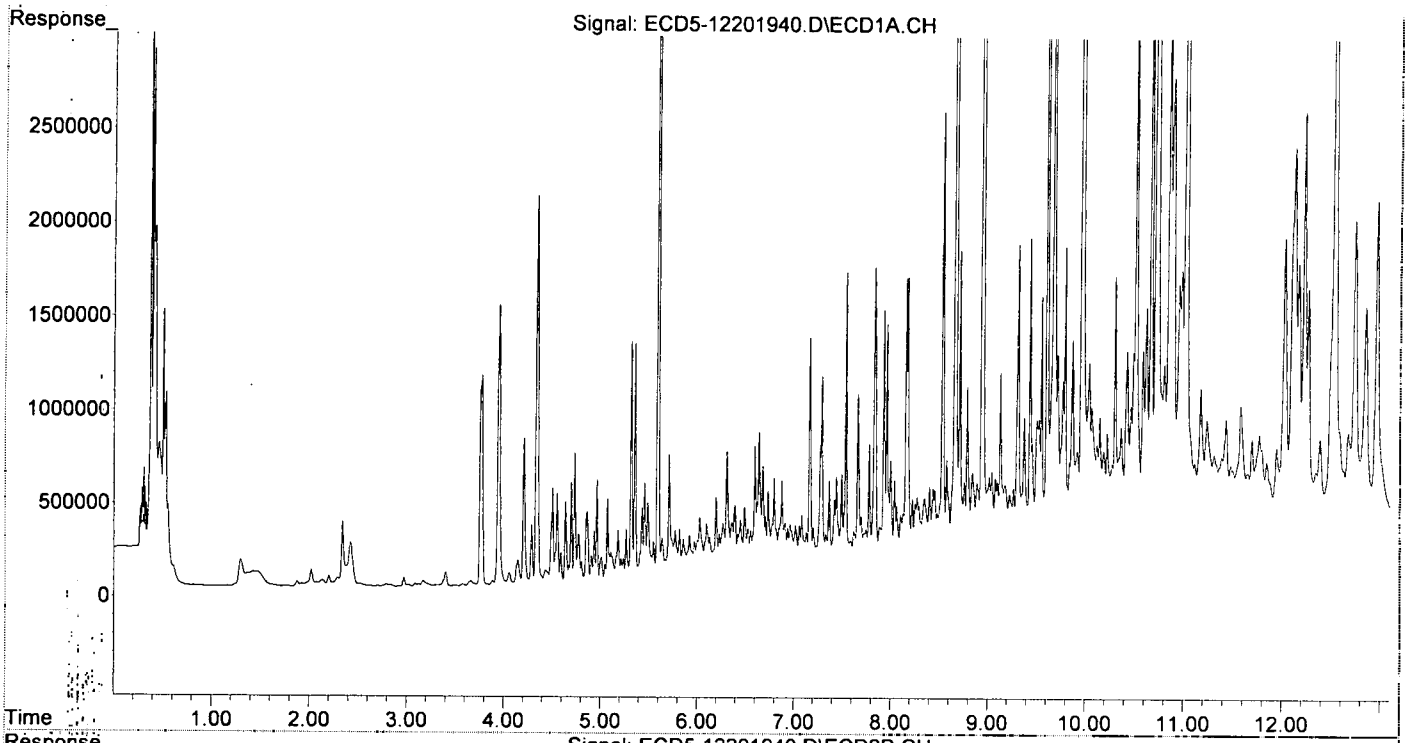
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.356	6.075	1224530	2193315	6.865	7.388	
22)	S	DCBP (S)	9.553	10.677	1269915	2209882	9.359	12.978	
		Target Compounds							
2)		a-BHC	5.922f	6.681	178396	335405	0.743	0.843	
3)		g-BHC	6.196	7.022	363230	299571	1.786	0.885	#
4)		b-BHC	6.267	7.080	223252	730876	3.149	5.274	#
5)		Heptachlor	6.597	7.399	615062	732875	3.345	2.450	
6)		d-BHC	6.391	7.341	315610	1144609	2.252	4.015	#
7)		Aldrin	6.797f	7.638	439429	345716	2.314	1.114	#
8)		Heptachlo...	7.290	8.071	958052	263542	5.332	0.920	#
9)		trans-Chl...	7.367	8.238	398805	1013641	2.212	3.475	#
10)		cis-Chlor...	7.495	8.360f	423871	963702	2.370	3.434	#
11)		Endosulfa...	7.588	8.360f	63792	963702	0.363 MDL	3.666	#
12)		4,4'-DDE	7.539	8.436	1497095	2582634	9.744 MRL	9.967	
13)		Dieldrin	7.749	8.589	118717	1365219	0.605	4.596	#
14)		Endrin	7.931	8.817	1267156	1485377	8.294	7.281	
15)		4,4'-DDD	7.961	8.854	1198883	2508686	9.740 R02	11.830	
16)		Endosulfa...	8.065	8.950f	224730	771370	1.471	3.258	#
17)		4,4'-DDT	8.158	9.084	1448927	1812510	15.196m	12.298 R.02	
18)		Endrin Al...	8.349	9.212	255703	1005116	2.139	5.120	#
19)		Endosulfa...	8.667	9.409	13091133	2709780	90.343	13.679	#
20)		Methoxychlor	8.537f	9.558	2292686	456770	43.936	6.301	#
21)		Endrin Ke...	8.843	9.790	364282	1438586	2.064	6.665	#
23)		Hexachlor...	3.168	3.752	31422	201810	0.027	0.557	#
24)		Hexachlor...	5.710f	6.538	615561	432742	3.788	1.477	#
25)		Oxychlordane	7.201	8.006	157003	1397470	0.916 MRL	5.524	#
26)		2,4'-DDE	7.290	8.217	974246	1523683	9.036m MRL	8.012	
27)		trans-Non...	7.495f	8.306	423871	745253	2.358	2.642	
28)		2,4'-DDD	7.663	8.589	844722	1365219	8.591	8.053 R.02	
29)		2,4'-DDT	7.836	8.817	1501507	1485377	15.518	10.940 R.02	
30)		cis-Nonac...	7.931	8.854	1267156	2508686	6.154	7.835	
31)		Mirex	8.579f	9.790	447968	1438586	3.556	9.077	#
32)		Chlordane...	7.367f	8.238	398805	1013641	20.872	29.848	#
33)		Chlordane...	7.495	8.360	423871	963702	18.815	33.361	#
34)		Chlordane...	8.042	8.993	362511	438354	63.509	42.848	
35)		Chlordane...	3.770f	3.693f	1115470	15807	NoCal	NoCal	
36)		Toxaphene...	7.441f	8.568	412071	2360787	493.206	997.775	#
37)		Toxaphene...	7.749	8.950f	118717	771370	70.785	260.437	#
38)		Toxaphene...	8.065	8.950	224730	771370	66.149	159.174	#
39)		Toxaphene...	8.292f	9.038	218395	291678	63.213	33.521	#
40)		Toxaphene...	8.537	9.212	2292686	1005116	904.912	243.532	#
41)		Toxaphene...	8.579f	9.598	447968	2752815	131.727	600.306	#
42)		Toxaphene...	3.770f	3.752f	1115470	201810	NoCal	NoCal	

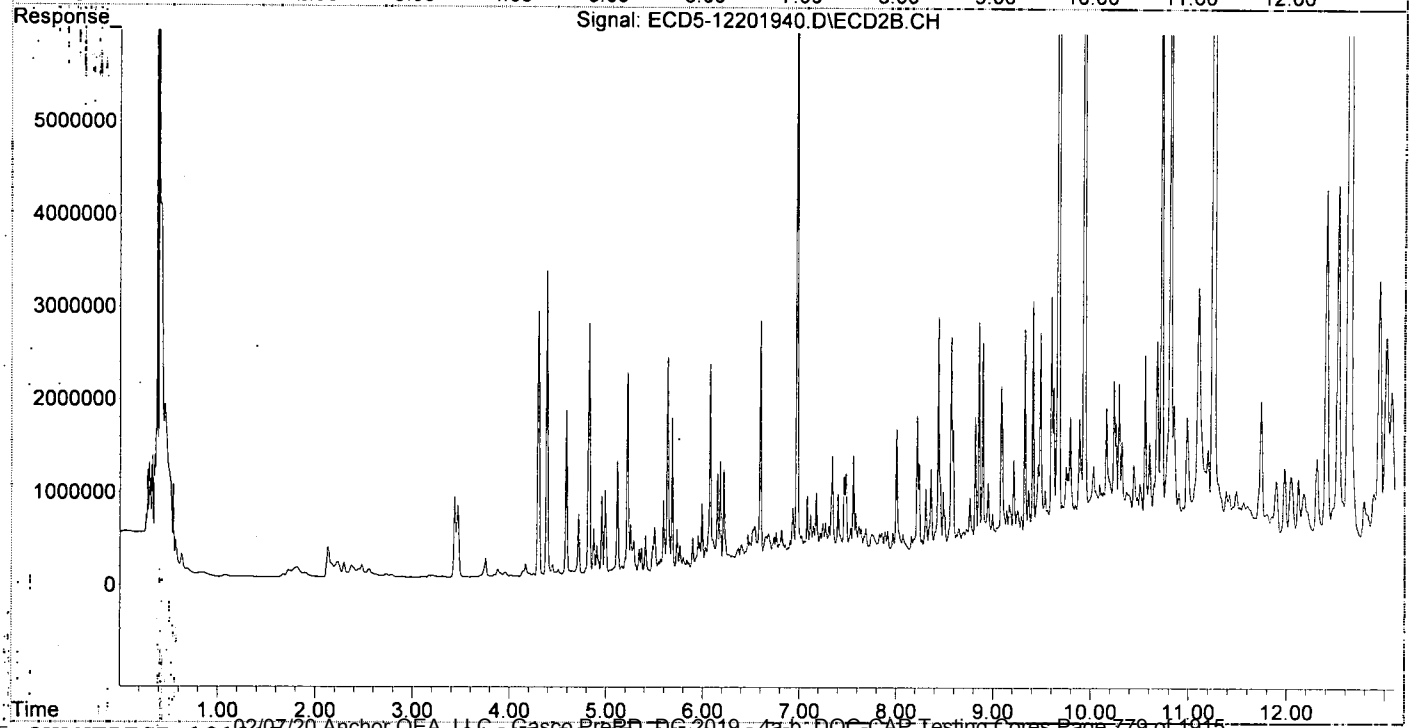
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:58
Operator : MJB
Sample : 9120734-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 15:51:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

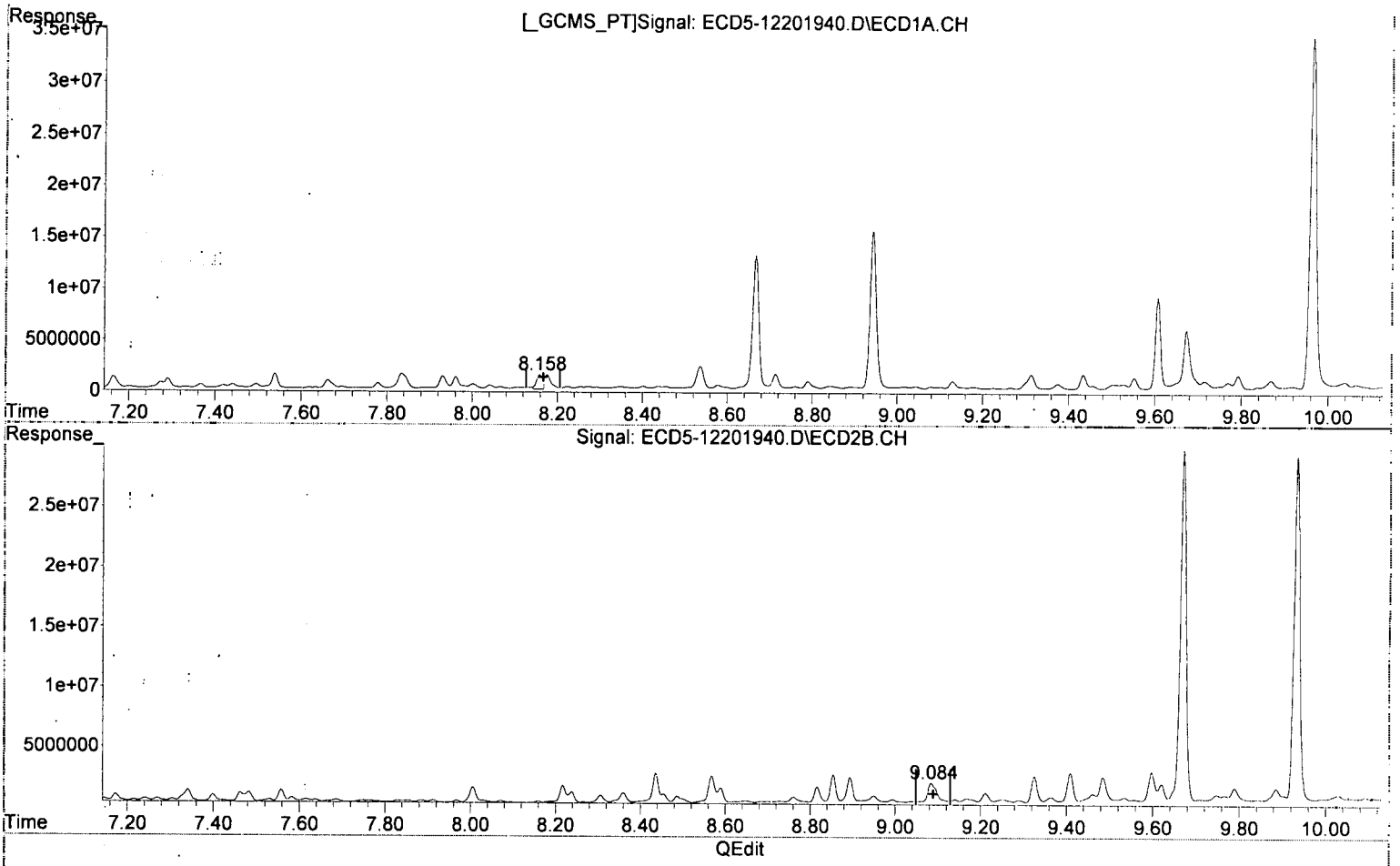




Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:58
Operator : MJB
Sample : 9120734-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.158min 15.196 ng/mL (m)

response 1448927

MP 12/21/19

(17) 4,4'-DDT #2

9.084min 12.298 ng/mL

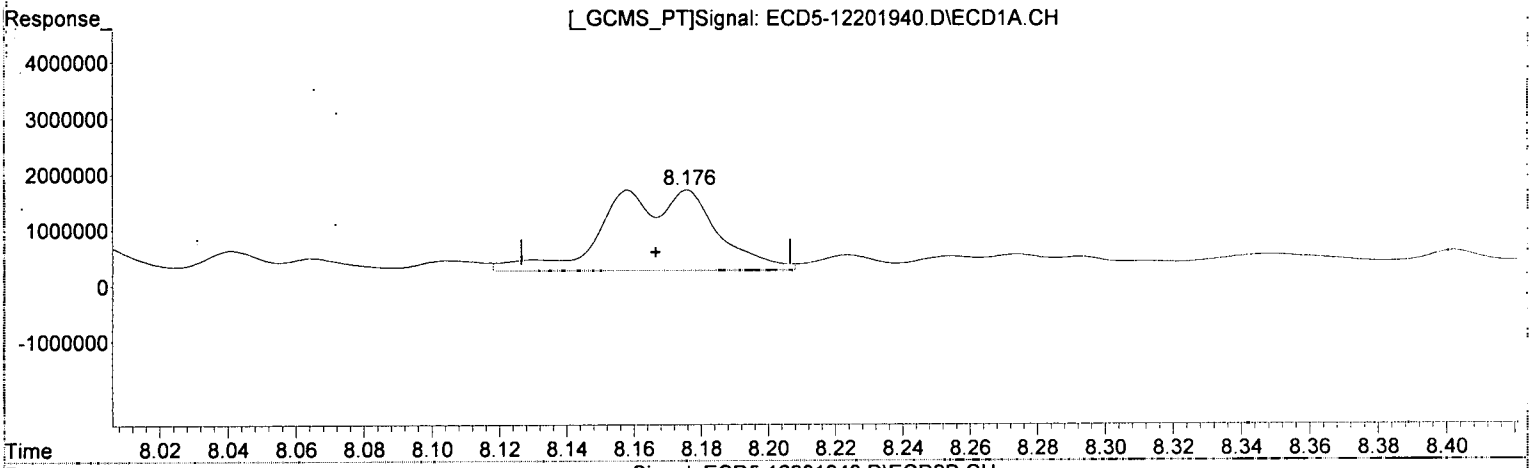
response 1812510

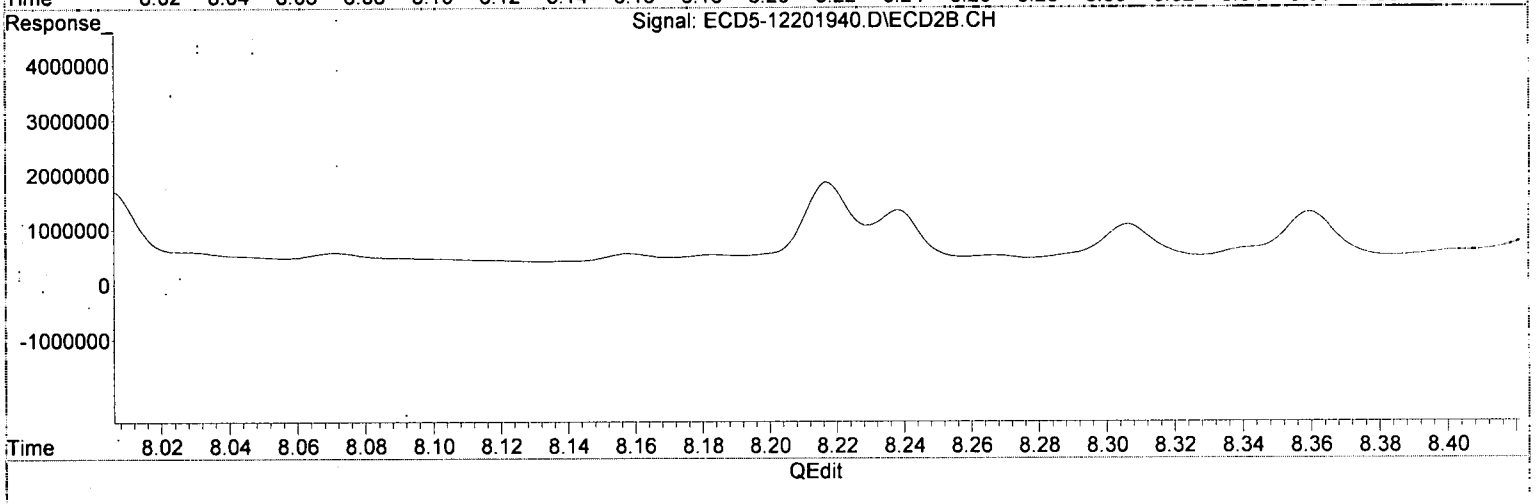
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:58
Operator : MJB
Sample : 9120734-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(17) 4,4'-DDT

8.159min 15.006 ng/mL

response 1430079

WB 12/21/19

(17) 4,4'-DDT #2

9.084min 12.298 ng/mL

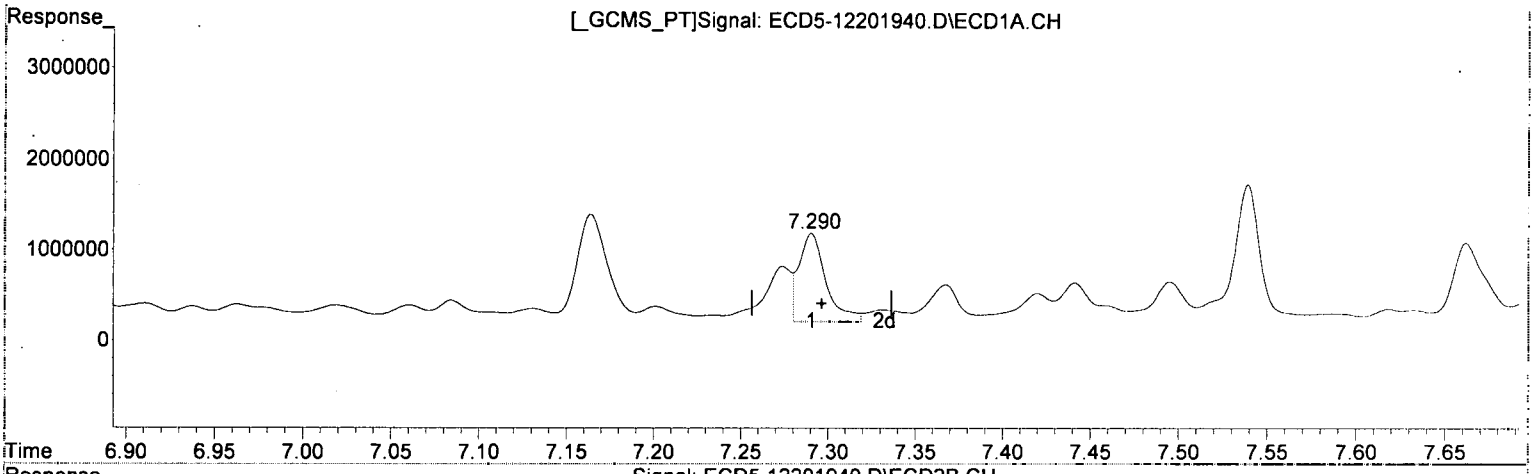
response 1812510

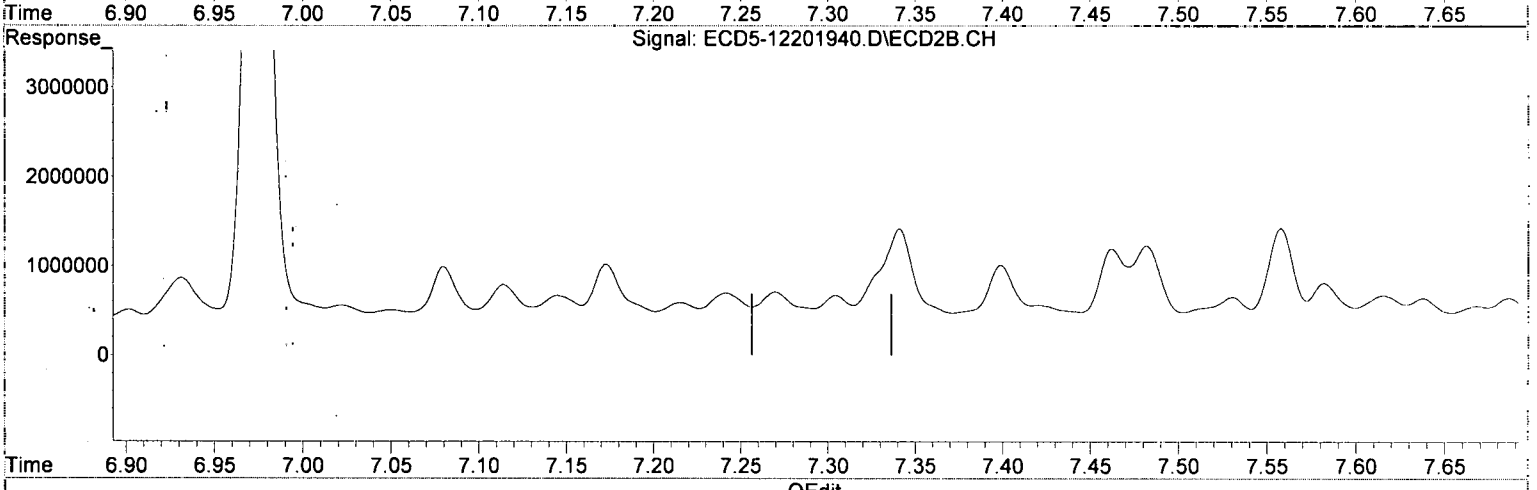
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:58
Operator : MJB
Sample : 9120734-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(26) 2,4'-DDE

7.290min 9.036 ng/mL m

response 974246

MJB 12/21/19

(26) 2,4'-DDE #2

8.217min 8.012 ng/mL

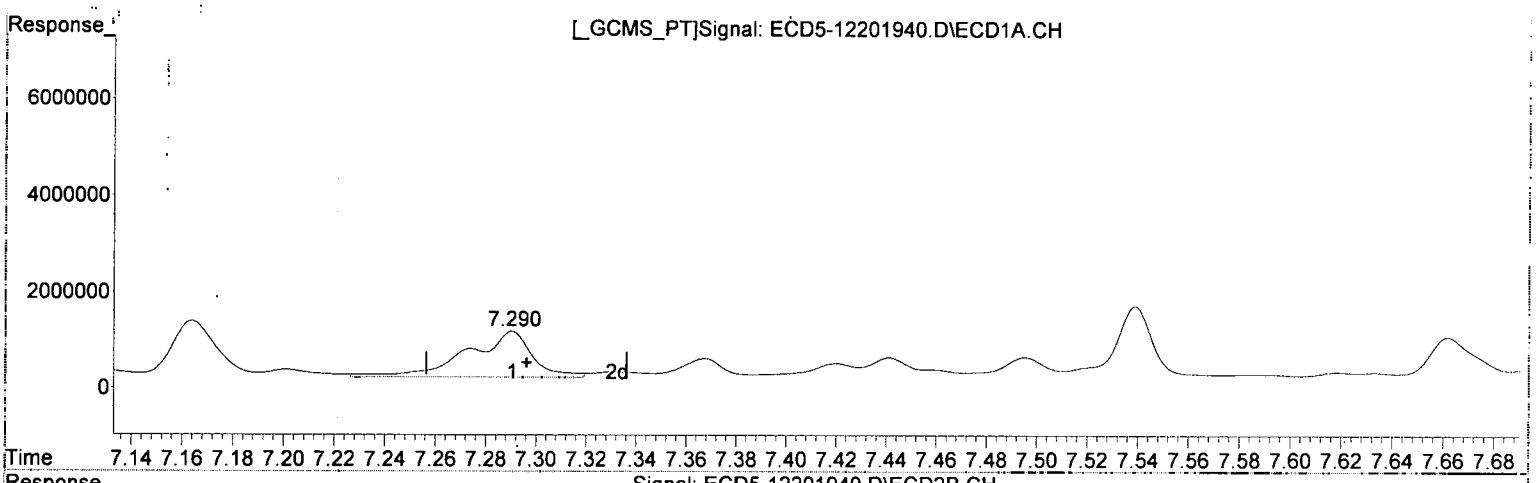
response 1523683

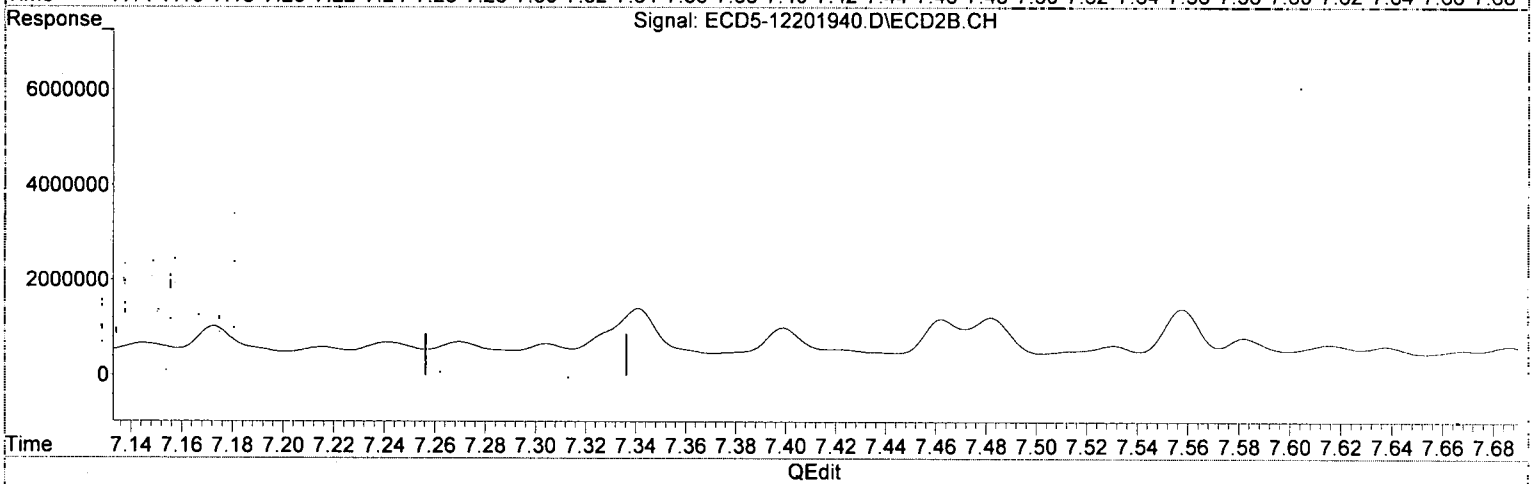
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:58
Operator : MJB
Sample : 9120734-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(26) 2,4'-DDE

7.290min 8.886 ng/mL

response 958052

MJB 12/21/19

(26) 2,4'-DDE #2

8.217min 8.012 ng/mL

response 1523683

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:58
Operator : MJB
Sample : 9120734-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MF MJB 12/21/19

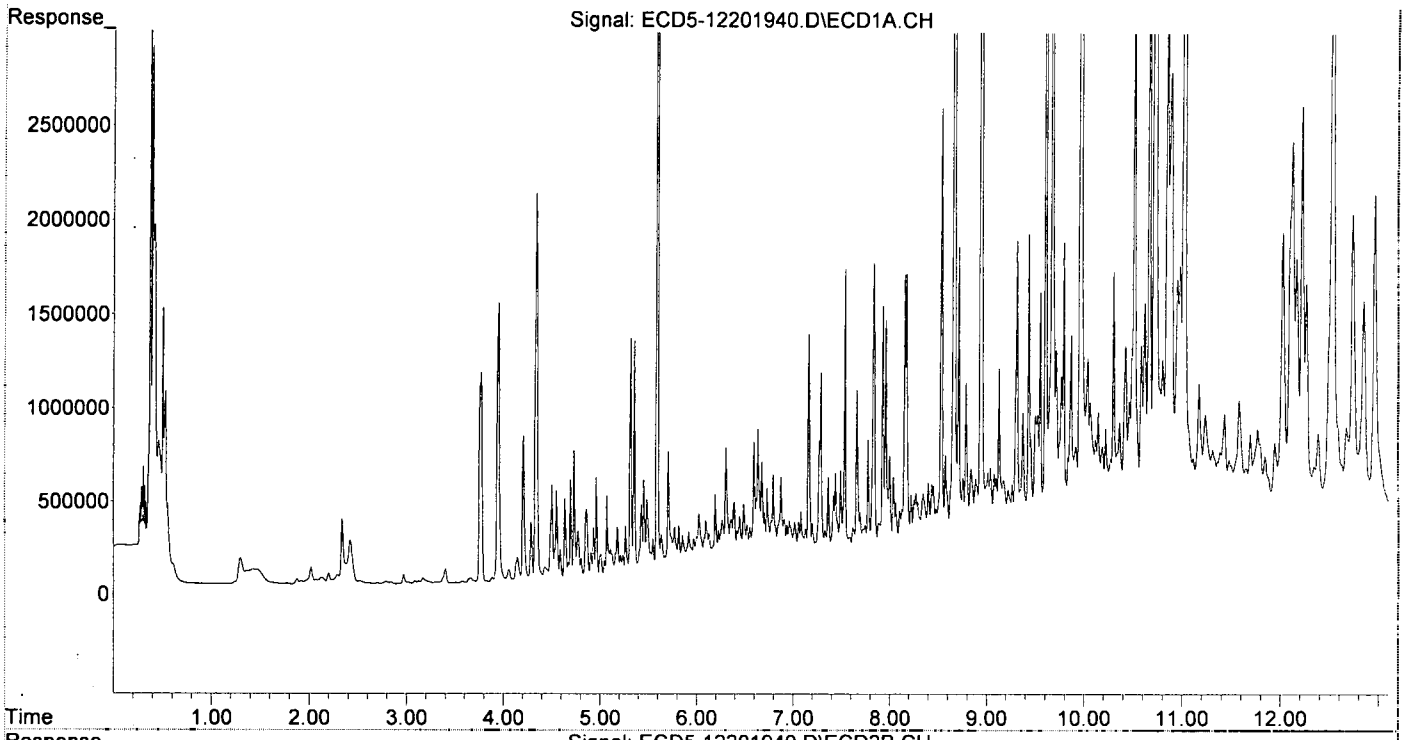
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.356	6.075	1224530	2193315	6.865	7.388	
22)	S DCBP (S)	9.553	10.677	1269915	2209882	9.359	12.978	
	Target Compounds							
2)	a-BHC	5.922f	6.681	178396	335405	0.743	0.843	
3)	g-BHC	6.196	7.022	363230	299571	1.786	0.885	#
4)	b-BHC	6.267	7.080	223252	730876	3.149	5.274	#
5)	Heptachlor	6.597	7.399	615062	732875	3.345	2.450	
6)	d-BHC	6.391	7.341	315610	1144609	2.252	4.015	#
7)	Aldrin	6.797f	7.638	439429	345716	2.314	1.114	#
8)	Heptachlo...	7.290	8.071	958052	263542	5.332	0.920	#
9)	trans-Chl...	7.367	8.238	398805	1013641	2.212	3.475	#
10)	cis-Chlor...	7.495	8.360f	423871	963702	2.370	3.434	#
11)	Endosulfa...	7.588	8.360f	63792	963702	0.363	3.666	#
12)	4,4'-DDE	7.539	8.436	1497095	2582634	9.744	9.967	
13)	Dieldrin	7.749	8.589	118717	1365219	0.605	4.596	#
14)	Endrin	7.931	8.817	1267156	1485377	8.294	7.281	
15)	4,4'-DDD	7.961	8.854	1198883	2508686	9.740	11.830	
16)	Endosulfa...	8.065	8.950f	224730	771370	1.471	3.258	#
17)	4,4'-DDT	8.159	9.084	1430079	1812510	15.006	12.298	
18)	Endrin Al...	8.349	9.212	255703	1005116	2.139	5.120	#
19)	Endosulfa...	8.667	9.409	13091133	2709780	90.343	13.679	#
20)	Methoxychlor	8.537f	9.558	2292686	456770	43.936	6.301	#
21)	Endrin Ke...	8.843	9.790	364282	1438586	2.064	6.665	#
23)	Hexachlor...	3.168	3.752	31422	201810	0.027	0.557	#
24)	Hexachlor...	5.710f	6.538	615561	432742	3.788	1.477	#
25)	Oxychlordane	7.201	8.006	157003	1397470	0.916	5.524	#
26)	2,4'-DDE	7.290	8.217	958052	1523683	8.886	8.012	
27)	trans-Non...	7.495f	8.306	423871	745253	2.358	2.642	
28)	2,4'-DDD	7.663	8.589	844722	1365219	8.591	8.053	
29)	2,4'-DDT	7.836	8.817	1501507	1485377	15.518	10.940	
30)	cis-Nonac...	7.931	8.854	1267156	2508686	6.154	7.835	
31)	Mirex	8.579f	9.790	447968	1438586	3.556	9.077	#
32)	Chlordane...	7.367f	8.238	398805	1013641	20.872	29.848	#
33)	Chlordane...	7.495	8.360	423871	963702	18.815	33.361	#
34)	Chlordane...	8.042	8.993	362511	438354	63.509	42.848	
35)	Chlordane...	3.770f	3.693f	1115470	15807	NoCal	NoCal	
36)	Toxaphene...	7.441f	8.568	412071	2360787	493.206	997.775	#
37)	Toxaphene...	7.749	8.950f	118717	771370	70.785	260.437	#
38)	Toxaphene...	8.065	8.950	224730	771370	66.149	159.174	#
39)	Toxaphene...	8.292f	9.038	218395	291678	63.213	33.521	#
40)	Toxaphene...	8.537	9.212	2292686	1005116	904.912	243.532	#
41)	Toxaphene...	8.579f	9.598	447968	2752815	131.727	600.306	#
42)	Toxaphene...	3.770f	3.752f	1115470	201810	NoCal	NoCal	

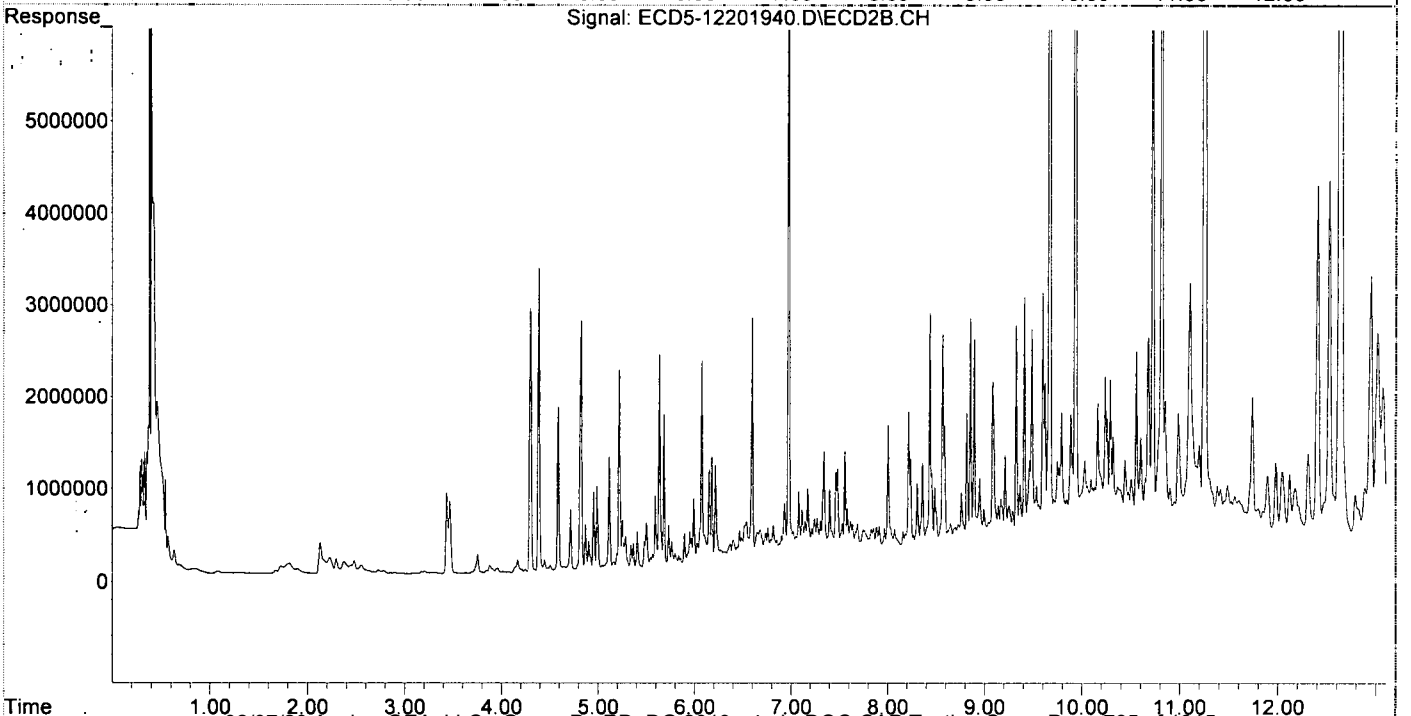
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 22:58
Operator : MJB
Sample : 9120734-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC
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: Dec 21 13:07:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201942.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 23:36
Operator : MJB
Sample : 9L20036-CCV5
Misc : A19K133, 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: Dec 21 13:08:02 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/24/19

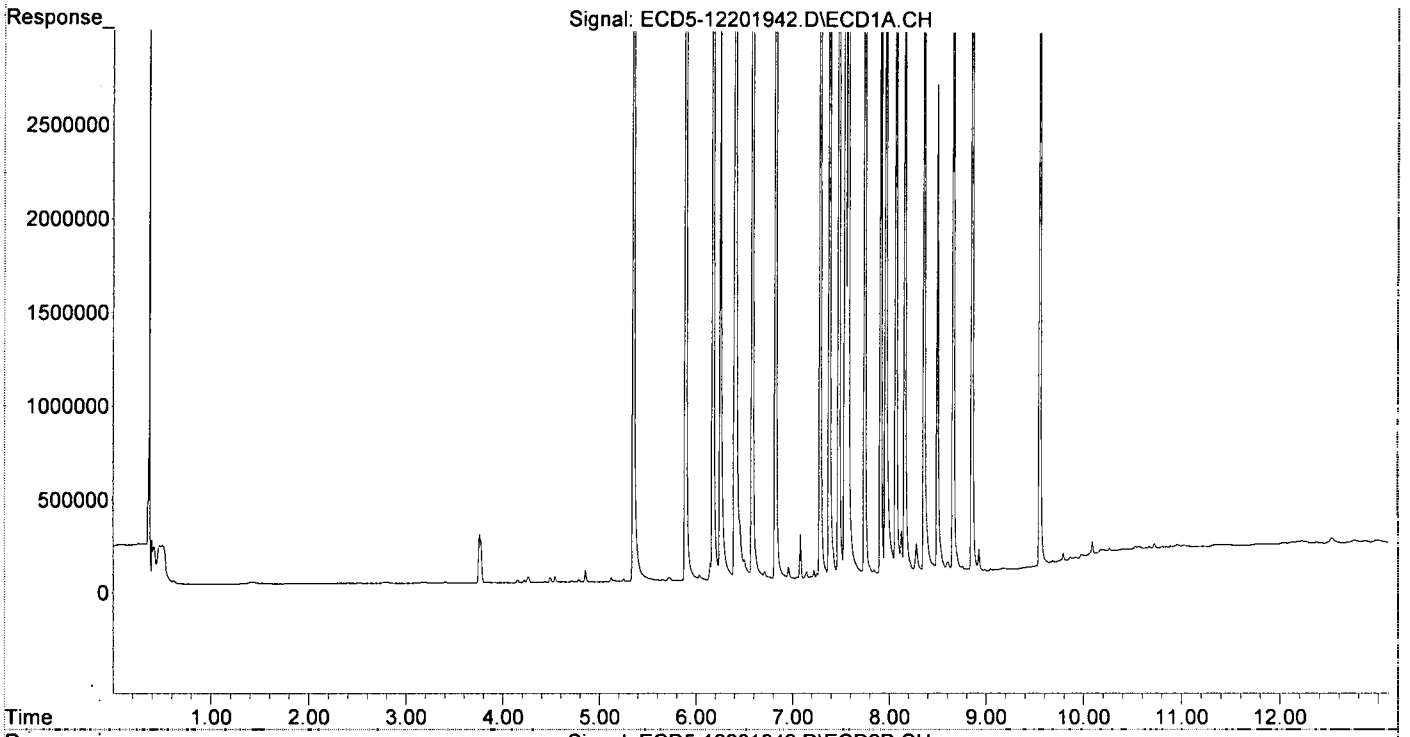
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.353	6.072	7637649	13353640	42.819	44.982	
22)	S	DCBP (S)	9.554	10.672	5969627	7587937	44.288	44.561	
		Target Compounds							
2)		a-BHC	5.893	6.681	11134173	19841749	46.380	49.860	
3)		g-BHC	6.176	7.000	9294690	16696029	45.706	49.306	
4)		b-BHC	6.253	7.062	2969291	5999864	41.879	43.294	
5)		Heptachlor	6.584	7.378	8949880	15896616	48.678	53.132	
6)		d-BHC	6.404	7.321	6779998	15049642	45.092	49.017	
7)		Aldrin	6.825	7.647	9252667	15684890	48.727	50.551	
8)		Heptachlo...	7.287	8.086	8384237	14088723	46.666	49.195	
9)		trans-Chl...	7.382	8.226	8402467	13914626	46.605	47.703	
10)		cis-Chlor...	7.479	8.335	8270561	13296533	48.403	47.378	
11)		Endosulfa...	7.577	8.386	8142449	12626046	46.332	48.037	
12)		4,4'-DDE	7.545	8.438	7001636	13047543	45.573	47.303	
13)		Dieldrin	7.749	8.588	9347654	14887424	47.624	50.118	
14)		Endrin	7.914	8.817	6666125	10249913	43.631	47.242	
15)		4,4'-DDD	7.967	8.856	5747954	10892408	45.015	48.659	
16)		Endosulfa...	8.071	8.964	6875659	11508661	45.001	48.611	
17)		4,4'-DDT	8.163	9.084	5690976	9243861	53.452	54.675	
18)		Endrin Al...	8.362	9.201	5887808	9714198	49.255	49.487	
19)		Endosulfa...	8.664	9.393	6697044	10498680	47.543	50.535	
20)		Methoxychlor	8.501	9.562	2571698	4681154	48.806	56.160	
21)		Endrin Ke...	8.857	9.798	8160362	12090774	49.370	52.801	
23)		Hexachlor...	3.166	0.000	5792	0	BelowCal	N.D.	
24)		Hexachlor...	5.719	6.554	17523	6889	BelowCal	0.024	
25)		Oxychlordane	7.222	8.004	41898	24108	0.103	0.095	
26)		2,4'-DDE	7.287	8.226	8384237	13914626	77.762	73.166	
27)		trans-Non...	7.479	8.279	8270561	82115	46.011	0.291	#
28)		2,4'-DDD	0.000	8.588	0	14887424	N.D.	87.812	#
29)		2,4'-DDT	7.846	8.817	31137	10249913	0.322	67.293	#
30)		cis-Nonac...	7.967f	8.856	5747954	10892408	27.913	34.017	
31)		Mirex	8.607	9.798	56925	12090774	0.229	73.441	#
32)		Chlordane...	7.382	8.226	8402467	13914626	439.764	409.736	
33)		Chlordane...	7.479	8.335	8270561	13296533	367.117	460.297	
34)		Chlordane...	8.071f	8.998	6875659	258029	1204.560	19.613	#
35)		Chlordane...	3.758f	0.000	260406	0	NoCal	N.D.	
36)		Toxaphene...	7.479	8.588f	8270561	14887424	8656.379	6292.097	
37)		Toxaphene...	7.749	0.000	9347654	0	6365.205	N.D.	#
38)		Toxaphene...	8.071	8.964	6875659	11508661	1911.370	2374.835	
39)		Toxaphene...	8.283f	9.038	162376	114448	45.394	7.923	#
40)		Toxaphene...	0.000	9.201	0	9714198	N.D.	2072.607	#
41)		Toxaphene...	8.607	9.562f	56925	4681154	16.739	1020.819	#
42)		Toxaphene...	3.758	0.000	260406	0	NoCal	N.D.	

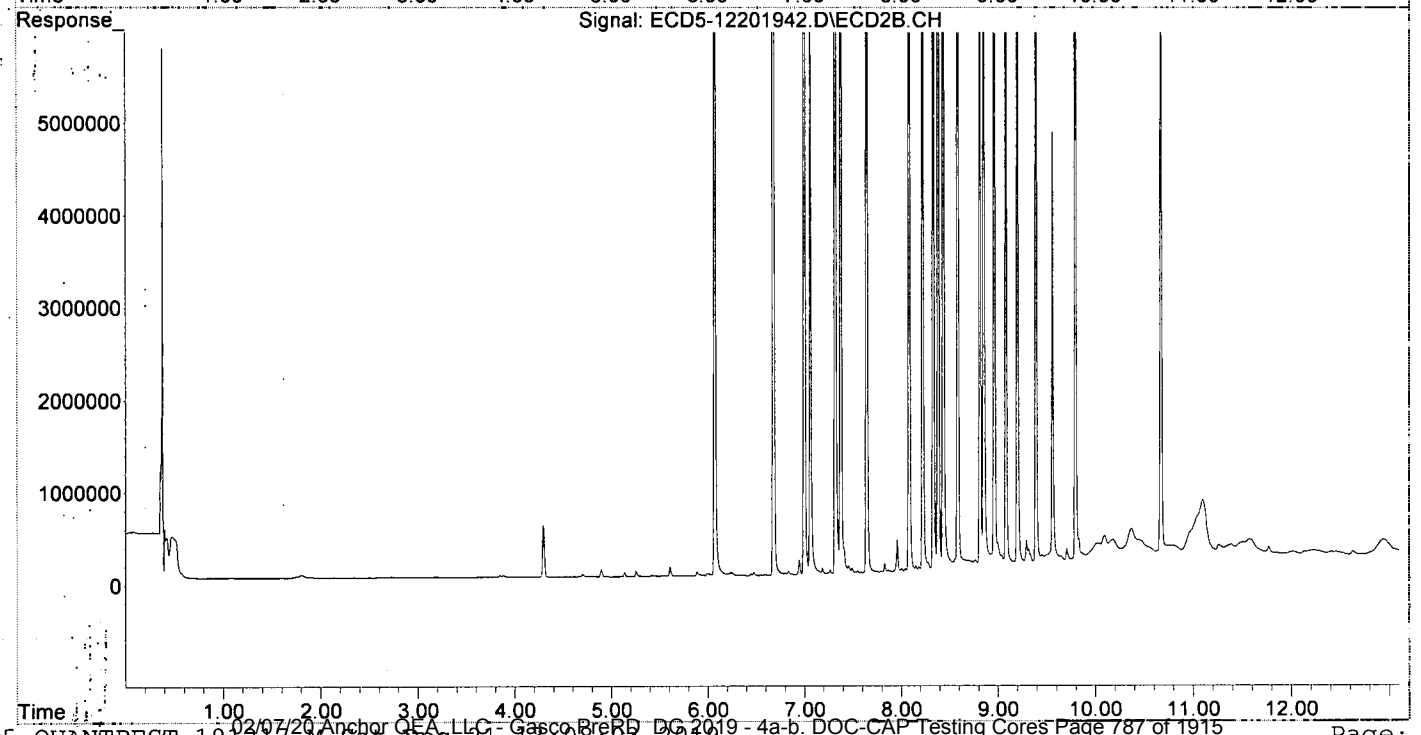
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201942.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 23:36
Operator : MJB
Sample : 9L20036-CCV5
Misc : A19K133, 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: Dec 21 13:08:02 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201943.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 23:54
Operator : MJB
Sample : 9L20036-CCV6
Misc : A19J408, 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: Dec 21 13:08:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/21/19

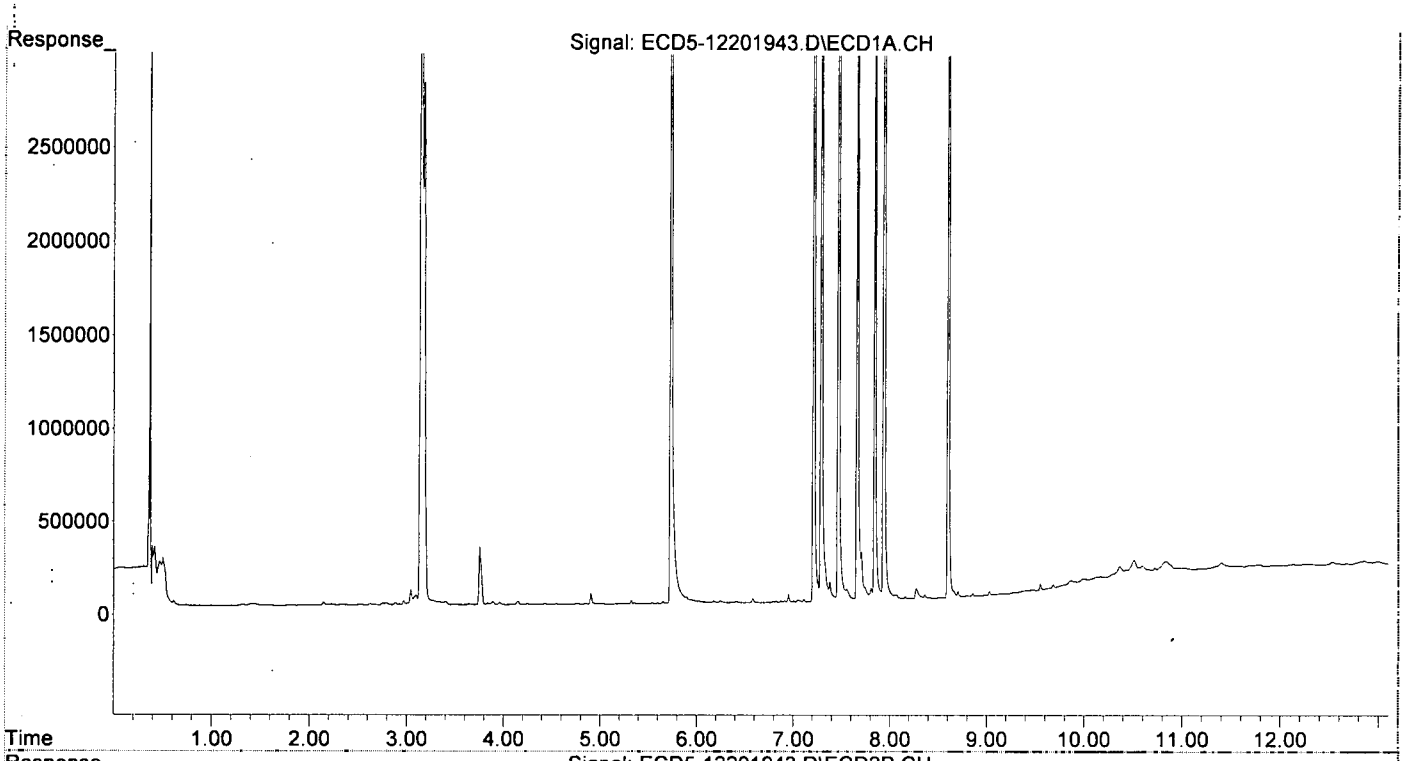
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.357	6.074	4834	14660	0.027	0.049	#
22)	S	DCBP (S)	9.556	10.675	38768	465239	0.079	2.732	#
		Target Compounds							
2)		a-BHC	0.000	6.679	0	30718	N.D.	0.077	#
3)		g-BHC	6.179	7.000	11077	14221	0.054	0.042	
4)		b-BHC	6.245	7.064	10371	12838	0.146	0.093	
5)		Heptachlor	6.584	7.377	21891	37214	0.119	0.124	
6)		d-BHC	6.411	7.321	8815	20129	0.030	0.026	
7)		Aldrin	6.826	7.645	7892	13520	0.042	0.044	
8)		Heptachlo...	7.293	8.083	4922690	58049	27.399	0.203	#
9)		trans-Chl...	7.382	8.216	104503	8955282	0.580	30.701	#
10)		cis-Chlor...	7.470	0.000	8050860	0	47.147	N.D.	#
11)		Endosulfa...	7.559f	8.393	63065	72627	0.359	0.276	
12)		4,4'-DDE	7.559	8.436	63065	29523	0.410	0.061	#
13)		Dieldrin	0.000	8.591	0	7815134	N.D.	26.309	#
14)		Endrin	7.941f	8.817	9648011	7987853	63.149	37.417	#
15)		4,4'-DDD	7.941f	8.858	9648011	15659892	72.831	67.824	
16)		Endosulfa...	8.068	8.965	25719	47902	0.168	0.202	
17)		4,4'-DDT	8.164	9.084	12327	19098	0.103	0.349	#
18)		Endrin Al...	8.366	9.202	20185	35722	0.169	0.182	
19)		Endosulfa...	8.708f	9.393	29591	20007	BelowCal	BelowCal	
20)		Methoxychlor	8.504	0.000	3370	0	0.135	N.D.	#
21)		Endrin Ke...	8.860	9.792	14482	8446267	BelowCal	37.840	
23)		Hexachlor...	3.148	3.755	5675346	12600459	34.936	34.789	
24)		Hexachlor...	5.734	6.541	7234719	13391839	44.542	45.703	
25)		Oxychlordane	7.215	8.014	7069755	11961857	47.945	47.281	
26)		2,4'-DDE	7.293	8.216	4922690	8955282	45.657	47.089	
27)		trans-Non...	7.470	8.289	8050860	13522965	44.789	47.933	
28)		2,4'-DDD	7.666	8.591	4237569	7815134	43.098	46.097	
29)		2,4'-DDT	7.848	8.817	4688735	7987853	48.457	53.896	
30)		cis-Nonac...	7.941	8.858	9648011	15659892	46.853	48.905	
31)		Mirex	8.606	9.792	5631568	8446267	47.240	52.413	
32)		Chlordane...	7.382	8.216	104503	8955282	5.469	263.701	#
33)		Chlordane...	7.470	0.000	8050860	0	357.364	N.D.	#
34)		Chlordane...	8.068f	9.001	25719	133341	4.506	3.499	
35)		Chlordane...	3.757	3.755f	308366	12600459	NoCal	NoCal	
36)		Toxaphene...	7.470	8.591f	8050860	7815134	8453.747	3303.028	#
37)		Toxaphene...	0.000	8.943f	0	42027	N.D.	14.190	#
38)		Toxaphene...	8.068	8.965	25719	47902	4.852	9.885	#
39)		Toxaphene...	8.279f	9.001f	53798	133341	10.766	10.659	
40)		Toxaphene...	8.504f	9.202	3370	35722	1.330	5.608	#
41)		Toxaphene...	8.606	0.000	5631568	0	1655.986	N.D.	#
42)		Toxaphene...	3.757	3.755f	308366	12600459	NoCal	NoCal	

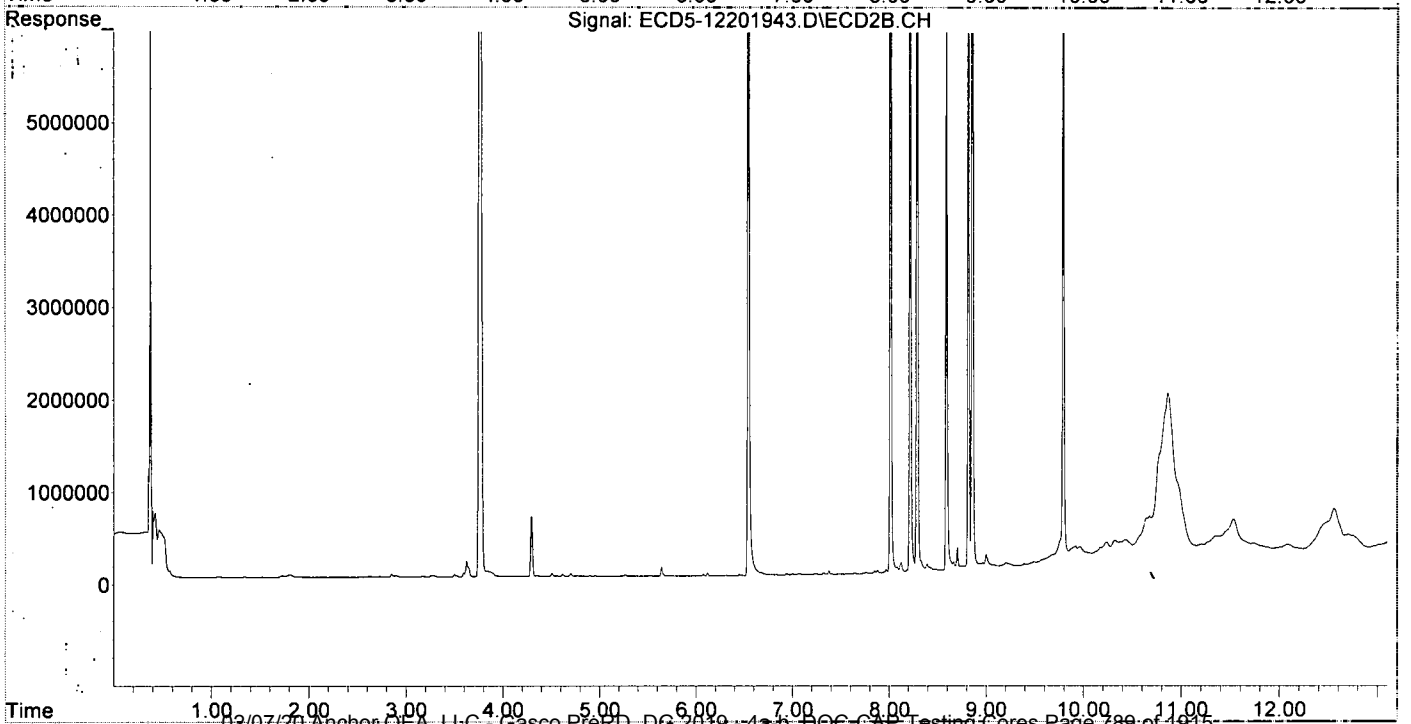
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201943.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20 Dec 2019 23:54
Operator : MJB
Sample : 9L20036-CCV6
Misc : A19J408, 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: Dec 21 13:08:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201944.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 0:11
Operator : MJB
Sample : 9L20036-CCB3
Misc : A19L018
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: Dec 21 13:08:15 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/20/19

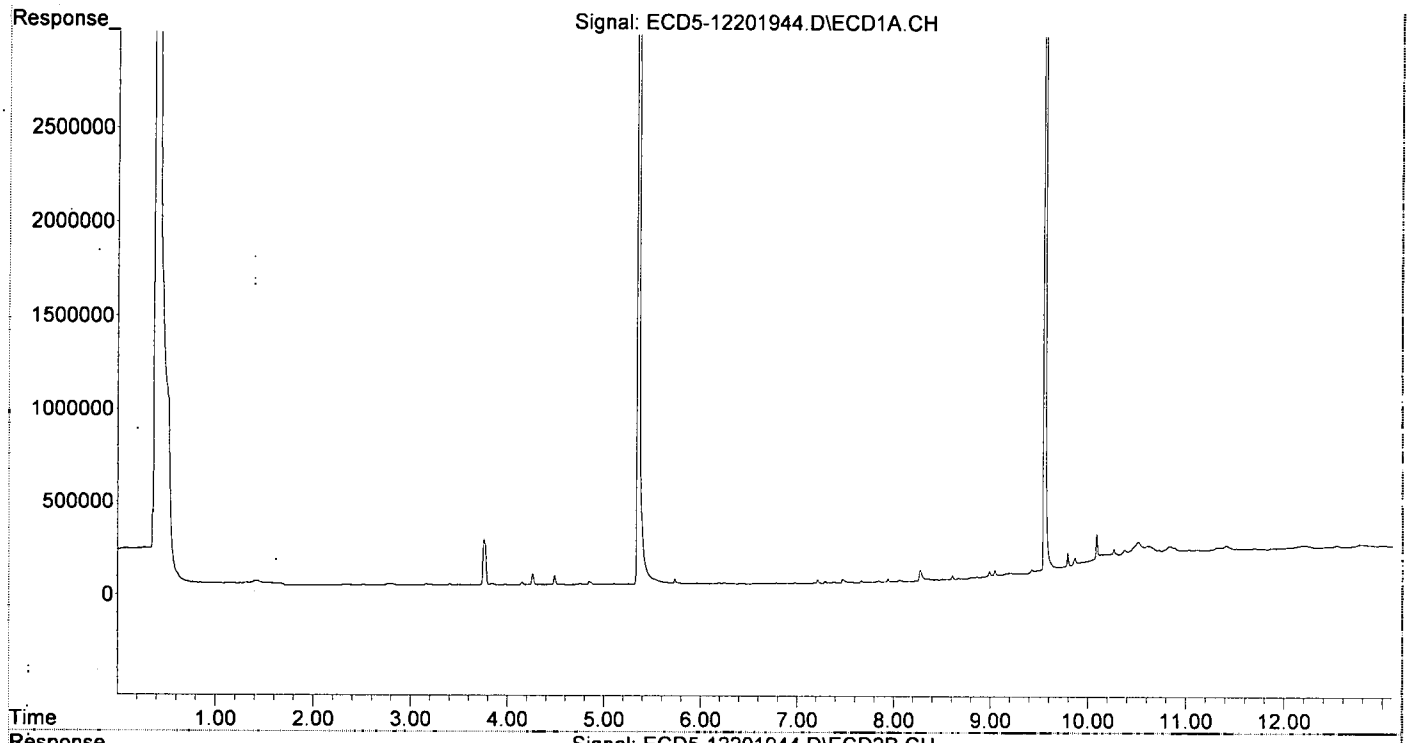
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.353	6.071	15097639	28397098	84.642	95.656	
22)	S	DCBP (S)	9.555	10.673	12000154	16307727	88.016	95.770	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.192	0.000	4819	0	0.024	N.D.	#
4)		b-BHC	6.243	0.000	7276	0	0.103	N.D.	#
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	0.000	7.338	0	8817	N.D.	BelowCal	
7)		Aldrin	0.000	7.651	0	15775	N.D.	0.051	#
8)		Heptachlo...	7.293	0.000	11188	0	0.062	N.D.	#
9)		trans-Chl...	7.376	8.238	7712	28777	0.043	0.099	#
10)		cis-Chlor...	7.474	0.000	21335	0	BelowCal	N.D.	
11)		Endosulfa...	7.578	0.000	2867	0	0.016	N.D.	#
12)		4,4'-DDE	7.578f	0.000	2867	0	0.019	N.D.	#
13)		Dieldrin	7.750	8.590	3000	20781	0.015	0.070	#
14)		Endrin	7.942f	8.817	18139	20128	0.119	0.036	#
15)		4,4'-DDD	7.942f	8.858	18139	29335	BelowCal	BelowCal	
16)		Endosulfa...	8.060	8.966	9436	11477	0.062	0.048	
17)		4,4'-DDT	8.164	9.084	1233	14665	BelowCal	0.318	
18)		Endrin Al...	8.362	9.200	9154	26418	0.077	0.135	#
19)		Endosulfa...	8.668	9.394	6149	48220	BelowCal	BelowCal	
20)		Methoxychlor	8.501	9.570	6019	74159	0.190	1.147	#
21)		Endrin Ke...	8.860	9.824f	6285	363577	BelowCal	1.546	
23)		Hexachlor...	3.163	0.000	7137	0	BelowCal	N.D.	
24)		Hexachlor...	5.735	6.542	28188	16360	BelowCal	0.056	
25)		Oxychlordane	7.214	8.014	19768	19408	BelowCal	0.077	
26)		2,4'-DDE	7.293	8.219	11188	18591	0.104	0.098	
27)		trans-Non...	7.474	8.288	21335	22730	0.119	0.081	
28)		2,4'-DDD	7.668	8.590	10755	20781	0.109	0.123	
29)		2,4'-DDT	7.848	8.817	9828	20128	0.102	0.060	#
30)		cis-Nonac...	7.942	8.858	18139	29335	0.088	0.092	
31)		Mirex	8.608	9.824f	22634	363577	BelowCal	2.033	
32)		Chlordane...	7.376	8.238	7712	28777	0.404	0.847	#
33)		Chlordane...	7.474	0.000	21335	0	0.947	N.D.	#
34)		Chlordane...	8.033	9.001	2276	119986	0.399	1.771	#
35)		Chlordane...	3.757	0.000	243251	0	NoCal	N.D.	
36)		Toxaphene...	7.474	8.590f	21335	20781	22.914	8.783	#
37)		Toxaphene...	7.750	8.943f	3000	17958	78763.815	6.063	#
38)		Toxaphene...	8.060	8.966	9436	11477	BelowCal	2.368	
39)		Toxaphene...	8.275f	9.001f	59853	119986	12.700	8.725	
40)		Toxaphene...	8.542	9.200	4598	26418	1.815	3.279	#
41)		Toxaphene...	8.608	9.570	22634	74159	6.656	16.172	#
42)		Toxaphene...	3.757	0.000	243251	0	NoCal	N.D.	

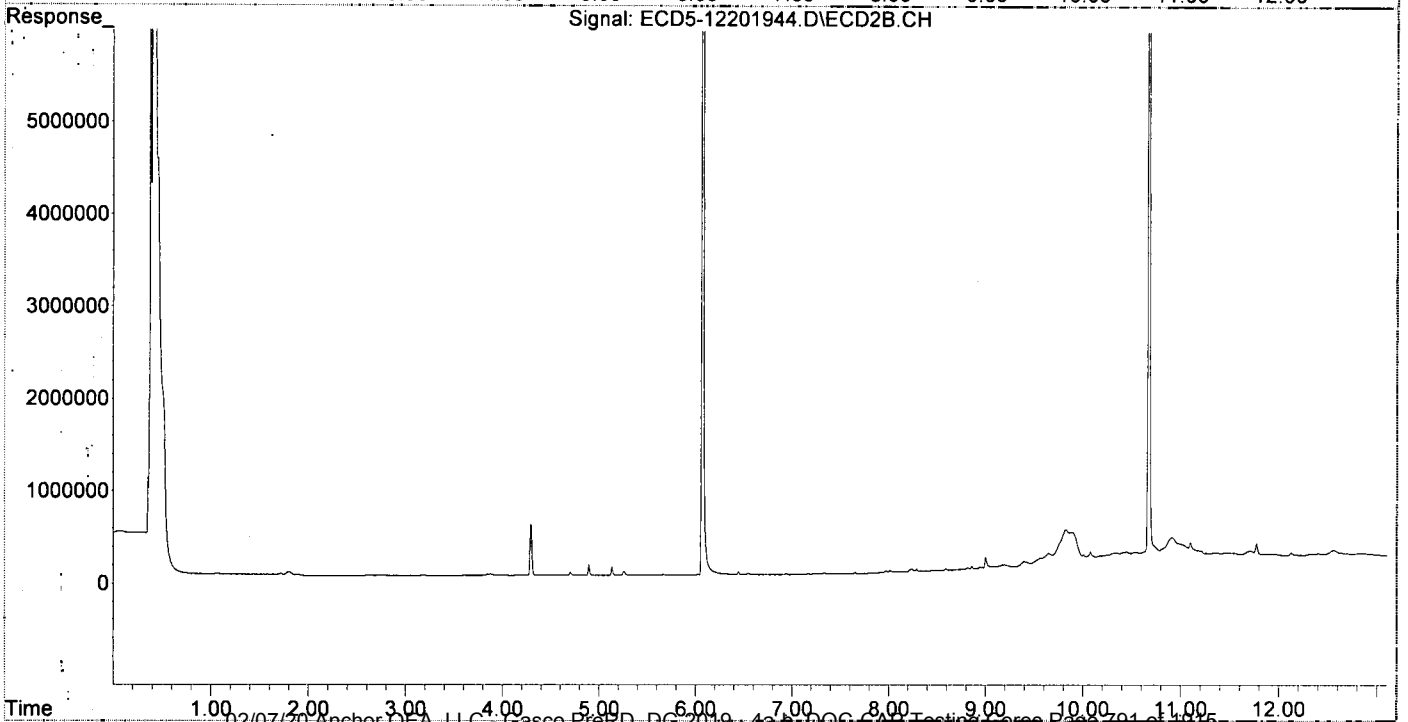
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L20036\
Data File : ECD5-12201944.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 0:11
Operator : MJB
Sample : 9L20036-CCB3
Misc : A19L018
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: Dec 21 13:08:15 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
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
Benchsheet & Analysis Sequence Data

Sequence 9L21009 (A9J0514-19RE1)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**9L21009**	Instrument:	**DUALECD5**
Date:	**12/21/19 13:20**	Calibration:	**A9L1807**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L21009-BKD1	Water	QC	QC				A19J201
2	9L21009-CCV1	Water	QC	QC				A19K133
3	9L21009-CCV2	Water	QC	QC				A19J408
4	9L21009-CCB1	Water	QC	QC				A19L018
5	9121154-BLK1	Soil	QC	QC		9121154		
6	9121154-BS1	Soil	QC	QC		9121154		
7	A9L0593-02RE1	Soil	8081B Pesticides		12/23/19	9121154		
8	9121154-DUP1	Soil	QC	QC		9121154		
9	A9L0593-04RE1	Soil	8081B Pesticides		12/23/19	9121154		
10	9121154-MS1	Soil	QC	QC		9121154		
11	A9J0096-23RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
12	9L21009-IBL1	Water	QC	QC				
13	A9J0514-19RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
14	9L21009-IBL2	Water	QC	QC				
15	9L21009-CCV3	Water	QC	QC				A19K134
16	9L21009-CCV4	Water	QC	QC				A19J409
17	9L21009-CCB2	Water	QC	QC				A19L018
18	9121153-BLK1	Water	QC	QC		9121153		
19	9121153-BS1	Water	QC	QC		9121153		
20	9121153-BSD1	Water	QC	QC		9121153		
21	A9L0493-01RE1	Water	608 Pesticides (SW)		12/27/19	9121153		
22	A9L0561-01RE1	Water	608 Pesticides (SW)		12/30/19	9121153		
23	A9L0561-02RE1	Water	608 Pesticides (SW)		12/30/19	9121153		
24	A9L0650-02RE1	Water	608 Pesticides (TTO)		12/31/19	9121153		
25	9L21009-CCV5	Water	QC	QC				A19K133
26	9L21009-CCB3	Water	QC	QC				A19L018
27	9L21009-IBL3	Water	QC	QC				

Comments:

Data Entered By: MJB 12/23/19

Data Reviewed By: [illegible] 12/24/19

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 9L21009 1 BKD1
Data File: ECD5-1221903.D
MJB 12/23/19

First Column Area Counts		Percent Breakdown	
DDE	744496		
DDD	8158729		
DDT	148622506	**5.65**	**PASS**
Endrin	84716465	**10.25**	**PASS**
Endrin Aldehyde	2691937		
Endrin Ketone	6983844		

Second Column Area Counts		Percent Breakdown	
DDE	1128654		
DDD	12131756		
DDT	221118608	**5.66**	**PASS**
Endrin	130953588	**8.76**	**PASS**
Endrin Aldehyde	3396055		
Endrin Ketone	9183091		

Breakdown must be less than 15% to accept sample data.

MJB 12/23/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L21009\
Data File : ECD5-12211903.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 14:07
Operator : MJB
Sample : 9L21009-BKD1
Misc : A19J201
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: Dec 21 14:20:21 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_191217.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
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	7.546	744496	NoCal	ng/mL
2)	Endrin	7.916	84716465	NoCal	ng/mL
3)	4,4'-DDD	7.967	8158729	NoCal	ng/mL
4)	4,4'-DDT	8.164	148622506	NoCal	ng/mL
5)	Endrin Aldehyde	8.364	2691937	NoCal	ng/mL
6)	Endrin Ketone	8.859	6983844	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.439	1128654	NoCal	ng/mL
9)	Endrin [2C]	8.820	130953588	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.857	12131756	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.204	3396055	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.086	221118608	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.799	9183091	NoCal	ng/mL

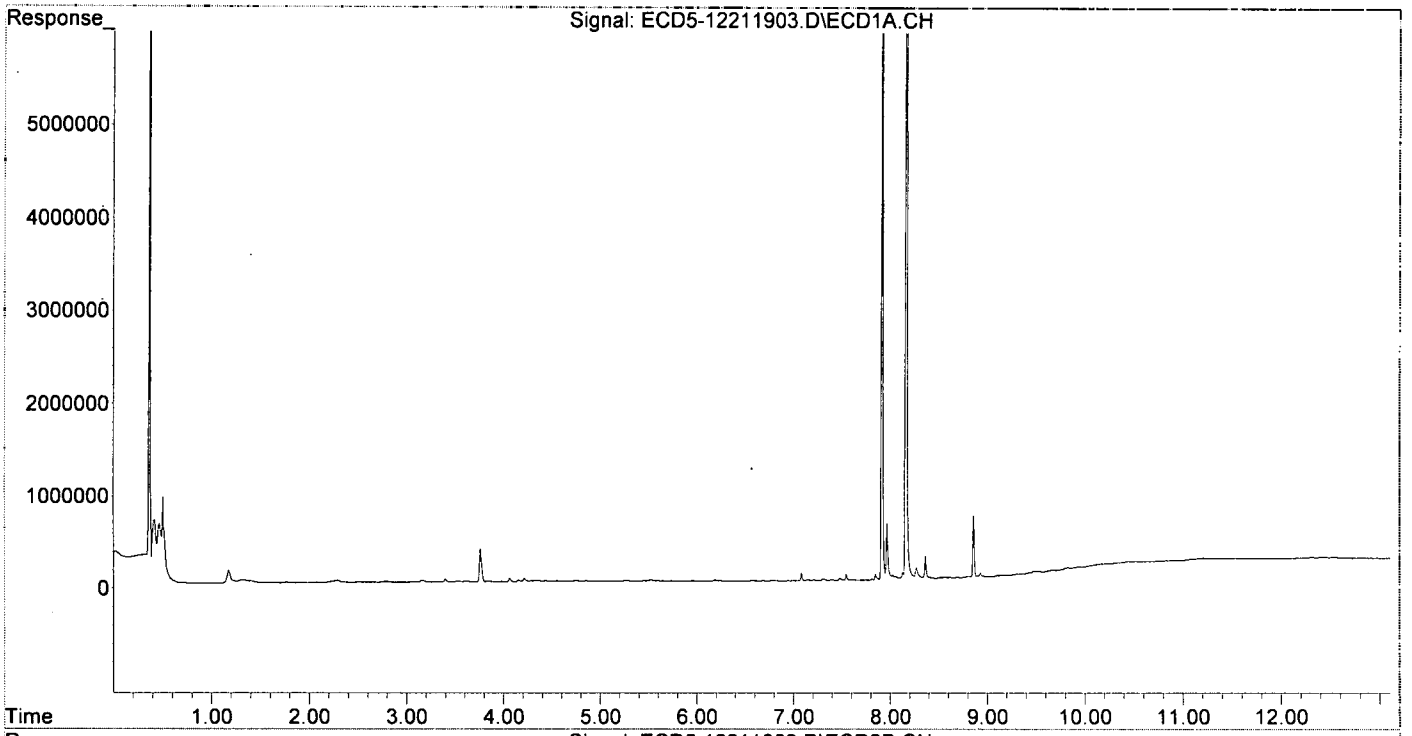
(f)=RT Delta > 1/2 Window (m)=manual int.

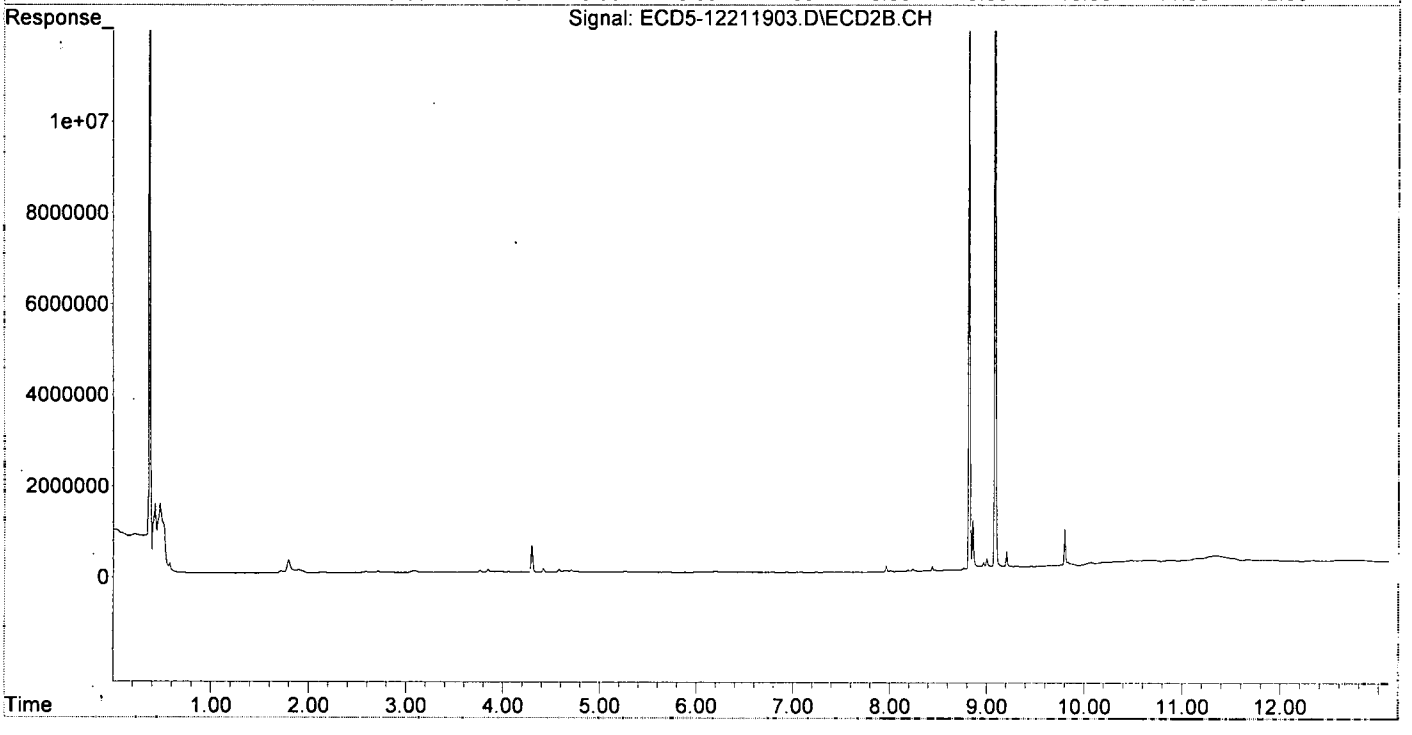
MJB 12/23/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L21009\
Data File : ECD5-12211903.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 14:07
Operator : MJB
Sample : 9L21009-BKD1
Misc : A19J201
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: Dec 21 14:20:21 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_191217.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 14:24
Operator : MJB
Sample : 9L21009-CCV1
Misc : A19K133, 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: Dec 23 11:19:16 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/23/19

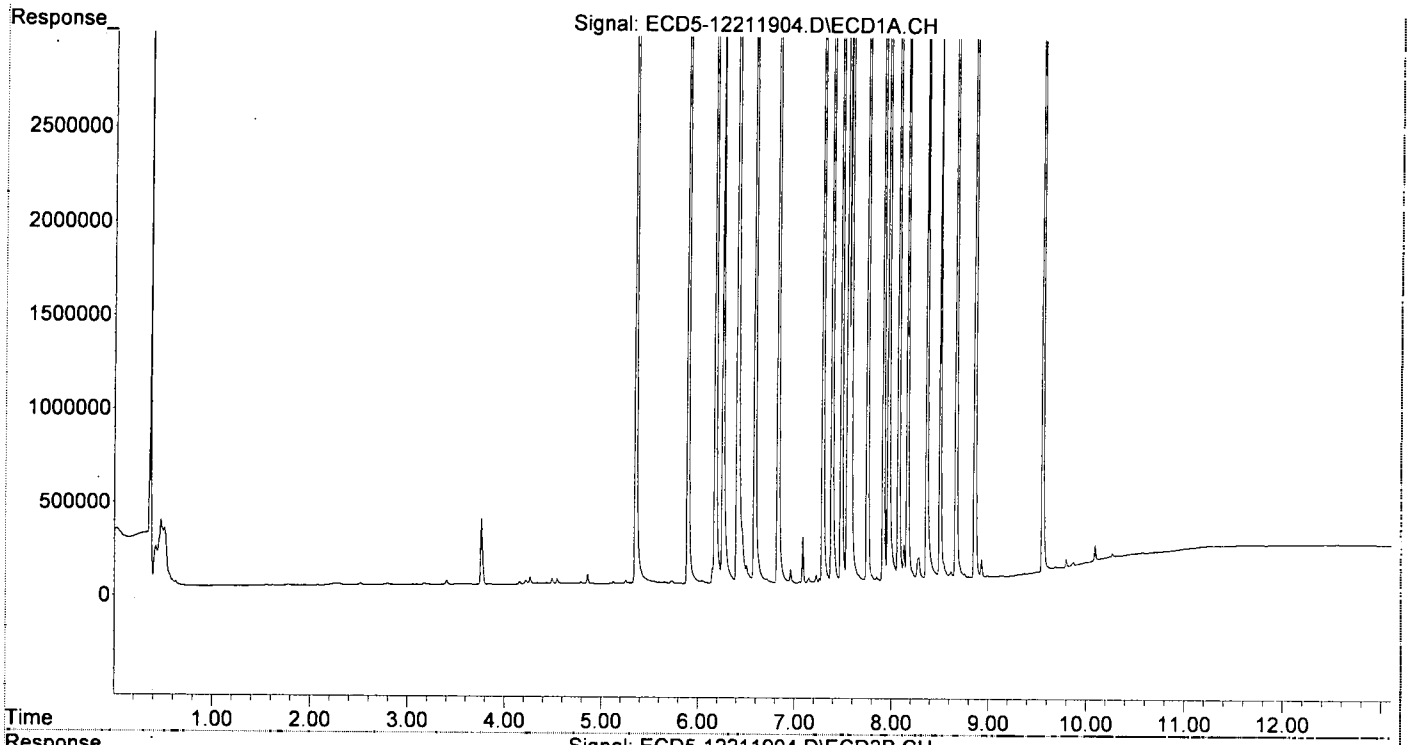
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.355	6.073	8251484	14615107	46.261	49.231	
22)	S DCBP (S)	9.556	10.674	6877549	8537838	50.948	50.140	
	Target Compounds							
2)	a-BHC	5.895	6.682	12196741	21718526	50.806	54.577	
3)	g-BHC	6.178	7.001	9908343	18528118	48.723	54.717	
4)	b-BHC	6.255	7.064	3346146	6950325	47.194	50.153	
5)	Heptachlor	6.586	7.380	9313324	17141862	50.654	57.294	
6)	d-BHC	6.406	7.322	7388116	17359881	48.797	55.860	
7)	Aldrin	6.827	7.648	9457444	16841301	49.805	54.278	
8)	Heptachlo...	7.289	8.087	8841681	15101394	49.212	52.731	
9)	trans-Chl...	7.385	8.228	9109590	15564767	50.528	53.361	
10)	cis-Chlor...	7.481	8.336	8942096	14718399	52.233	52.444	
11)	Endosulfa...	7.579	8.388	8630969	14215186	49.111	54.083	
12)	4,4'-DDE	7.546	8.439	8075011	15066641	52.559	54.004	
13)	Dieldrin	7.751	8.590	9929010	16285632	50.585	54.825	
14)	Endrin	7.916	8.819	8064472	12632742	52.784	57.278	
15)	4,4'-DDD	7.968	8.857	6995713	12592285	54.131	55.621	
16)	Endosulfa...	8.073	8.966	7363772	12704259	48.196	53.661	
17)	4,4'-DDT	8.164	9.086	6495906	10905205	59.941	63.024	Q-41
18)	Endrin Al...	8.364	9.203	6446715	10634369	53.930	54.174	
19)	Endosulfa...	8.666	9.394	7509895	12301775	53.128	58.494	
20)	Methoxychlor	8.502	9.564	3214852	5606417	59.722	65.791	Q-41
21)	Endrin Ke...	8.860	9.800	8866874	13741349	53.494	59.341	
23)	Hexachlor...	3.170	0.000	8749	0	BelowCal	N.D.	
24)	Hexachlor...	5.731	6.554	14586	8222	BelowCal	0.028	
25)	Oxychlordane	7.224	8.007	41420	15729	0.099	0.062	
26)	2,4'-DDE	7.289	8.228	8841681	15564767	82.004	81.843	
27)	trans-Non...	7.481	8.285	8942096	58379	49.747	0.207	#
28)	2,4'-DDD	0.000	8.590	0	16285632	N.D.	96.059	#
29)	2,4'-DDT	7.849	8.819	20705	12632742	0.214	80.742	#
30)	cis-Nonac...	7.968f	8.857	6995713	12592285	33.973	39.325	
31)	Mirex	8.614	9.800	36483	13741349	0.055	82.675	#
32)	Chlordane...	7.385	8.228	9109590	15564767	476.773	458.326	
33)	Chlordane...	7.481	8.336	8942096	14718399	396.925	509.519	
34)	Chlordane...	0.000	8.999	0	235004	N.D.	16.640	#
35)	Chlordane...	3.759f	0.000	351862	0	NoCal	N.D.	
36)	Toxaphene...	7.481	8.560	8942096	37571	9268.711	15.879	#
37)	Toxaphene...	7.751	0.000	9929010	0	6802.399	N.D.	#
38)	Toxaphene...	8.073	8.966	7363772	12704259	2034.207	2621.549	
39)	Toxaphene...	8.278f	9.040	115686	70888	30.518	1.608	#
40)	Toxaphene...	8.502f	9.203	3214852	10634369	1268.886	2242.198	#
41)	Toxaphene...	8.614	9.564f	36483	5606417	10.728	1222.590	#
42)	Toxaphene...	3.759	0.000	351862	0	NoCal	N.D.	

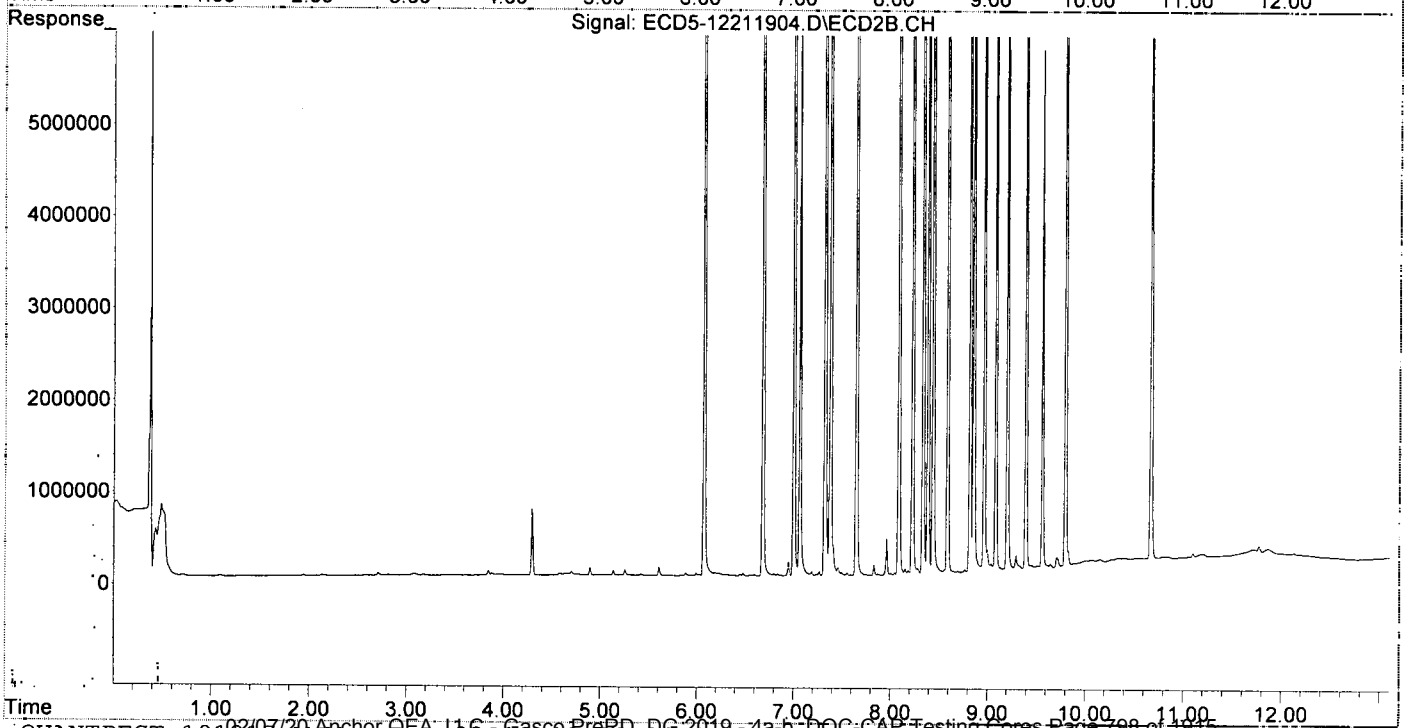
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 14:24
Operator : MJB
Sample : 9L21009-CCV1
Misc : A19K133, 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: Dec 23 11:19:16 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 14:41
Operator : MJB
Sample : 9L21009-CCV2
Misc : A19J408, 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: Dec 23 11:19:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

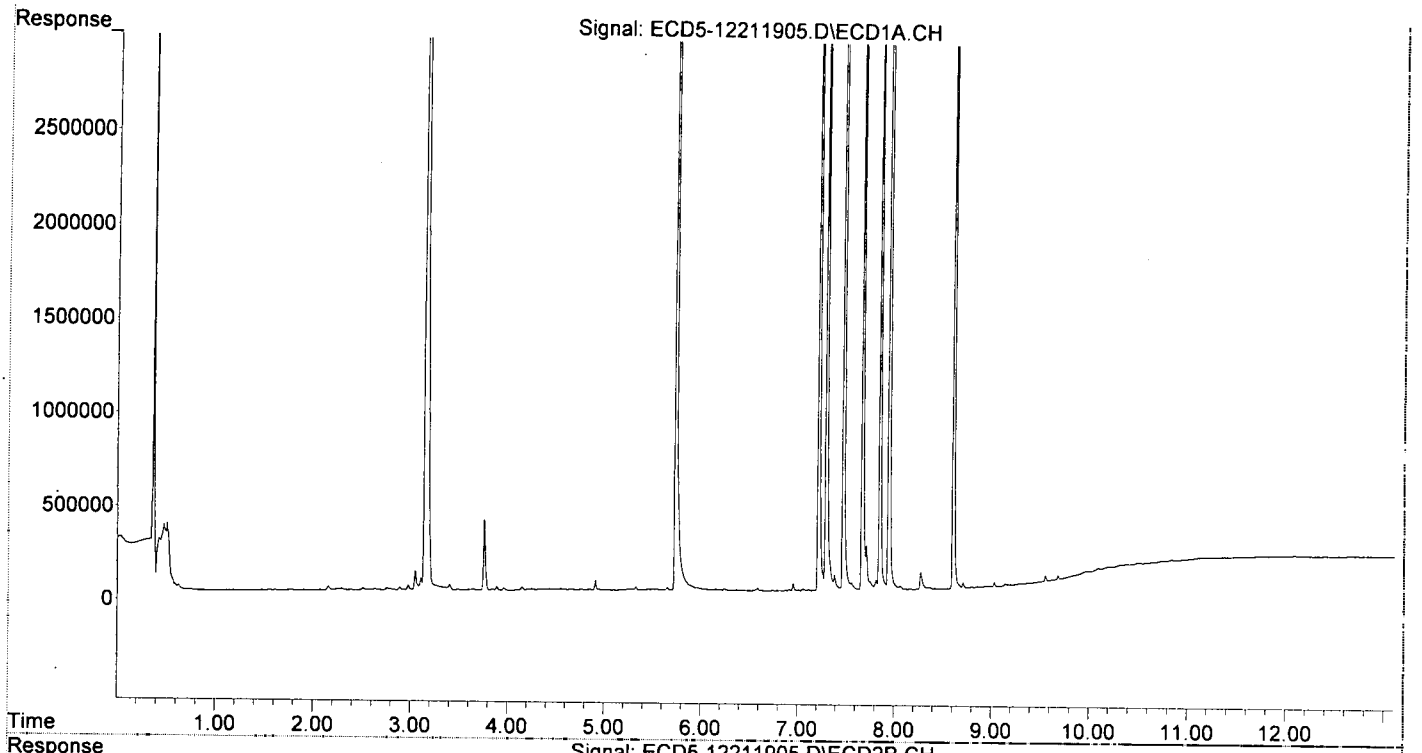
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.327f	6.074	19382	9146	0.109	0.031	#
22)	S	DCBP (S)	9.556	10.671	34154	118143	0.044	0.694	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.150f	0.000	6094	0	0.030	N.D.	#
4)		b-BHC	6.243	7.084f	9165	5703	0.129	0.041	#
5)		Heptachlor	6.585	7.378	13140	20318	0.071	0.068	
6)		d-BHC	6.370f	7.337	3502	5967	BelowCal	BelowCal	
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	7.294	8.084	5176471	42691	28.812	0.149	#
9)		trans-Chl...	7.383	8.217	82573	9636632	0.458	33.037	#
10)		cis-Chlor...	7.472	0.000	8505806	0	49.747	N.D.	#
11)		Endosulfa...	7.560	8.394	37586	41827	0.214	0.159	
12)		4,4'-DDE	7.560	8.414f	37586	24996	0.245	0.043	#
13)		Dieldrin	7.711f	8.592	237952	8401516	1.212	28.283	#
14)		Endrin	7.943f	8.818	9957430	8979819	65.174	41.763	
15)		4,4'-DDD	7.943f	8.859	9957430	16475194	74.957	70.994	
16)		Endosulfa...	8.060	8.943f	19078	33040	0.125	0.140	
17)		4,4'-DDT	8.164	0.000	4441	0	0.016	N.D.	#
18)		Endrin Al...	8.367	9.204	11246	23646	0.094	0.120	
19)		Endosulfa...	0.000	9.395	0	15844	N.D.	BelowCal	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.860	9.794	4206	8584212	BelowCal	38.420	
23)		Hexachlor...	3.152	3.758	7449379	16553563	45.757	45.704	
24)		Hexachlor...	5.735	6.542	7382791	14159654	45.415	48.323	
25)		Oxychlordane	7.216	8.015	7097899	12352562	48.129	48.825	
26)		2,4'-DDE	7.294	8.217	5176471	9636632	48.010	50.672	
27)		trans-Non...	7.472	8.290	8505806	14020147	47.320	49.695	
28)		2,4'-DDD	7.667	8.592	4673498	8401516	47.531	49.556	
29)		2,4'-DDT	7.849	8.818	5181990	8979819	53.555	59.852	
30)		cis-Nonac...	7.943	8.859	9957430	16475194	48.356	51.451	
31)		Mirex	8.608	9.794	5740836	8584212	48.152	53.226	
32)		Chlordane...	7.383	8.217	82573	9636632	4.322	283.764	#
33)		Chlordane...	7.472	0.000	8505806	0	377.559	N.D.	#
34)		Chlordane...	8.060f	9.001	19078	193212	3.342	11.241	#
35)		Chlordane...	3.758f	3.758f	374703	16553563	NoCal	NoCal	
36)		Toxaphene...	7.472	8.592f	8505806	8401516	8872.076	3550.860	#
37)		Toxaphene...	0.000	8.943f	0	33040	N.D.	11.155	#
38)		Toxaphene...	8.060	8.943	19078	33040	2.799	6.818	#
39)		Toxaphene...	8.274f	9.001f	89704	193212	22.230	19.318	
40)		Toxaphene...	0.000	9.204	0	23646	N.D.	2.585	#
41)		Toxaphene...	8.608	0.000	5740836	0	1688.116	N.D.	#
42)		Toxaphene...	3.758	3.758f	374703	16553563	NoCal	NoCal	

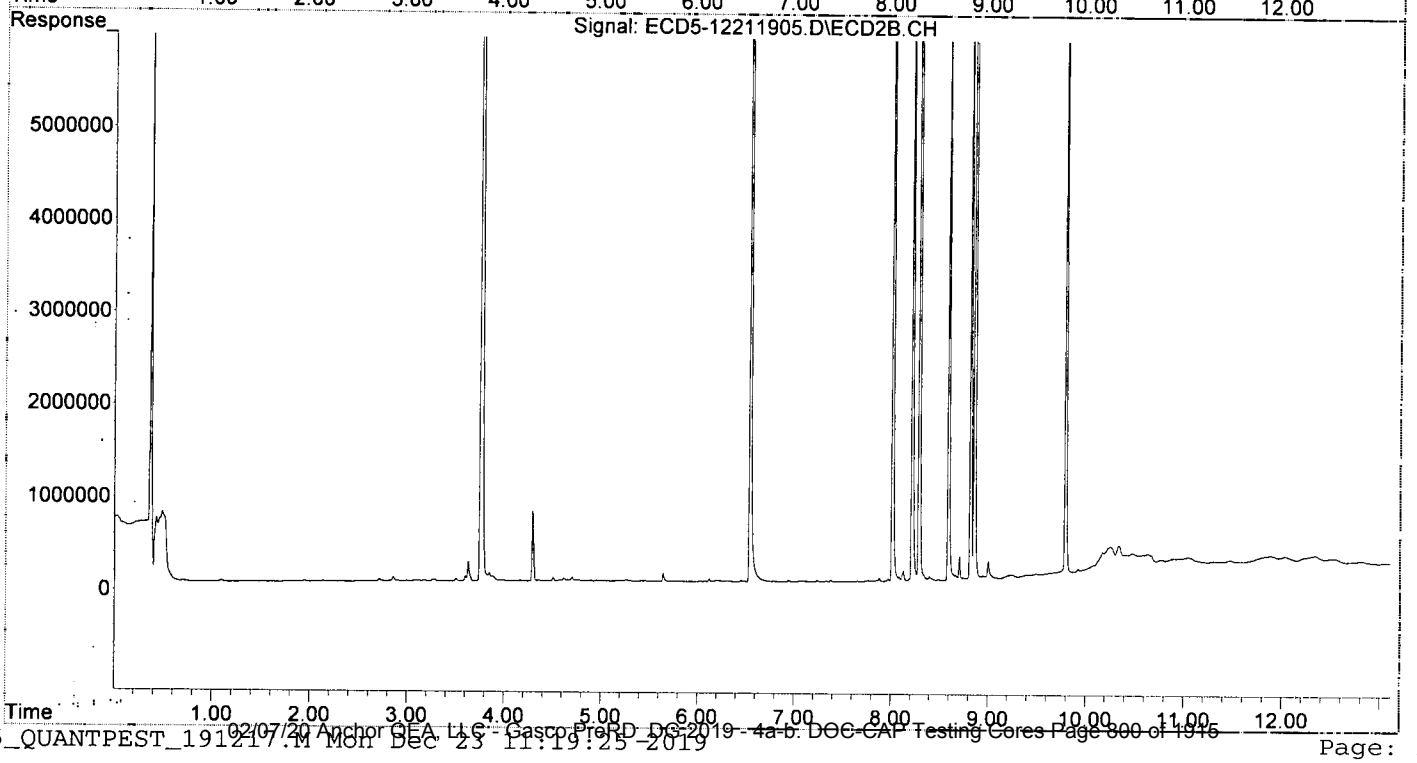
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 14:41
Operator : MJB
Sample : 9L21009-CCV2
Misc : A19J408, 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: Dec 23 11:19:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 14:58
Operator : MJB
Sample : 9L21009-CCB1
Misc : A19L018
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: Dec 23 11:19:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/23/19

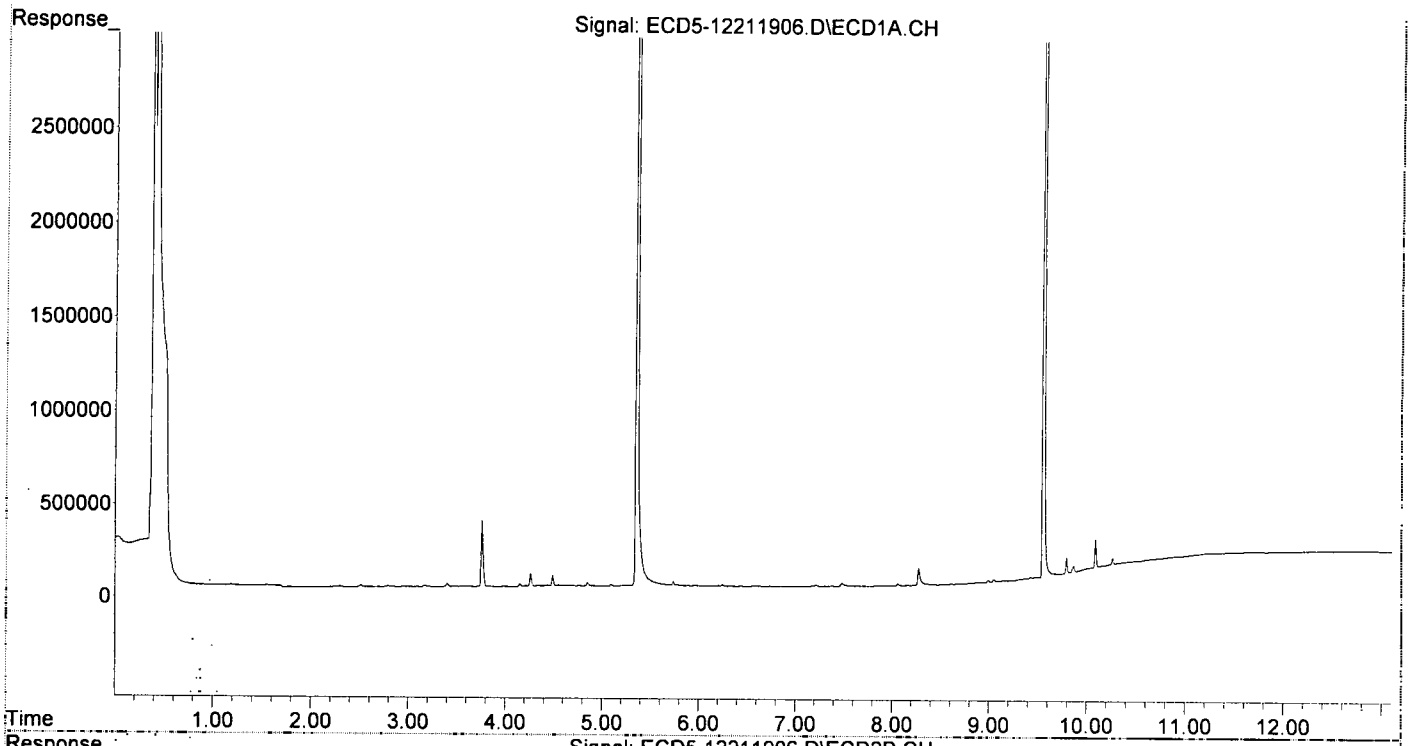
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.354	6.073	16864465	30408232	94.548	102.430	
22)	S DCBP (S)	9.555	10.675	14060859	17776143	102.693	104.394	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.244	0.000	7787	0	0.110	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	7.655	0	6435	N.D.	0.021	#
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	7.376	8.238	2935	39602	0.016	0.136	#
10)	cis-Chlor...	7.484	0.000	16957	0	BelowCal	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	8.818	0	9987	N.D.	BelowCal	
15)	4,4'-DDD	0.000	8.858	0	7014	N.D.	BelowCal	
16)	Endosulfa...	8.060	8.943f	11320	23100	0.074	0.098	
17)	4,4'-DDT	8.165	9.085	3744	21137	0.008	0.363	#
18)	Endrin Al...	0.000	9.199	0	15172	N.D.	0.077	#
19)	Endosulfa...	8.668	9.392	2555	47020	BelowCal	BelowCal	
20)	Methoxychlor	8.497	9.566	4572	31261	0.160	0.561	#
21)	Endrin Ke...	8.862	9.773f	2003	23949	BelowCal	BelowCal	
23)	Hexachlor...	3.169	0.000	8228	0	BelowCal	N.D.	
24)	Hexachlor...	5.736	6.556	25552	6839	BelowCal	0.023	
25)	Oxychlordane	7.214	0.000	10707	0	BelowCal	N.D.	
26)	2,4'-DDE	0.000	8.238	0	39602	N.D.	0.208	#
27)	trans-Non...	7.484	8.287	16957	3089	0.094	0.011	#
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)	2,4'-DDT	0.000	8.818	0	9987	N.D.	BelowCal	
30)	cis-Nonac...	0.000	8.858	0	7014	N.D.	0.022	#
31)	Mirex	8.611	9.773f	5820	23949	BelowCal	BelowCal	
32)	Chlordane...	7.376	8.238	2935	39602	0.154	1.166	#
33)	Chlordane...	7.484	0.000	16957	0	0.753	N.D.	#
34)	Chlordane...	8.060f	9.000	11320	175651	1.983	8.971	#
35)	Chlordane...	3.758f	0.000	356620	0	NoCal	N.D.	
36)	Toxaphene...	7.484	0.000	16957	0	17.597	N.D.	#
37)	Toxaphene...	0.000	8.943f	0	23100	N.D.	7.799	#
38)	Toxaphene...	8.060	8.943	11320	23100	0.400	4.767	#
39)	Toxaphene...	8.274f	9.000f	93017	175651	23.287	16.780	
40)	Toxaphene...	0.000	9.199	0	15172	N.D.	0.463	#
41)	Toxaphene...	8.611	9.566f	5820	31261	1.712	6.817	#
42)	Toxaphene...	3.758	0.000	356620	0	NoCal	N.D.	

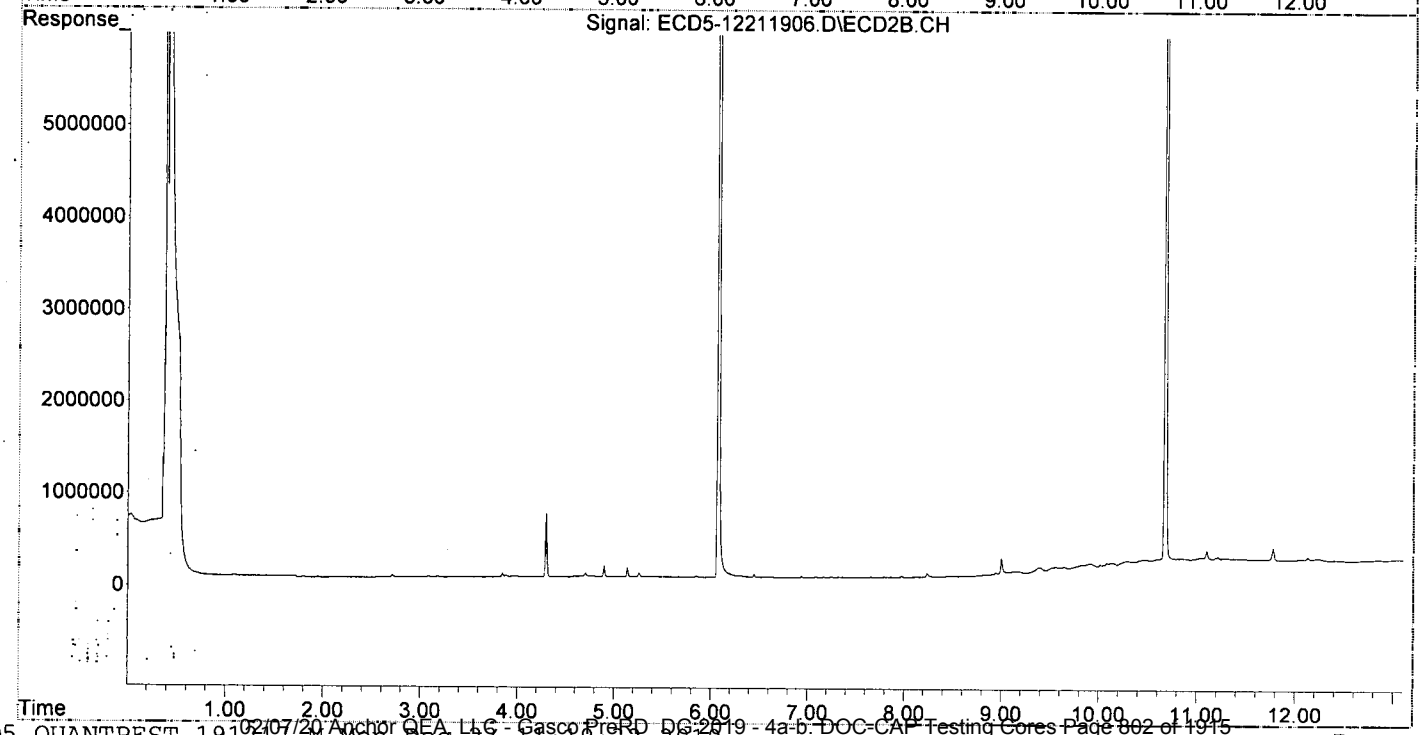
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 14:58
Operator : MJB
Sample : 9L21009-CCB1
Misc : A19L018
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: Dec 23 11:19:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 15:15
Operator : MJB
Sample : 9121154-BLK1
Misc : 1x, 8081B, GPC
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: Dec 23 11:31:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/23/19

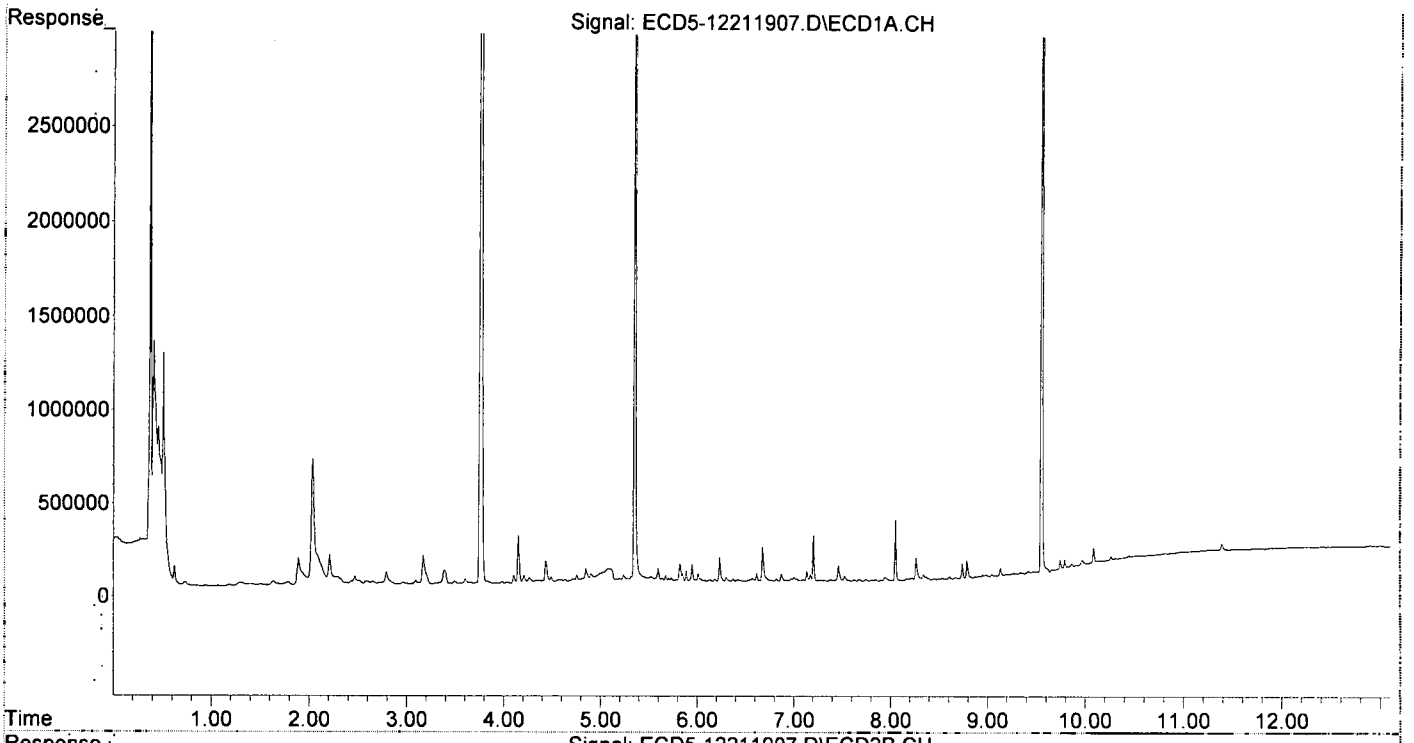
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.353	6.071	4690501	8036314	26.296	27.070
22)	S	DCBP (S)	9.552	10.673	6860831	7965161	50.825	46.777
		Target Compounds						
2)		a-BHC	5.886	0.000	96341	0	0.401	N.D. #
3)		g-BHC	6.181	6.996	54297	10629	0.267	0.031m#
4)		b-BHC	6.247	7.049	33409	16199	0.471m	0.117 #
5)		Heptachlor	6.570	7.381	60756	6090	0.330	0.020m#
6)		d-BHC	6.422	7.318	52681	8020	0.349	BelowCal #
7)		Aldrin	6.823	7.652	59960	13764	0.316	0.044 #
8)		Heptachlo...	7.286	8.065f	55056	54154	0.306	0.189
9)		trans-Chl...	7.381	8.223	57723	128219	0.320	0.440
10)		cis-Chlor...	7.461	8.351	132149	28234	0.610	0.101 #
11)		Endosulfa...	0.000	8.392	0	16116	N.D.	0.061 #
12)		4,4'-DDE	7.524f	8.436	74348	15240	0.484	0.004 #
13)		Dieldrin	7.748	8.574	60283	38468	0.307	0.130 #
14)		Endrin	7.924	8.817	55461	9769	0.363m	BelowCal #
15)		4,4'-DDD	7.943f	8.854	70796	3794	0.418	BelowCal #
16)		Endosulfa...	8.065	8.953	90437	51386	0.592m	0.217m#
17)		4,4'-DDT	8.160	9.078	65522	25901	0.688	0.396 #
18)		Endrin Al...	8.365	9.198	75662	9163	0.633	0.047 #
19)		Endosulfa...	8.666	9.403	74113	6423	0.259	BelowCalm#
20)		Methoxychlor	8.496	9.558	65289	7683	1.428	0.238 #
21)		Endrin Ke...	8.875	9.795	78879	64220	0.263	0.102 #
23)		Hexachlor...	3.169	3.738f	172731	277755	0.910	0.767
24)		Hexachlor...	5.734	6.551	59507	193151	0.193	0.659 #
25)		Oxychlordane	7.203	8.008	292240	29220	1.870	0.115 #
26)		2,4'-DDE	7.286	8.223	55056	128219	0.511	0.674
27)		trans-Non...	7.461	8.288	132149	36275	0.735	0.129 #
28)		2,4'-DDD	7.674	8.574f	59191	38468	0.602	0.227 #
29)		2,4'-DDT	7.844	8.817	59453	9769	0.614	BelowCal #
30)		cis-Nonac...	7.943	8.854	70796	3794	0.344	0.012 #
31)		Mirex	8.607	9.795	78344	64220	0.411	0.051 #
32)		Chlordane...	7.381	8.223	57723	128219	3.021	3.776
33)		Chlordane...	7.461f	8.351	132149	28234	5.866	0.977 #
34)		Chlordane...	8.051	8.996	378372	208200	66.288	13.178 #
35)		Chlordane...	3.758f	3.738	6951624	277755	NoCal	NoCal
36)		Toxaphene...	7.461	8.574	132149	38468	157.120	16.258 #
37)		Toxaphene...	7.748	8.940	60283	368205	34.139	124.317 #
38)		Toxaphene...	8.051f	8.940f	378372	368205	113.177	75.980
39)		Toxaphene...	8.339f	8.996f	85925	208200	21.024	21.483
40)		Toxaphene...	8.530	9.198	69639	9163	27.486	BelowCal #
41)		Toxaphene...	8.607	9.595	78344	101024	23.037	22.030
42)		Toxaphene...	3.758	3.738	6951624	277755	NoCal	NoCal

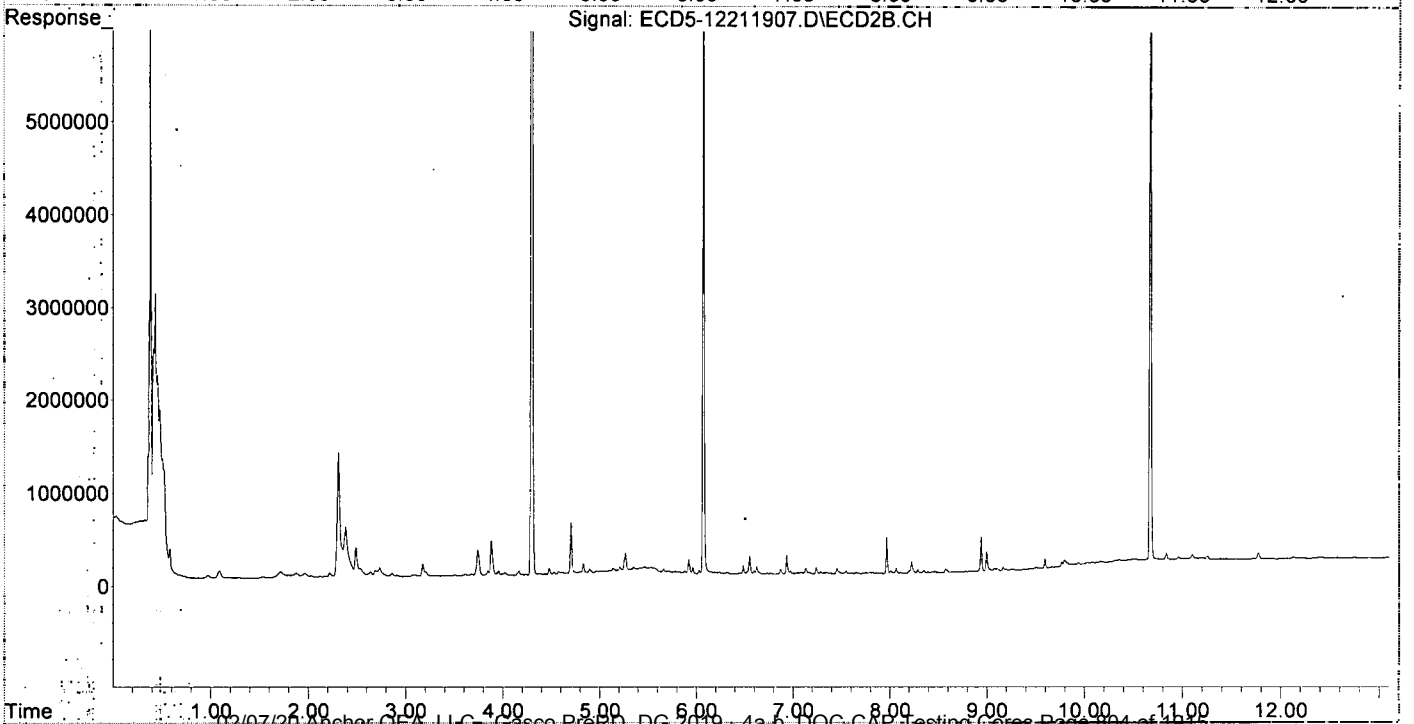
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 15:15
Operator : MJB
Sample : 9121154-BLK1
Misc : 1x, 8081B, GPC
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: Dec 23 11:31:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

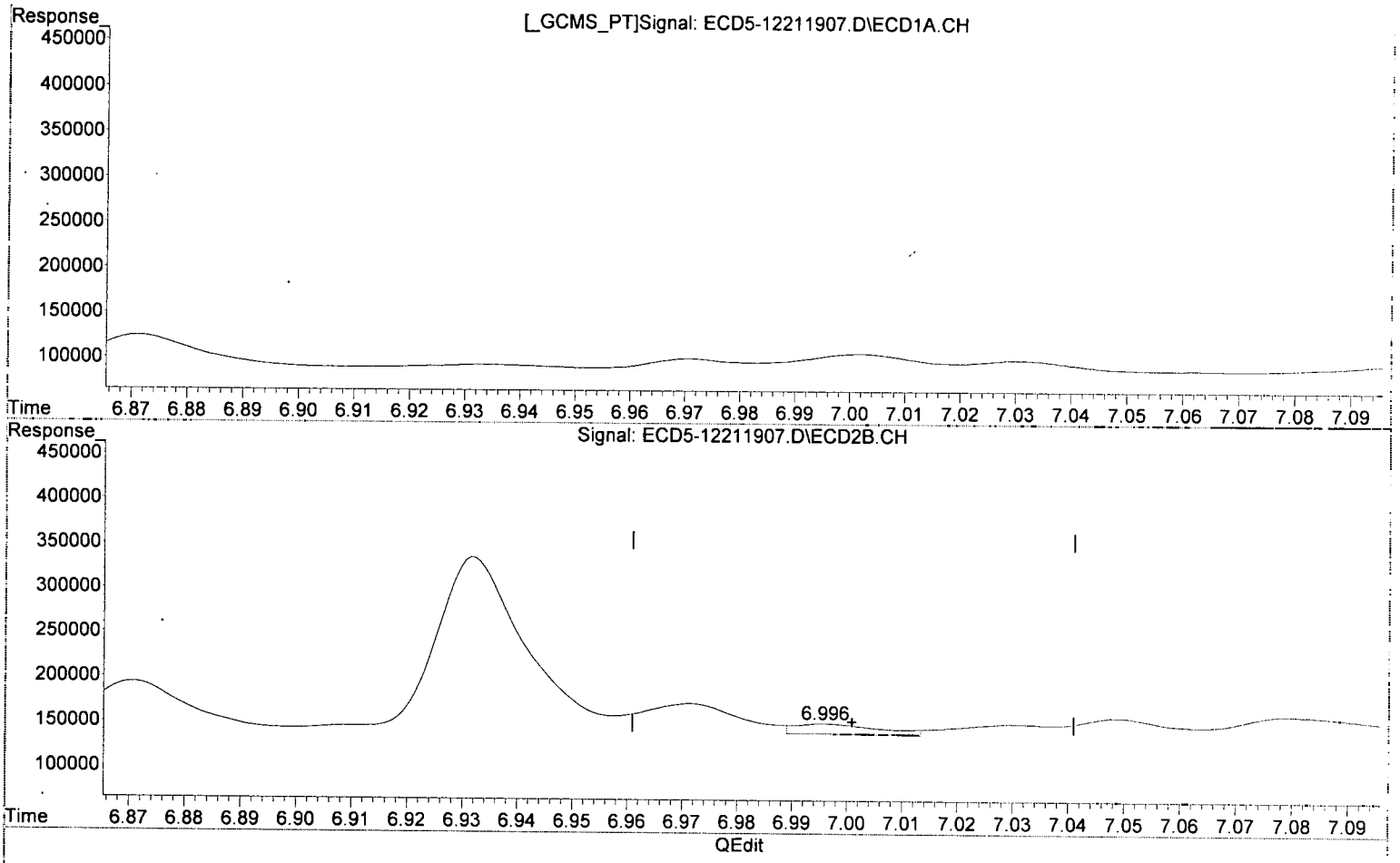




Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 15:15
Operator : MJB
Sample : 9121154-BLK1
Misc : 1x, 8081B, GPC
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: Dec 23 11:19:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(3) g-BHC

6.181min 0.267 ng/mL

response 54297

MJB 12/23/19

(3) g-BHC #2

6.996min 0.031 ng/mL m

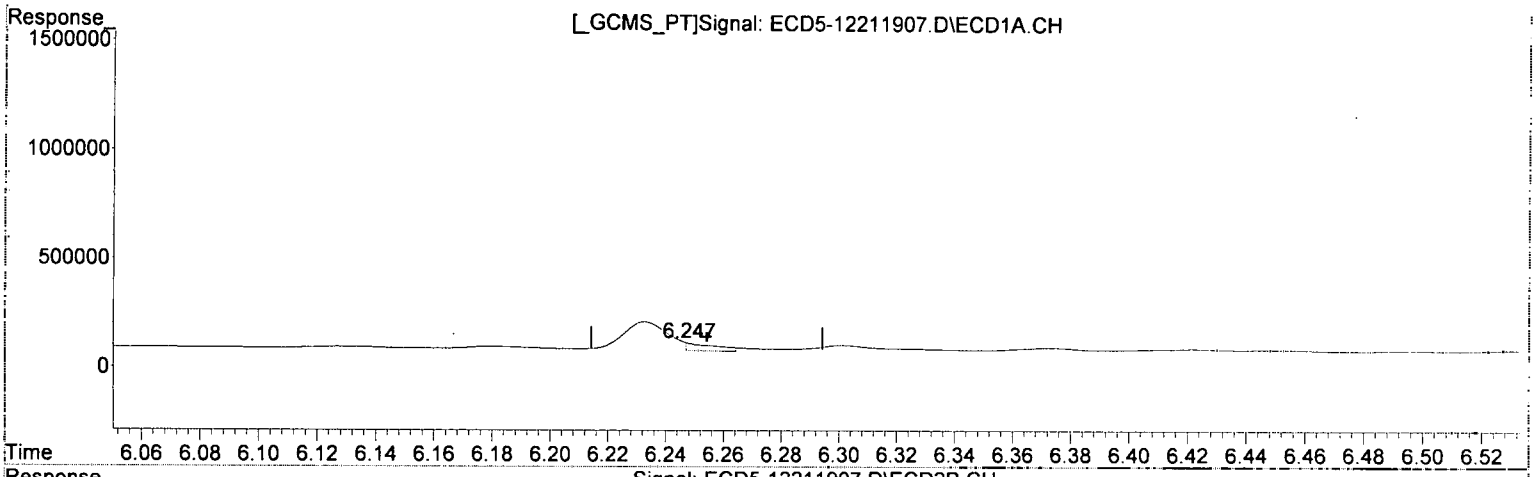
response 10629

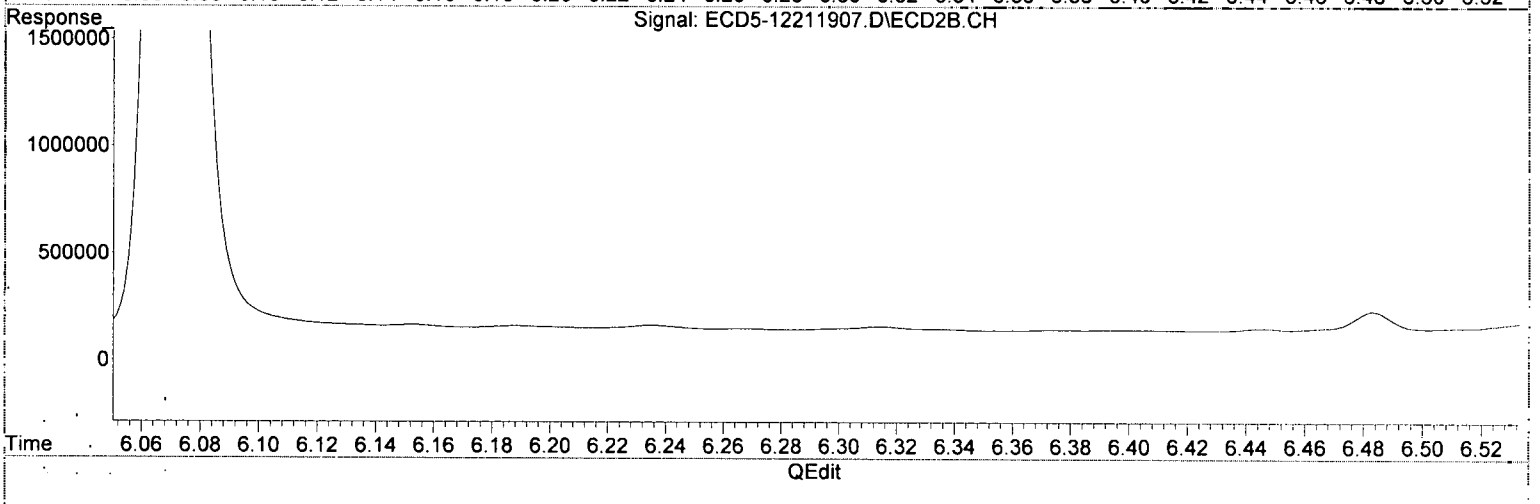
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 15:15
Operator : MJB
Sample : 9121154-BLK1
Misc : 1x, 8081B, GPC
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: Dec 23 11:19:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(4) b-BHC

6.247min 0.471 ng/mL (m)

response 33409

WB 12/23/19

(4) b-BHC #2

7.049min 0.117 ng/mL

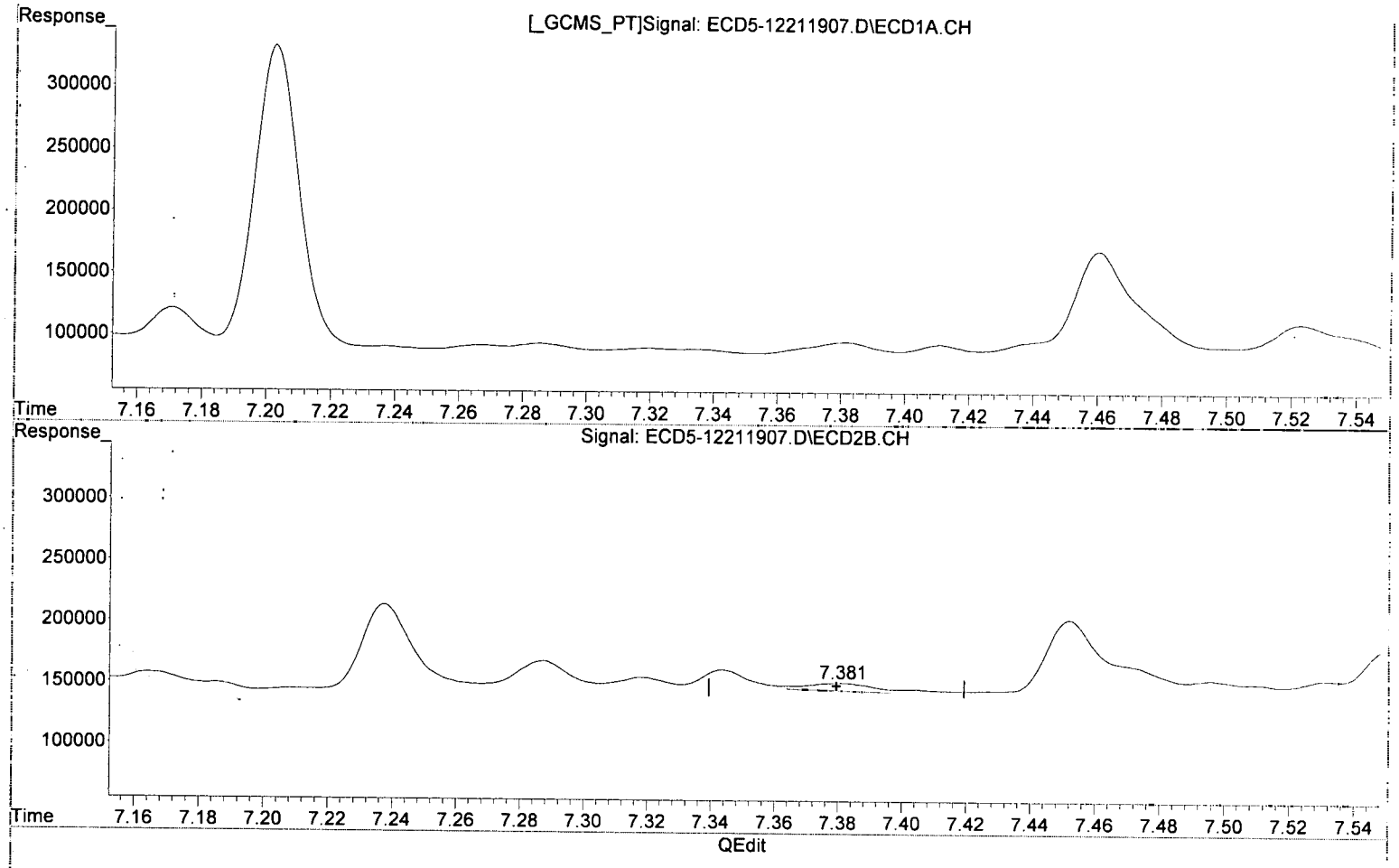
response 16199

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 15:15
Operator : MJB
Sample : 9121154-BLK1
Misc : 1x, 8081B, GPC
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: Dec 23 11:19:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(5) Heptachlor

6.570min 0.330 ng/mL

response 60756

MJB 12/23/19

(5) Heptachlor #2

7.381min 0.020 ng/mL m

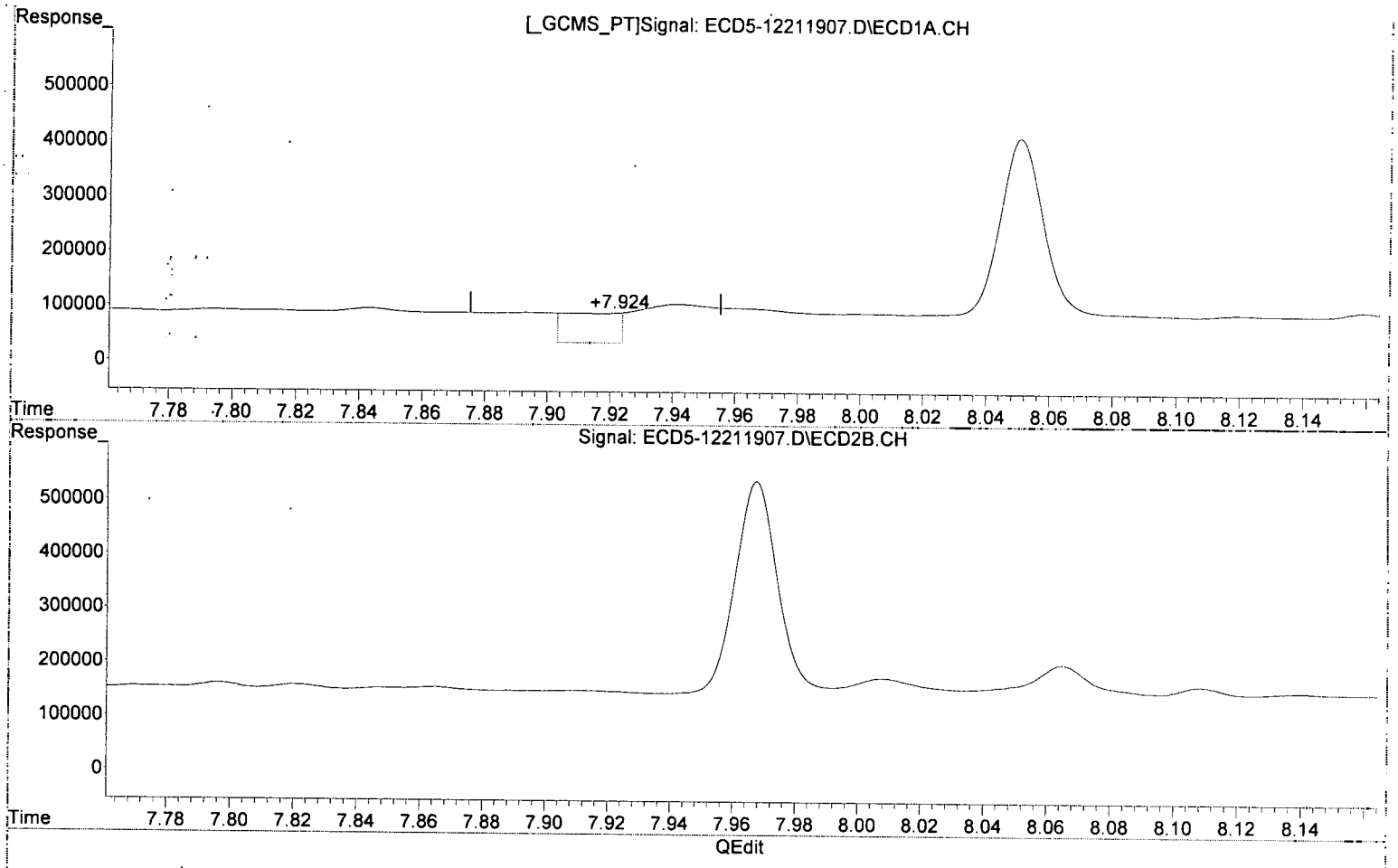
response 6090

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 15:15
Operator : MJB
Sample : 9121154-BLK1
Misc : 1x, 8081B, GPC
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: Dec 23 11:19:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(14) Endrin

7.924min 0.363 ng/mL m

response 55461

MJB 12/23/19

(14) Endrin #2

8.817min -0.016 ng/mL

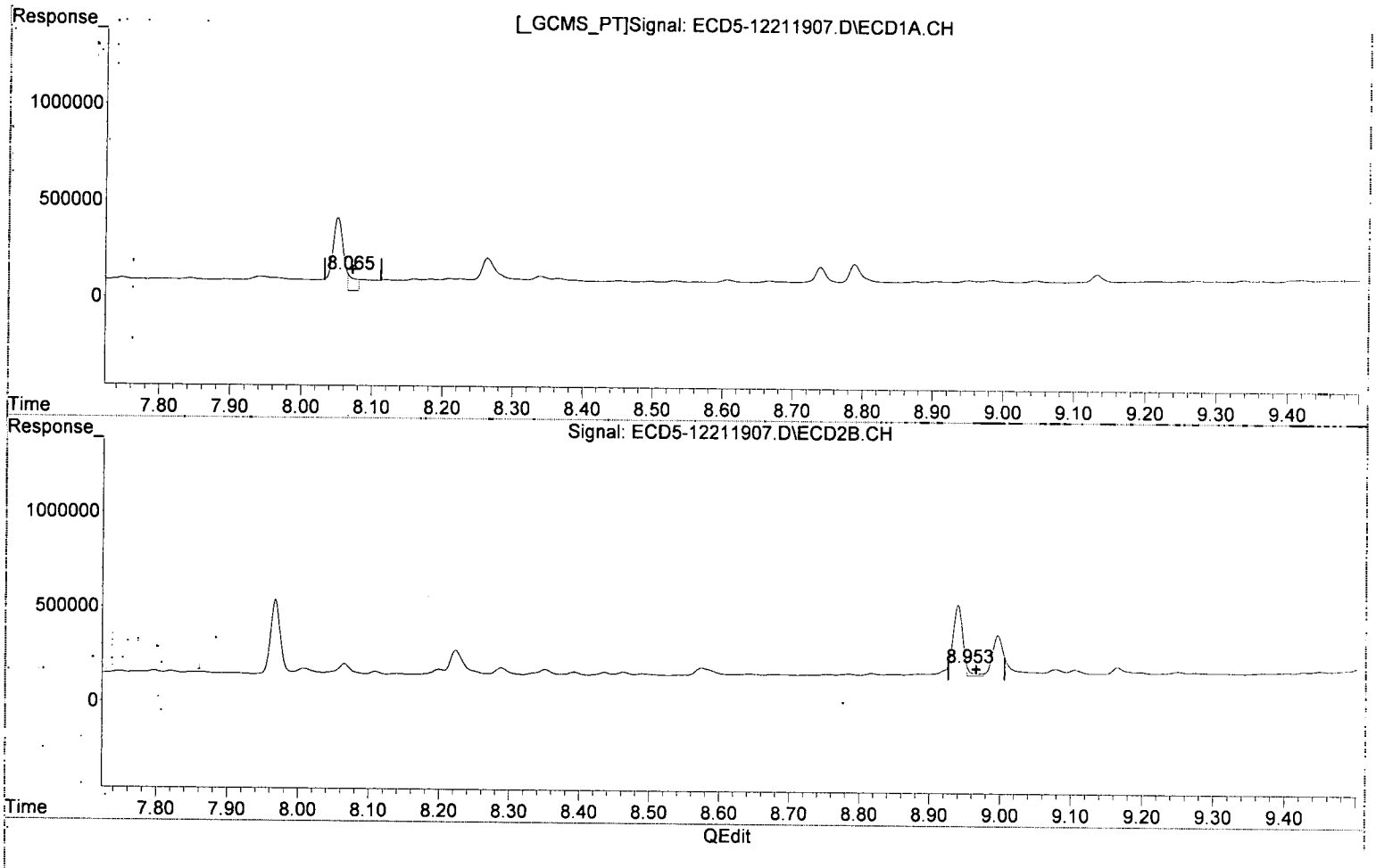
response 9769

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 15:15
Operator : MJB
Sample : 9121154-BLK1
Misc : 1x, 8081B, GPC
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: Dec 23 11:19:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(16) Endosulfan II

8.065min 0.592 ng/mL (m)

response 90437

MJB 12/23/19

(16) Endosulfan II #2

8.953min 0.217 ng/mL (m)

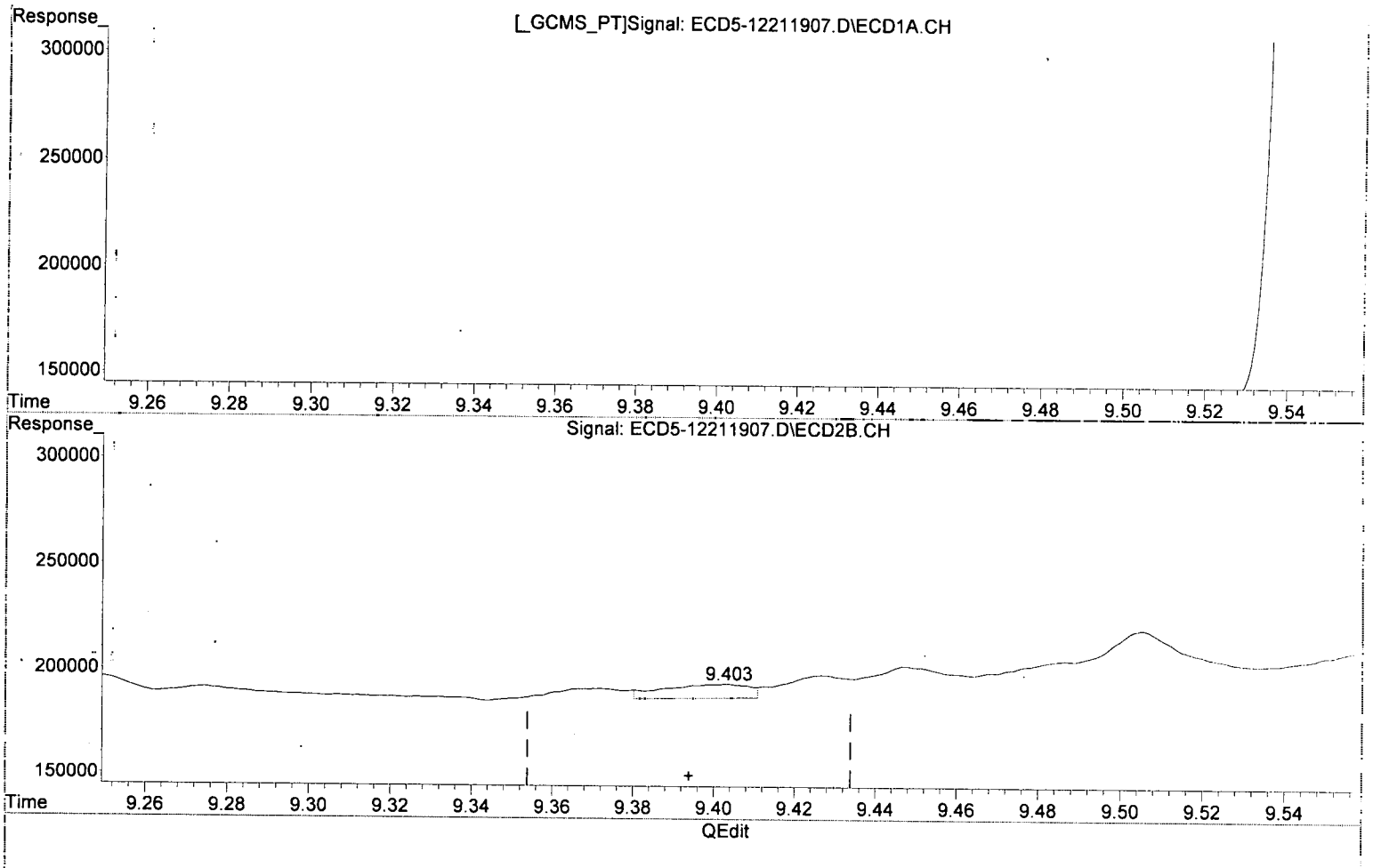
response 51386

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 15:15
Operator : MJB
Sample : 9121154-BLK1
Misc : 1x, 8081B, GPC
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: Dec 23 11:19:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(19) Endosulfan Sulfate

8.666min 0.259 ng/mL

response 74113

MJB 12/23/19

(19) Endosulfan Sulfate #2

9.403min -0.250 ng/mL (m)

response 6423

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 15:15
Operator : MJB
Sample : 9121154-BLK1
Misc : 1x, 8081B, GPC
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: Dec 23 11:19:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/23/19

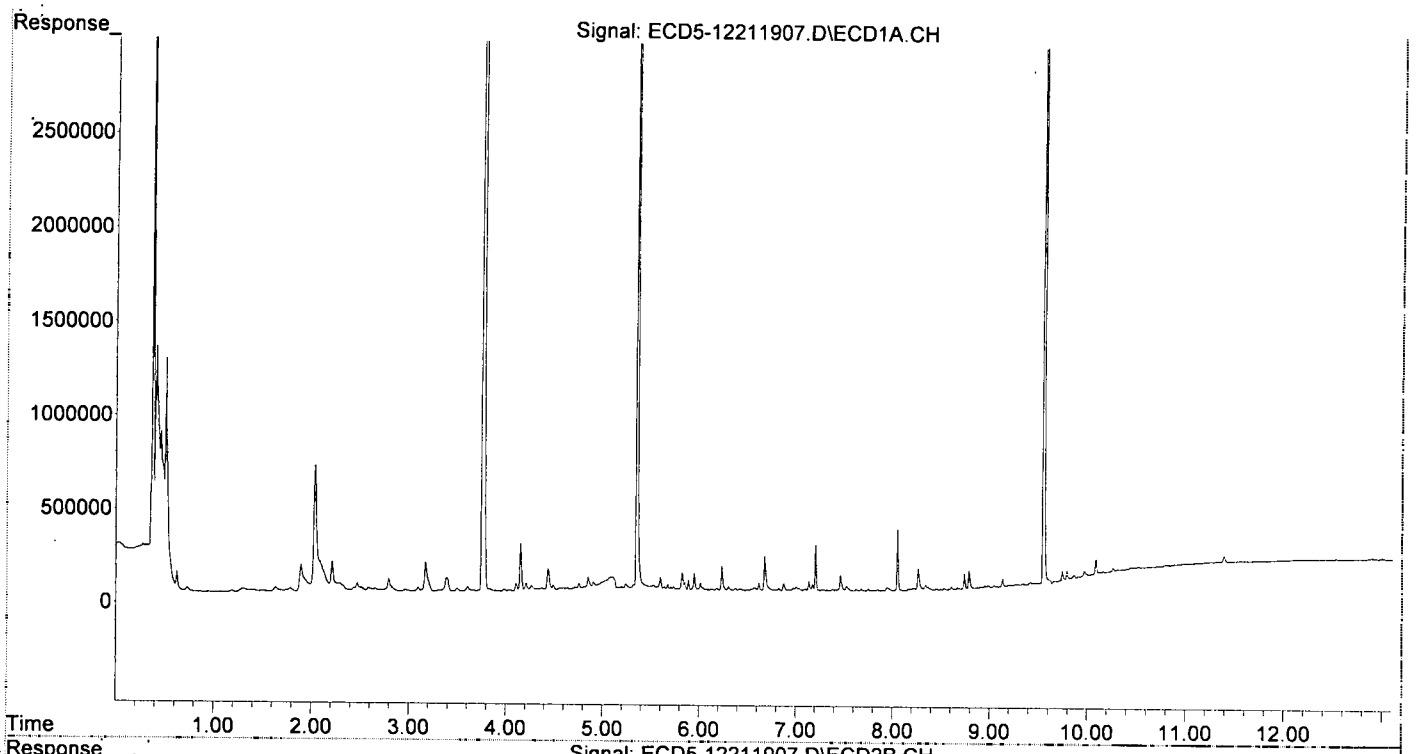
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.353	6.071	4690501	8036314	26.296	27.070	
22)	S DCBP (S)	9.552	10.673	6860831	7965161	50.825	46.777	
	Target Compounds							
2)	a-BHC	5.886	0.000	96341	0	0.401	N.D.	#
3)	g-BHC	6.181	7.030f	54297	8933	0.267	0.026	#
4)	b-BHC	6.233f	7.049	170661	16199	2.407	0.117	#
5)	Heptachlor	6.570	7.344f	60756	13711	0.330	0.046	#
6)	d-BHC	6.422	7.318	52681	8020	0.349	BelowCal	#
7)	Aldrin	6.823	7.652	59960	13764	0.316	0.044	#
8)	Heptachlo...	7.286	8.065f	55056	54154	0.306	0.189	
9)	trans-Chl...	7.381	8.223	57723	128219	0.320	0.440	
10)	cis-Chlor...	7.461	8.351	132149	28234	0.610	0.101	#
11)	Endosulfa...	0.000	8.392	0	16116	N.D.	0.061	#
12)	4,4'-DDE	7.524f	8.436	74348	15240	0.484	0.004	#
13)	Dieldrin	7.748	8.574	60283	38468	0.307	0.130	#
14)	Endrin	7.943f	8.817	70796	9769	0.463	BelowCal	#
15)	4,4'-DDD	7.943f	8.854	70796	3794	0.418	BelowCal	#
16)	Endosulfa...	8.051f	8.940f	378372	368205	2.476	1.555	
17)	4,4'-DDT	8.160	9.078	65522	25901	0.688	0.396	#
18)	Endrin Al...	8.365	9.198	75662	9163	0.633	0.047	#
19)	Endosulfa...	8.666	9.427f	74113	4768	0.259	BelowCal	#
20)	Methoxychlor	8.496	9.558	65289	7683	1.428	0.238	#
21)	Endrin Ke...	8.875	9.795	78879	64220	0.263	0.102	#
23)	Hexachlor...	3.169	3.738f	172731	277755	0.910	0.767	
24)	Hexachlor...	5.734	6.551	59507	193151	0.193	0.659	#
25)	Oxychlordane	7.203	8.008	292240	29220	1.870	0.115	#
26)	2,4'-DDE	7.286	8.223	55056	128219	0.511	0.674	
27)	trans-Non...	7.461	8.288	132149	36275	0.735	0.129	#
28)	2,4'-DDD	7.674	8.574f	59191	38468	0.602	0.227	#
29)	2,4'-DDT	7.844	8.817	59453	9769	0.614	BelowCal	#
30)	cis-Nonac...	7.943	8.854	70796	3794	0.344	0.012	#
31)	Mirex	8.607	9.795	78344	64220	0.411	0.051	#
32)	Chlordane...	7.381	8.223	57723	128219	3.021	3.776	
33)	Chlordane...	7.461f	8.351	132149	28234	5.866	0.977	#
34)	Chlordane...	8.051	8.996	378372	208200	66.288	13.178	#
35)	Chlordane...	3.758f	3.738	6951624	277755	NoCal	NoCal	
36)	Toxaphene...	7.461	8.574	132149	38468	157.120	16.258	#
37)	Toxaphene...	7.748	8.940	60283	368205	34.139	124.317	#
38)	Toxaphene...	8.051f	8.940f	378372	368205	113.177	75.980	
39)	Toxaphene...	8.339f	8.996f	85925	208200	21.024	21.483	
40)	Toxaphene...	8.530	9.198	69639	9163	27.486	BelowCal	#
41)	Toxaphene...	8.607	9.595	78344	101024	23.037	22.030	
42)	Toxaphene...	3.758	3.738	6951624	277755	NoCal	NoCal	

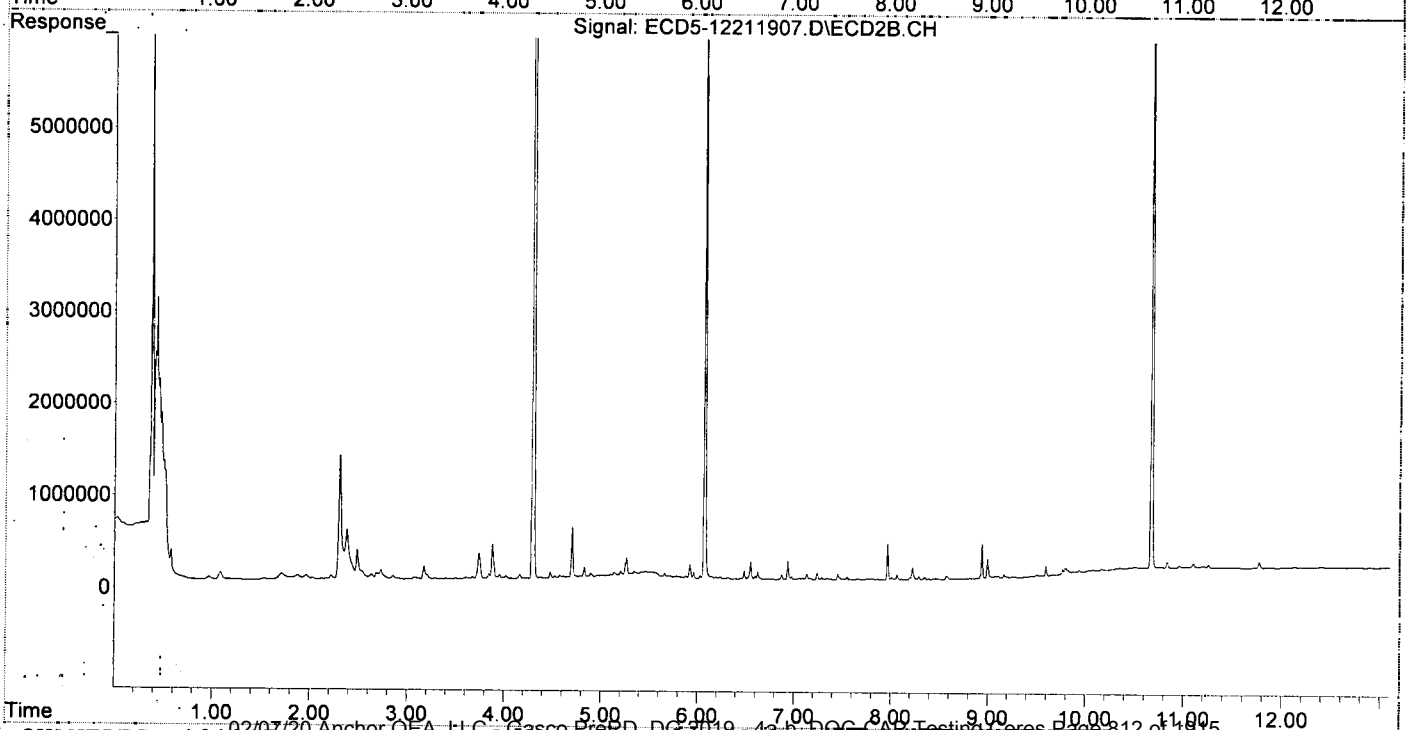
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 15:15
Operator : MJB
Sample : 9121154-BLK1
Misc : 1x, 8081B, GPC
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: Dec 23 11:19:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 15:32
Operator : MJB
Sample : 9121154-BS1
Misc : 1x, 8081B, GPC
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: Dec 23 11:19:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

WB 12/23/19

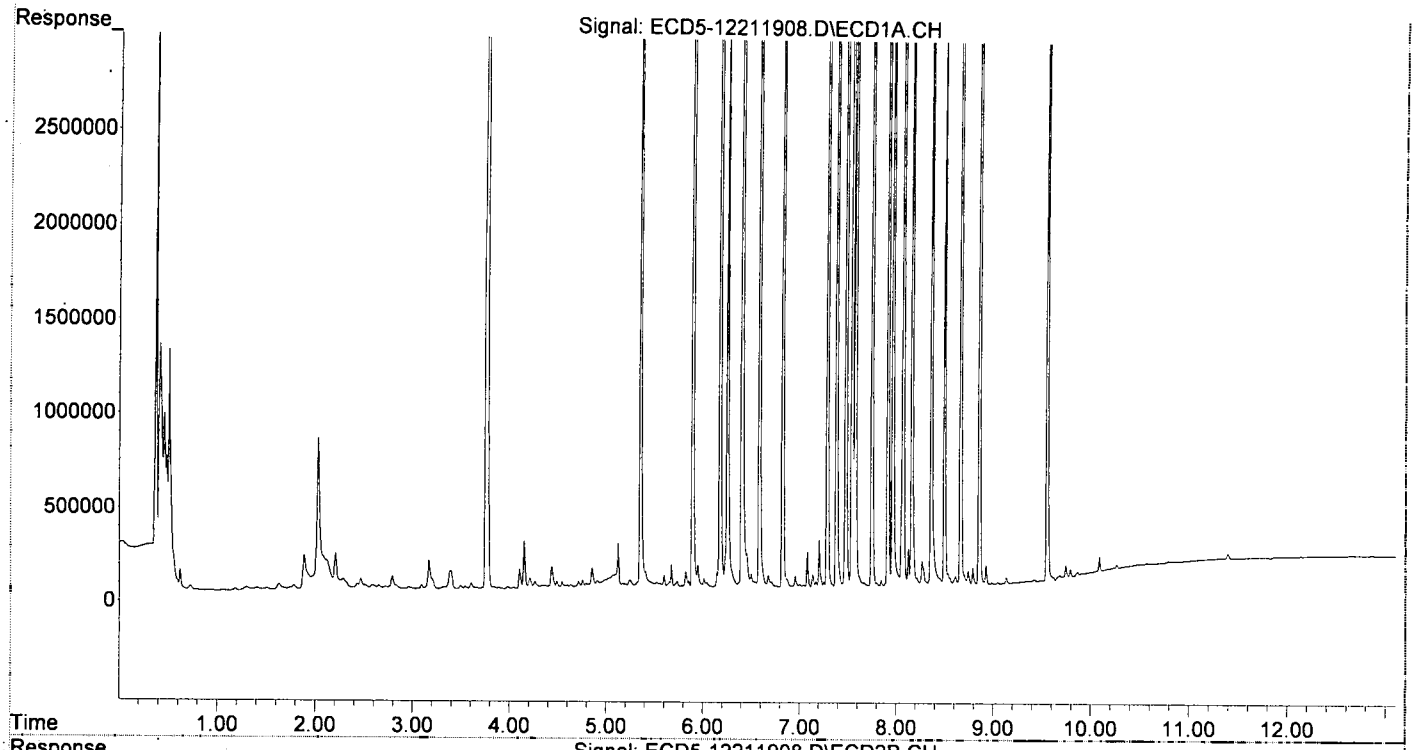
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.354	6.072	6068762	10672803	34.023	35.951	
22)	S	DCBP (S)	9.553	10.673	6303312	7776059	46.739	45.666	
		Target Compounds							
2)		a-BHC	5.894	6.680	10108659	18377018	42.108	46.180	
3)		g-BHC	6.176	7.000	8775758	15970453	43.154	47.163	
4)		b-BHC	6.253	7.062	3363171	6566935	47.434	47.386	
5)		Heptachlor	6.584	7.378	8434833	14674396	45.876	49.047	
6)		d-BHC	6.402	7.320	7956840	16300116	52.219	52.740	
7)		Aldrin	6.825	7.647	7908810	13376530	41.649	43.111	
8)		Heptachlo...	7.287	8.086	8931267	14276657	49.711	49.852	
9)		trans-Chl...	7.382	8.226	9029354	14562613	50.083	49.925	
10)		cis-Chlor...	7.479	8.334	8749540	14288119	51.136	50.911	
11)		Endosulfa...	7.577	8.386	8471637	13408612	48.205	51.014	
12)		4,4'-DDE	7.541	8.437	8877336	15107290	57.781	54.138	
13)		Dieldrin	7.748	8.588	9904662	15980044	50.461	53.796	
14)		Endrin	7.913	8.817	8350963	12631197	54.659	57.272	
15)		4,4'-DDD	7.963	8.855	7623549	13017926	58.638	57.342	
16)		Endosulfa...	8.070	8.964	7852139	12693258	51.392	53.615	
17)		4,4'-DDT	8.161	9.083	7633959	11871778	68.793	67.738	
18)		Endrin Al...	8.361	9.202	6313343	10089707	52.814	51.400	
19)		Endosulfa...	8.664	9.393	7752424	11998789	54.786	57.170	
20)		Methoxychlor	8.497	9.561	3965214	6018026	71.960	69.961	
21)		Endrin Ke...	8.857	9.798	9108280	14072018	54.897	60.635	
23)		Hexachlor...	3.168	3.740	154150	366582	0.794	1.012	
24)		Hexachlor...	5.734	6.551	33354	197565	0.024	0.674	#
25)		Oxychlordane	7.204	8.008	245647	37349	1.542	0.148	#
26)		2,4'-DDE	7.287	8.226	8931267	14562613	82.835	76.573	
27)		trans-Non...	7.479	8.287	8749540	66723	48.676	0.237	#
28)		2,4'-DDD	0.000	8.588	0	15980044	N.D.	94.257	#
29)		2,4'-DDT	7.845	8.817	27666	12631197	0.286	80.733	#
30)		cis-Nonac...	7.963	8.855	7623549	13017926	37.022	40.654	
31)		Mirex	8.611	9.798	42901	14072018	0.110	84.504	#
32)		Chlordane...	7.382	8.226	9029354	14562613	472.574	428.816	
33)		Chlordane...	7.479	8.334	8749540	14288119	388.378	494.624	
34)		Chlordane...	8.070f	8.996	7852139	243360	1375.632	17.719	#
35)		Chlordane...	3.758	3.740f	6950228	366582	NoCal	NoCal	
36)		Toxaphene...	7.479	8.588f	8749540	15980044	9094.194	6753.888	
37)		Toxaphene...	7.748	0.000	9904662	0	6783.972	N.D.	#
38)		Toxaphene...	8.070	8.964	7852139	12693258	2155.705	2619.279	
39)		Toxaphene...	0.000	9.038	0	60185	N.D.	0.055	#
40)		Toxaphene...	0.000	9.202	0	10089707	N.D.	2142.241	#
41)		Toxaphene...	8.611	9.594	42901	93462	12.615	20.381	#
42)		Toxaphene...	3.758	3.740	6950228	366582	NoCal	NoCal	

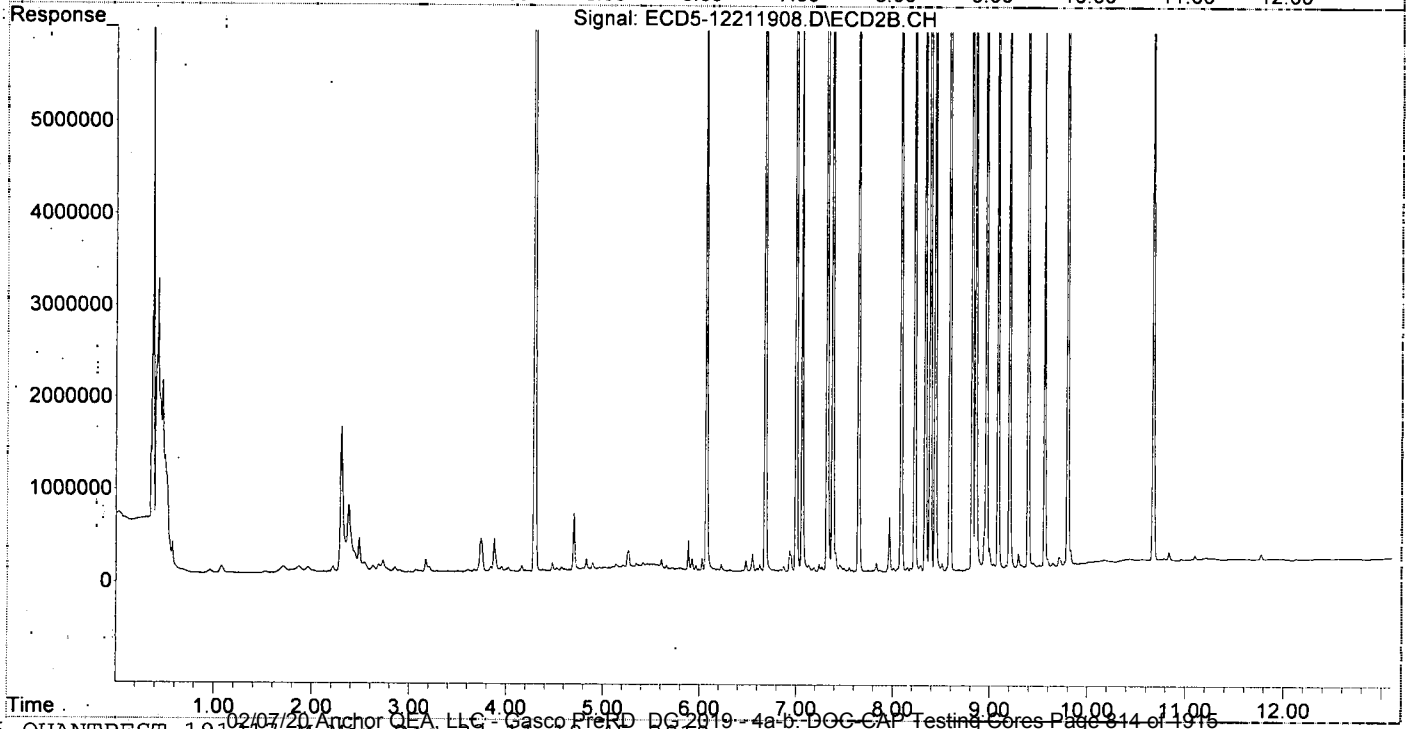
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 15:32
Operator : MJB
Sample : 9121154-BS1
Misc : 1x, 8081B, GPC
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: Dec 23 11:19:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 17:35
Operator : MJB
Sample : A9J0514-19RE1@5
Misc : 5x, 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: Dec 23 12:29:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

R-04

MJB 12/23/19

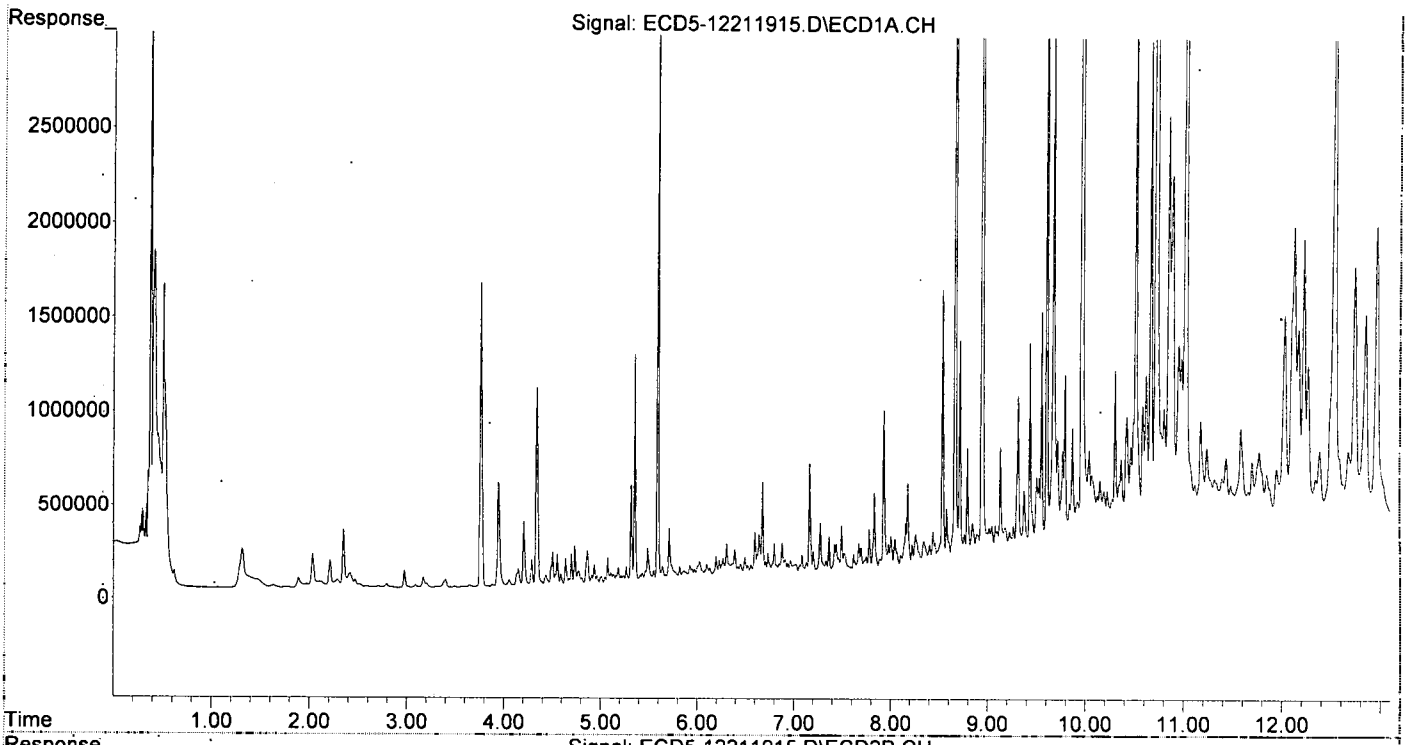
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.356	6.075	1202661	2017793	6.743	6.797
22)	S DCBP (S)	9.554	10.675	1251101	2120431	9.218	12.453
	Target Compounds						
2)	a-BHC	5.864f	6.684	36797	76268	0.153	0.192
3)	g-BHC	6.196	7.023f	103148	72450	0.507	0.214 #
4)	b-BHC	6.268	7.052	90185	67934	1.272	0.490 #
5)	Heptachlor	6.599	7.400f	223698	205698	1.217	0.688 #
6)	d-BHC	6.389	7.307	132688	104341	0.929	0.327 #
7)	Aldrin	6.798f	7.642	154691	82950	0.815	0.267 #
8)	Heptachlo...	7.274	8.071	254451	87045	1.416	0.304 #
9)	trans-Chl...	7.365	8.235	177656	379624	0.985	1.301
10)	cis-Chlor...	7.494	8.359f	231888	400420	1.212	1.427
11)	Endosulfa...	7.592	8.359f	8772	400420	0.050	1.523 #
12)	4,4'-DDE	7.522f	8.445	78901	152074	0.514	0.544m
13)	Dieldrin	7.748	8.568f	55805	1506469	0.284	5.071 #
14)	Endrin	7.930	8.821	826696	152031	5.411	0.696 #
15)	4,4'-DDD	7.974	8.856	81459	205390	0.508m	0.842 #
16)	Endosulfa...	8.046f	8.949	135572	346197	0.887	1.462 #
17)	4,4'-DDT	8.170	9.089	240355	407384	2.596m R-01	3.012m R-01
18)	Endrin Al...	8.343f	9.212	102877	328549	0.861	1.674 #
19)	Endosulfa...	8.666	9.409	6280146	1896849	44.661	9.561 #
20)	Methoxychlor	8.537f	9.559	1430807	246593	28.316	3.487 #
21)	Endrin Ke...	8.844	9.790	171621	1067814	0.849	4.911 #
23)	Hexachlor...	3.171	3.752	55454	134130	0.177	0.370 #
24)	Hexachlor...	5.711f	6.549	268939	109841	1.551	0.375 #
25)	Oxychlordane	7.202	8.005	101726	640343	0.526	2.531 #
26)	2,4'-DDE	7.288	8.235	50110	379624	0.465m	1.996 # R-01
27)	trans-Non...	7.494	8.306	231888	251882	1.290	0.893
28)	2,4'-DDD	7.673	8.588	129925	139153	1.321	0.821m
29)	2,4'-DDT	7.843	8.821	147115	152031	1.520m	1.062 - MDL-MRL
30)	cis-Nonac...	7.930	8.856	826696	205390	4.015	0.641 #
31)	Mirex	8.579f	9.790	264855	1067814	1.999	6.661 #
32)	Chlordane...	7.365f	8.235	177656	379624	9.298	11.179
33)	Chlordane...	7.494	8.359	231888	400420	10.293	13.862
34)	Chlordane...	8.046	8.995	135572	325756	23.751	28.349
35)	Chlordane...	3.761f	3.699	1601083	24931	NoCal	NoCal
36)	Toxaphene...	7.440f	8.568	132567	1506469	157.624	636.702 #
37)	Toxaphene...	7.748	8.949f	55805	346197	31.332	116.886 #
38)	Toxaphene...	8.046f	8.949	135572	346197	38.742	71.438 #
39)	Toxaphene...	8.343f	9.051f	102877	136437	26.433	11.107 #
40)	Toxaphene...	8.537	9.212	1430807	328549	564.732	78.460 #
41)	Toxaphene...	8.579f	9.596	264855	2156681	77.882	470.307 #
42)	Toxaphene...	3.761	3.699f	1601083	24931	NoCal	NoCal

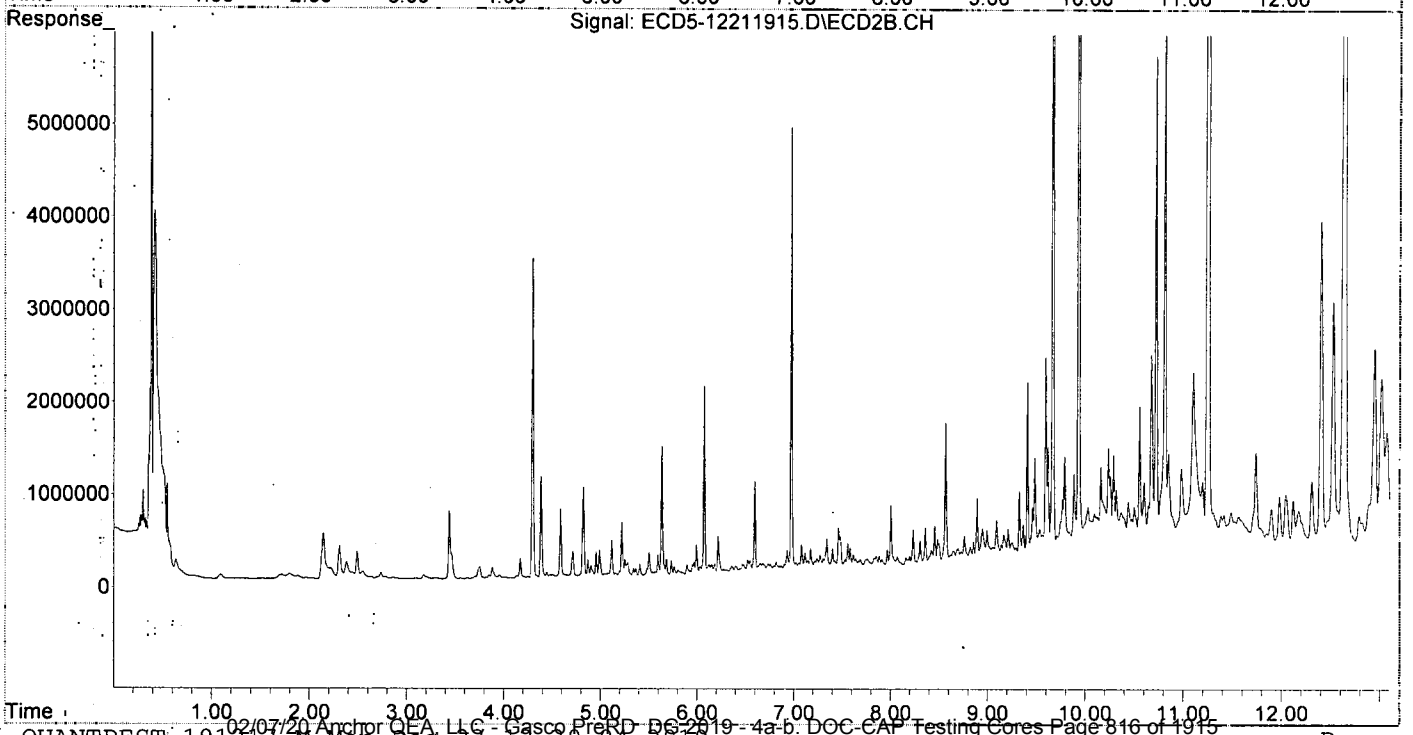
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 17:35
Operator : MJB
Sample : A9J0514-19RE1@5
Misc : 5x, 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: Dec 23 12:29:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

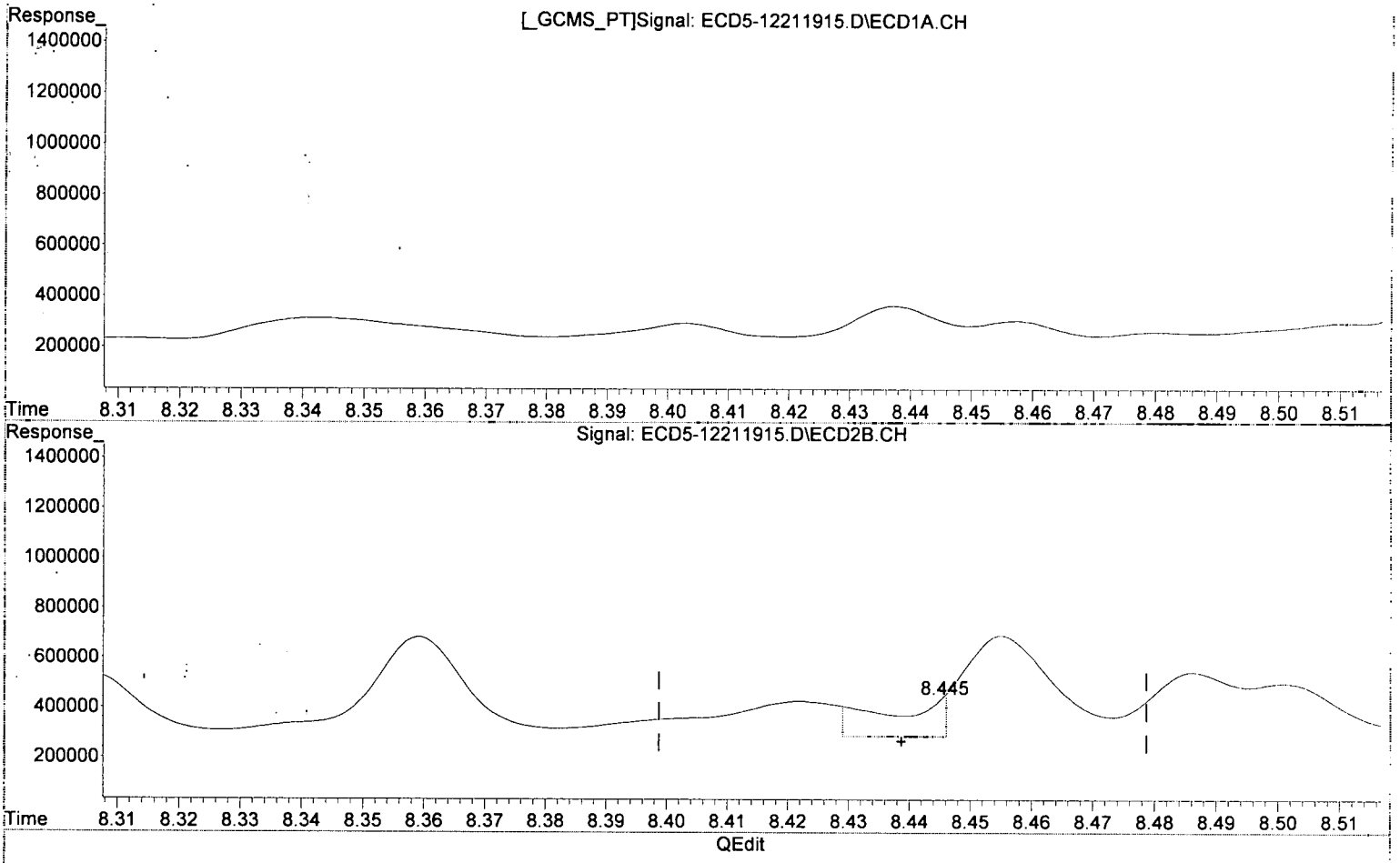




Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 17:35
Operator : MJB
Sample : A9J0514-19RE1@5
Misc : 5x, 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: Dec 23 11:20:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.522min 0.514 ng/mL

response 78901

MJB 12/23/19

(12) 4,4'-DDE #2

8.445min 0.544 ng/mL m

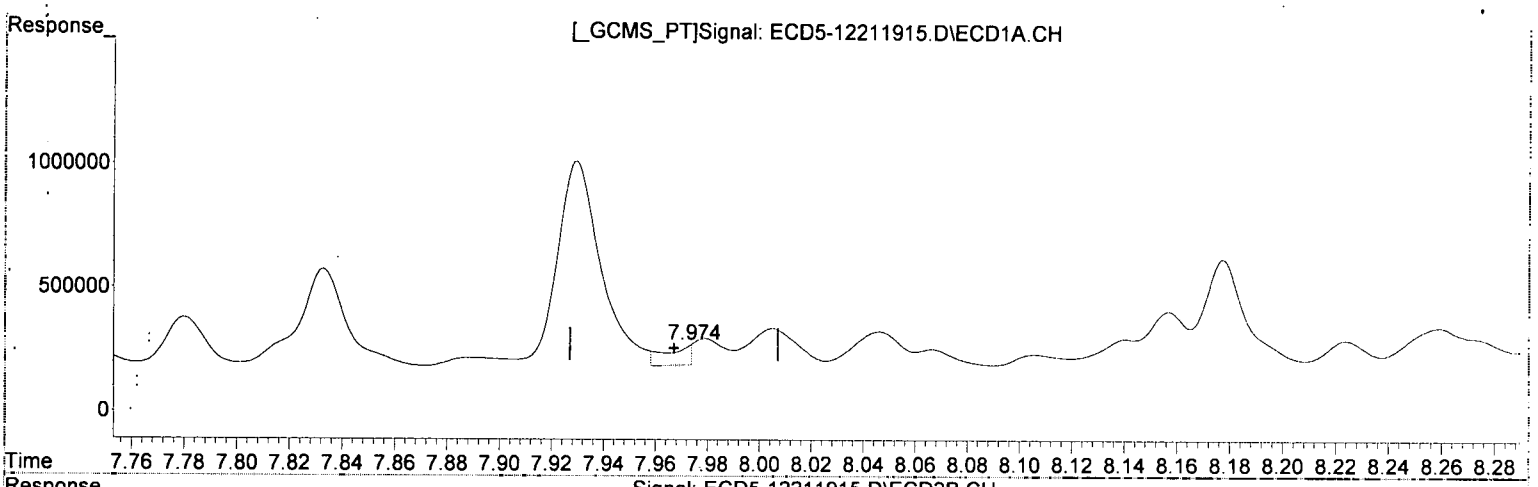
response 152074

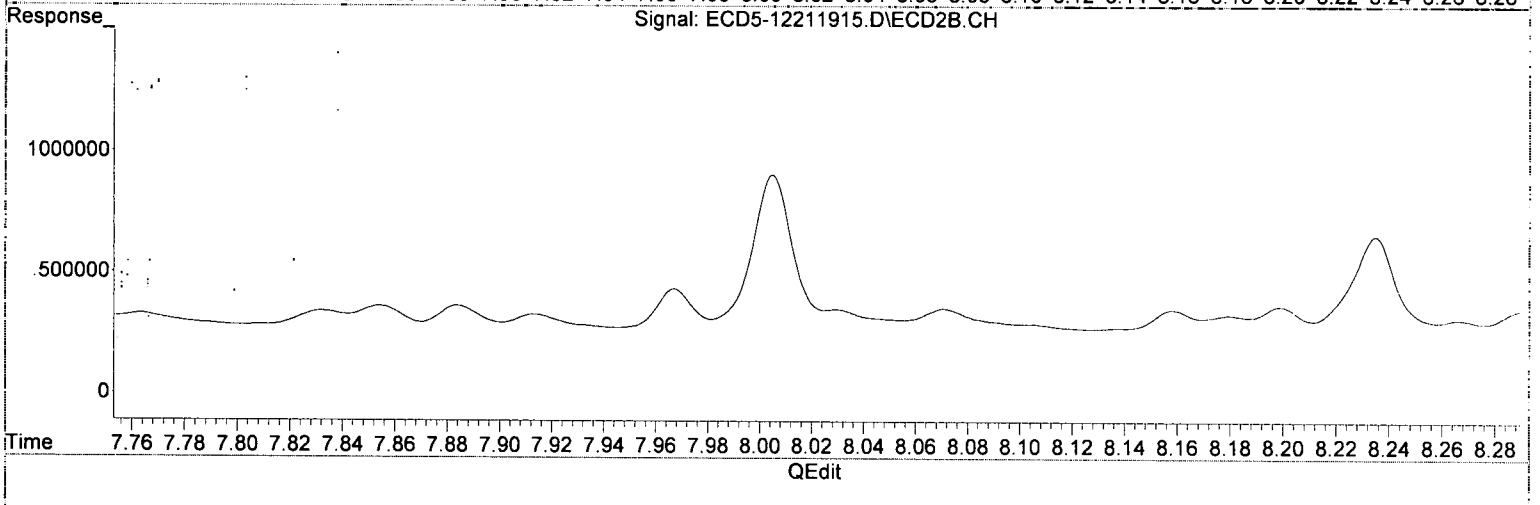
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 17:35
Operator : MJB
Sample : A9J0514-19RE1@5
Misc : 5x, 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: Dec 23 11:20:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(15) 4,4'-DDD

7.974min 0.508 ng/mL (m)

response 81459

MB 12/23/21

(15) 4,4'-DDD #2

8.856min 0.842 ng/mL

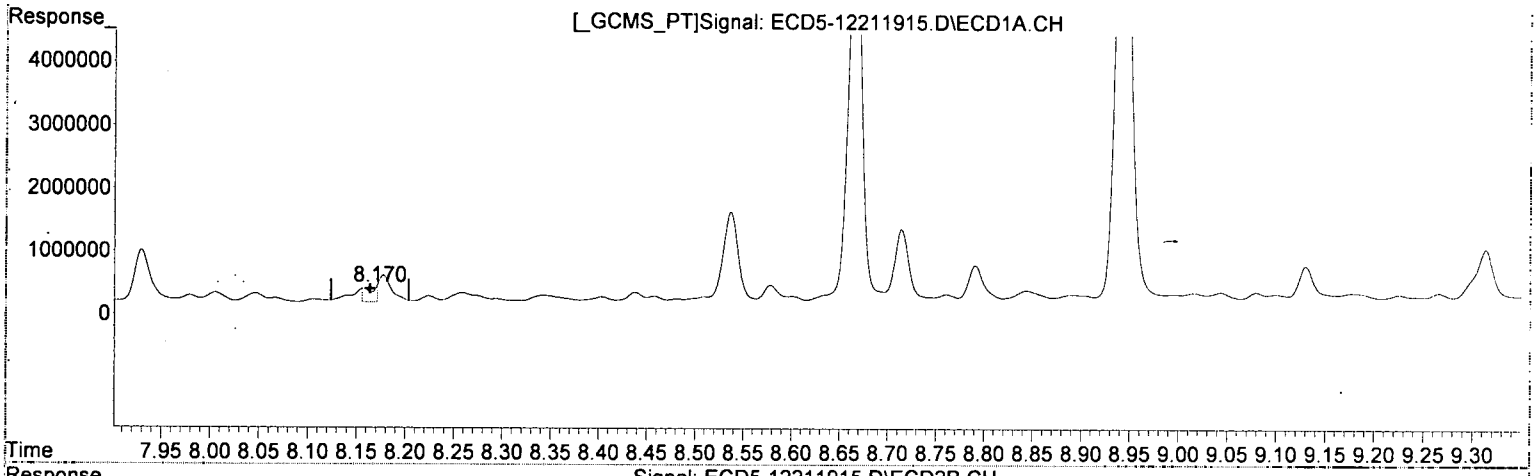
response 205390

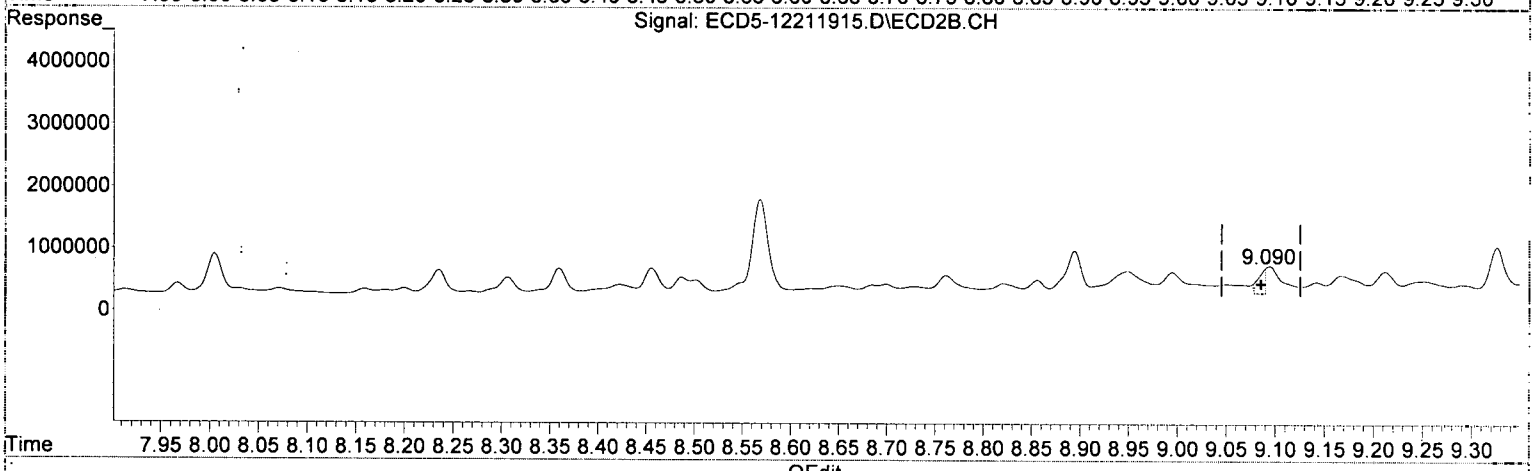
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 17:35
Operator : MJB
Sample : A9J0514-19RE1@5
Misc : 5x, 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: Dec 23 11:20:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(17) 4,4'-DDT

8.170min 2.596 ng/mL (m) R.02

response 240355

MJB 12/23/19

(17) 4,4'-DDT #2

9.089min 3.012 ng/mL (m) R01

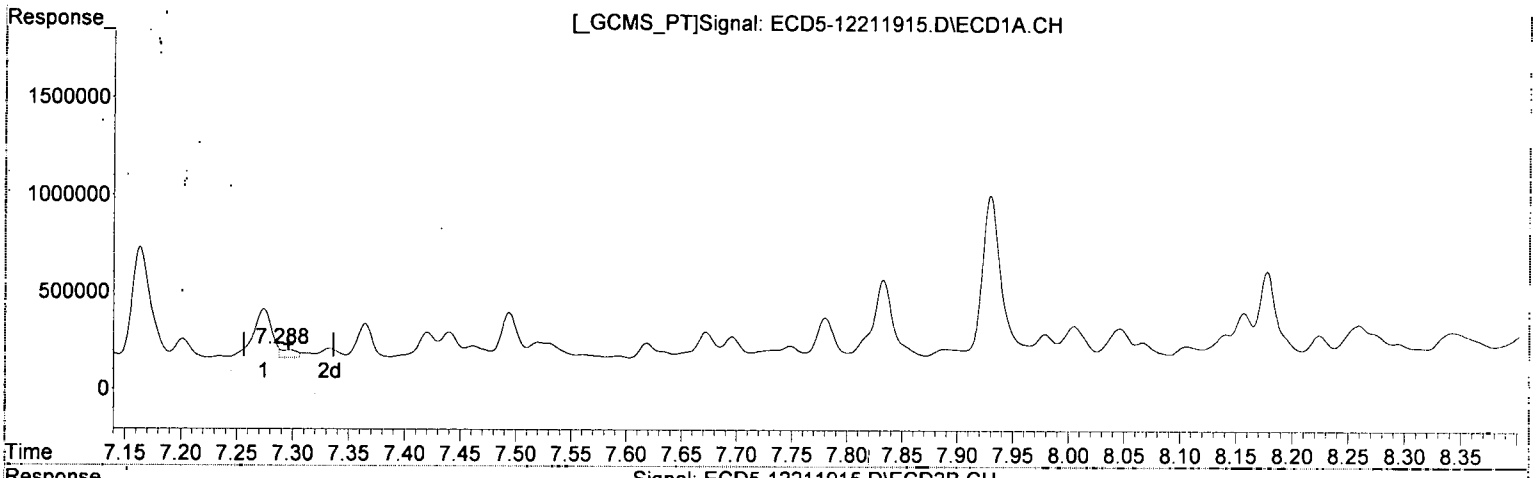
response 407384

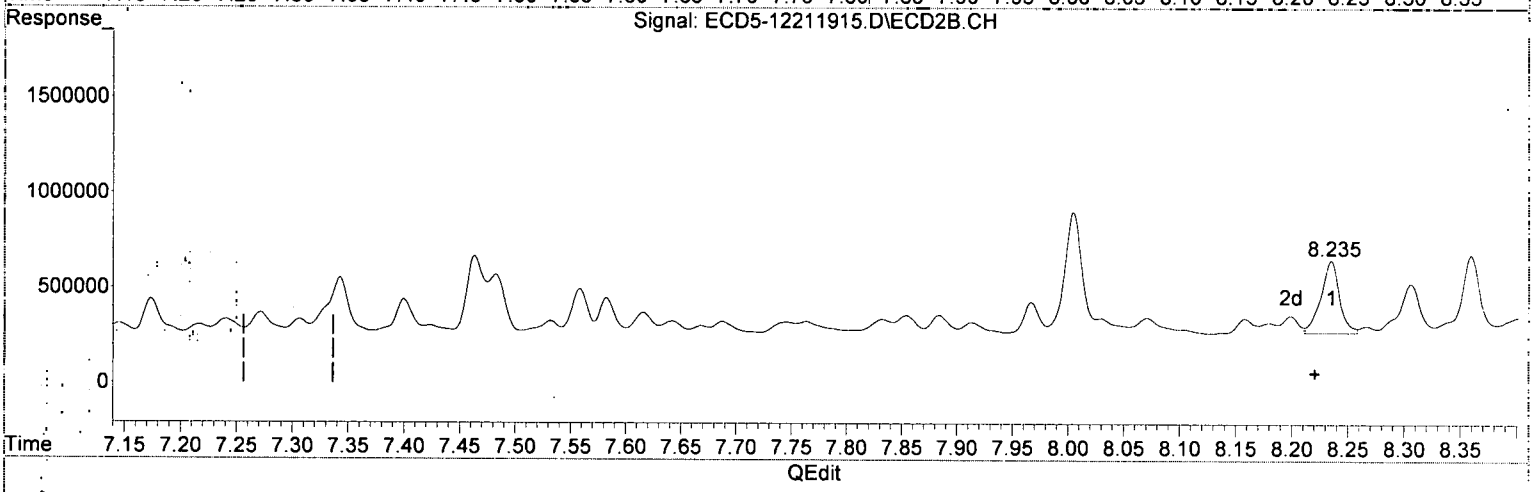
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 17:35
Operator : MJB
Sample : A9J0514-19RE1@5
Misc : 5x, 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: Dec 23 11:20:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(26) 2,4'-DDE

7.288min 0.465 ng/mL (m)

response 50110

MJB 12/23/19

(26) 2,4'-DDE #2

8.235min 1.996 ng/mL

response 379624

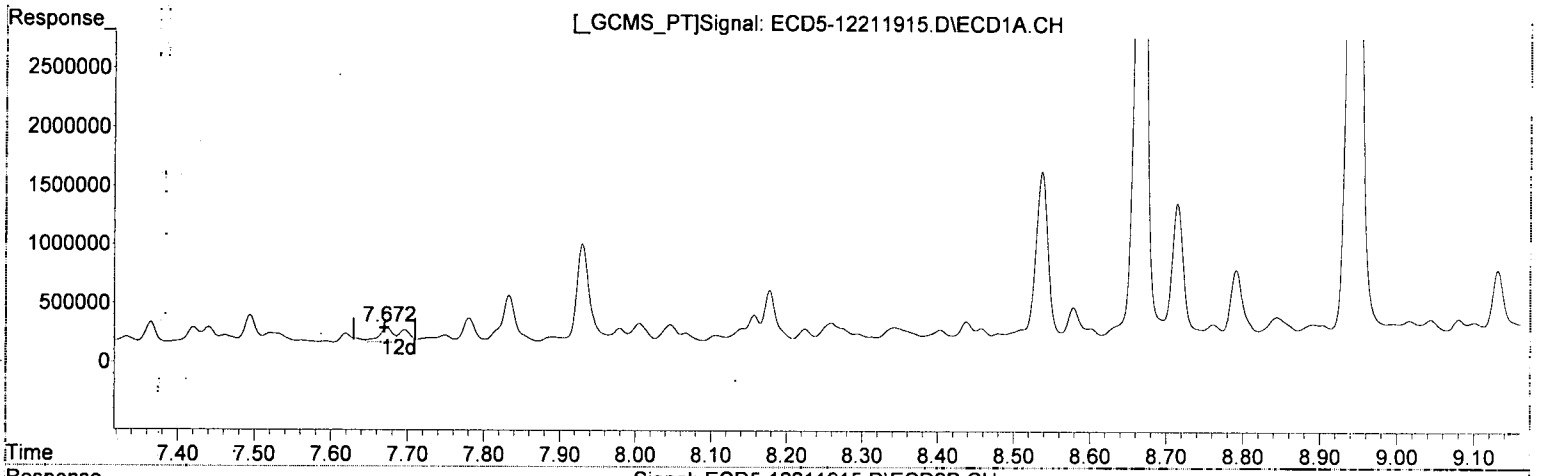
MJB 12/23/19

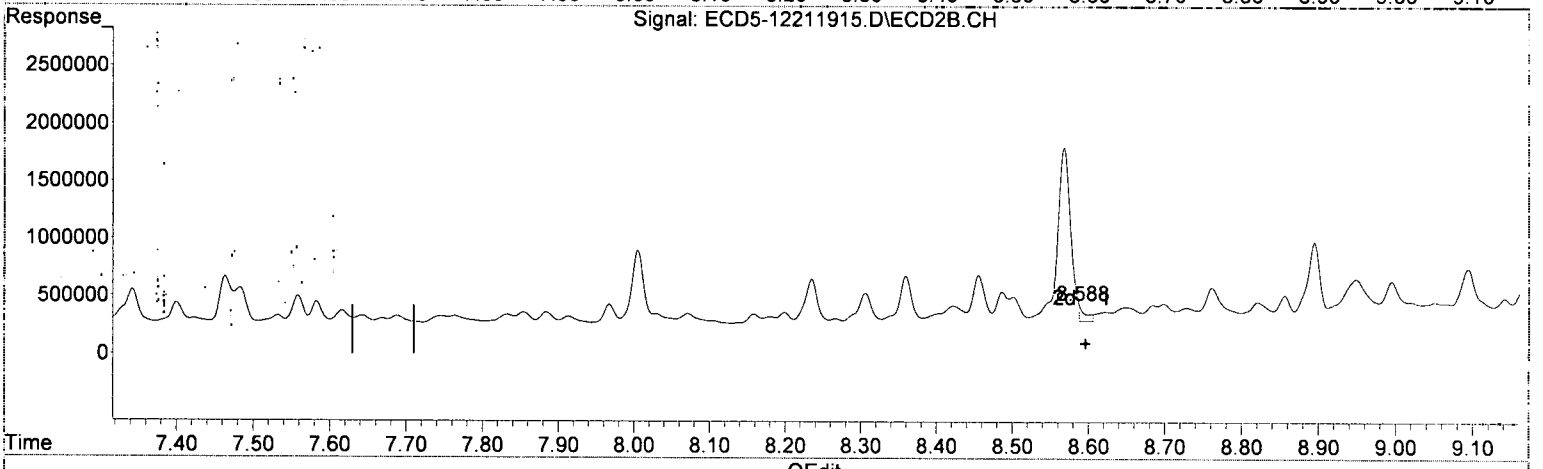
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 17:35
Operator : MJB
Sample : A9J0514-19RE1@5
Misc : 5x, 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: Dec 23 11:20:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(28) 2,4'-DDD

7.673min 1.321 ng/mL

response 129925

MJB 12/23/19

(28) 2,4'-DDD #2

8.588min 0.821 ng/mL m

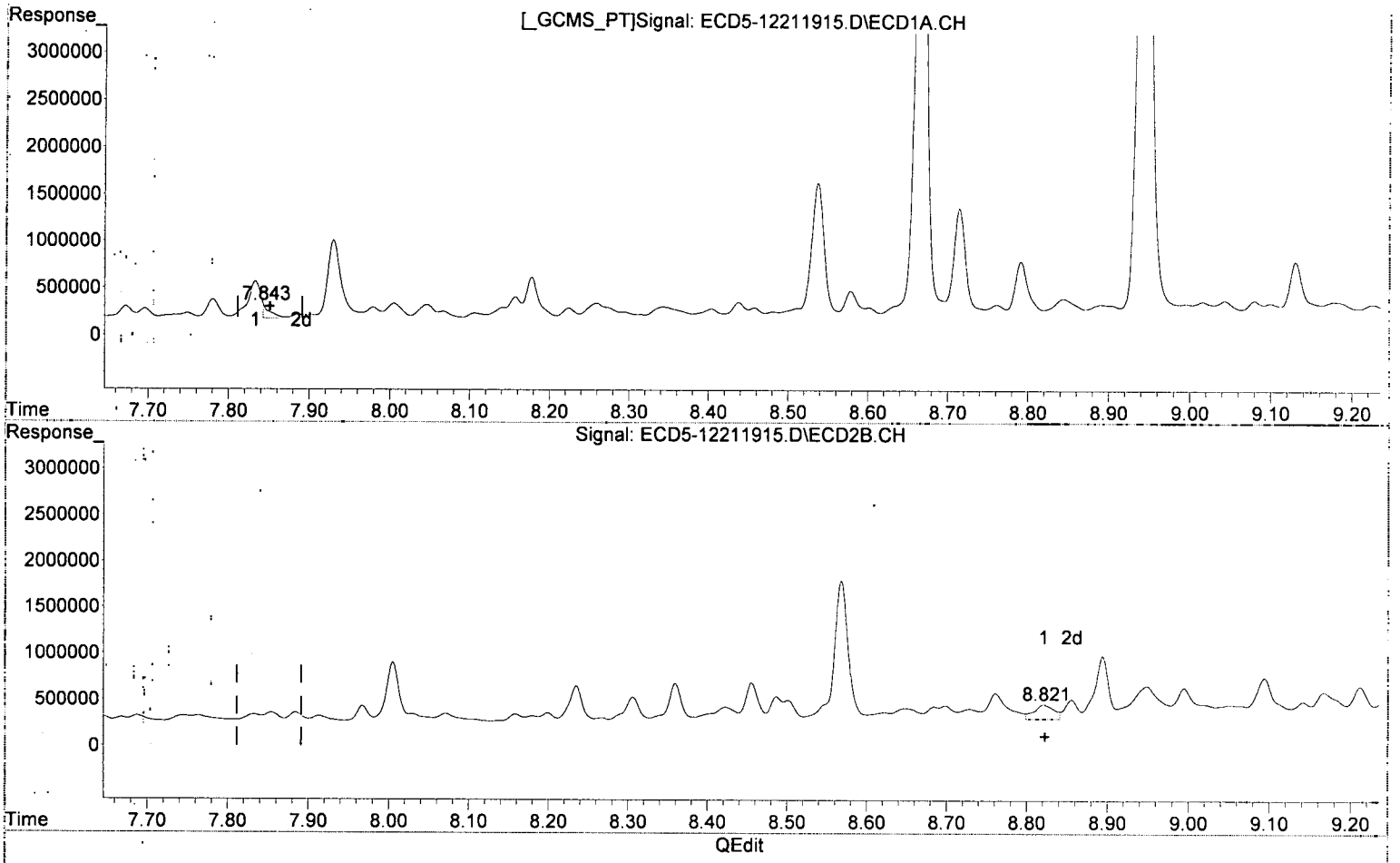
response 139153

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 17:35
Operator : MJB
Sample : A9J0514-19RE1@5
Misc : 5x, 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: Dec 23 11:20:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.843min 1.520 ng/mL (m)

response 147115

MJB 12/23/19

(29) 2,4'-DDT #2

8.821min 1.062 ng/mL MDL-MDL

response 152031

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 17:35
Operator : MJB
Sample : A9J0514-19RE1@5
Misc : 5x, 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: Dec 23 11:20:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJ MJB 12/23/19

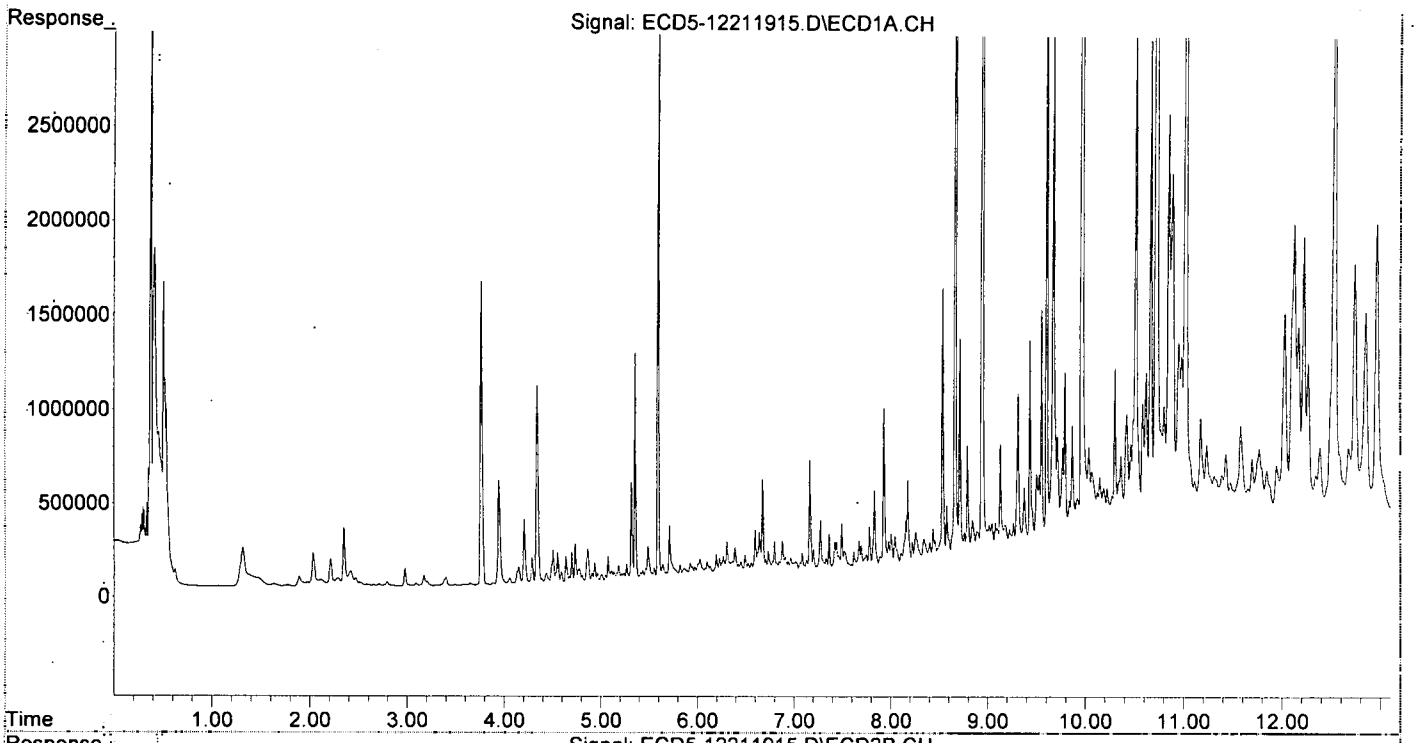
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.356	6.075	1202661	2017793	6.743	6.797	
22)	S	DCBP (S)	9.554	10.675	1251101	2120431	9.218	12.453	
		Target Compounds							
2)		a-BHC	5.864f	6.684	36797	76268	0.153	0.192	
3)		g-BHC	6.196	7.023f	103148	72450	0.507	0.214	#
4)		b-BHC	6.268	7.052	90185	67934	1.272	0.490	#
5)		Heptachlor	6.599	7.400f	223698	205698	1.217	0.688	#
6)		d-BHC	6.389	7.307	132688	104341	0.929	0.327	#
7)		Aldrin	6.798f	7.642	154691	82950	0.815	0.267	#
8)		Heptachlo...	7.274	8.071	254451	87045	1.416	0.304	#
9)		trans-Chl...	7.365	8.235	177656	379624	0.985	1.301	
10)		cis-Chlor...	7.494	8.359f	231888	400420	1.212	1.427	
11)		Endosulfa...	7.592	8.359f	8772	400420	0.050	1.523	#
12)		4,4'-DDE	7.522f	8.422	78901	139723	0.514	0.496	
13)		Dieldrin	7.748	8.568f	55805	1506469	0.284	5.071	#
14)		Endrin	7.930	8.821	826696	152031	5.411	0.696	#
15)		4,4'-DDD	7.979	8.856	109293	205390	0.741	0.842	
16)		Endosulfa...	8.046f	8.949	135572	346197	0.887	1.462	#
17)		4,4'-DDT	8.178	9.094	425692	428121	4.593	3.153	
18)		Endrin Al...	8.343f	9.212	102877	328549	0.861	1.674	#
19)		Endosulfa...	8.666	9.409	6280146	1896849	44.661	9.561	#
20)		Methoxychlor	8.537f	9.559	1430807	246593	28.316	3.487	#
21)		Endrin Ke...	8.844	9.790	171621	1067814	0.849	4.911	#
23)		Hexachlor...	3.171	3.752	55454	134130	0.177	0.370	#
24)		Hexachlor...	5.711f	6.549	268939	109841	1.551	0.375	#
25)		Oxychlordane	7.202	8.005	101726	640343	0.526	2.531	#
26)		2,4'-DDE	7.274f	8.235	254451	379624	2.360	1.996	
27)		trans-Non...	7.494	8.306	231888	251882	1.290	0.893	
28)		2,4'-DDD	7.673	8.622f	129925	75135	1.321	0.443	#
29)		2,4'-DDT	7.833	8.821	392504	152031	4.056	1.062	#
30)		cis-Nonac...	7.930	8.856	826696	205390	4.015	0.641	#
31)		Mirex	8.579f	9.790	264855	1067814	1.999	6.661	#
32)		Chlordane...	7.365f	8.235	177656	379624	9.298	11.179	
33)		Chlordane...	7.494	8.359	231888	400420	10.293	13.862	
34)		Chlordane...	8.046	8.995	135572	325756	23.751	28.349	
35)		Chlordane...	3.761f	3.699	1601083	24931	NoCal	NoCal	
36)		Toxaphene...	7.440f	8.568	132567	1506469	157.624	636.702	#
37)		Toxaphene...	7.748	8.949f	55805	346197	31.332	116.886	#
38)		Toxaphene...	8.046f	8.949	135572	346197	38.742	71.438	#
39)		Toxaphene...	8.343f	9.051f	102877	136437	26.433	11.107	#
40)		Toxaphene...	8.537	9.212	1430807	328549	564.732	78.460	#
41)		Toxaphene...	8.579f	9.596	264855	2156681	77.882	470.307	#
42)		Toxaphene...	3.761	3.699f	1601083	24931	NoCal	NoCal	

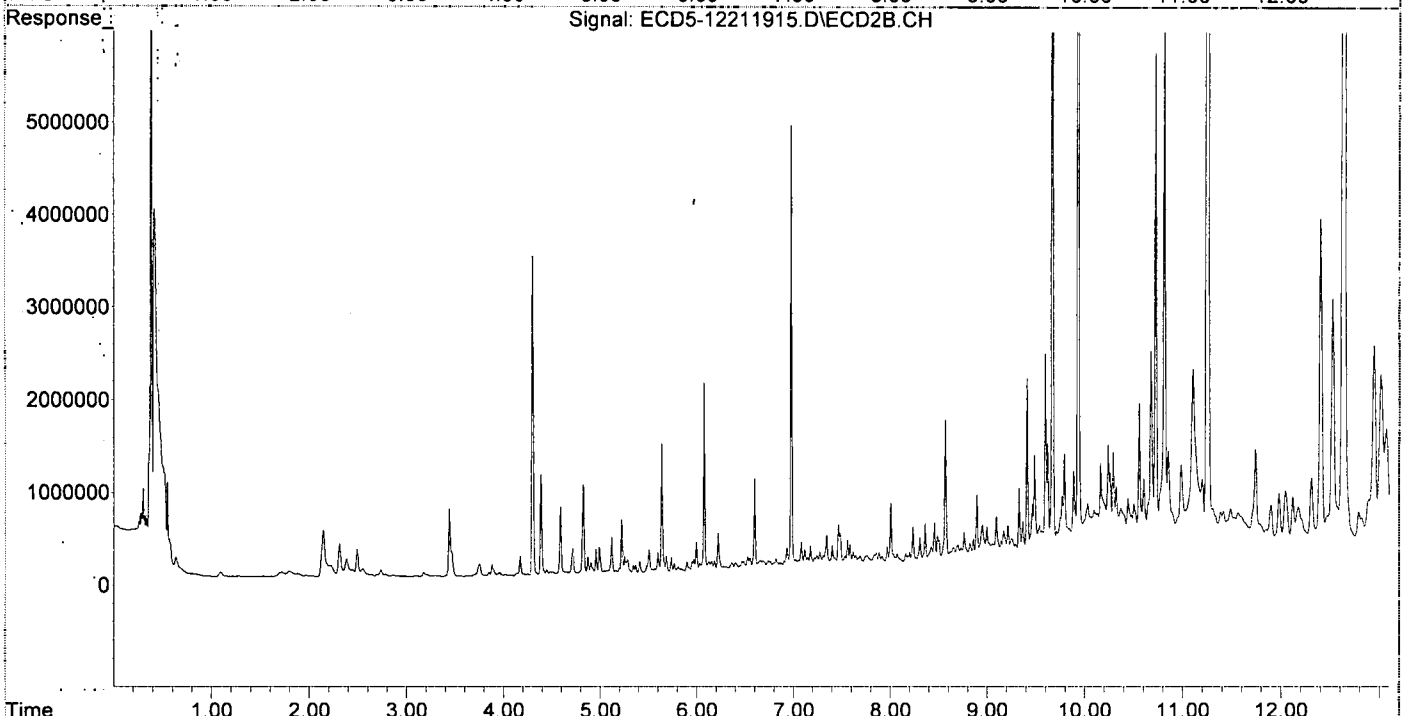
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 17:35
Operator : MJB
Sample : A9J0514-19RE1@5
Misc : 5x, 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: Dec 23 11:20:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 18:13
Operator : MJB
Sample : 9L21009-CCV3
Misc : A19K134, 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: Dec 23 11:20:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MP 1/23/20

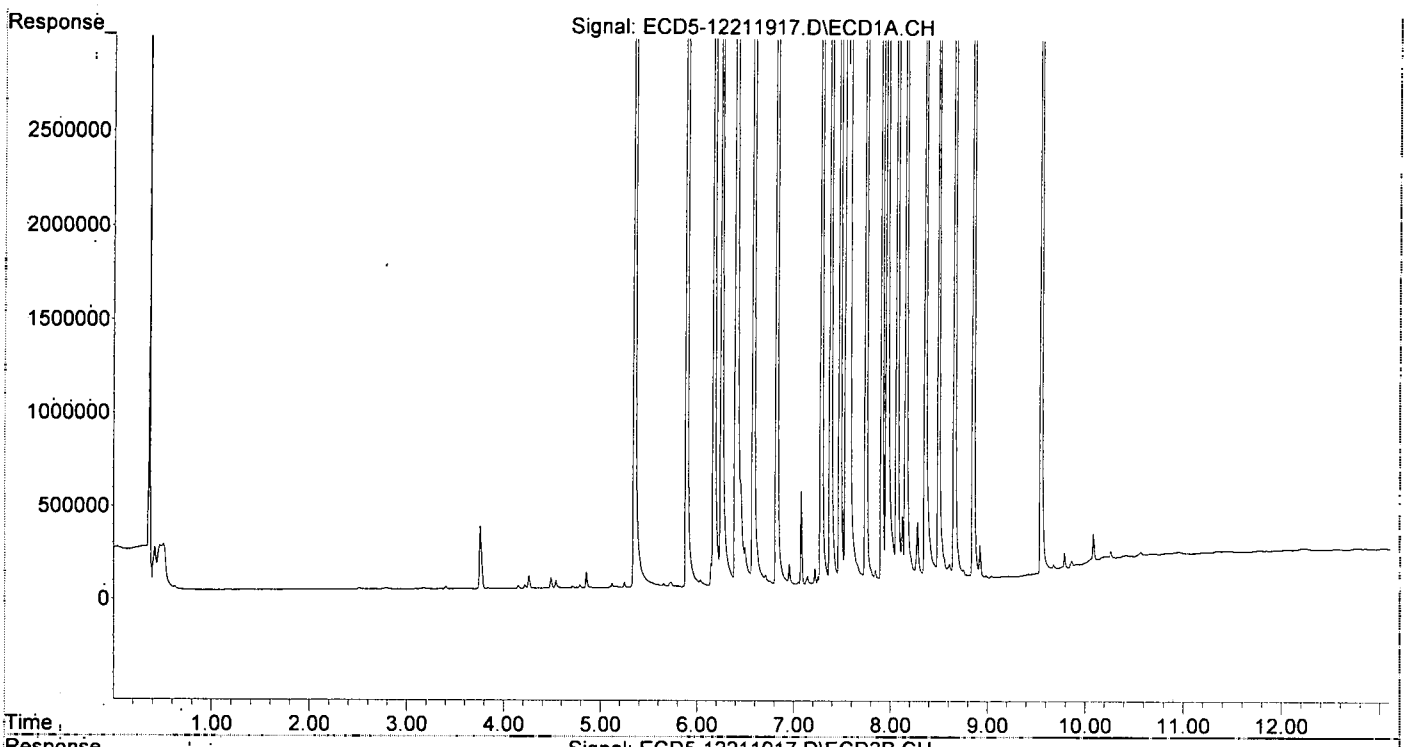
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.353	6.073	16310619	29652419	91.443	99.884	
22)	S	DCBP (S)	9.552	10.671	13564977	17675157	99.173	103.800	
		Target Compounds							
2)		a-BHC	5.893	6.681	24586580	45271303	102.417	113.762	
3)		g-BHC	6.176	7.000	20614040	38658936	101.367	114.166	
4)		b-BHC	6.253	7.062	7051889	13658802	99.459	98.561	
5)		Heptachlor	6.584	7.378	19907963	36152781	108.278	120.836	Q-41
6)		d-BHC	6.403	7.320	15763404	35084589	95.696	104.020	
7)		Aldrin	6.824	7.646	20430290	34702482	107.590	111.843	
8)		Heptachlo...	7.286	8.085	18254317	31712375	101.603	110.734	
9)		trans-Chl...	7.381	8.225	18640724	31762110	103.393	108.890	
10)		cis-Chlor...	7.478	8.334	18345084	31169035	104.222	111.060	
11)		Endosulfa...	7.576	8.386	17758158	28679686	101.047	109.115	
12)		4,4'-DDE	7.543	8.437	16258205	30712300	105.822	101.801	
13)		Dieldrin	7.748	8.587	20324096	33759935	103.545	113.651	
14)		Endrin	7.912	8.816	15998209	25568456	104.712	107.197	
15)		4,4'-DDD	7.965	8.855	13829214	25577048	100.682	104.574	
16)		Endosulfa...	8.070	8.963	15358794	26104088	100.523	110.260	
17)		4,4'-DDT	8.161	9.083	14023220	23486015	113.100	118.087	
18)		Endrin Al...	8.361	9.200	12994298	21868203	108.704	111.403	
19)		Endosulfa...	8.662	9.392	15369587	24822432	105.011	109.284	
20)		Methoxychlor	8.498	9.560	6638374	11522925	112.028	120.407	
21)		Endrin Ke...	8.856	9.797	17956025	28803789	104.451	113.682	
23)		Hexachlor...	3.169	0.000	7778	0	BelowCal	N.D.	
24)		Hexachlor...	5.732	6.551	27413	7807	BelowCal	0.027	
25)		Oxychlordane	7.221	8.005	82005	31702	0.386	0.125	#
26)		2,4'-DDE	7.286	8.225	18254317	31762110	169.304	167.012	
27)		trans-Non...	7.478	8.282	18345084	114551	102.058	0.406	#
28)		2,4'-DDD	0.000	8.587	0	33759935	N.D.	199.130	#
29)		2,4'-DDT	7.845	8.816	61326	25568456	0.634	145.011	#
30)		cis-Nonac...	7.965	8.855	13829214	25577048	67.158	79.876	
31)		Mirex	8.609	9.797	80223	28803789	0.427	160.157	#
32)		Chlordane...	7.381	8.225	18640724	31762110	975.609	935.279	
33)		Chlordane...	7.478	8.334	18345084	31169035	814.308	1079.004	
34)		Chlordane...	8.070f	9.038f	15358794	144549	2690.738	4.949	#
35)		Chlordane...	3.758f	0.000	338264	0	NoCal	N.D.	
36)		Toxaphene...	7.478	8.587f	18345084	33759935	16954.615	14268.472	
37)		Toxaphene...	7.748	0.000	20324096	0	15958.990	N.D.	#
38)		Toxaphene...	8.070	8.963	15358794	26104088	3875.444	5386.631	
39)		Toxaphene...	8.282f	9.038	309079	144549	91.992	12.282	#
40)		Toxaphene...	0.000	9.200	0	21868203	N.D.	4085.362	#
41)		Toxaphene...	8.609	9.560f	80223	11522925	23.590	2512.802	#
42)		Toxaphene...	3.758	0.000	338264	0	NoCal	N.D.	

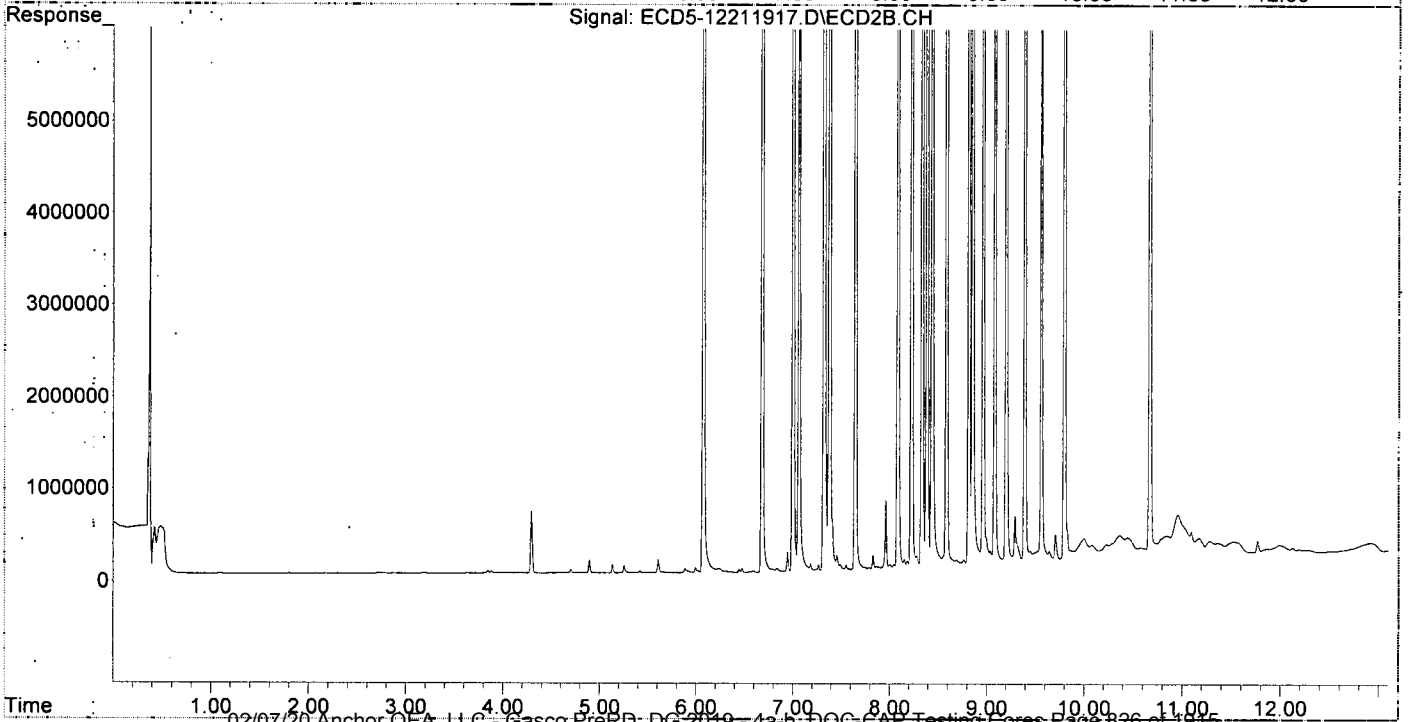
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 18:13
Operator : MJB
Sample : 9L21009-CCV3
Misc : A19K134, 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: Dec 23 11:20:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 18:30
Operator : MJB
Sample : 9L21009-CCV4
Misc : A19J409, 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: Dec 23 11:20:38 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/23/20

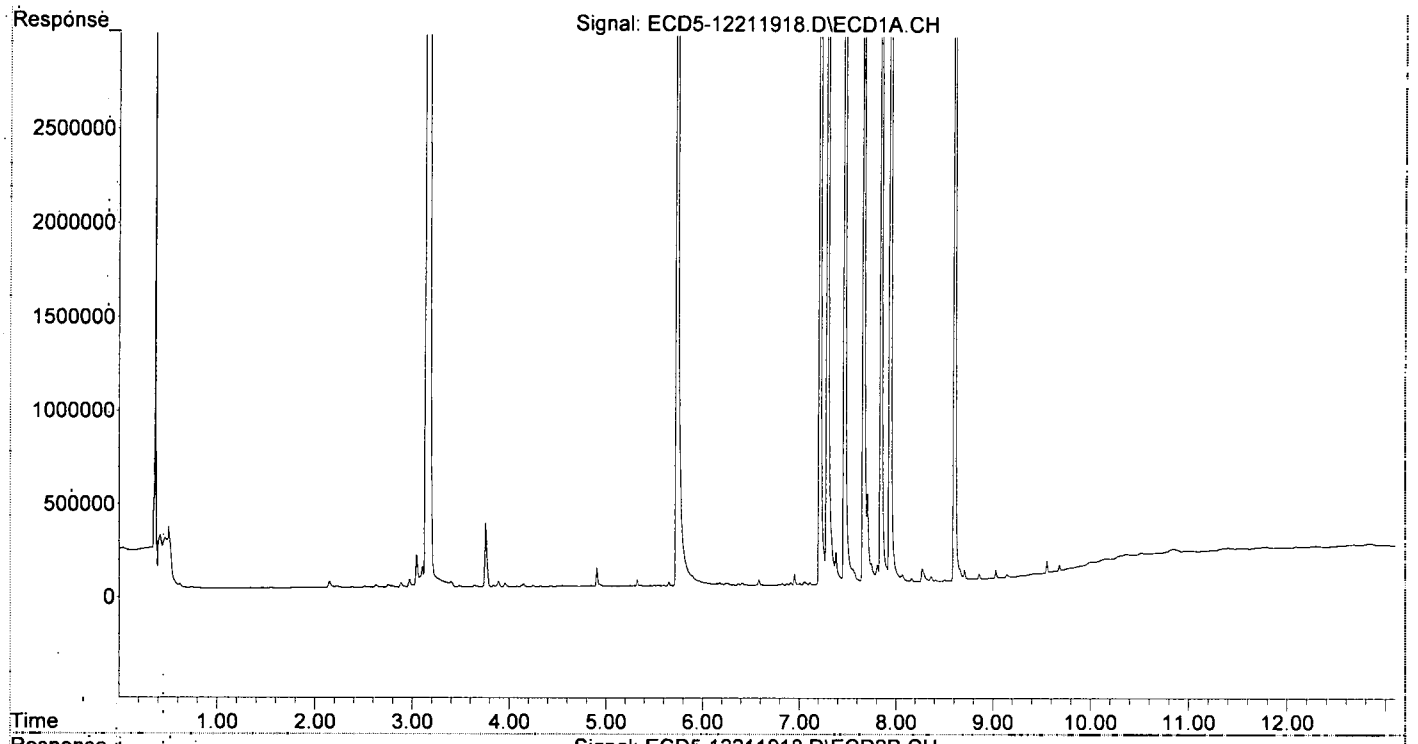
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.356	6.072	5674	15682	0.032	0.053	#
22)	S	DCBP (S)	9.555	10.649f	71823	1167463	0.329	6.856	#
		Target Compounds							
2)		a-BHC	0.000	6.678	0	52283	N.D.	0.131	#
3)		g-BHC	6.177	6.999	15950	19378	0.078	0.057	
4)		b-BHC	6.242	7.064	13064	19087	0.184	0.138	
5)		Heptachlor	6.583	7.376	30079	49360	0.164	0.165	
6)		d-BHC	6.410	7.320	13836	28786	0.066	0.057	
7)		Aldrin	6.825	7.645	10804	19218	0.057	0.062	
8)		Heptachlo...	7.292	8.083	10130732	101676	56.387	0.355	#
9)		trans-Chl...	7.381	8.215	173761	19002822	0.964	65.147	#
10)		cis-Chlor...	7.470	0.000	16493425	0	94.213	N.D.	#
11)		Endosulfa...	0.000	8.391	0	82585	N.D.	0.314	#
12)		4,4'-DDE	0.000	8.435	0	38519	N.D.	0.096	#
13)		Dieldrin	7.747	8.590	108249	16588427	0.551	55.844	#
14)		Endrin	7.941f	8.817	19733719	18683676	129.162	81.498	
15)		4,4'-DDD	7.941f	8.858	19733719	33824521	137.219	132.600	
16)		Endosulfa...	8.070	8.963	40651	64634	0.266	0.273	
17)		4,4'-DDT	8.163	9.082	21411	40419	0.203	0.496	#
18)		Endrin Al...	8.364	9.201	28724	50178	0.240	0.256	
19)		Endosulfa...	0.000	9.392	0	39840	N.D.	BelowCal	
20)		Methoxychlor	8.502	0.000	7882	0	0.229	N.D.	#
21)		Endrin Ke...	8.858	9.791	28896	18122734	BelowCal	76.074	
23)		Hexachlor...	3.149	3.756	13241992	30654384	80.610	84.635	
24)		Hexachlor...	5.734	6.541	14686691	28785776	86.680	98.238	
25)		Oxychlordane	7.214	8.013	14342931	25799143	94.075	101.974	
26)		2,4'-DDE	7.292	8.215	10130732	19002822	93.960	99.921	
27)		trans-Non...	7.470	8.288	16493425	28398639	91.757	100.660	
28)		2,4'-DDD	7.665	8.590	8794566	16588427	89.444	97.845	
29)		2,4'-DDT	7.846	8.817	10468829	18683676	108.193	112.395	
30)		cis-Nonac...	7.941	8.858	19733719	33824521	95.832	105.633	
31)		Mirex	8.606	9.791	11572224	18122734	96.370	106.395	
32)		Chlordane...	7.381	8.215	173761	19002822	9.094	559.565	#
33)		Chlordane...	7.470	0.000	16493425	0	732.116	N.D.	#
34)		Chlordane...	8.070f	9.000	40651	168987	7.122	8.110	
35)		Chlordane...	3.756	3.756f	344200	30654384	NoCal	NoCal	
36)		Toxaphene...	7.470	8.590f	16493425	16588427	15551.147	7011.018	#
37)		Toxaphene...	7.747	8.941	108249	49781	64.218	16.807	#
38)		Toxaphene...	8.070	8.963	40651	64634	9.467	13.337	#
39)		Toxaphene...	8.275f	9.000f	70326	168987	16.045	15.817	
40)		Toxaphene...	8.502f	9.201	7882	50178	3.111	9.225	#
41)		Toxaphene...	8.606	0.000	11572224	0	3402.860	N.D.	#
42)		Toxaphene...	3.756	3.756f	344200	30654384	NoCal	NoCal	

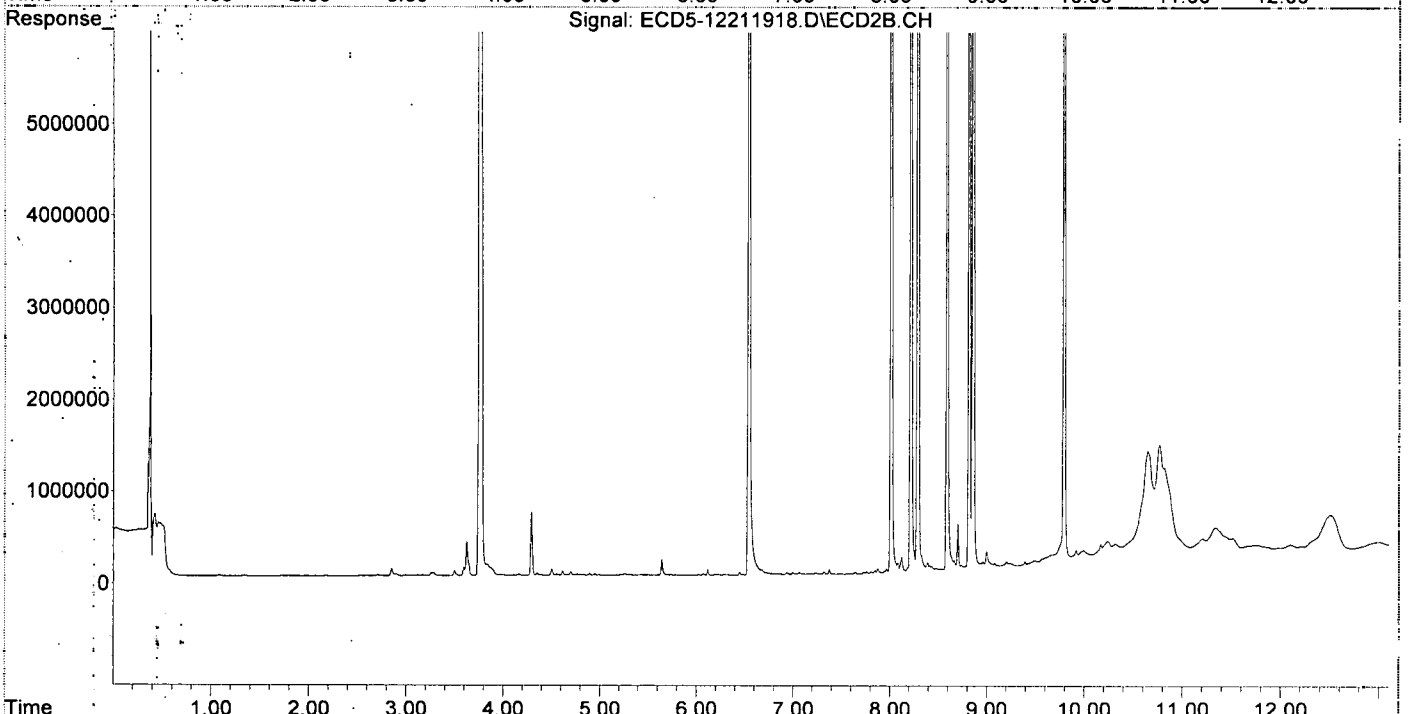
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 18:30
Operator : MJB
Sample : 9L21009-CCV4
Misc : A19J409, 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: Dec 23 11:20:38 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 18:47
Operator : MJB
Sample : 9L21009-CCB2
Misc : A19L018
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: Dec 23 11:20:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/23/19

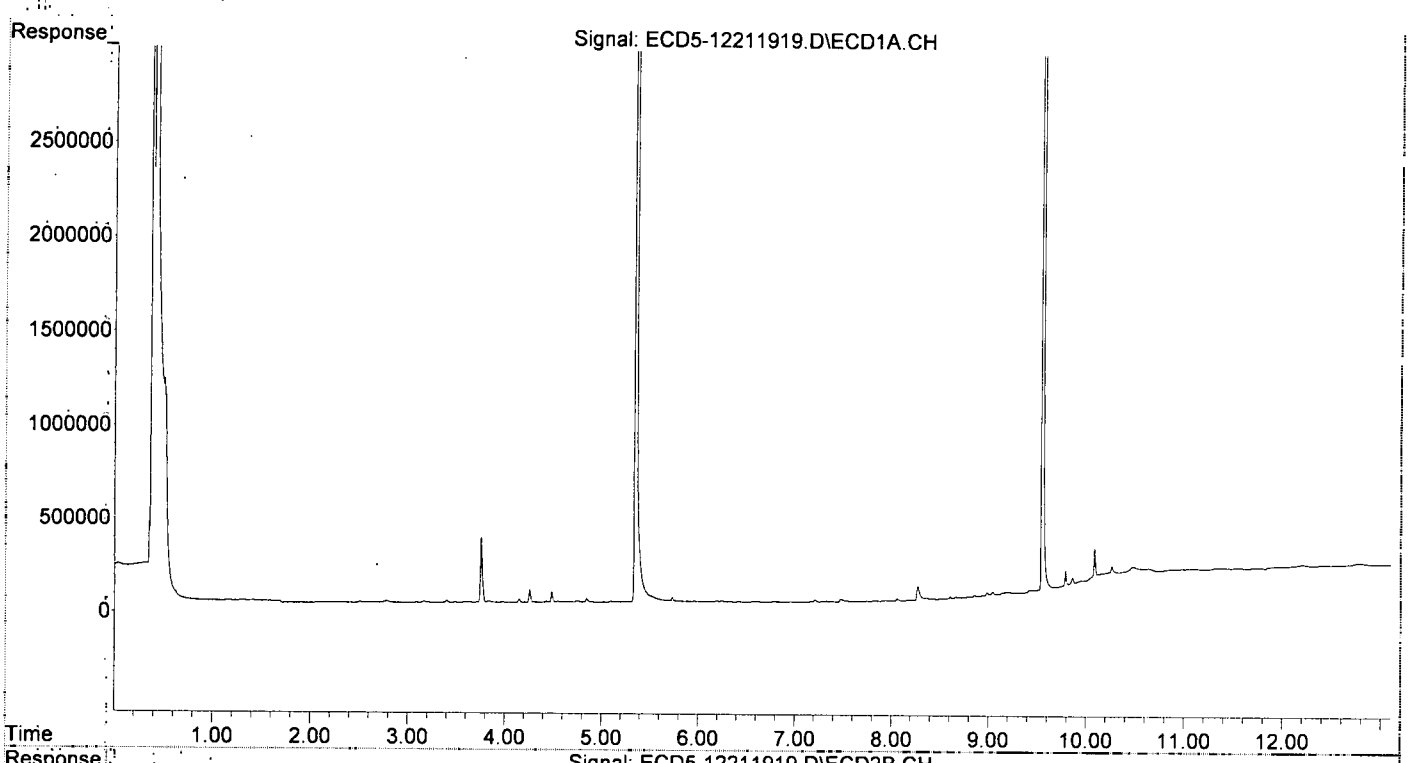
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.353	6.071	16081487	30248909	90.158	101.893	
22)	S	DCBP (S)	9.554	10.671	12932398	17643562	94.672	103.615	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.193	0.000	6436	0	0.032	N.D.	#
4)		b-BHC	6.243	0.000	7625	0	0.108	N.D.	#
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	0.000	7.322	0	5358	N.D.	BelowCal	
7)		Aldrin	0.000	7.652	0	7265	N.D.	0.023	#
8)		Heptachlo...	7.292	0.000	3251	0	0.018	N.D.	#
9)		trans-Chl...	7.382	8.238	4329	31611	0.024	0.108	#
10)		cis-Chlor...	7.482	8.333	14780	4286	BelowCal	0.015	
11)		Endosulfa...	7.578	8.388	2825	3582	0.016	0.014	
12)		4,4'-DDE	7.578f	8.438	2825	4588	0.018	BelowCal	#
13)		Dieldrin	7.750	8.588	2662	11304	0.014	0.038	#
14)		Endrin	7.914	8.817	1898	9781	0.012	BelowCal	#
15)		4,4'-DDD	7.972	8.857	3143	14996	BelowCal	BelowCal	
16)		Endosulfa...	8.060	8.966	10617	14181	0.069	0.060	
17)		4,4'-DDT	8.163	9.084	1557	18118	BelowCal	0.342	
18)		Endrin Al...	8.363	9.200	13639	32221	0.114	0.164	#
19)		Endosulfa...	8.665	9.395	8466	94946	BelowCal	0.217	
20)		Methoxychlor	8.499	9.565	5256	155565	0.174	2.255	#
21)		Endrin Ke...	8.859	9.815	9216	219501	BelowCal	0.852	
23)		Hexachlor...	3.167	0.000	8886	0	BelowCal	N.D.	
24)		Hexachlor...	5.734	6.555	23944	6705	BelowCal	0.023	
25)		Oxychlordane	7.213	8.015	12191	4065	BelowCal	0.016	
26)		2,4'-DDE	7.292	8.238	3251	31611	0.030	0.166	#
27)		trans-Non...	7.482	8.286	14780	8813	0.082	0.031	#
28)		2,4'-DDD	7.668	8.588	2722	11304	0.028	0.067	#
29)		2,4'-DDT	7.848	8.817	2658	9781	0.027	BelowCal	#
30)		cis-Nonac...	7.942	8.857	5316	14996	0.026	0.047	#
31)		Mirex	8.608	9.815	9613	219501	BelowCal	1.080	
32)		Chlordane...	7.382	8.238	4329	31611	0.227	0.931	#
33)		Chlordane...	7.482	8.333	14780	4286	0.656	0.148	#
34)		Chlordane...	8.060f	9.000	10617	144341	1.860	4.922	#
35)		Chlordane...	3.756	0.000	349202	0	NoCal	N.D.	
36)		Toxaphene...	7.482	8.588f	14780	11304	14.954	4.778	#
37)		Toxaphene...	7.750	8.942	2662	20427	78764.027	6.897	#
38)		Toxaphene...	8.060	8.966	10617	14181	0.183	2.926	#
39)		Toxaphene...	8.275f	9.000f	75017	144341	17.542	12.251	
40)		Toxaphene...	0.000	9.200	0	32221	N.D.	4.732	#
41)		Toxaphene...	8.608	9.565f	9613	155565	2.827	33.924	#
42)		Toxaphene...	3.756	0.000	349202	0	NoCal	N.D.	

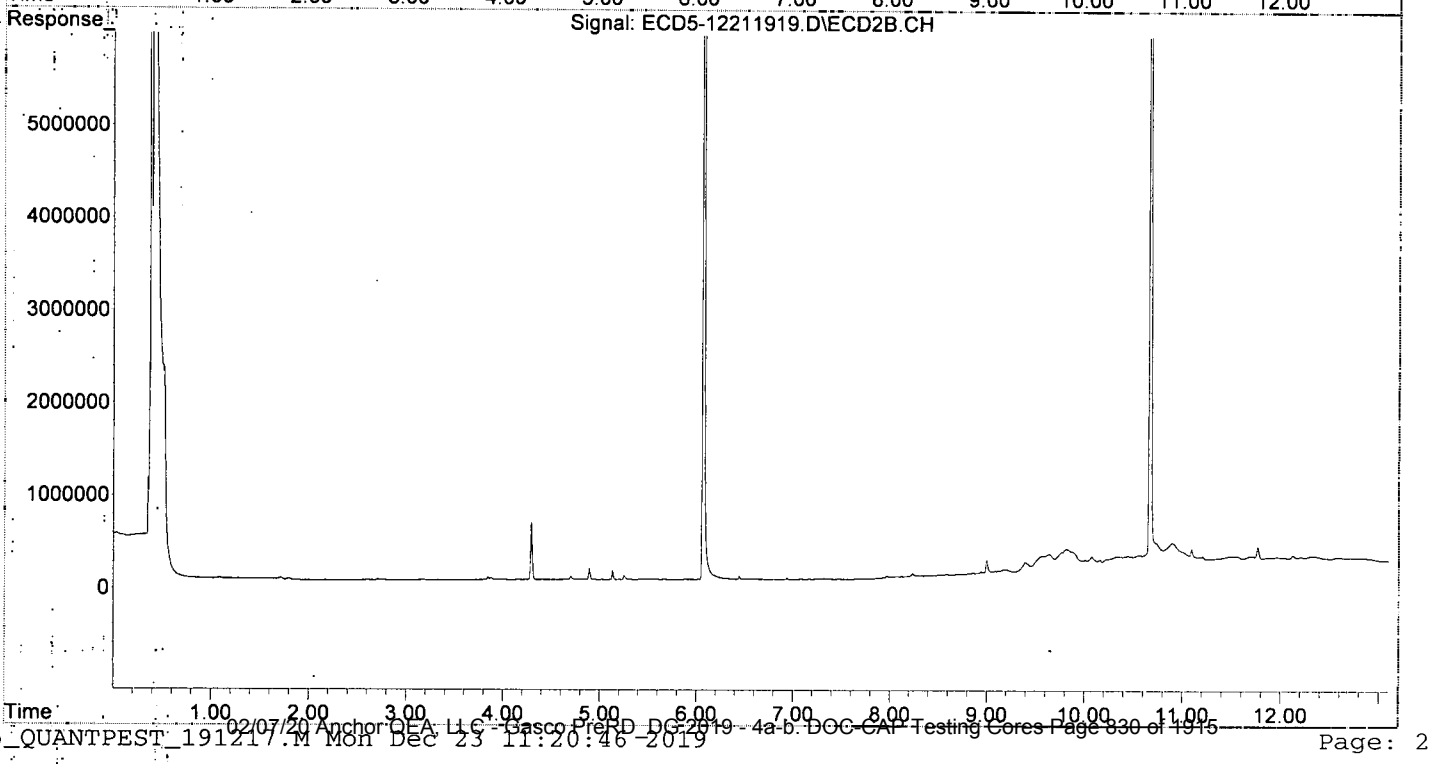
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 18:47
Operator : MJB
Sample : 9L21009-CCB2
Misc : A19L018
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: Dec 23 11:20:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 19:04
Operator : MJB
Sample : 9121153-BLK1
Misc : 1x, 608 (SW/TTO), 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: Dec 23 11:20:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/23/19

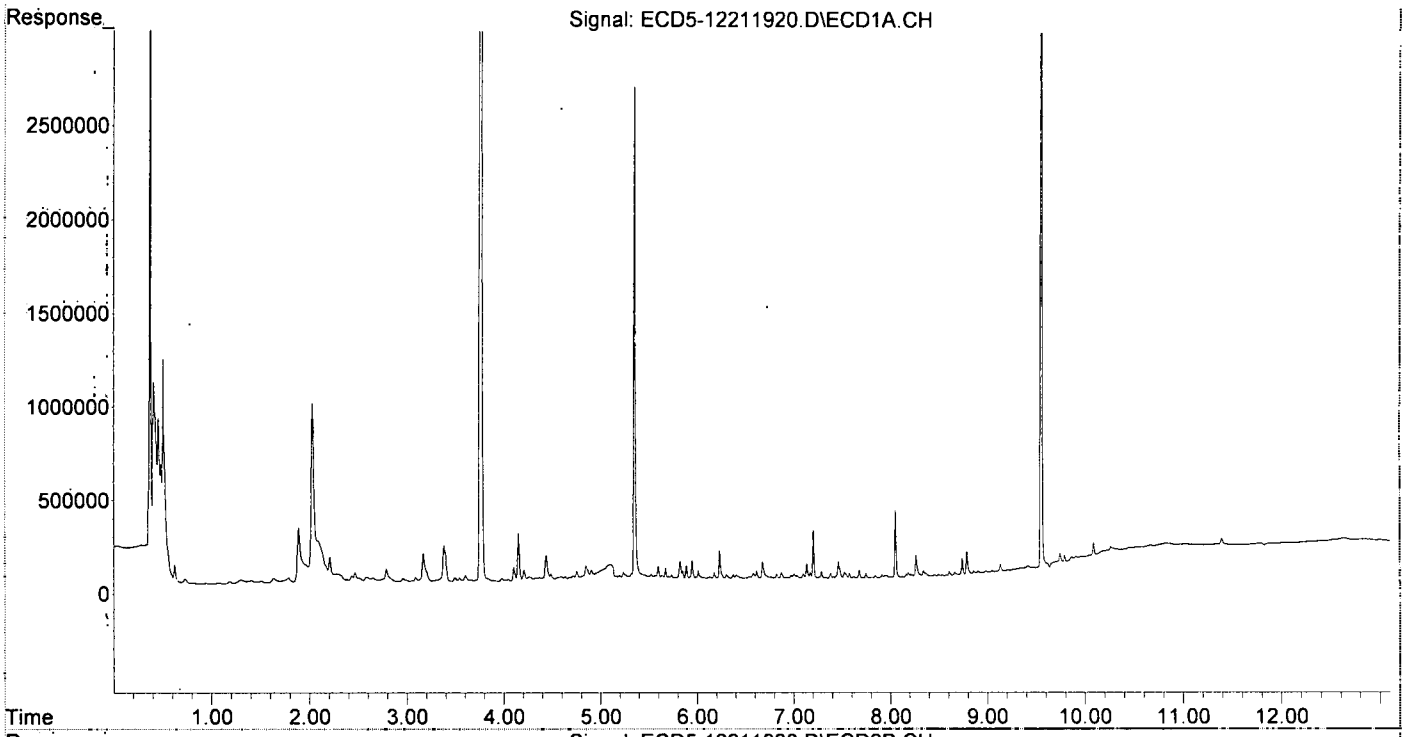
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.352	6.070	2624615	4494885	14.714	15.141	
22)	S	DCBP (S)	9.552	10.670	5530570	6402153	41.057	37.598	
		Target Compounds							
2)		a-BHC	5.887	6.677	76438	52822	0.318	0.133	#
3)		g-BHC	6.176	6.997	37275	52434	0.183	0.155	
4)		b-BHC	6.232f	7.050	153113	28943	2.159	0.209	#
5)		Heptachlor	6.582	7.375	31205	41295	0.170	0.138	
6)		d-BHC	6.403	7.317	23785	45858	0.138	0.118	
7)		Aldrin	6.823	7.646	25971	25972	0.137	0.084	
8)		Heptachlo...	7.286	8.082	38324	52341	0.213	0.183	
9)		trans-Chl...	7.380	8.222	27940	155239	0.155	0.532	#
10)		cis-Chlor...	7.461f	8.348	89024	62830	0.349	0.224	
11)		Endosulfa...	7.575	8.385	26483	43346	0.151	0.165	
12)		4,4'-DDE	7.523f	8.434	31923	22728	0.208	0.034	#
13)		Dieldrin	7.747	8.586	25577	42796	0.130	0.144	
14)		Endrin	7.912	8.815	14690	28915	0.096	0.080	
15)		4,4'-DDD	7.962	8.854	12378	23331	BelowCal	BelowCal	
16)		Endosulfa...	8.051f	8.938f	352115	383488	2.305	1.620	
17)		4,4'-DDT	8.160	9.079	15770	33600	0.141	0.449	#
18)		Endrin Al...	8.339f	9.199	30742	21488	0.257	0.109	#
19)		Endosulfa...	8.664	9.391	14582	21275	BelowCal	BelowCal	
20)		Methoxychlor	8.496	9.561	7803	26437	0.228	0.495	#
21)		Endrin Ke...	8.856	9.794	11316	122316	BelowCal	0.383	
23)		Hexachlor...	3.167	3.736f	151816	503985	0.779	1.391	#
24)		Hexachlor...	5.733	6.549	25747	199598	BelowCal	0.681	
25)		Oxychlordane	7.202	8.004	256337	45603	1.617	0.180	#
26)		2,4'-DDE	7.286	8.222	38324	155239	0.355	0.816	#
27)		trans-Non...	7.461	8.286	89024	43590	0.495	0.155	#
28)		2,4'-DDD	7.678	8.586	43782	42796	0.445	0.252	#
29)		2,4'-DDT	7.843	8.815	11102	28915	0.115	0.127	
30)		cis-Nonac...	7.940	8.854	12745	23331	0.062	0.073	
31)		Mirex	8.606	9.794	18185	122316	BelowCal	0.436	
32)		Chlordane...	7.380	8.222	27940	155239	1.462	4.571	#
33)		Chlordane...	7.461f	8.348	89024	62830	3.952	2.175	#
34)		Chlordane...	8.051	8.994	352115	185891	61.688	10.295	#
35)		Chlordane...	3.757	3.736	7025967	503985	NoCal	NoCal	
36)		Toxaphene...	7.461	8.586f	89024	42796	104.970	18.088	#
37)		Toxaphene...	7.747	8.938	25577	383488	12.390	129.477	#
38)		Toxaphene...	8.051f	8.938f	352115	383488	105.158	79.134	
39)		Toxaphene...	8.339f	8.994f	30742	185891	3.397	18.260	#
40)		Toxaphene...	8.531	9.199	3102	21488	1.224	2.045	#
41)		Toxaphene...	8.606	9.593	18185	116205	5.347	25.341	#
42)		Toxaphene...	3.757	3.736	7025967	503985	NoCal	NoCal	

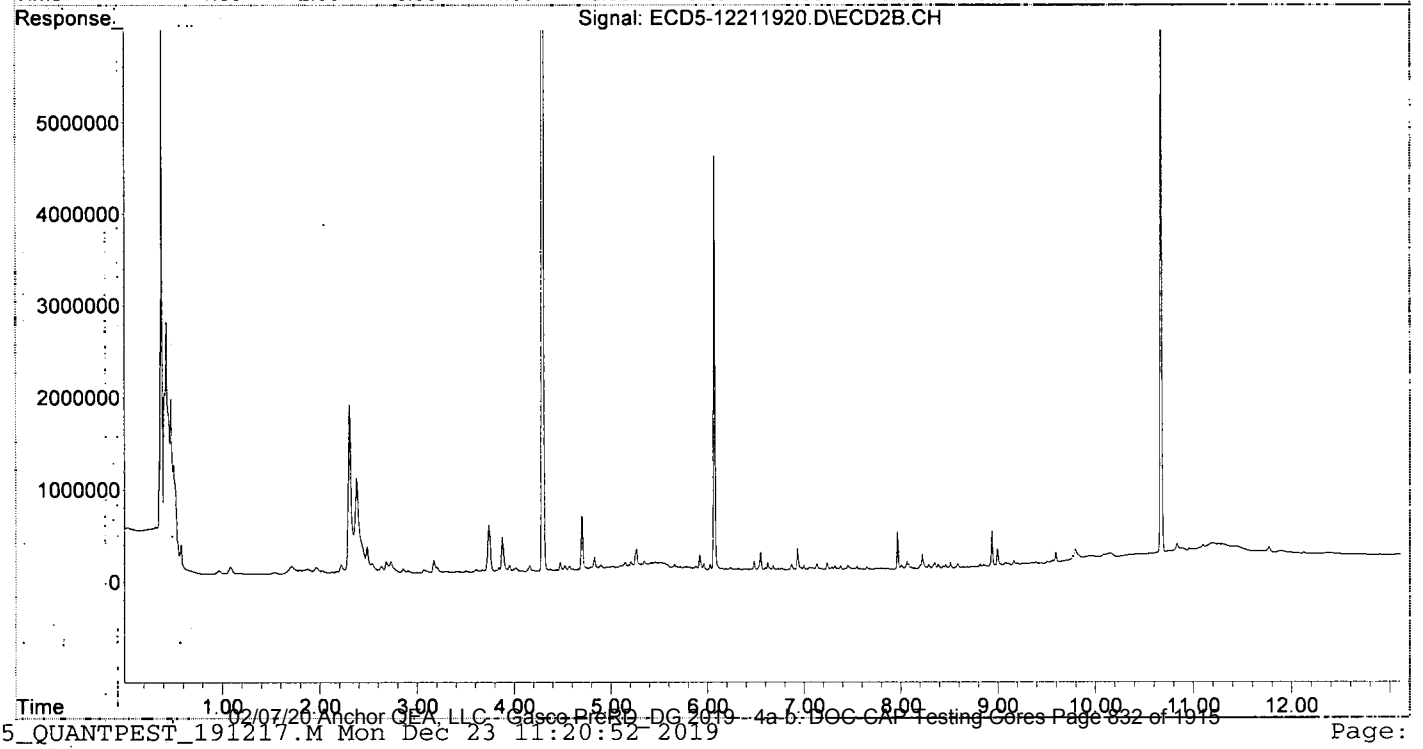
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 19:04
Operator : MJB
Sample : 9121153-BLK1
Misc : 1x, 608 (SW/TTO), 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: Dec 23 11:20:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 19:21
Operator : MJB
Sample : 9121153-BS1
Misc : 1x, 608 (SW/TTO), GPC
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: Dec 23 11:20:57 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/23/19

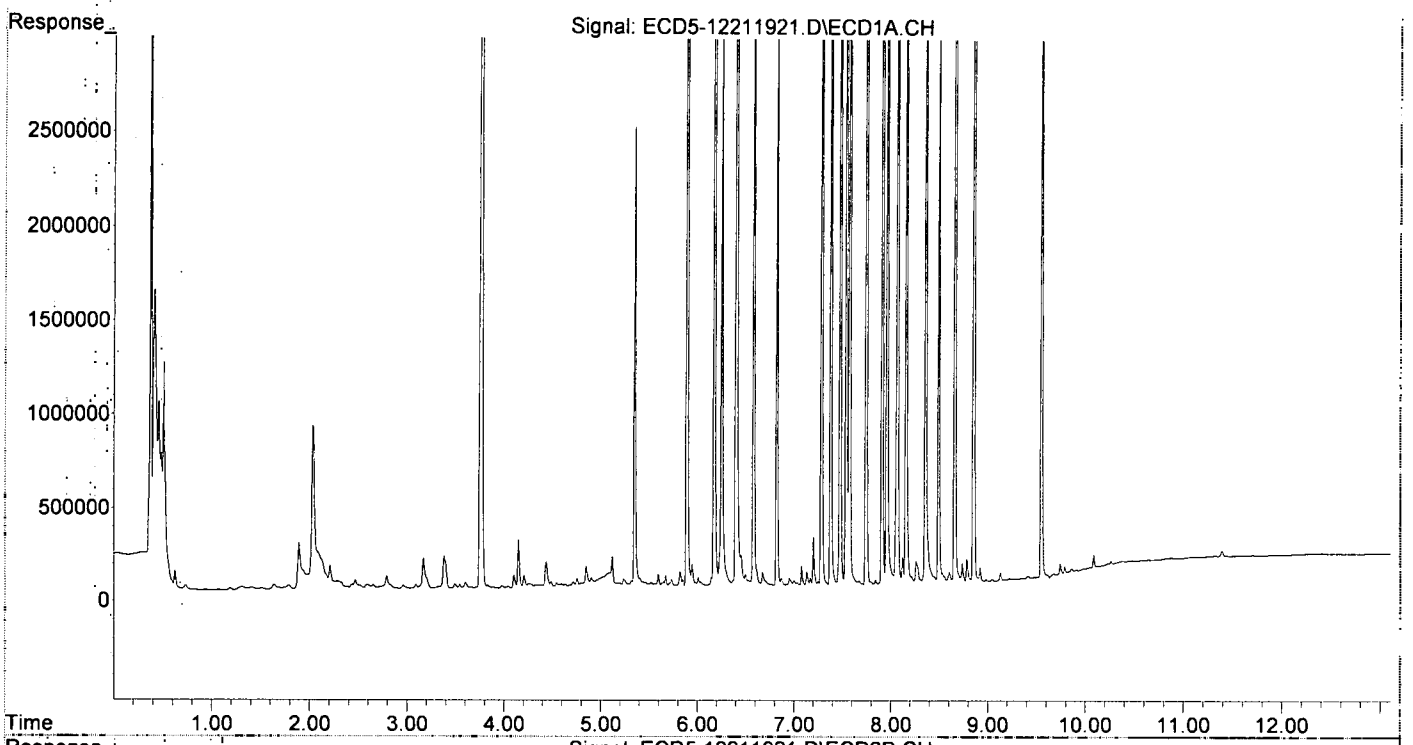
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.352	6.069	2449357	4277645	13.732	14.409	
22)	S DCBP (S)	9.552	10.670	5422143	6435821	40.258	37.795	
	Target Compounds							
2)	a-BHC	5.892	6.678	8807761	15620079	36.689	39.252	
3)	g-BHC	6.175	6.998	7720150	13872504	37.963	40.968	
4)	b-BHC	6.252	7.060	2935599	5682889	41.404	41.007	
5)	Heptachlor	6.583	7.376	4682720	8151797	25.469	27.246	
6)	d-BHC	6.401	7.318	6922015	14505402	45.962	47.383	
7)	Aldrin	6.823	7.644	3453470	5661338	18.187	18.246	Q-30
8)	Heptachlo...	7.285	8.084	7466779	12017480	41.560	41.963	
9)	trans-Chl...	7.380	8.224	6472783	10646738	35.902	36.500	
10)	cis-Chlor...	7.478	8.332	6548605	10246216	38.508	36.509	
11)	Endosulfa...	7.575	8.384	7519193	11713021	42.785	44.563	
12)	4,4'-DDE	7.540	8.435	6232751	10273207	40.568	37.854	
13)	Dieldrin	7.747	8.586	8702599	14023745	44.337	47.210	
14)	Endrin	7.912	8.816	7726761	11587052	50.574	52.911	
15)	4,4'-DDD	7.962	8.852	6718787	10826277	52.126	48.385	
16)	Endosulfa...	8.069	8.962	7475953	12112032	48.930	51.160	
17)	4,4'-DDT	8.159	9.081	6215012	9527202	57.699	56.122	
18)	Endrin Al...	8.360	9.200	6087680	9344670	50.927	47.604	
19)	Endosulfa...	8.662	9.391	7495063	11963829	53.027	57.017	
20)	Methoxychlor	8.495	9.560	3734123	5647155	68.244	66.207	
21)	Endrin Ke...	8.856	9.796	8784001	13426364	53.011	58.104	
23)	Hexachlor...	3.168	3.737f	164815	440526	0.861	1.216	#
24)	Hexachlor...	5.732	6.548	37033	207002	0.048	0.706	#
25)	Oxychlordane	7.202	8.006	254833	47071	1.607	0.186	#
26)	2,4'-DDE	7.285	8.224	7466779	10646738	69.252	55.983	
27)	trans-Non...	7.478	8.285	6548605	57622	36.431	0.204	#
28)	2,4'-DDD	7.674	8.586	18704	14023745	0.190	82.718	#
29)	2,4'-DDT	7.844	8.816	22504	11587052	0.233	74.917	#
30)	cis-Nonac...	7.962	8.852	6718787	10826277	32.628	33.810	
31)	Mirex	8.606	9.796	51301	13426364	0.181	80.926	#
32)	Chlordane...	7.380	8.224	6472783	10646738	338.769	313.508	
33)	Chlordane...	7.478	8.332	6548605	10246216	290.682	354.702	
34)	Chlordane...	8.069f	8.994	7475953	232466	1309.727	16.312	#
35)	Chlordane...	3.757	3.737	6916002	440526	NoCal	NoCal	
36)	Toxaphene...	7.478	8.586f	6548605	14023745	7035.848	5927.068	
37)	Toxaphene...	7.747	8.938	8702599	438965	5886.787	148.207	#
38)	Toxaphene...	8.069	8.962	7475953	12112032	2062.238	2499.342	
39)	Toxaphene...	0.000	9.036	0	58540	N.D.	BelowCal	
40)	Toxaphene...	0.000	9.200	0	9344670	N.D.	2003.491	#
41)	Toxaphene...	8.606	9.592	51301	157523	15.085	34.351	#
42)	Toxaphene...	3.757	3.737	6916002	440526	NoCal	NoCal	

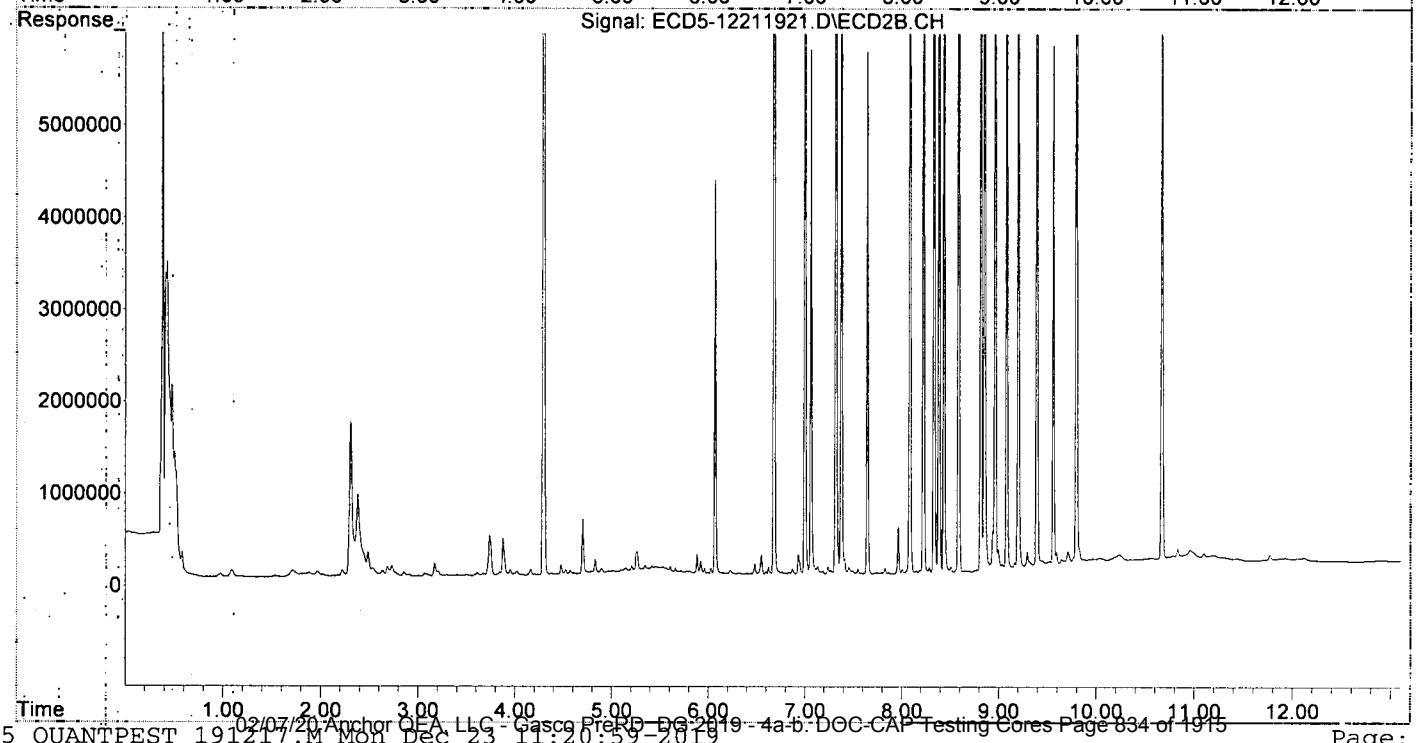
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 19:21
Operator : MJB
Sample : 9121153-BS1
Misc : 1x, 608 (SW/TTO), GPC
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: Dec 23 11:20:57 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 19:38
Operator : MJB
Sample : 9121153-BSD1
Misc : 1x, 608 (SW/TTO), GPC
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: Dec 23 11:21:04 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Q-19

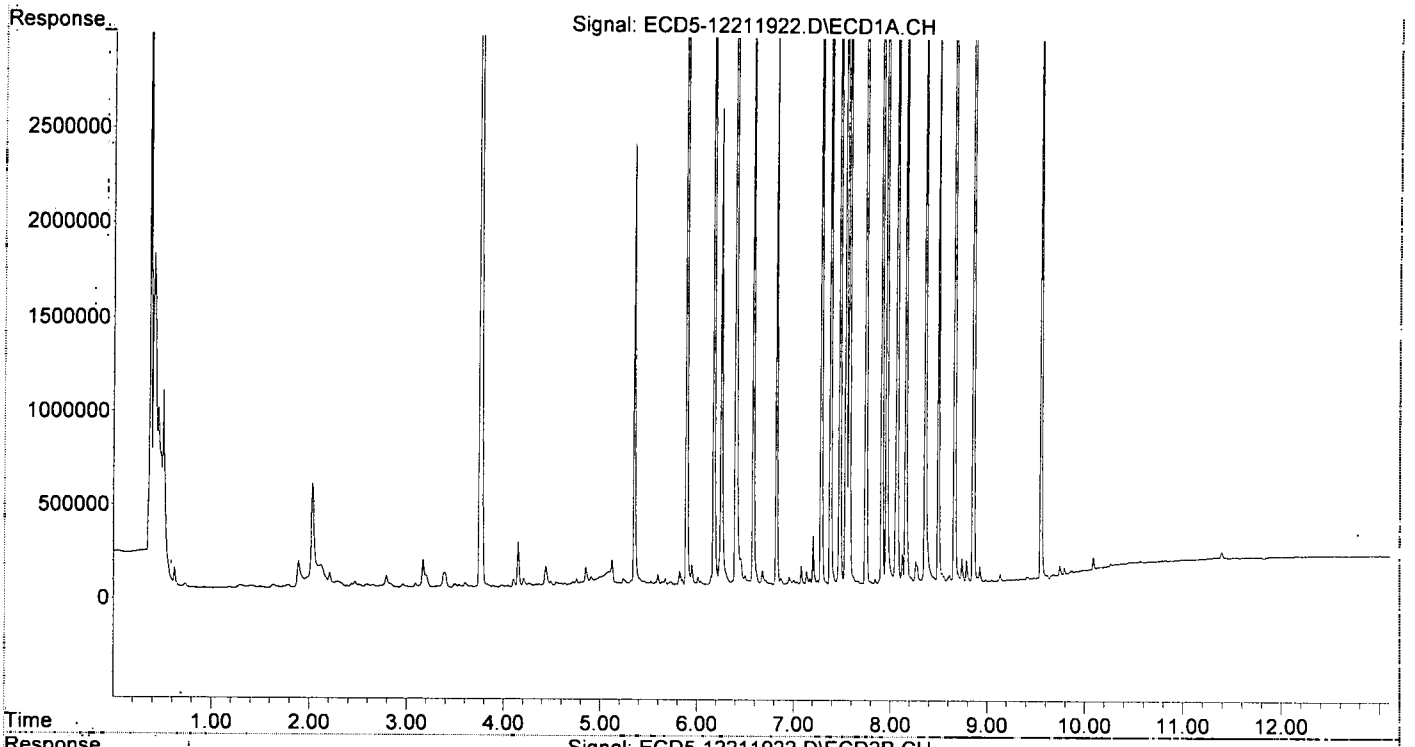
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.352	6.070	2350572	4099697	13.178	13.810	
22)	S	DCBP (S)	9.552	10.671	5270719	6141064	39.142	36.064	
		Target Compounds							
2)		a-BHC	5.892	6.679	6453828	11102382	26.884	27.899	
3)		g-BHC	6.175	6.999	5982878	10648513	29.420	31.447	
4)		b-BHC	6.252	7.061	2518968	4972027	35.527	35.878	
5)		Heptachlor	6.583	7.376	3889069	6676151	21.152	22.314	
6)		d-BHC	6.401	7.319	6414868	12632100	42.845	41.687	
7)		Aldrin	6.823	7.645	3144446	5190331	16.559	16.728	Q-30
8)		Heptachlo...	7.286	8.084	7017554	11193569	39.059	39.086	
9)		trans-Chl...	7.381	8.225	6517771	10893101	36.152	37.345	
10)		cis-Chlor...	7.478	8.333	6647862	10502428	39.081	37.422	
11)		Endosulfa...	7.576	8.385	7021936	11417495	39.956	43.439	
12)		4,4'-DDE	7.540	8.436	6652833	11356628	43.302	41.579	
13)		Dieldrin	7.747	8.587	8534544	13895240	43.481	46.778	
14)		Endrin	7.912	8.816	7563656	11365890	49.506	51.981	
15)		4,4'-DDD	7.962	8.853	7032447	11388055	54.396	50.705	
16)		Endosulfa...	8.069	8.963	7370893	12261873	48.242	51.793	
17)		4,4'-DDT	8.159	9.082	6442744	9847965	59.519	57.749	
18)		Endrin Al...	8.360	9.201	5692337	8894135	47.619	45.309	
19)		Endosulfa...	8.663	9.392	7426063	11628242	52.554	55.543	
20)		Methoxychlor	8.496	9.560	3699333	5570317	67.681	65.422	
21)		Endrin Ke...	8.856	9.797	8582830	13481694	51.839	58.322	
23)		Hexachlor...	3.168	3.738f	147791	206910	0.754	0.571	
24)		Hexachlor...	5.731	6.549	20921	195504	BelowCal	0.667	
25)		Oxychlordane	7.202	8.007	257218	27928	1.623	0.110	#
26)		2,4'-DDE	7.286	8.225	7017554	10893101	65.086	57.278	
27)		trans-Non...	7.478	8.285	6647862	60600	36.984	0.215	#
28)		2,4'-DDD	7.707f	8.587	4389	13895240	0.045	81.960	#
29)		2,4'-DDT	7.843	8.816	24175	11365890	0.250	73.670	#
30)		cis-Nonac...	7.962	8.853	7032447	11388055	34.151	35.564	
31)		Mirex	8.609	9.797	37267	13481694	0.062	81.233	#
32)		Chlordane...	7.381	8.225	6517771	10893101	341.124	320.762	
33)		Chlordane...	7.478	8.333	6647862	10502428	295.088	363.571	
34)		Chlordane...	8.069f	8.994	7370893	232878	1291.321	16.365	#
35)		Chlordane...	3.757	3.738	6411011	206910	NoCal	NoCal	
36)		Toxaphene...	7.478	8.587f	6647862	13895240	7131.352	5872.756	
37)		Toxaphene...	7.747	0.000	8534544	0	5763.263	N.D.	#
38)		Toxaphene...	8.069	8.963	7370893	12261873	2035.988	2530.262	
39)		Toxaphene...	0.000	9.037	0	60966	N.D.	0.168	#
40)		Toxaphene...	0.000	9.201	0	8894135	N.D.	1918.408	#
41)		Toxaphene...	8.609	9.593	37267	208377	10.958	45.441	#
42)		Toxaphene...	3.757	3.738	6411011	206910	NoCal	NoCal	

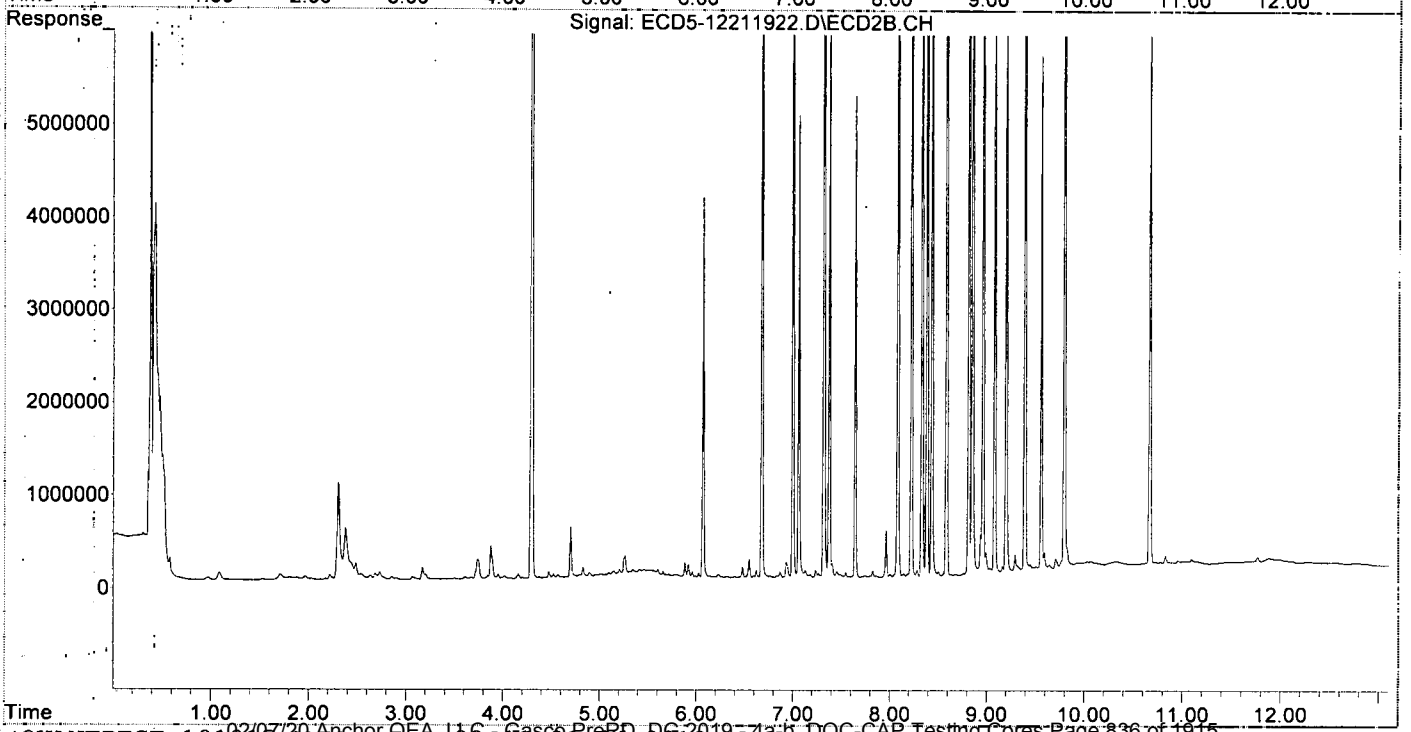
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 19:38
Operator : MJB
Sample : 9121153-BSD1
Misc : 1x, 608 (SW/TTO), GPC
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: Dec 23 11:21:04 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 21:04
Operator : MJB
Sample : 9L21009-CCV5
Misc : A19K133, 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: Dec 23 11:21:39 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/24/19

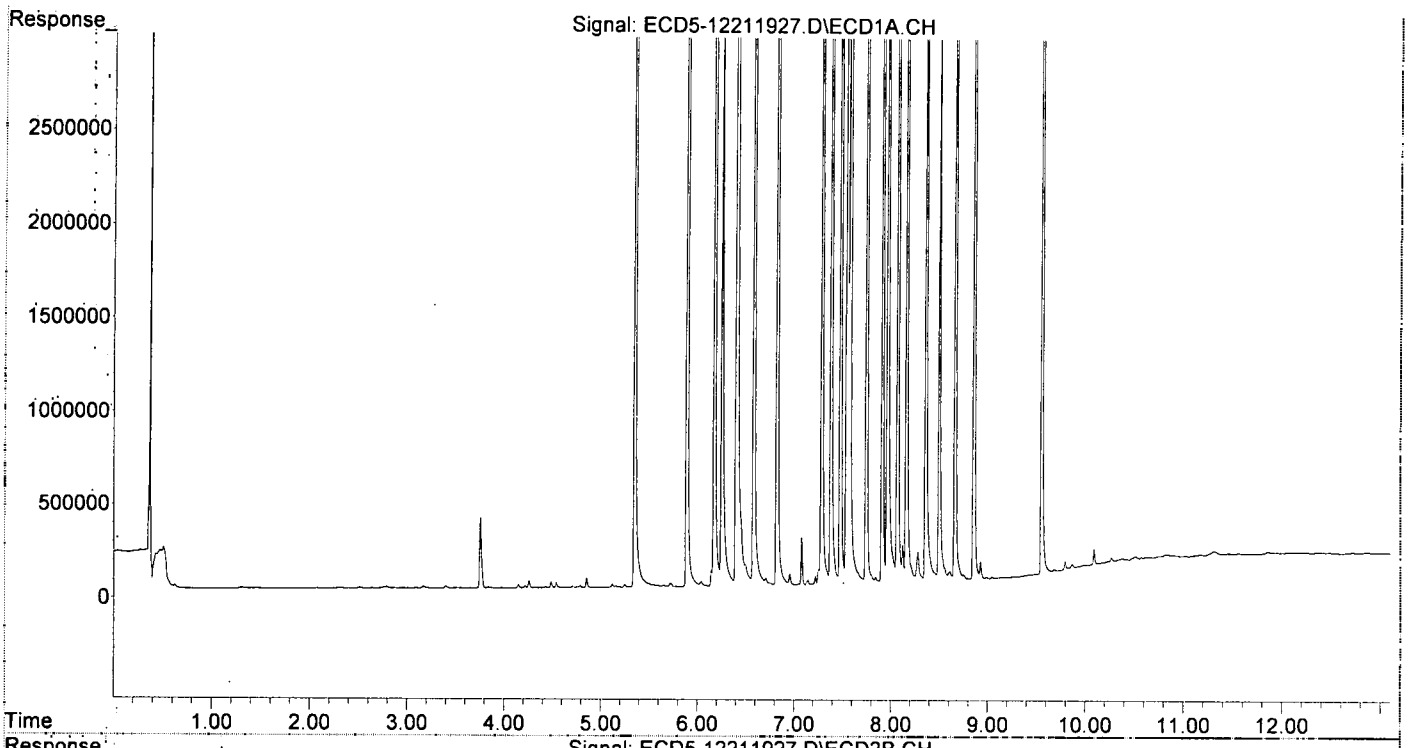
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
21)	S	TCMX (S)	5.352	6.070	8239351	14656437	46.192	49.370	
22)	S	DCBP (S)	9.555	10.671	6666574	8739514	49.403	51.324	
		Target Compounds							
2)		a-BHC	5.892	6.679	12344649	22111115	51.422	55.563	
3)		g-BHC	6.176	6.998	10048350	18766829	49.412	55.422	
4)		b-BHC	6.253	7.061	3235483	6809500	45.633	49.137	
5)		Heptachlor	6.584	7.377	9493025	17313722	51.632	57.869	
6)		d-BHC	6.404	7.319	6887812	16710976	45.752	53.953	
7)		Aldrin	6.824	7.645	9559673	17146763	50.343	55.262	
8)		Heptachlo...	7.287	8.084	8808255	15161381	49.026	52.941	
9)		trans-Chl...	7.382	8.225	8943202	15513207	49.605	53.184	
10)		cis-Chlor...	7.479	8.333	9002218	14810675	52.575	52.773	
11)		Endosulfa...	7.577	8.385	8672851	14181872	49.350	53.956	
12)		4,4'-DDE	7.544	8.436	7751871	14814226	50.456	53.174	
13)		Dieldrin	7.748	8.586	9940636	16351257	50.645	55.046	
14)		Endrin	7.913	8.816	7743137	12345774	50.681	56.085	
15)		4,4'-DDD	7.967	8.854	6391150	12520447	49.741	55.330	
16)		Endosulfa...	8.071	8.963	7482565	12792557	48.973	54.034	
17)		4,4'-DDT	8.162	9.082	6463969	11324834	59.687	65.083	a-u
18)		Endrin Al...	8.362	9.200	6390374	10753277	53.459	54.780	
19)		Endosulfa...	8.664	9.391	7539623	12410962	53.332	58.970	
20)		Methoxychlor	8.501	9.561	3125052	5590083	58.222	65.624	
21)		Endrin Ke...	8.858	9.796	9026029	13913485	54.419	60.016	
23)		Hexachlor...	3.167	0.000	10459	0	BelowCal	N.D.	
24)		Hexachlor...	5.720	6.553	18885	8098	BelowCal	0.028	
25)		Oxychlordane	7.222	8.042f	42146	63320	0.105	0.250	#
26)		2,4'-DDE	7.287	8.225	8808255	15513207	81.694	81.572	
27)		trans-Non...	7.479	8.279	9002218	72382	50.081	0.257	#
28)		2,4'-DDD	0.000	8.586	0	16351257	N.D.	96.447	#
29)		2,4'-DDT	7.846	8.816	29215	12345774	0.302	79.155	#
30)		cis-Nonac...	7.967f	8.854	6391150	12520447	31.037	39.101	
31)		Mirex	8.610	9.796	42607	13913485	0.107	83.628	#
32)		Chlordane...	7.382	8.225	8943202	15513207	468.065	456.808	
33)		Chlordane...	7.479	8.333	9002218	14810675	399.594	512.713	
34)		Chlordane...	8.071f	8.997	7482565	208318	1310.885	13.193	#
35)		Chlordane...	3.756	0.000	372147	0	NoCal	N.D.	
36)		Toxaphene...	7.479	8.586f	9002218	16351257	9323.027	6910.779	
37)		Toxaphene...	7.748	0.000	9940636	0	6811.202	N.D.	#
38)		Toxaphene...	8.071	8.963	7482565	12792557	2063.888	2639.770	
39)		Toxaphene...	8.281f	9.036	153299	64531	42.504	0.686	#
40)		Toxaphene...	8.501f	9.200	3125052	10753277	1233.442	2263.860	#
41)		Toxaphene...	8.610	9.561f	42607	5590083	12.529	1219.028	#
42)		Toxaphene...	3.756	0.000	372147	0	NoCal	N.D.	

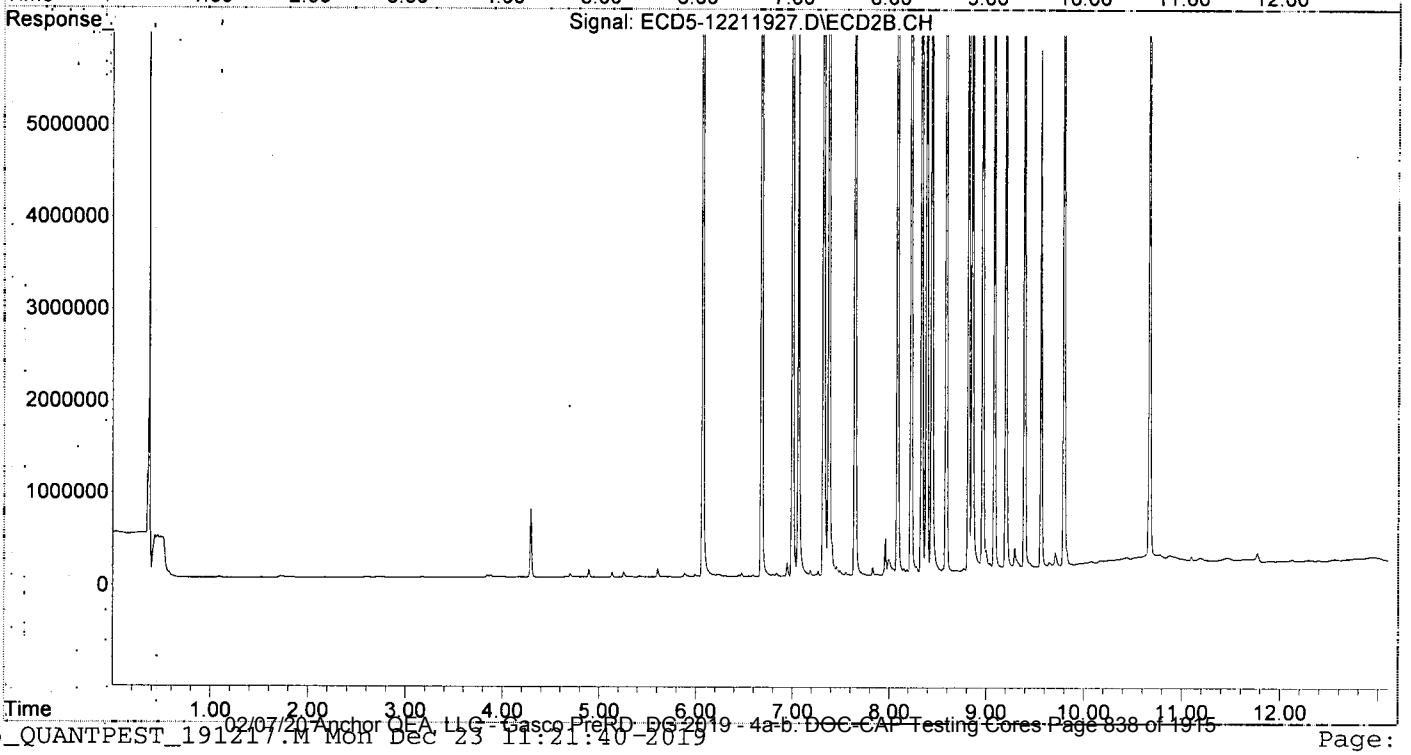
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 21:04
Operator : MJB
Sample : 9L21009-CCV5
Misc : A19K133, 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: Dec 23 11:21:39 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 21:21
Operator : MJB
Sample : 9L21009-CCB3
Misc : A19L018
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: Dec 23 11:21:46 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 1/23/19

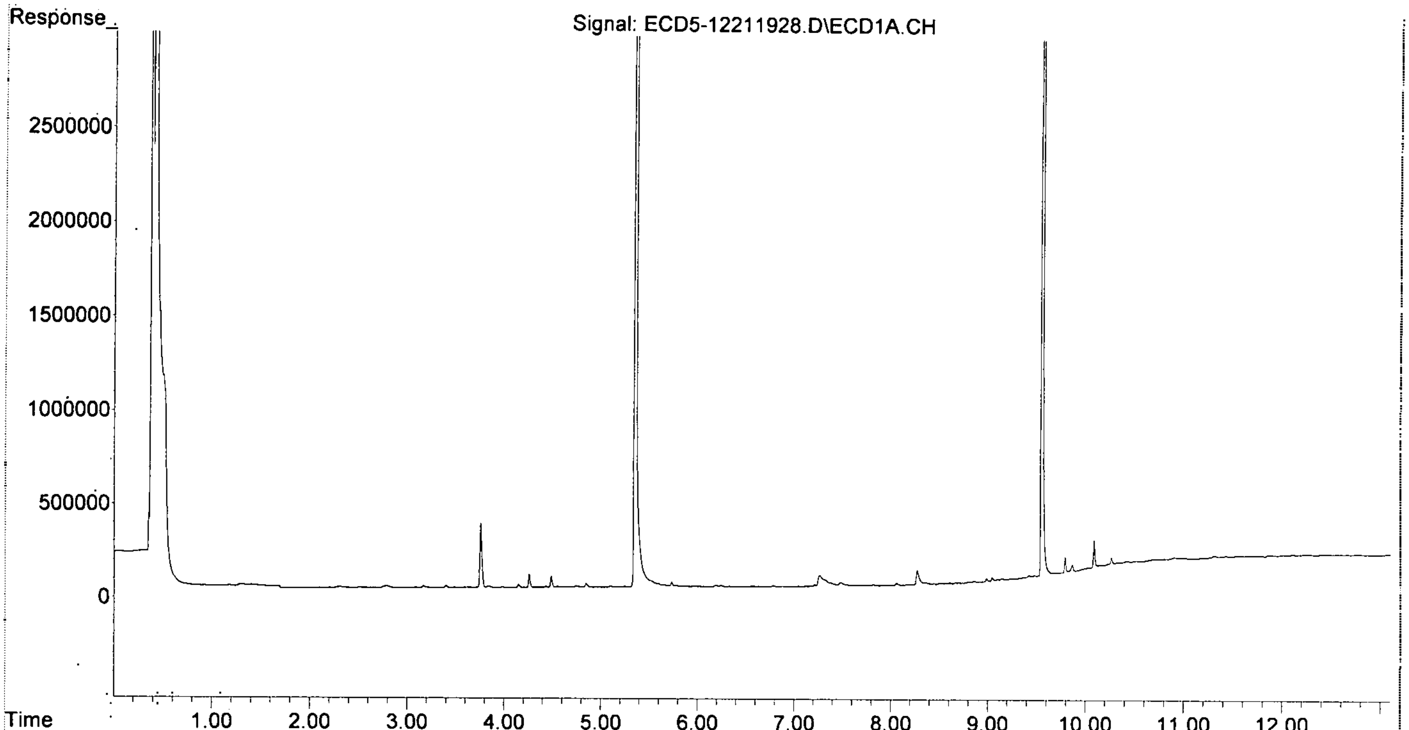
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.353	6.071	16015163	30781191	89.786	103.686	
22)	S DCBP (S)	9.554	10.672	13255726	17785991	96.975	104.451	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.190	0.000	6644	0	0.033	N.D.	#
4)	b-BHC	6.243	0.000	7585	0	0.107	N.D.	#
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)	d-BHC	0.000	7.323	0	6376	N.D.	BelowCal	
7)	Aldrin	0.000	7.652	0	8275	N.D.	0.027	#
8)	Heptachlo...	7.266f	0.000	57772	0	0.322	N.D.	#
9)	trans-Chl...	0.000	8.238	0	33840	N.D.	0.116	#
10)	cis-Chlor...	7.483	8.334	16579	3059	BelowCal	0.011	
11)	Endosulfa...	7.577	0.000	2928	0	0.017	N.D.	#
12)	4,4'-DDE	7.577f	0.000	2928	0	0.019	N.D.	#
13)	Dieldrin	0.000	8.586	0	3701	N.D.	0.012	#
14)	Endrin	0.000	8.817	0	5095	N.D.	BelowCal	
15)	4,4'-DDD	7.974	8.856	2143	3255	BelowCal	BelowCal	
16)	Endosulfa...	8.060	8.966	11407	5562	0.075	0.023	#
17)	4,4'-DDT	8.165	9.084	1648	7865	BelowCal	0.271	
18)	Endrin Al...	8.363	9.201	12471	20111	0.104	0.102	
19)	Endosulfa...	8.666	9.392	5510	7656	BelowCal	BelowCal	
20)	Methoxychlor	8.499	0.000	5603	0	0.181	N.D.	#
21)	Endrin Ke...	8.859	9.799	6603	38595	BelowCal	BelowCal	
23)	Hexachlor...	3.166	0.000	10067	0	BelowCal	N.D.	
24)	Hexachlor...	5.734	6.553	23594	6300	BelowCal	0.022	
25)	Oxychlordane	7.213	7.998f	9981	131393	BelowCal	0.519	
26)	2,4'-DDE	7.266f	8.238	57772	33840	0.536	0.178	#
27)	trans-Non...	7.483	8.334f	16579	3059	0.092	0.011	#
28)	2,4'-DDD	0.000	8.586	0	3701	N.D.	0.022	#
29)	2,4'-DDT	7.819f	8.817	4652	5095	0.048	BelowCal	#
30)	cis-Nonac...	7.974f	8.856	2143	3255	0.010	0.010	
31)	Mirex	8.609	9.799	5883	38595	BelowCal	BelowCal	
32)	Chlordane...	0.000	8.238	0	33840	N.D.	0.996	#
33)	Chlordane...	7.483	8.334	16579	3059	0.736	0.106	#
34)	Chlordane...	8.060f	9.000	11407	141535	1.998	4.559	#
35)	Chlordane...	3.756	0.000	345560	0	NoCal	N.D.	
36)	Toxaphene...	7.483	8.586f	16579	3701	17.139	1.564	#
37)	Toxaphene...	0.000	8.941	0	14659	N.D.	4.949	#
38)	Toxaphene...	8.060	8.966	11407	5562	0.427	1.148	#
39)	Toxaphene...	8.275f	9.000f	78204	141535	18.560	11.845	
40)	Toxaphene...	0.000	9.201	0	20111	N.D.	1.700	#
41)	Toxaphene...	8.609	0.000	5883	0	1.730	N.D.	#
42)	Toxaphene...	3.756	0.000	345560	0	NoCal	N.D.	

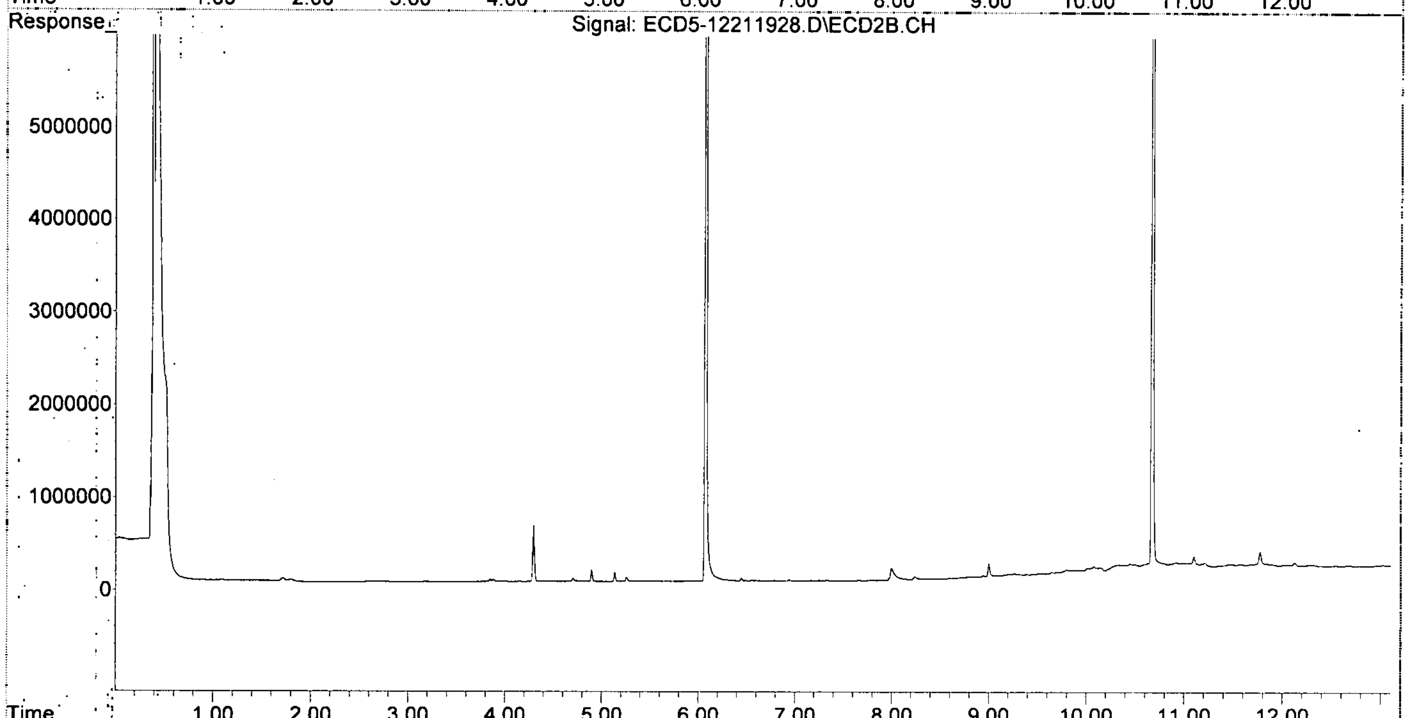
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L21009\
Data File : ECD5-12211928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Dec 2019 21:21
Operator : MJB
Sample : 9L21009-CCB3
Misc : A19L018
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: Dec 23 11:21:46 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
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
Benchsheet & Analysis Sequence Data

Sequence 9L13033 (QC Only)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9L13033** Instrument: **DUALECD5**

Date: **12/13/19 11:07** Calibration: **A9H2608**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L13033-BKD1	Sediment	QC	QC				A19J201
2	9L13033-CCV1	Sediment	QC	QC				A19K133
3	9L13033-CCV2	Sediment	QC	QC				A19J408
4	9L13033-CCB1	Sediment	QC	QC				A19L018
5	A9I0890-17RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
6	9L13033-IBL1	Sediment	QC	QC				
7	9120780-MS1	Sediment	QC	QC		9120780		
8	9L13033-IBL2	Sediment	QC	QC				
9	9120780-MSD1	Sediment	QC	QC		9120780		
10	9L13033-IBL3	Sediment	QC	QC				
11	A9I0890-18RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
12	9L13033-IBL4	Sediment	QC	QC				
13	A9J0033-50RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
14	9L13033-IBL5	Sediment	QC	QC				
15	A9J0033-51RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
16	9L13033-IBL6	Sediment	QC	QC				
17	A9J0095-32RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
18	9L13033-IBL7	Sediment	QC	QC				
19	9120734-BLK1	Sediment	QC	QC		9120734		
20	9120734-BS1	Sediment	QC	QC		9120734		
21	A9J0553-37RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
22	9L13033-CCV3	Sediment	QC	QC				A19K134
23	9L13033-CCV4	Sediment	QC	QC				A19J409
24	9L13033-CCB2	Sediment	QC	QC				A19L018
25	A9J0096-24RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
26	A9J0353-42RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
27	A9J0553-36RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
28	A9J0558-38RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
29	9L13033-IBL8	Sediment	QC	QC				
30	A9J0594-16RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
31	9L13033-IBL9	Sediment	QC	QC				
32	A9J0594-17RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
33	9L13033-IBLA	Sediment	QC	QC				
34	A9J0096-34RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
35	9L13033-IBLB	Sediment	QC	QC				
36	9L13033-CCV5	Sediment	QC	QC				A19K133
37	9L13033-CCV6	Sediment	QC	QC				A19J408
38	9L13033-CCB3	Sediment	QC	QC				A19L018
39	9L13033-IBLC	Sediment	QC	QC				
40	9L13033-IBLD	Sediment	QC	QC				

Comments: Batch QC & CCV failures.

Data Entered By: MB 12/16/19

Data Reviewed By: [illegible] 12/17/19

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 9L13033 BKD1
Data File: ECD5-12131903.D

First Column Area Counts		Percent Breakdown	
DDE	795626		
DDD	10422686		
DDT	138451404	**7.50**	**PASS**
Endrin	87530117	**6.26**	**PASS**
Endrin Aldehyde	1201051		
Endrin Ketone	4645539		

Second Column Area Counts		Percent Breakdown	
DDE	1488709		
DDD	17644422		
DDT	186072929	**9.32**	**PASS**
Endrin	128327421	**6.00**	**PASS**
Endrin Aldehyde	1789062		
Endrin Ketone	6395647		

Breakdown must be less than 15% to accept sample data.

MJB 12/13/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L13033\
Data File : ECD5-12131903.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 11:55
Operator : MJB
Sample : 9L13033-BKD1
Misc : A19J201
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: Dec 13 12:08:38 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823RTA.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
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	7.342	795626	NoCal	ng/mL
2)	Endrin	7.697	87530117	NoCal	ng/mL
3)	4,4'-DDD	7.759	10422686	NoCal	ng/mL
4)	4,4'-DDT	7.955	138451404	NoCal	ng/mL
5)	Endrin Aldehyde	8.139	1201051	NoCal	ng/mL
6)	Endrin Ketone	8.629	4645539	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.094	1488709	NoCal	ng/mL
9)	Endrin [2C]	8.449	128327421	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.506	17644422	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	8.833	1789062	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.729	186072929	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.415	6395647	NoCal	ng/mL

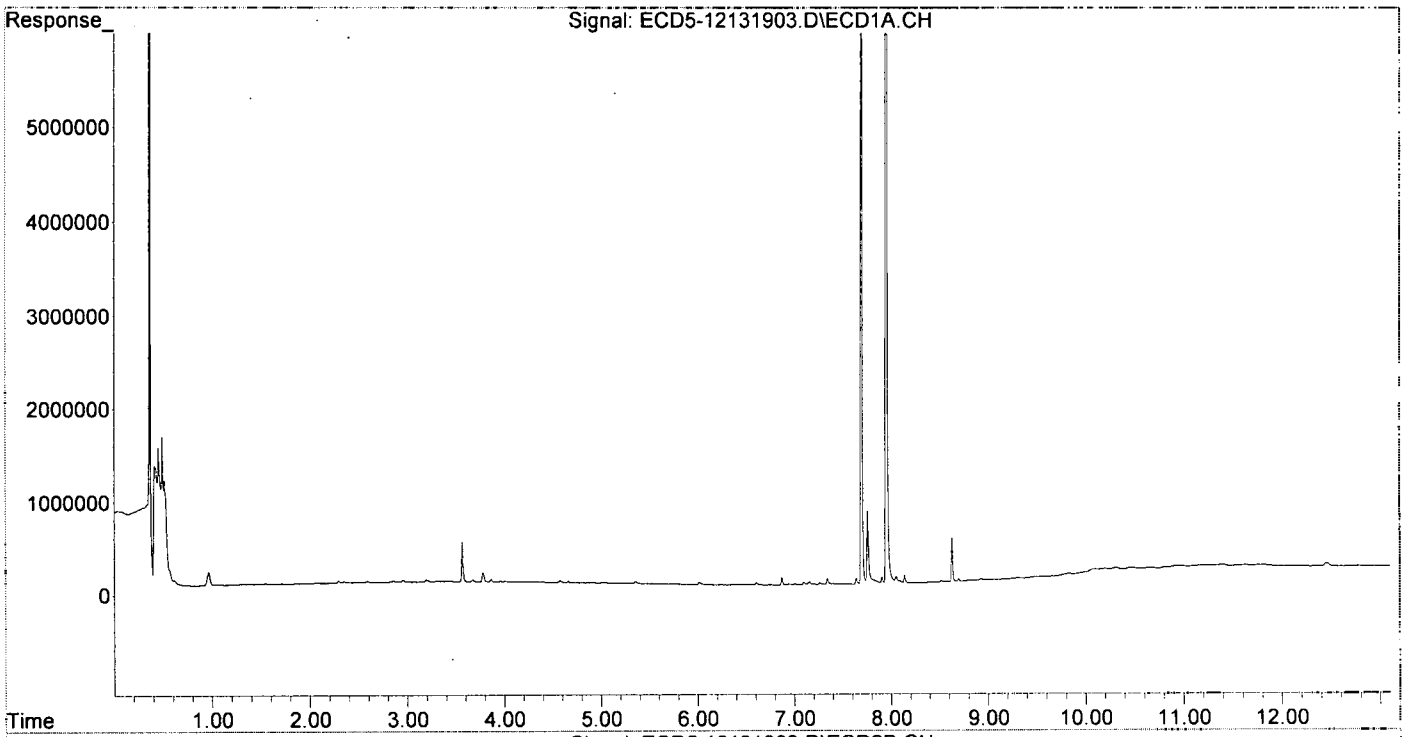
(f)=RT Delta > 1/2 Window (m)=manual int.

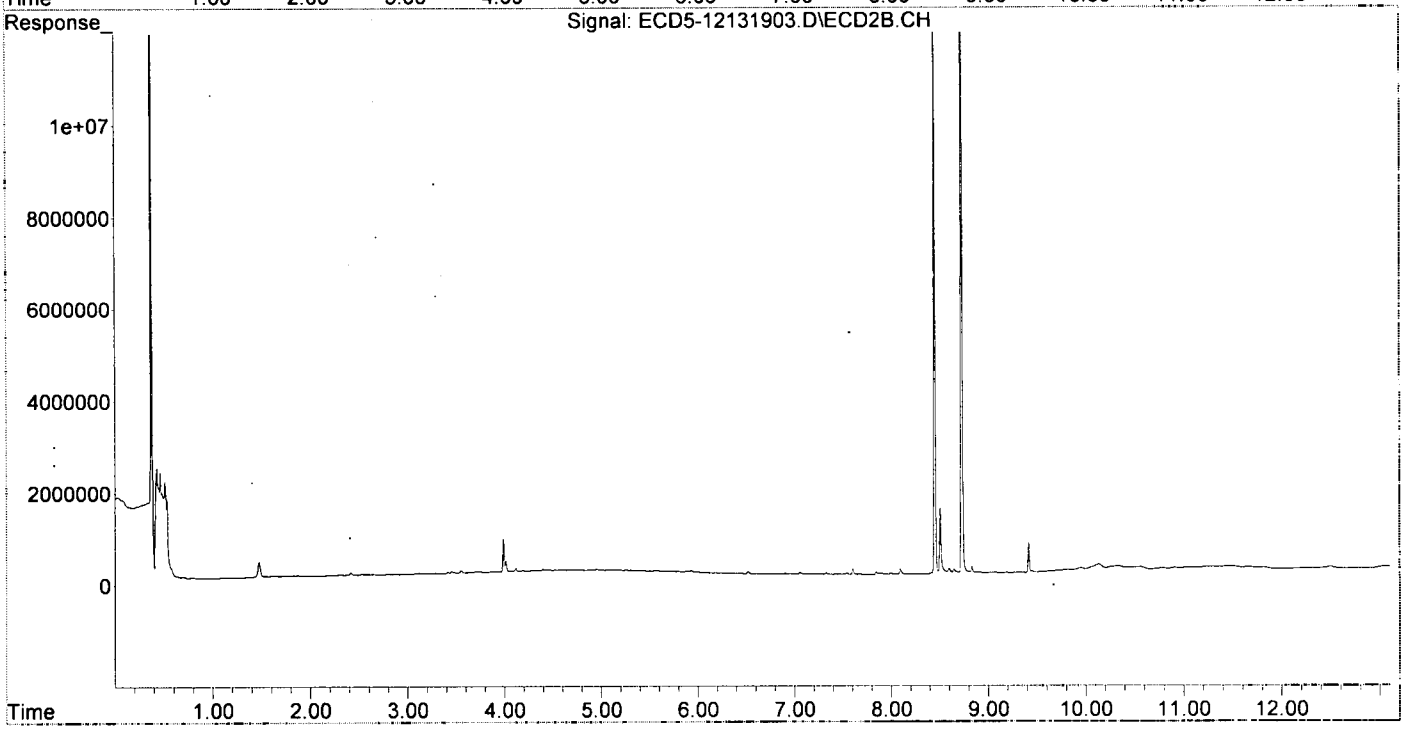
MJB 12/13/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L13033\
Data File : ECD5-12131903.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 11:55
Operator : MJB
Sample : 9L13033-BKD1
Misc : A19J201
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: Dec 13 12:08:38 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823RTA.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 12:12
Operator : MJB
Sample : 9L13033-CCV1
Misc : A19K133, 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: Dec 13 15:13:54 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/13/19

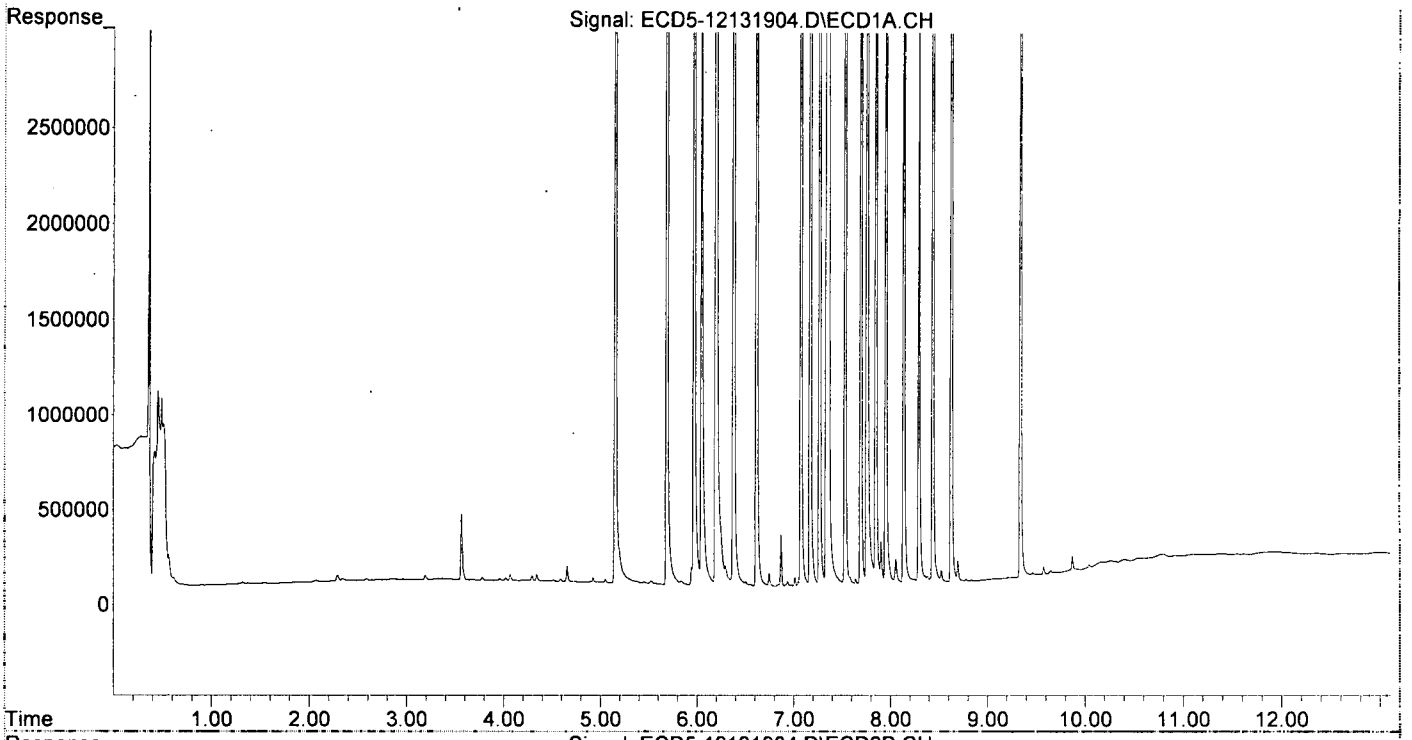
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.156	5.743	8293678	14121686	49.969	48.137	
22)	S	DCBP (S)	9.341	10.244	6702253	9677116	47.500	53.833	
		Target Compounds							
2)		a-BHC	5.690	6.348	12222497	21359722	53.297	52.054	
3)		g-BHC	5.971	6.664	10474426	18896799	51.911	52.976	
4)		b-BHC	6.049	6.733	3572339	6816817	39.524	43.072	
5)		Heptachlor	6.380	7.032	9952609	16788438	54.897	54.868	
6)		d-BHC	6.197	6.985	7577557	15533211	38.525	44.045	
7)		Aldrin	6.618	7.293	10021978	18034257	50.758	54.750	
8)		Heptachlo...	7.077	7.732	9432988	15636392	51.217	51.974	
9)		trans-Chl...	7.173	7.871	9442301	15746172	51.069	50.255	
10)		cis-Chlor...	7.270	7.978	9312698	15162713	51.149	52.061	
11)		Endosulfa...	7.361	8.025	9777185	14245241	57.452	51.768	
12)		4,4'-DDE	7.341	8.093	8214166	13792810	43.570m	44.396	
13)		Dieldrin	7.534	8.225	10497749	16107510	54.682	52.959	
14)		Endrin	7.697	8.449	8895241	13216179	60.501	58.523	
15)		4,4'-DDD	7.759	8.506	6700494	11101630	42.640	43.330	
16)		Endosulfa...	7.851	8.597	7730312	12279372	53.828	53.248	
17)		4,4'-DDT	7.955	8.729	6217820	8733753	52.006	46.713	
18)		Endrin Al...	8.140	8.834	6600921	10334494	53.714	52.447	
19)		Endosulfa...	8.439	9.023	7587170	11357595	48.957	45.597	
20)		Methoxychlor	8.296	9.209	2934333	4127482	50.096	46.351	
21)		Endrin Ke...	8.630	9.415	8642786	12567849	51.828	48.842	
23)		Hexachlor...	2.958	3.476f	14071	11937	0.077	0.032	#
24)		Hexachlor...	5.528	0.000	16709	0	0.095	N.D.	#
25)		Oxychlordane	7.014	7.649	45894	8841	0.279	0.032	#
26)		2,4'-DDE	7.077	7.871	9432988	15746172	73.545	74.226	
27)		trans-Non...	7.270	7.929	9312698	64432	51.694	0.214	#
28)		2,4'-DDD	0.000	8.225	0	16107510	N.D.	85.286	#
29)		2,4'-DDT	7.641	8.449	28293	13216179	0.258	74.107	#
30)		cis-Nonac...	7.697f	8.506	8895241	11101630	42.845	33.095	
31)		Mirex	0.000	9.415	0	12567849	N.D.	67.542	#
32)		Chlordane...	0.000	7.929	0	64432	N.D.	1.781	#
33)		Chlordane...	0.000	8.025	0	14245241	N.D.	469.148	#
34)		Chlordane...	7.851	8.674f	7730312	68044	1337.165	7.589	#
35)		Chlordane...	3.414f	3.415	13707	6476	NoCal	NoCal	
36)		Toxaphene...	7.270f	0.000	9312698	0	10397.728	N.D.	#
37)		Toxaphene...	0.000	8.597	0	12279372	N.D.	3731.169	#
38)		Toxaphene...	7.905	8.647	221648	117908	65.820	23.264	#
39)		Toxaphene...	8.140	8.729	6600921	8733753	2037.226	1045.979	#
40)		Toxaphene...	0.000	8.914f	0	160600	N.D.	34.461	#
41)		Toxaphene...	8.439	9.262	7587170	24540	2397.526	5.166	#
42)		Toxaphene...	0.000	3.415f	0	6476	N.D.	NoCal	

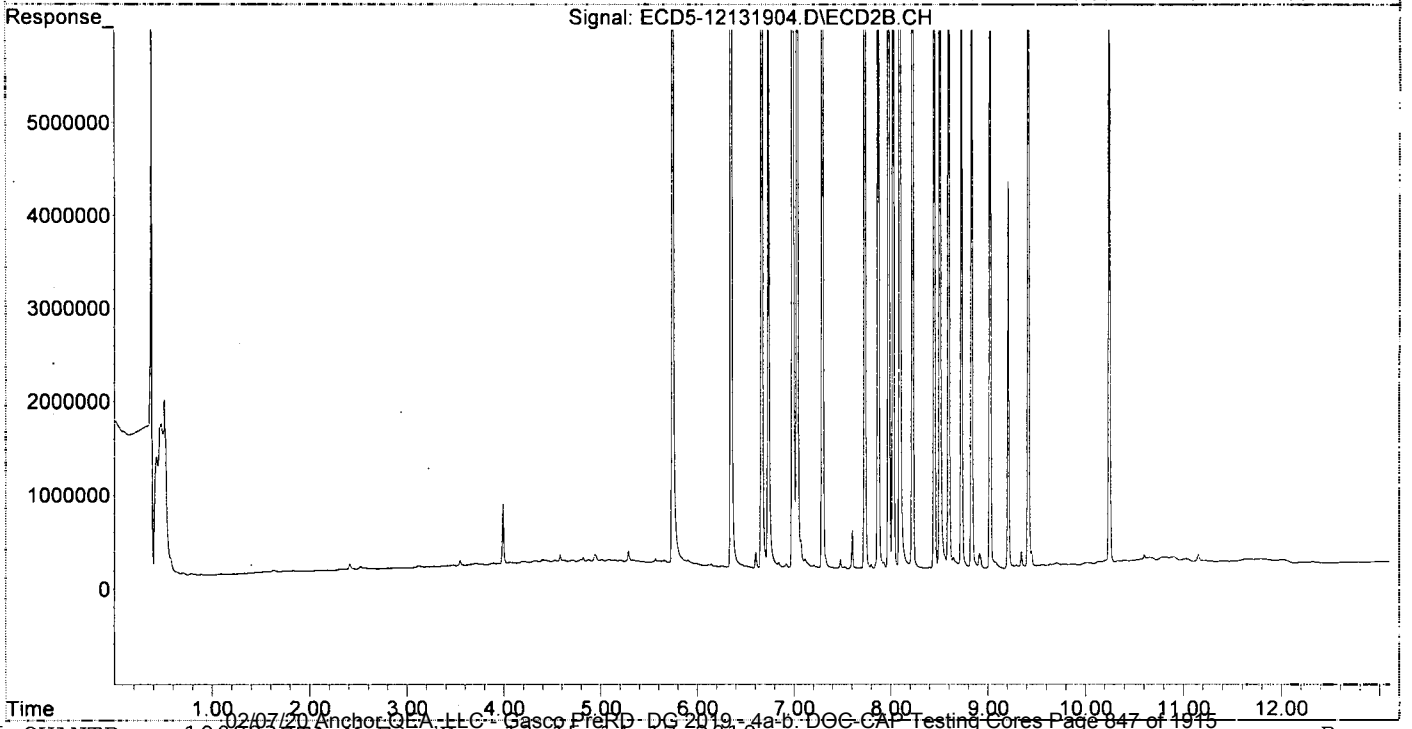
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 12:12
Operator : MJB
Sample : 9L13033-CCV1
Misc : A19K133, 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: Dec 13 15:13:54 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

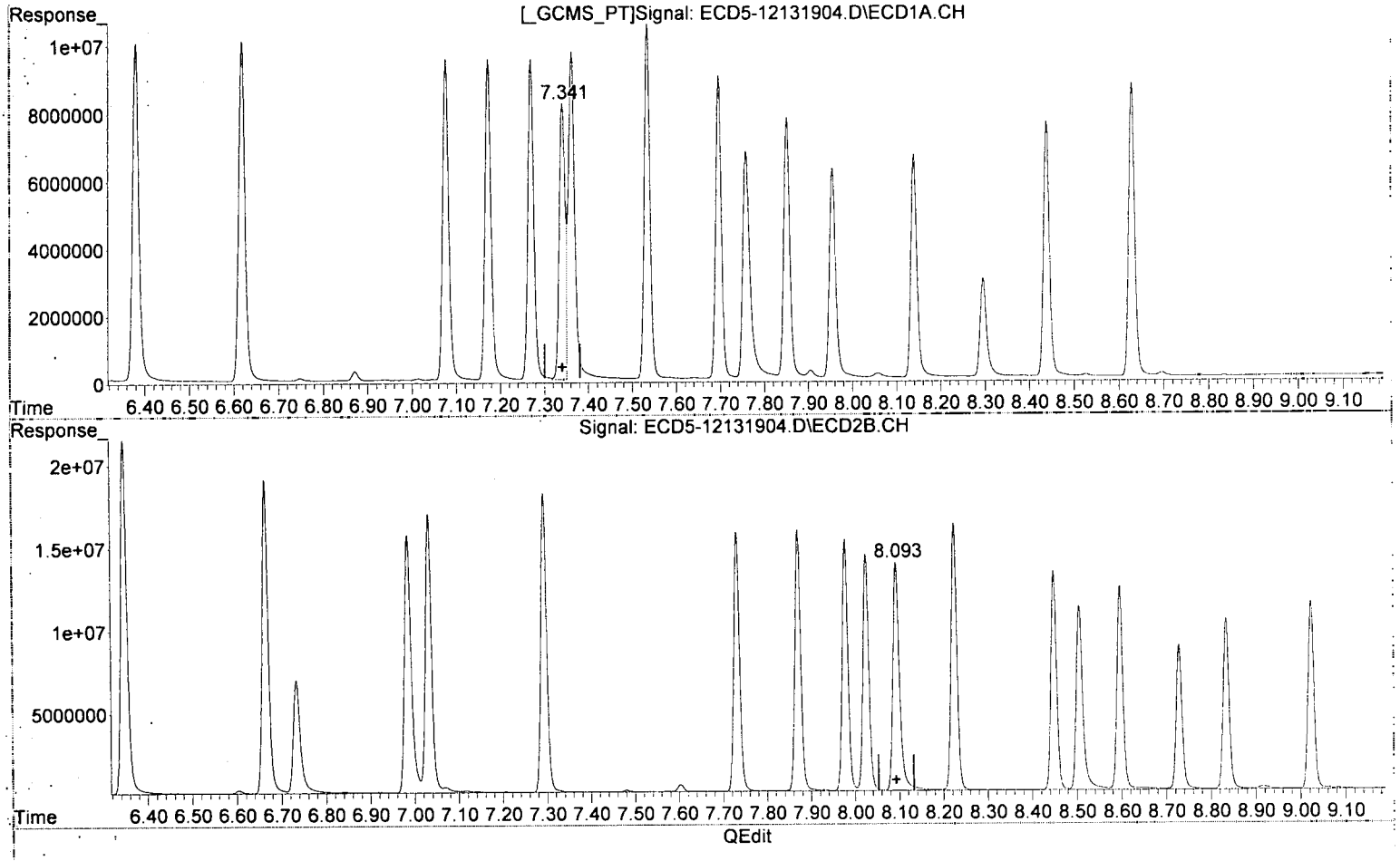




Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 12:12
Operator : MJB
Sample : 9L13033-CCV1
Misc : A19K133, 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: Dec 13 15:09:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.341min 43.570 ng/mL (m)

response 8214166

MJB 12/13/19

(12) 4,4'-DDE #2

8.093min 44.396 ng/mL

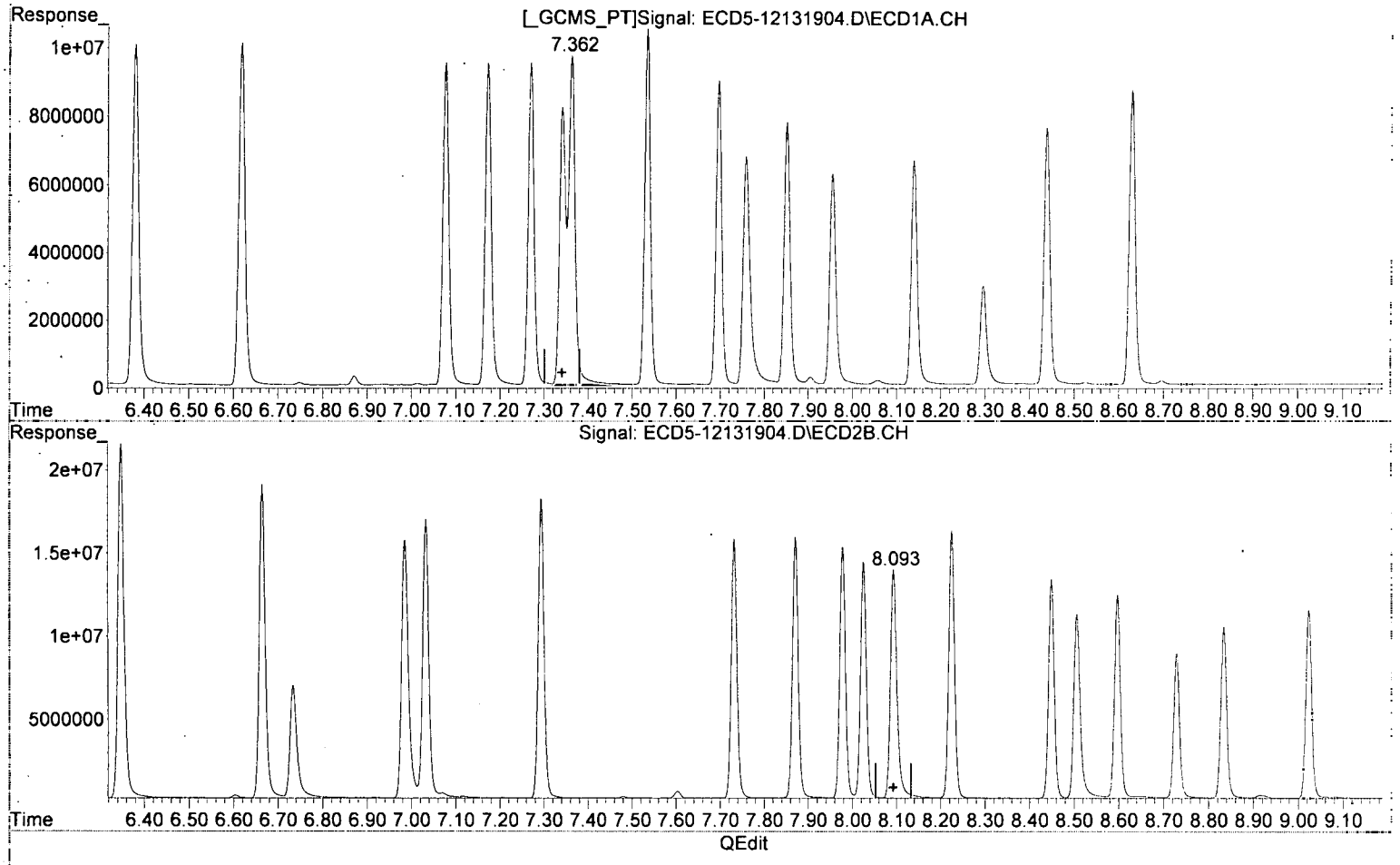
response 13792810

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 12:12
Operator : MJB
Sample : 9L13033-CCV1
Misc : A19K133, 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: Dec 13 15:09:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.361min 51.860 ng/mL

response 9777185

MJB 12/13/19

(12) 4,4'-DDE #2

8.093min 44.396 ng/mL

response 13792810

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 12:12
Operator : MJB
Sample : 9L13033-CCV1
Misc : A19K133, 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: Dec 13 15:09:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MF MJB 12/13/19

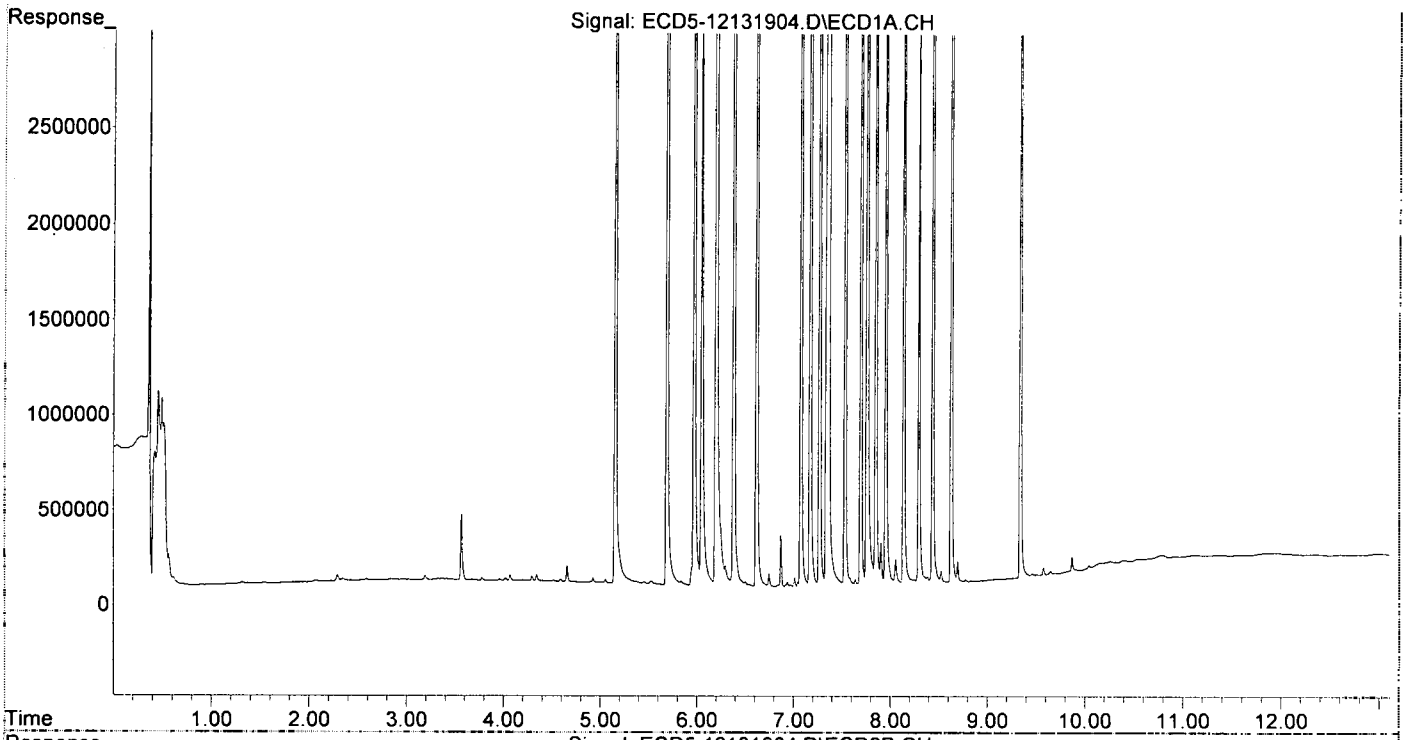
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.156	5.743	8293678	14121686	49.969	48.137	
22)	S	DCBP (S)	9.341	10.244	6702253	9677116	47.500	53.833	
		Target Compounds							
2)		a-BHC	5.690	6.348	12222497	21359722	53.297	52.054	
3)		g-BHC	5.971	6.664	10474426	18896799	51.911	52.976	
4)		b-BHC	6.049	6.733	3572339	6816817	39.524	43.072	
5)		Heptachlor	6.380	7.032	9952609	16788438	54.897	54.868	
6)		d-BHC	6.197	6.985	7577557	15533211	38.525	44.045	
7)		Aldrin	6.618	7.293	10021978	18034257	50.758	54.750	
8)		Heptachlo...	7.077	7.732	9432988	15636392	51.217	51.974	
9)		trans-Chl...	7.173	7.871	9442301	15746172	51.069	50.255	
10)		cis-Chlor...	7.270	7.978	9312698	15162713	51.149	52.061	
11)		Endosulfa...	7.361	8.025	9777185	14245241	57.452	51.768	
12)		4,4'-DDE	7.361f	8.093	9777185	13792810	51.860	44.396	
13)		Dieldrin	7.534	8.225	10497749	16107510	54.682	52.959	
14)		Endrin	7.697	8.449	8895241	13216179	60.501	58.523	
15)		4,4'-DDD	7.759	8.506	6700494	11101630	42.640	43.330	
16)		Endosulfa...	7.851	8.597	7730312	12279372	53.828	53.248	
17)		4,4'-DDT	7.955	8.729	6217820	8733753	52.006	46.713	
18)		Endrin Al...	8.140	8.834	6600921	10334494	53.714	52.447	
19)		Endosulfa...	8.439	9.023	7587170	11357595	48.957	45.597	
20)		Methoxychlor	8.296	9.209	2934333	4127482	50.096	46.351	
21)		Endrin Ke...	8.630	9.415	8642786	12567849	51.828	48.842	
23)		Hexachlor...	2.958	3.476f	14071	11937	0.077	0.032	#
24)		Hexachlor...	5.528	0.000	16709	0	0.095	N.D.	#
25)		Oxychlordane	7.014	7.649	45894	8841	0.279	0.032	#
26)		2,4'-DDE	7.077	7.871	9432988	15746172	73.545	74.226	
27)		trans-Non...	7.270	7.929	9312698	64432	51.694	0.214	#
28)		2,4'-DDD	0.000	8.225	0	16107510	N.D.	85.286	#
29)		2,4'-DDT	7.641	8.449	28293	13216179	0.258	74.107	#
30)		cis-Nonac...	7.697f	8.506	8895241	11101630	42.845	33.095	
31)		Mirex	0.000	9.415	0	12567849	N.D.	67.542	#
32)		Chlordane...	0.000	7.929	0	64432	N.D.	1.781	#
33)		Chlordane...	0.000	8.025	0	14245241	N.D.	469.148	#
34)		Chlordane...	7.851	8.674f	7730312	68044	1337.165	7.589	#
35)		Chlordane...	3.414f	3.415	13707	6476	NoCal	NoCal	
36)		Toxaphene...	7.270f	0.000	9312698	0	10397.728	N.D.	#
37)		Toxaphene...	0.000	8.597	0	12279372	N.D.	3731.169	#
38)		Toxaphene...	7.905	8.647	221648	117908	65.820	23.264	#
39)		Toxaphene...	8.140	8.729	6600921	8733753	2037.226	1045.979	#
40)		Toxaphene...	0.000	8.914f	0	160600	N.D.	34.461	#
41)		Toxaphene...	8.439	9.262	7587170	24540	2397.526	5.166	#
42)		Toxaphene...	0.000	3.415f	0	6476	N.D.	NoCal	

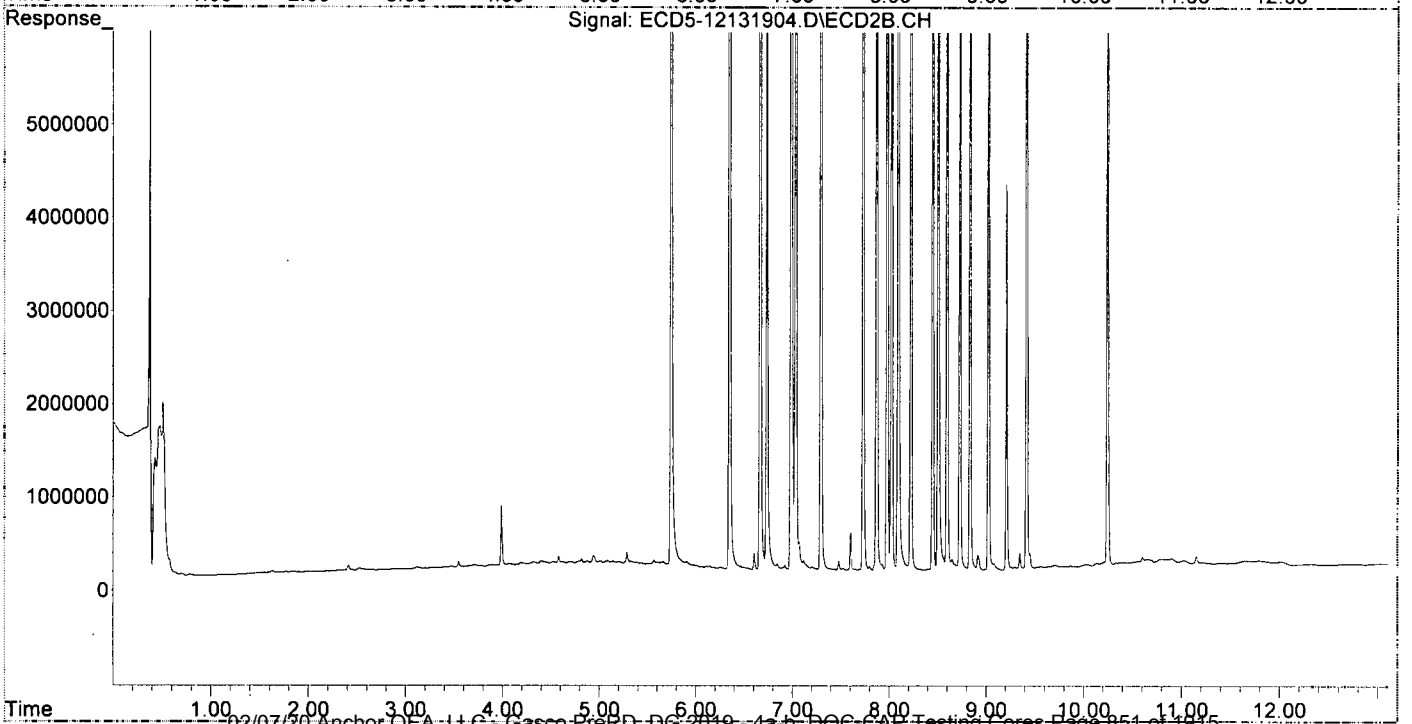
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 12:12
Operator : MJB
Sample : 9L13033-CCV1
Misc : A19K133, 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: Dec 13 15:09:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 12:29
Operator : MJB
Sample : 9L13033-CCV2
Misc : A19J408, 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: Dec 13 15:09:56 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/13/19

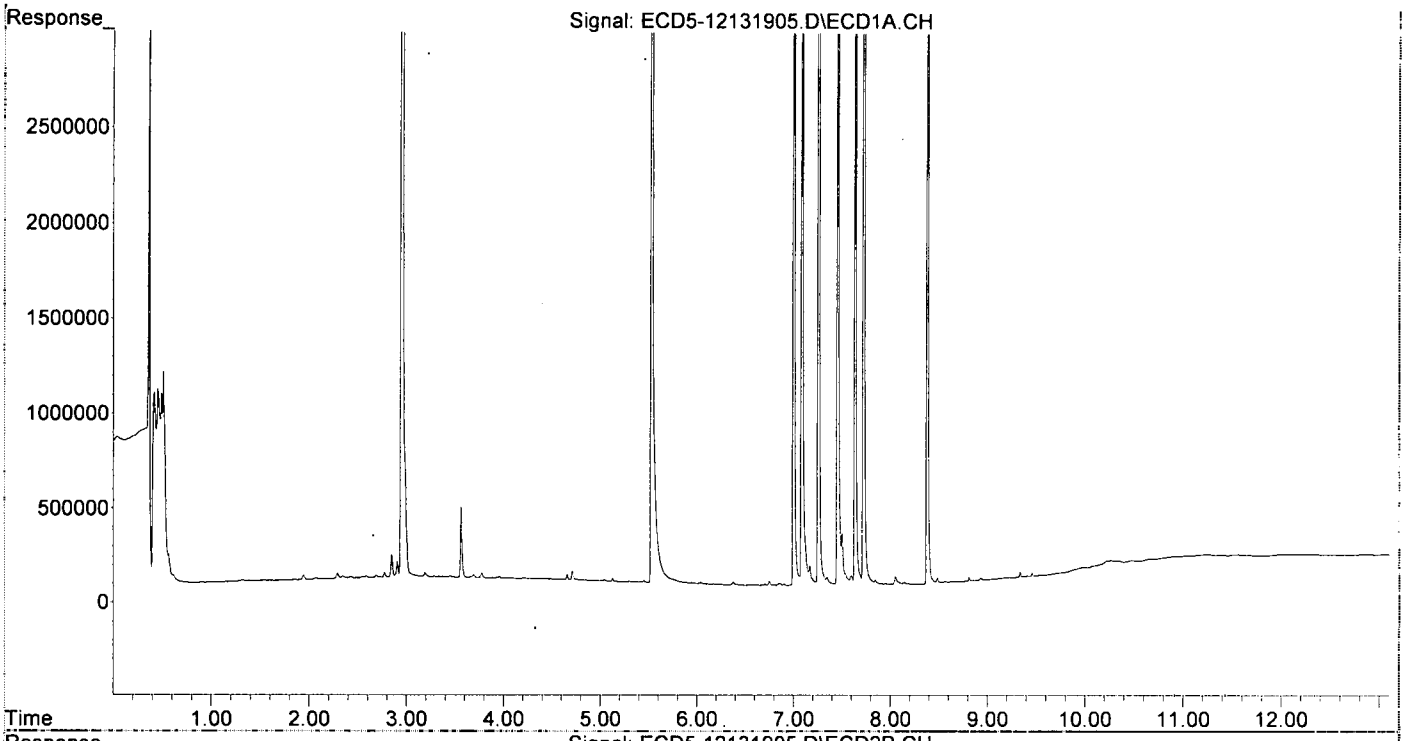
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.129f	5.747	15563	25804	0.094	0.088	
22)	S	DCBP (S)	9.340	10.243	27594	81262	0.196	0.452	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	6.697f	0	7735	N.D.	0.022	#
4)		b-BHC	6.042	6.697f	8901	7735	0.098	0.049	#
5)		Heptachlor	6.378	7.030	16990	20164	0.094	0.066	
6)		d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)		Aldrin	0.000	7.283	0	7940	N.D.	0.024	#
8)		Heptachlo...	7.089	7.727	5225168	43717	28.370	0.145	#
9)		trans-Chl...	7.170	7.870	103058	9438751	0.557	30.124	#
10)		cis-Chlor...	7.262	0.000	9015768	0	49.518	N.D.	#
11)		Endosulfa...	7.348	8.041	41380	40324	0.243	0.147	
12)		4,4'-DDE	7.348	0.000	41380	0	0.219	N.D.	#
13)		Dieldrin	7.504f	8.241	271022	8032139	1.412	26.408	#
14)		Endrin	7.728f	8.462	10425806	7802758	70.911	34.552	#
15)		4,4'-DDD	7.728f	8.496	10425806	16368925	66.347	63.888	
16)		Endosulfa...	7.850	8.588	22796	17337	0.159	0.075	#
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.150	8.831	9103	5702	BelowCal	BelowCal	
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...	8.632	9.399	3249	8439315	0.019	32.797	#
23)		Hexachlor...	2.954	3.450	9230690	20413716	50.513	54.302	
24)		Hexachlor...	5.535	6.206	8848169	14589271	50.190	46.450	
25)		Oxychlordane	7.005	7.660	7860308	13112539	47.772	47.873	
26)		2,4'-DDE	7.089	7.870	5225168	9438751	40.739	44.493	
27)		trans-Non...	7.262	7.933	9015768	14501173	50.034	48.075	
28)		2,4'-DDD	7.459	8.241	4764480	8032139	41.748	42.529	
29)		2,4'-DDT	7.640	8.462	5203084	7802758	47.435	43.752	
30)		cis-Nonac...	7.728	8.496	10425806	16368925	50.217	48.797	
31)		Mirex	8.386	9.399	5972583	8439315	47.641	45.355	
32)		Chlordane...	7.262f	7.933	9015768	14501173	457.895	400.756	
33)		Chlordane...	7.348f	8.041	41380	40324	1.651	1.328	
34)		Chlordane...	7.850	0.000	22796	0	3.943	N.D.	#
35)		Chlordane...	3.450	3.450	6325	20413716	NoCal	NoCal	
36)		Toxaphene...	7.262f	8.241f	9015768	8032139	10066.202	3060.727	#
37)		Toxaphene...	7.599	8.588f	47484	17337	29.403	5.268	#
38)		Toxaphene...	0.000	8.651	0	64122	N.D.	12.652	#
39)		Toxaphene...	8.150	0.000	9103	0	2.809	N.D.	#
40)		Toxaphene...	8.386f	0.000	5972583	0	2491.543	N.D.	#
41)		Toxaphene...	0.000	9.249	0	8742	N.D.	1.840	#
42)		Toxaphene...	3.450	3.450	6325	20413716	NoCal	NoCal	

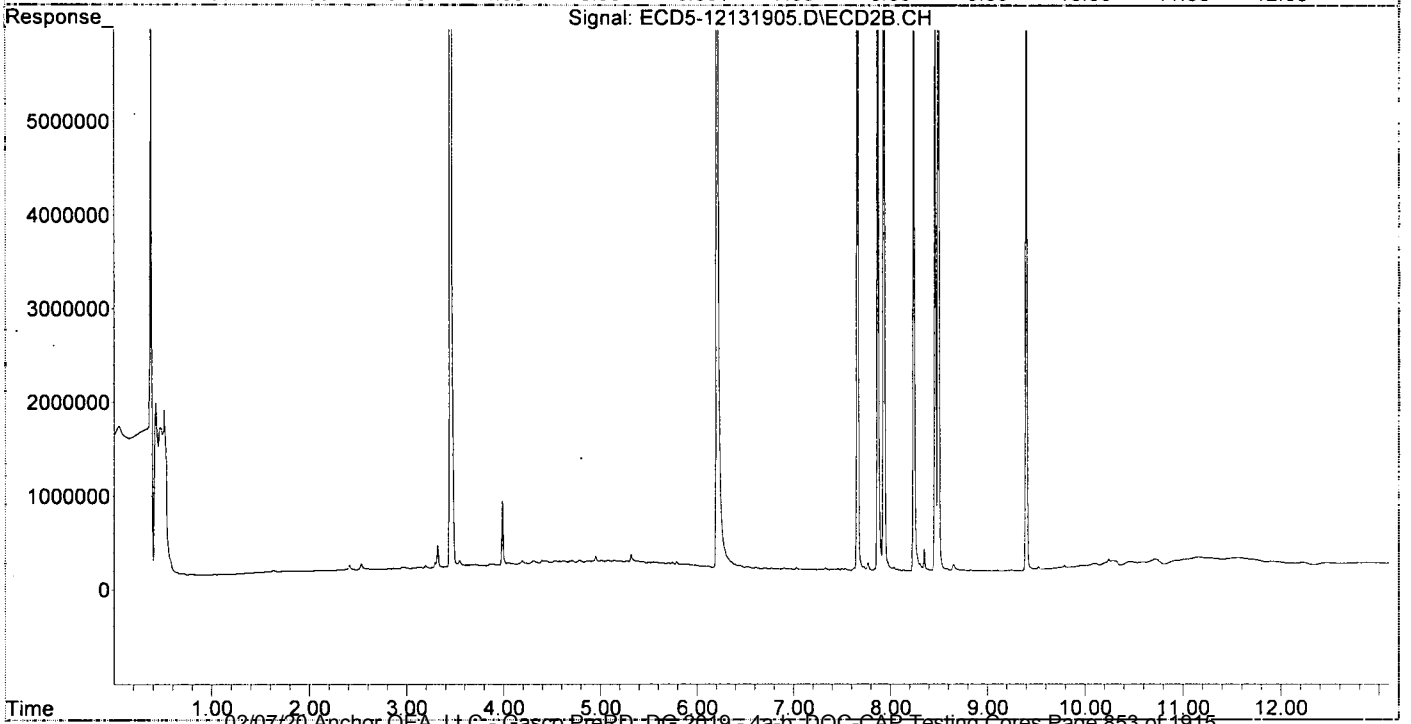
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 12:29
Operator : MJB
Sample : 9L13033-CCV2
Misc : A19J408, 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: Dec 13 15:09:56 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 12:46
Operator : MJB
Sample : 9L13033-CCB1
Misc : A19L018
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: Dec 13 15:10:04 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/13/19

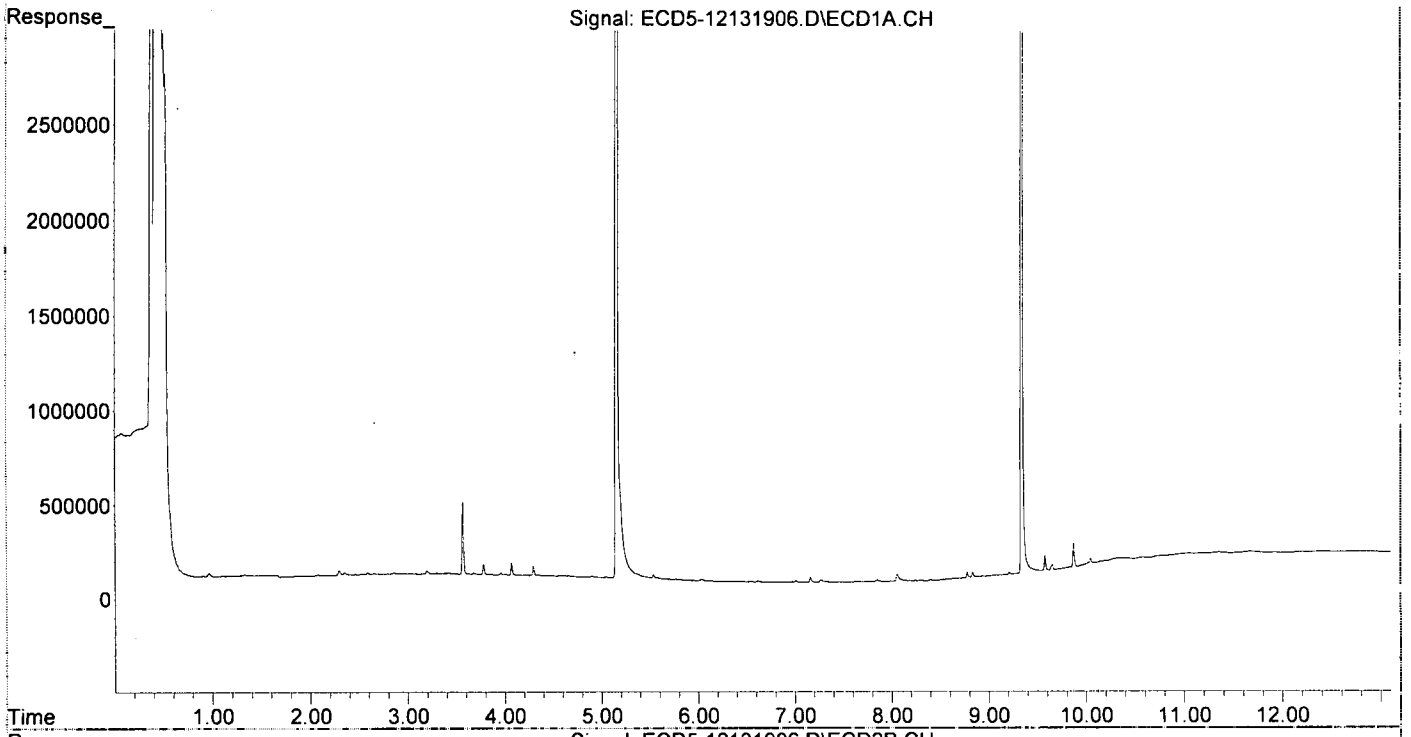
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.154	5.741	16673520	30052478	100.458	102.440	
22)	S	DCBP (S)	9.339	10.242	13827318	20809697	97.998	115.762	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	6.693f	0	7616	N.D.	0.021	#
4)		b-BHC	6.041	6.693f	7588	7616	0.084	0.048	#
5)		Heptachlor	0.000	7.063f	0	8124	N.D.	0.027	#
6)		d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)		Aldrin	6.614	7.327f	6047	39802	0.031	0.121	#
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.160	7.897f	28277	17399	0.153	0.056	#
10)		cis-Chlor...	7.267	0.000	12285	0	0.067	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...	7.850	8.586	10591	9758	0.074	0.042	#
17)		4,4'-DDT	0.000	8.743	0	3051	N.D.	BelowCal	
18)		Endrin Al...	8.138	0.000	5551	0	BelowCal	N.D.	
19)		Endosulfa...	8.399f	0.000	5624	0	0.036	N.D.	#
20)		Methoxychlor	8.292	0.000	2746	0	0.047	N.D.	#
21)		Endrin Ke...	0.000	9.415	0	8059	N.D.	0.031	#
23)		Hexachlor...	2.955	3.476f	15063	13244	0.082	0.035	#
24)		Hexachlor...	5.534	0.000	24601	0	0.140	N.D.	#
25)		Oxychlordane	7.007	7.628f	9199	13654	0.056	0.050	
26)		2,4'-DDE	0.000	7.897f	0	17399	N.D.	0.082	#
27)		trans-Non...	7.267	7.897f	12285	17399	87346.632	0.058	#
28)		2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)		2,4'-DDT	7.645	0.000	3542	0	0.032	N.D.	#
30)		cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.	
31)		Mirex	8.399	9.415	5624	8059	0.045	0.043	
32)		Chlordane...	0.000	7.897f	0	17399	N.D.	0.481	#
33)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
34)		Chlordane...	7.850	0.000	10591	0	1.832	N.D.	#
35)		Chlordane...	3.415f	3.413f	14318	10201	NoCal	NoCal	
36)		Toxaphene...	7.267f	0.000	12285	0	13.717	N.D.	#
37)		Toxaphene...	0.000	8.586f	0	9758	N.D.	2.965	#
38)		Toxaphene...	0.000	8.651	0	58209	N.D.	11.485	#
39)		Toxaphene...	8.138	8.743f	5551	3051	1.713	0.365	#
40)		Toxaphene...	8.399f	0.000	5624	0	2.346	N.D.	#
41)		Toxaphene...	8.399f	9.275	5624	9659	1.777	2.033	
42)		Toxaphene...	0.000	3.413f	0	10201	N.D.	NoCal	

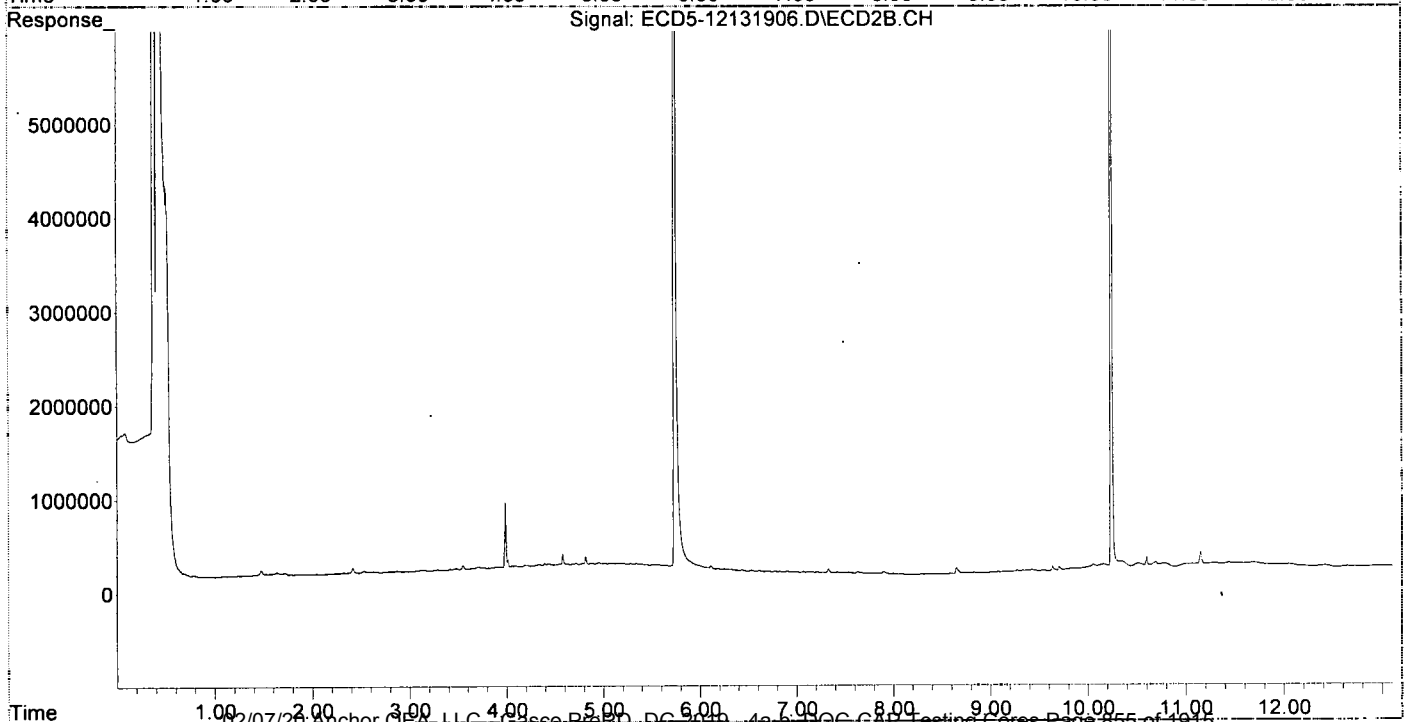
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 12:46
Operator : MJB
Sample : 9L13033-CCB1
Misc : A19L018
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: Dec 13 15:10:04 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131911.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 14:19
Operator : MJB
Sample : 9120780-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Dec 13 15:10:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

R-04 MJB 12/13/19

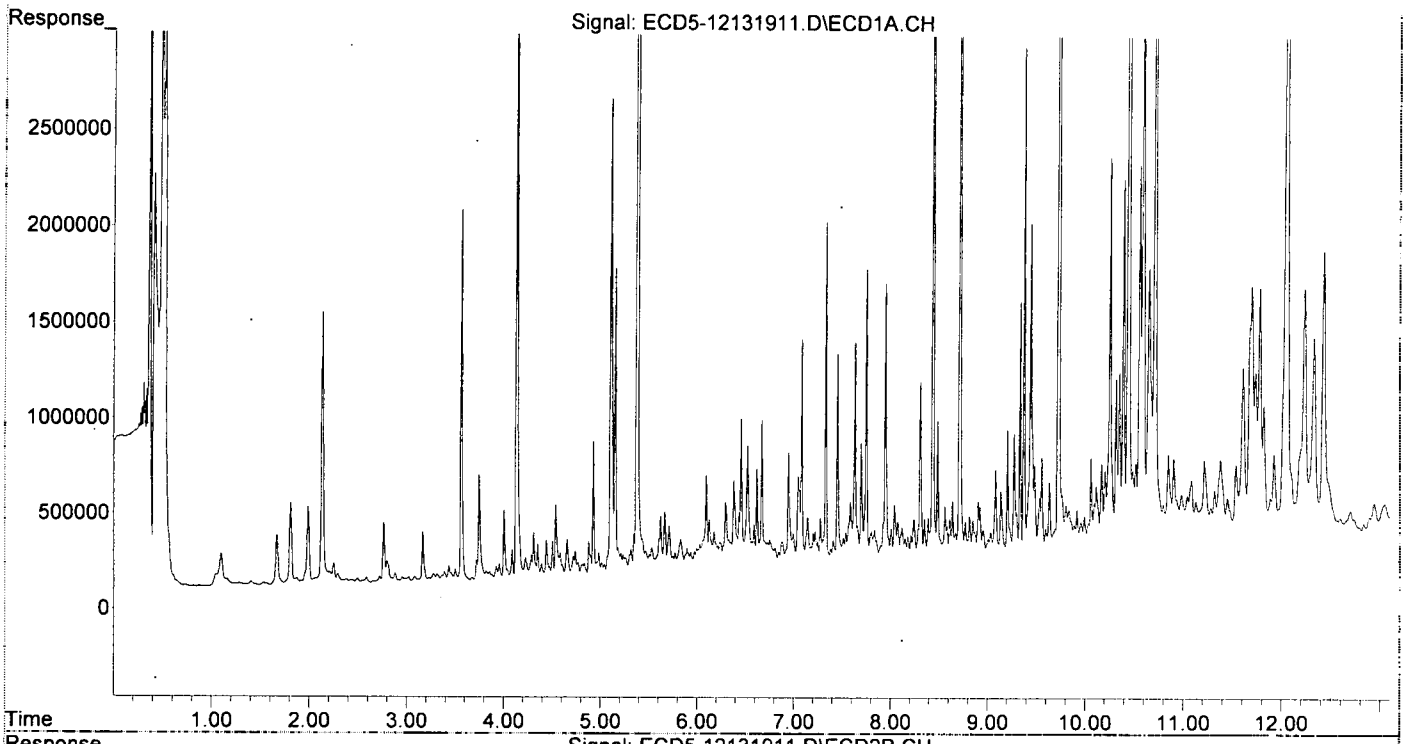
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.153	5.741	1791669	4753534	10.795	16.203	#
22)	S	DCBP (S)	9.336	10.239	1744791	2670895	12.366	14.858	
		Target Compounds							
2)		a-BHC	5.712f	6.338	462696	929389	2.018	2.265	
3)		g-BHC	5.935f	6.696f	334390	458784	1.657	1.286	
4)		b-BHC	6.029f	6.727	379459	588040	4.198	3.716	
5)		Heptachlor	6.382	7.038	724707	1045813	3.997	3.418	
6)		d-BHC	6.178	6.972	447531	398948	2.275	1.131	#
7)		Aldrin	6.620	7.276	785964	1478113	3.981	4.487	
8)		Heptachlo...	7.083	7.743	1474859	358686	8.008	1.192	#
9)		trans-Chl...	7.145f	7.866	553570	2747216	2.994	8.768	#
10)		cis-Chlor...	7.277	7.974	551815	465769	3.031	1.599	#
11)		Endosulfa...	7.385f	8.011	398226	440704	2.340	1.602	
12)		4,4'-DDE	7.333	8.087	2091476	3492920	11.094 RPT	11.243	
13)		Dieldrin	7.540	8.236	487177	1730791	2.538	5.691	#
14)		Endrin	7.699	8.458	958388	2014084	6.518	8.919	
15)		4,4'-DDD	7.751	8.500	1866117	2480232	11.875	9.680	
16)		Endosulfa...	7.838	8.583	507572	641834	3.534	2.783	
17)		4,4'-DDT	7.949	8.724	1796396	2289182	15.025	12.992 R.02	
18)		Endrin Al...	8.152	8.846	473257	314757	3.038	0.873	#
19)		Endosulfa...	8.438	9.032	5648175	1188201	36.445	4.770	#
20)		Methoxychlor	8.310	9.219	1295195	1154273	22.112	13.742	
21)		Endrin Ke...	8.640	9.414	681741	656219	4.088	2.550	
23)		Hexachlor...	2.954	3.426f	113632	434985	0.622	1.157	#
24)		Hexachlor...	5.532	6.212	346106	711935	1.963	2.267	
25)		Oxychlordane	6.995	7.650	463836	931003	2.819 MDL	3.399	
26)		2,4'-DDE	7.083	7.866	1474859	2747216	11.499 MDL	12.950	
27)		trans-Non...	7.248	7.951	426992	609914	2.067	2.022	
28)		2,4'-DDD	7.453	8.236	1411579	1730791	12.369 R.02	9.164 MDL MRL	
29)		2,4'-DDT	7.634	8.458	1484423	2014084	13.533 R.02	11.294	
30)		cis-Nonac...	7.751f	8.500	1866117	2480232	8.988	7.394	
31)		Mirex	8.391	9.387	583505	332239	4.654	1.786	#
32)		Chlordane...	7.224	7.951	480829	609914	24.420	16.856	
33)		Chlordane...	7.333	8.051	2091476	588847	83.444	19.393	#
34)		Chlordane...	7.838f	8.724f	507572	2289182	87.798	255.322	#
35)		Chlordane...	3.433	3.426	185421	434985	NoCal	NoCal	
36)		Toxaphene...	7.277f	8.293f	551815	367738	616.107	140.130	#
37)		Toxaphene...	7.587	8.635	643542	376734	398.493	114.473	#
38)		Toxaphene...	0.000	8.663	0	217978	N.D.	43.008	#
39)		Toxaphene...	8.152	8.724	473257	2289182	146.060	274.159	#
40)		Toxaphene...	8.352	8.904	580987	233681	242.367	50.142	#
41)		Toxaphene...	8.438	9.280	5648175	9641399	1784.809	2029.682	
42)		Toxaphene...	3.433f	3.426	185421	434985	NoCal	NoCal	

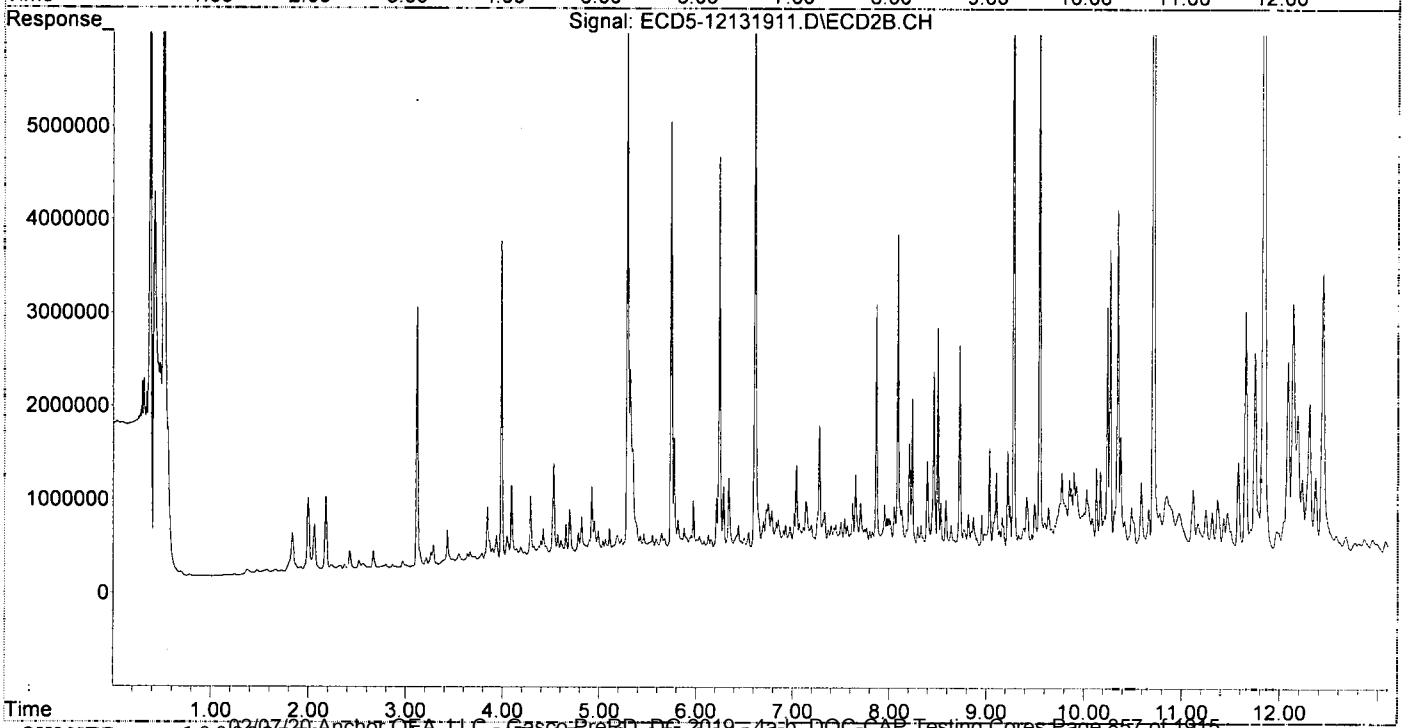
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131911.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 14:19
Operator : MJB
Sample : 9120780-MSD1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Dec 13 15:10:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 17:29
Operator : MJB
Sample : 9120734-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: Dec 13 18:04:45 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/13/19

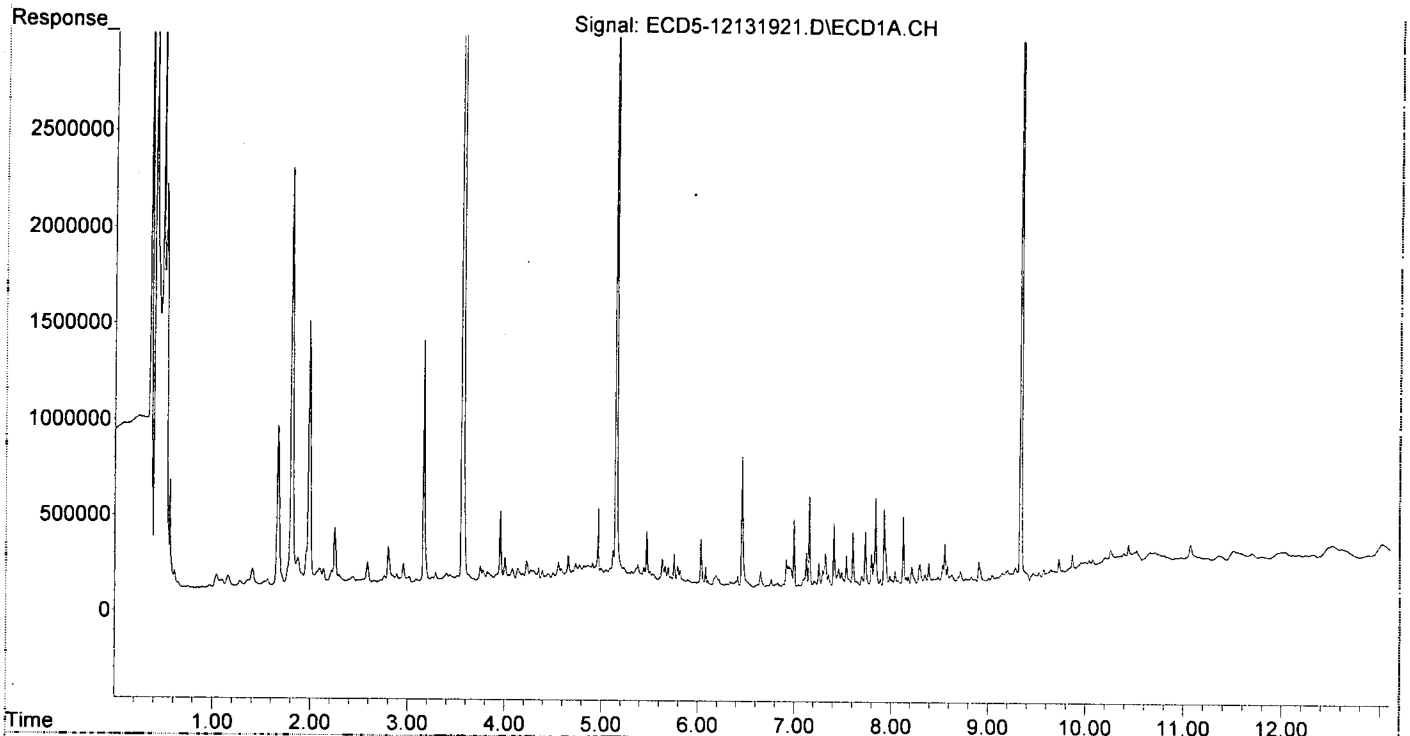
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.152	5.739	4852550	8357425	29.237	28.488	
22)	S	DCBP (S)	9.335	10.239	6952069	9033827	49.271	50.254	
		Target Compounds							
2)		a-BHC	5.692	6.339	341805	124275	1.490	0.303	#
3)		g-BHC	0.000	6.694f	0	64292	N.D.	0.180	#
4)		b-BHC	6.031	6.727	502137	68750	5.556	0.434	#
5)		Heptachlor	6.353f	7.047	294593	99172	1.625	0.324	#
6)		d-BHC	6.188	6.958f	321747	93106	1.636	0.264	#
7)		Aldrin	6.650f	7.274	366048	102307	1.854	0.311	#
8)		Heptachlo...	7.042f	7.720	314846	291165	1.709	0.968	#
9)		trans-Chl...	7.154	7.871	783287	271044	4.236	0.865	#
10)		cis-Chlor...	7.251	7.974	436923	135850	2.400	0.466	#
11)		Endosulfa...	7.354	8.008	383214	175538	2.252	0.638	#
12)		4,4'-DDE	7.331	8.097	108678	190478	0.576m	0.613m	
13)		Dieldrin	7.538	8.191f	490231	587656	2.554	1.932	
14)		Endrin	7.696	8.464	393897	398838	2.679	1.766	
15)		4,4'-DDD	7.747	8.498	167332	108420	1.065m	0.423	#
16)		Endosulfa...	7.840	8.600	809994	365429	5.640	1.585	#
17)		4,4'-DDT	7.944	8.726	188169	636238	1.574m	3.648	#
18)		Endrin Al...	8.125	8.817	720050	416675	5.147	1.430	#
19)		Endosulfa...	8.438	9.056f	415841	84897	2.683	0.341	#
20)		Methoxychlor	8.296	9.204	483895	119056	8.261	1.290	#
21)		Endrin Ke...	8.626	9.426	444486	247943	2.665	0.964	#
23)		Hexachlor...	2.954	3.426f	231553	1752734	1.267	4.662	#
24)		Hexachlor...	5.532	6.188	300067	138628	1.702	0.441	#
25)		Oxychlordane	6.996	7.651	652996	279740	3.969	1.021	#
26)		2,4'-DDE	7.104	7.871	50242	271044	0.392m	1.278	#
27)		trans-Non...	7.251	7.933	436923	217674	2.122	0.722	#
28)		2,4'-DDD	7.457	8.249	97977	134107	0.859m	0.710m	
29)		2,4'-DDT	7.645	8.464	41865	398838	0.382m	2.236	#
30)		cis-Nonac...	7.734	8.498	628182	108420	3.026	0.323	#
31)		Mirex	8.389	9.426f	493914	247943	3.940	1.333	#
32)		Chlordane...	7.205f	7.933	344508	217674	17.497	6.016	#
33)		Chlordane...	7.321	8.064f	491140	224472	19.595	7.393	#
34)		Chlordane...	7.888f	8.681	386957	95666	66.935	10.670	#
35)		Chlordane...	3.435	3.426	194913	1752734	NoCal	NoCal	
36)		Toxaphene...	7.292	8.260	404078	146052	451.157	55.655	#
37)		Toxaphene...	7.605	8.600	615855	365429	381.349	111.038	#
38)		Toxaphene...	7.888	8.641	386957	157972	114.910	31.169	#
39)		Toxaphene...	8.155	8.726	408696	636238	126.135	76.198	
40)		Toxaphene...	8.350	8.885	430644	70069	179.649	15.035	#
41)		Toxaphene...	8.438	9.283	415841	36187	131.405	7.618	#
42)		Toxaphene...	3.435f	3.426	194913	1752734	NoCal	NoCal	

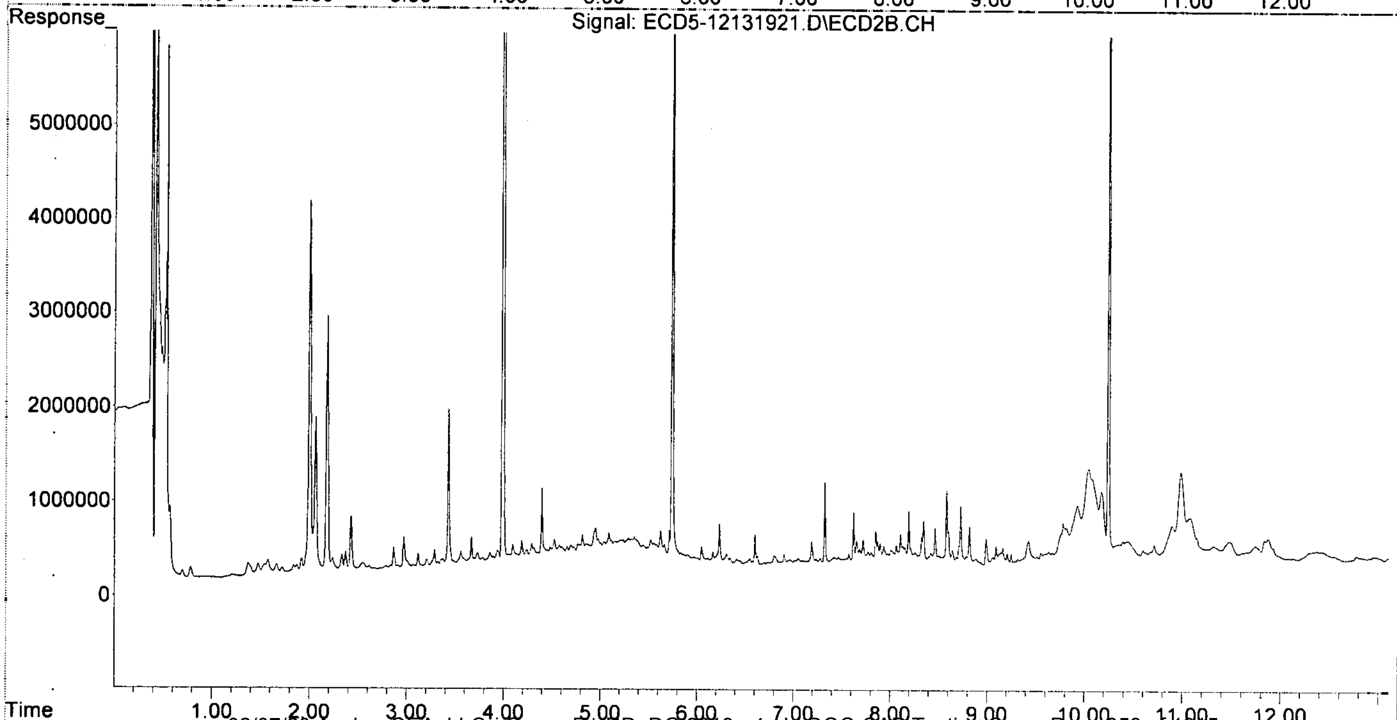
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 17:29
Operator : MJB
Sample : 9120734-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: Dec 13 18:04:45 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

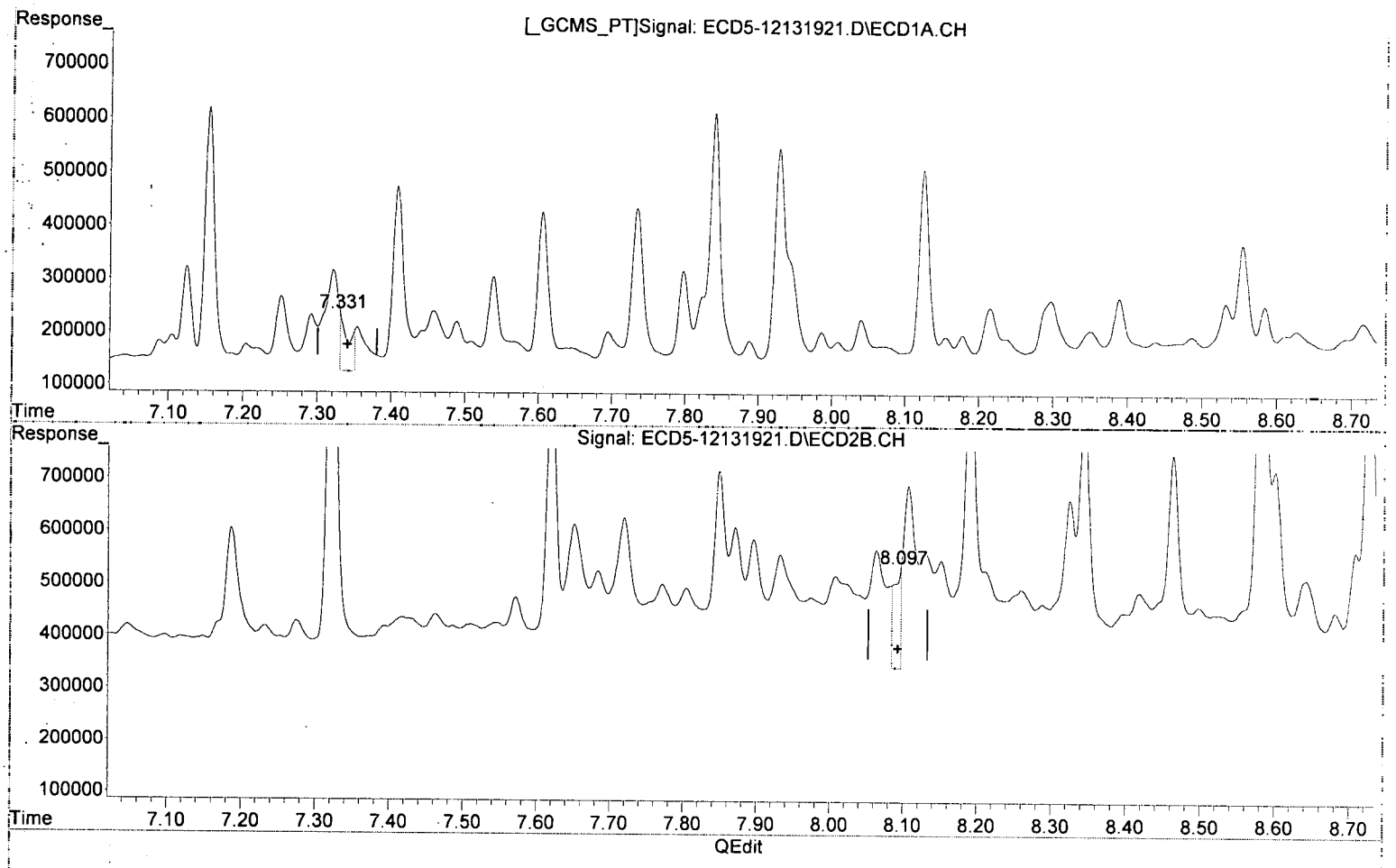




Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 17:29
Operator : MJB
Sample : 9120734-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: Dec 13 18:02:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.331min 0.576 ng/mL (m)

response 108678

MJB 12/13/19

(12) 4,4'-DDE #2

8.097min 0.613 ng/mL (m)

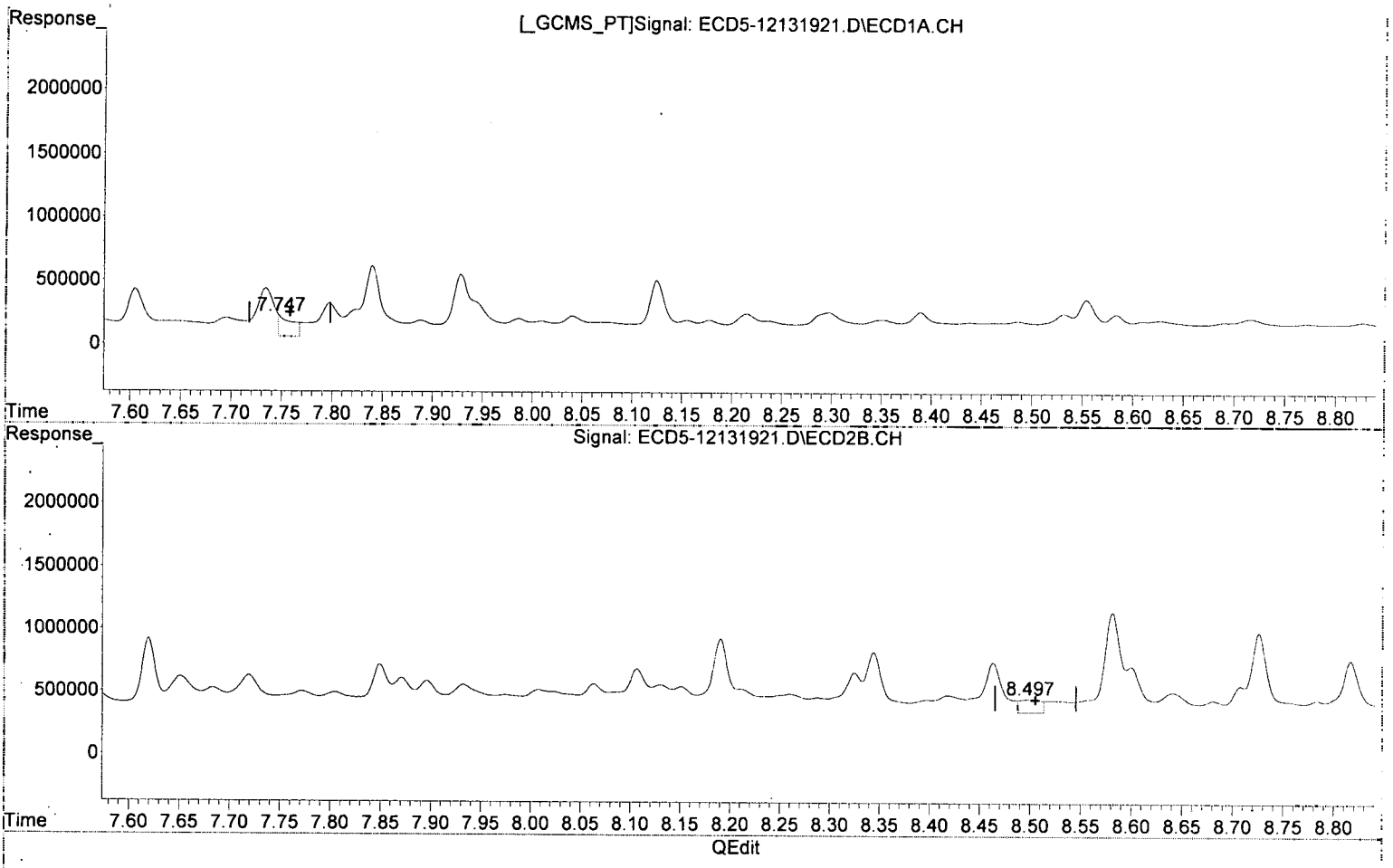
response 190478

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 17:29
Operator : MJB
Sample : 9120734-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: Dec 13 18:02:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.747min 1.065 ng/mL (m)

response 167332

MJB 12/13/19

(15) 4,4'-DDD #2

8.498min 0.423 ng/mL

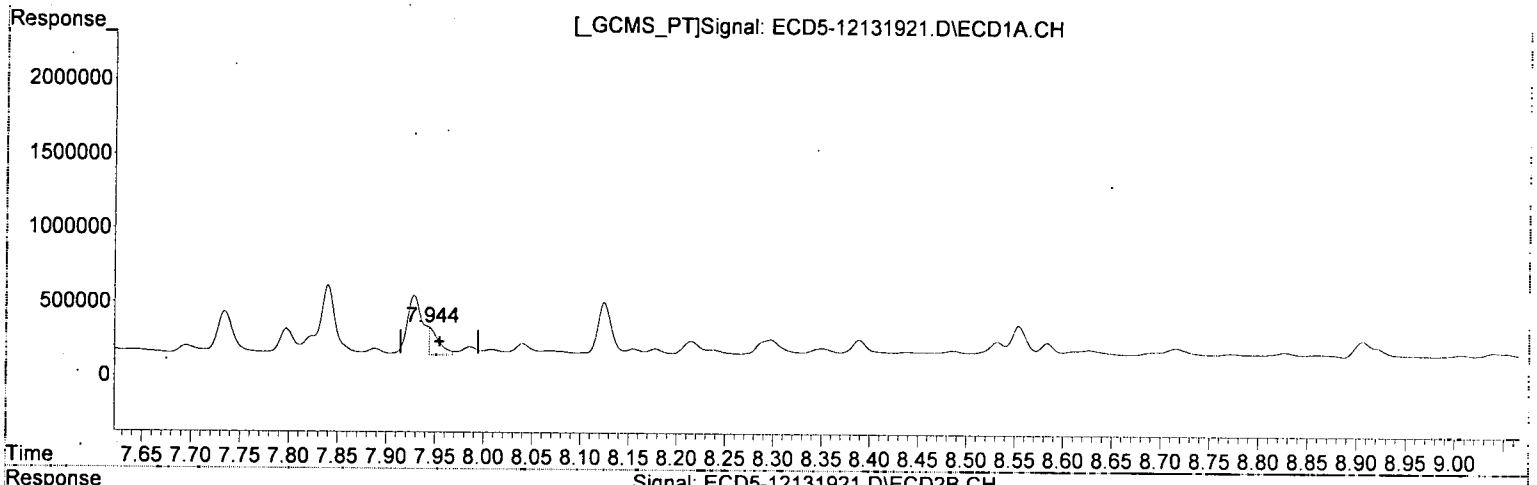
response 108420

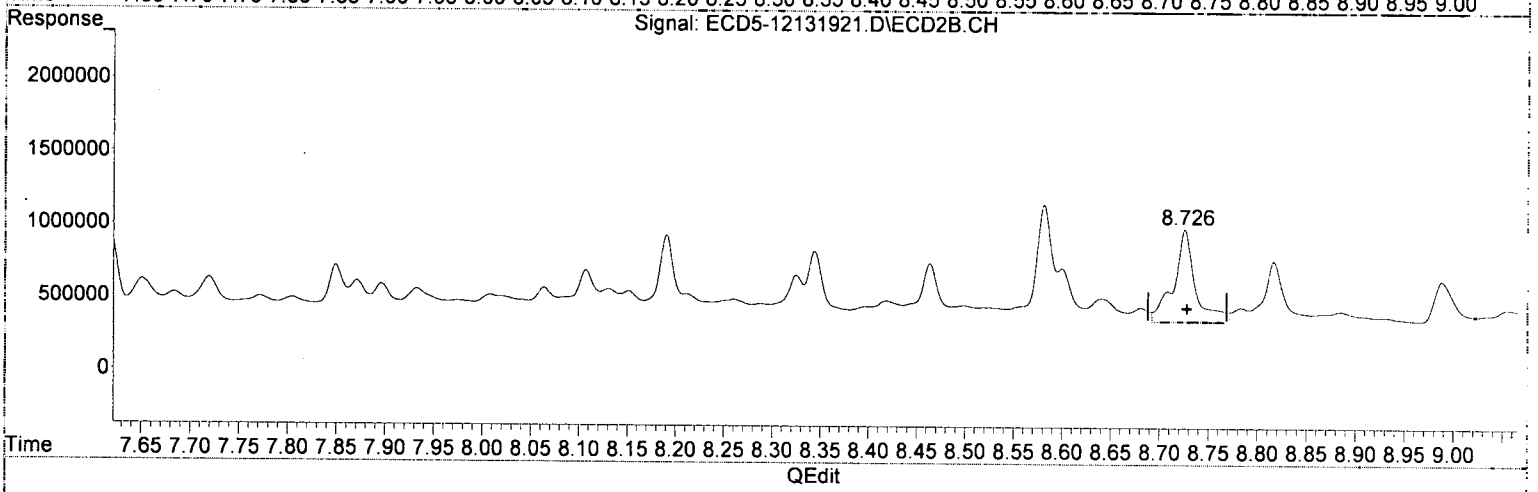
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 17:29
Operator : MJB
Sample : 9120734-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: Dec 13 18:02:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(17) 4,4'-DDT

7.944min 1.574 ng/mL (m) B-02

response 188169

MB 12/13/19

(17) 4,4'-DDT #2

8.726min 3.648 ng/mL P-91

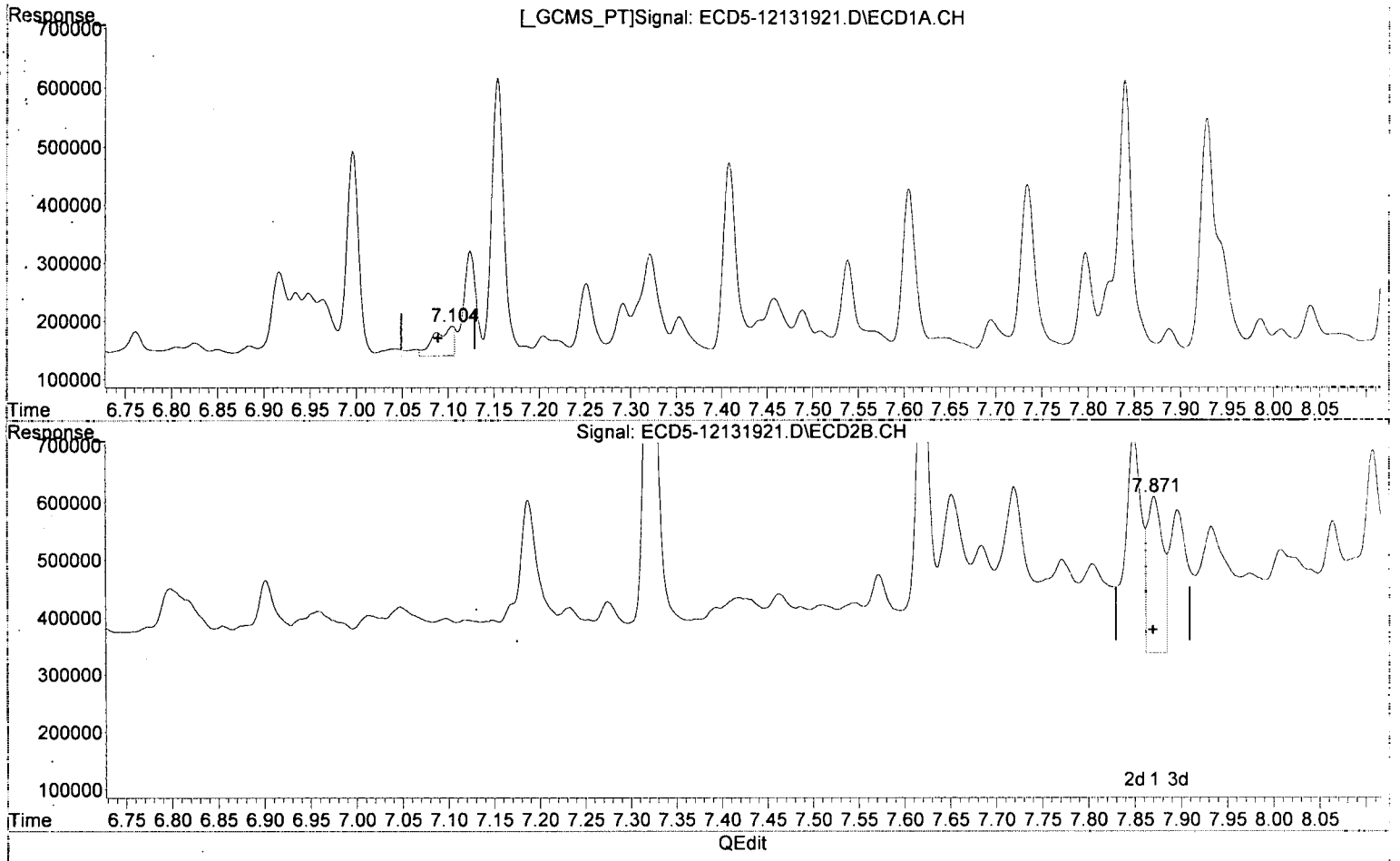
response 636238

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 17:29
Operator : MJB
Sample : 9120734-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: Dec 13 18:02:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.104min 0.392 ng/mL

response 50242

MJB 12/13/19

(26) 2,4'-DDE #2

7.871min 1.278 ng/mL

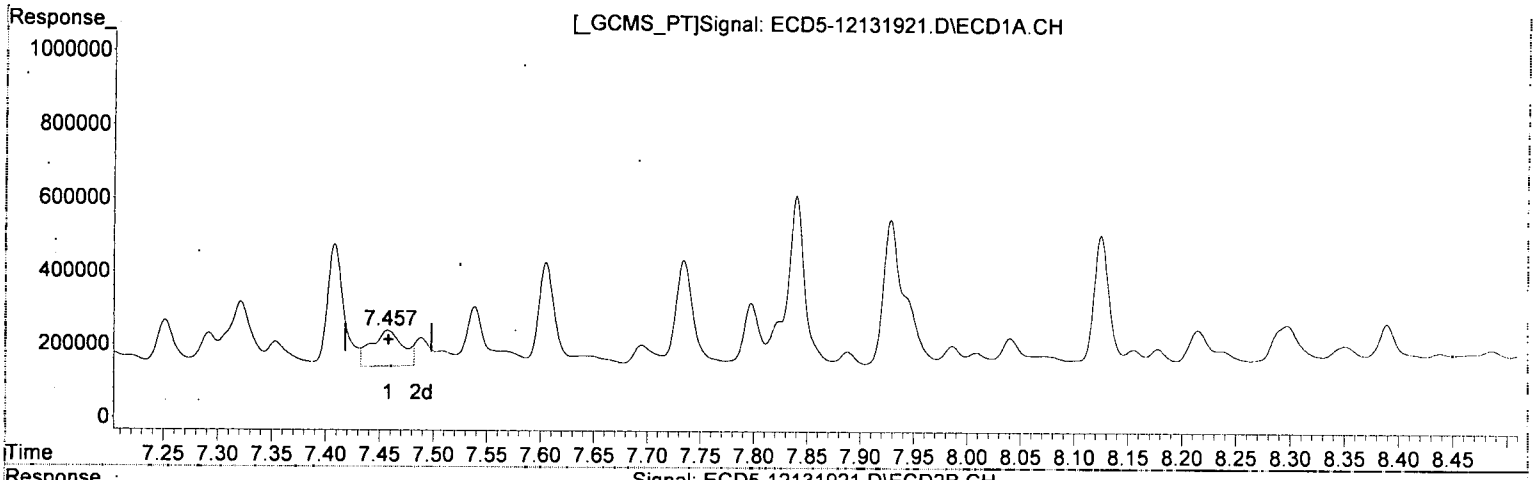
response 271044

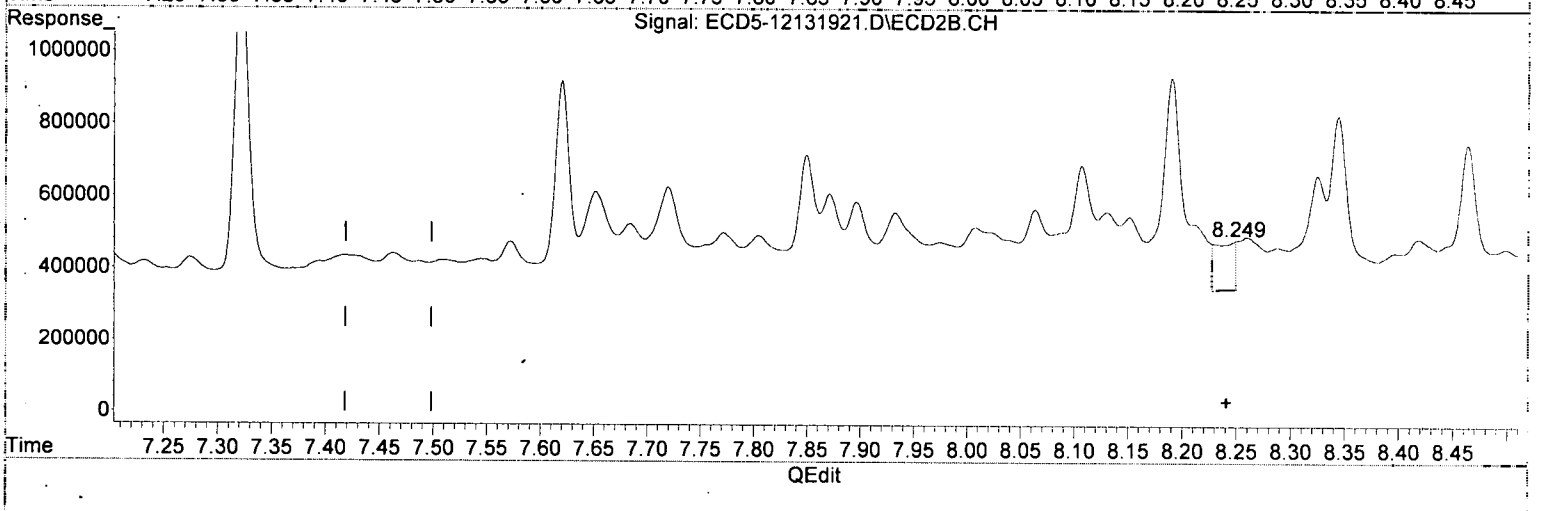
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 17:29
Operator : MJB
Sample : 9120734-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: Dec 13 18:02:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(28) 2,4'-DDD

7.457min 0.859 ng/mL m

response 97977

WB 12/13/19

(28) 2,4'-DDD #2

8.249min 0.710 ng/mL m

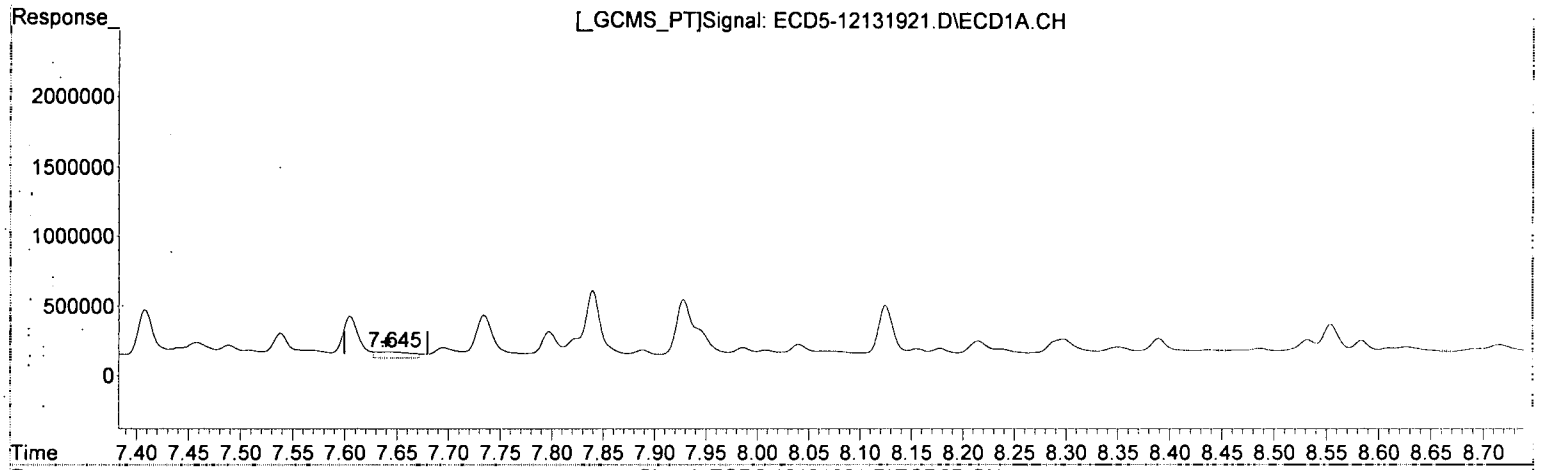
response 134107

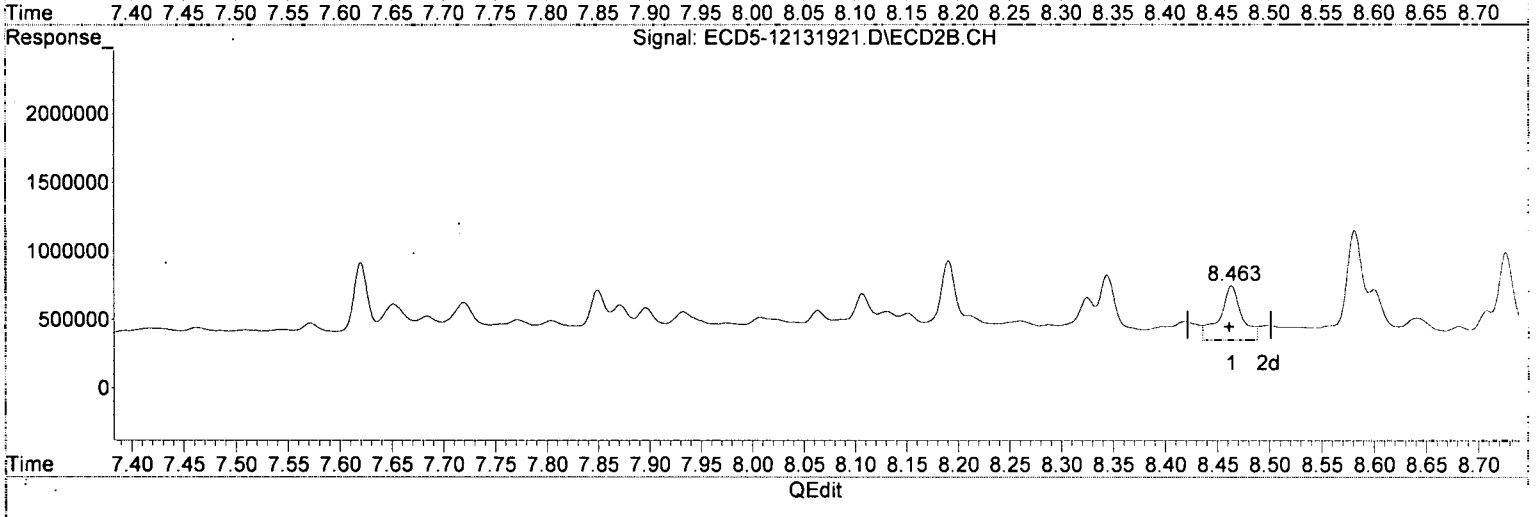
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 17:29
Operator : MJB
Sample : 9120734-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: Dec 13 18:02:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(29) 2,4'-DDT

7.645min 0.382 ng/mL (m)

response 41865

MJB 12/13/19

(29) 2,4'-DDT #2

8.464min 2.236 ng/mL P-01

response 398838

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 17:29
Operator : MJB
Sample : 9120734-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: Dec 13 18:02:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MI MJB 12/13/19

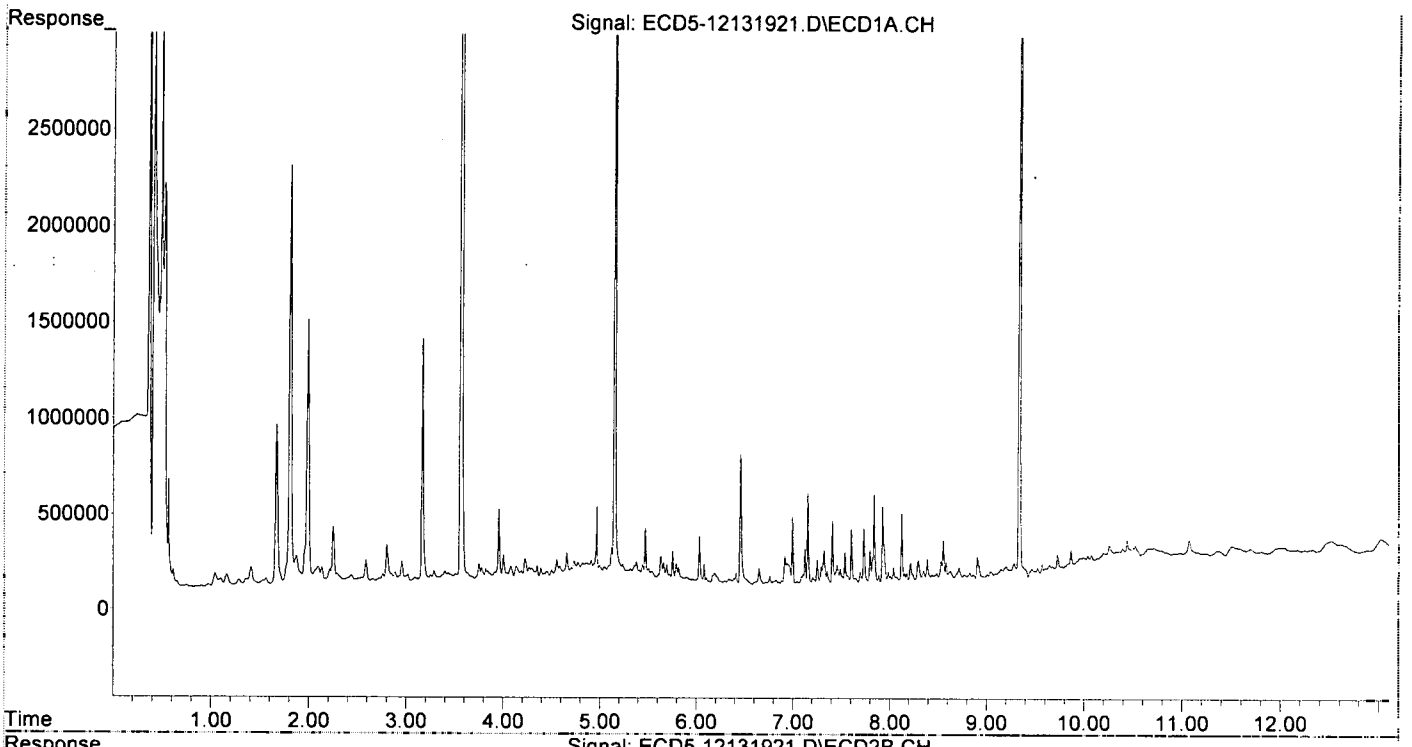
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.152	5.739	4852550	8357425	29.237	28.488	
22)	S	DCBP (S)	9.335	10.239	6952069	9033827	49.271	50.254	
		Target Compounds							
2)		a-BHC	5.692	6.339	341805	124275	1.490	0.303	#
3)		g-BHC	0.000	6.694f	0	64292	N.D.	0.180	#
4)		b-BHC	6.031	6.727	502137	68750	5.556	0.434	#
5)		Heptachlor	6.353f	7.047	294593	99172	1.625	0.324	#
6)		d-BHC	6.188	6.958f	321747	93106	1.636	0.264	#
7)		Aldrin	6.650f	7.274	366048	102307	1.854	0.311	#
8)		Heptachlo...	7.042f	7.720	314846	291165	1.709	0.968	#
9)		trans-Chl...	7.154	7.871	783287	271044	4.236	0.865	#
10)		cis-Chlor...	7.251	7.974	436923	135850	2.400	0.466	#
11)		Endosulfa...	7.354	8.008	383214	175538	2.252	0.638	#
12)		4,4'-DDE	7.354	8.107	383214	345886	2.033	1.113	#
13)		Dieldrin	7.538	8.191f	490231	587656	2.554	1.932	
14)		Endrin	7.696	8.464	393897	398838	2.679	1.766	
15)		4,4'-DDD	7.734f	8.498	628182	108420	3.998	0.423	#
16)		Endosulfa...	7.840	8.600	809994	365429	5.640	1.585	#
17)		4,4'-DDT	7.929f	8.726	751112	636238	6.282	3.648	#
18)		Endrin Al...	8.125	8.817	720050	416675	5.147	1.430	#
19)		Endosulfa...	8.438	9.056f	415841	84897	2.683	0.341	#
20)		Methoxychlor	8.296	9.204	483895	119056	8.261	1.290	#
21)		Endrin Ke...	8.626	9.426	444486	247943	2.665	0.964	#
23)		Hexachlor...	2.954	3.426f	231553	1752734	1.267	4.662	#
24)		Hexachlor...	5.532	6.188	300067	138628	1.702	0.441	#
25)		Oxychlordane	6.996	7.651	652996	279740	3.969	1.021	#
26)		2,4'-DDE	7.124f	7.871	485585	271044	3.786	1.278	#
27)		trans-Non...	7.251	7.933	436923	217674	2.122	0.722	#
28)		2,4'-DDD	7.458	8.260	420034	146052	3.680	0.773	#
29)		2,4'-DDT	7.605f	8.464	615855	398838	5.615	2.236	#
30)		cis-Nonac...	7.734	8.498	628182	108420	3.026	0.323	#
31)		Mirex	8.389	9.426f	493914	247943	3.940	1.333	#
32)		Chlordane...	7.205f	7.933	344508	217674	17.497	6.016	#
33)		Chlordane...	7.321	8.064f	491140	224472	19.595	7.393	#
34)		Chlordane...	7.888f	8.681	386957	95666	66.935	10.670	#
35)		Chlordane...	3.435	3.426	194913	1752734	NoCal	NoCal	
36)		Toxaphene...	7.292	8.260	404078	146052	451.157	55.655	#
37)		Toxaphene...	7.605	8.600	615855	365429	381.349	111.038	#
38)		Toxaphene...	7.888	8.641	386957	157972	114.910	31.169	#
39)		Toxaphene...	8.155	8.726	408696	636238	126.135	76.198	
40)		Toxaphene...	8.350	8.885	430644	70069	179.649	15.035	#
41)		Toxaphene...	8.438	9.283	415841	36187	131.405	7.618	#
42)		Toxaphene...	3.435f	3.426	194913	1752734	NoCal	NoCal	

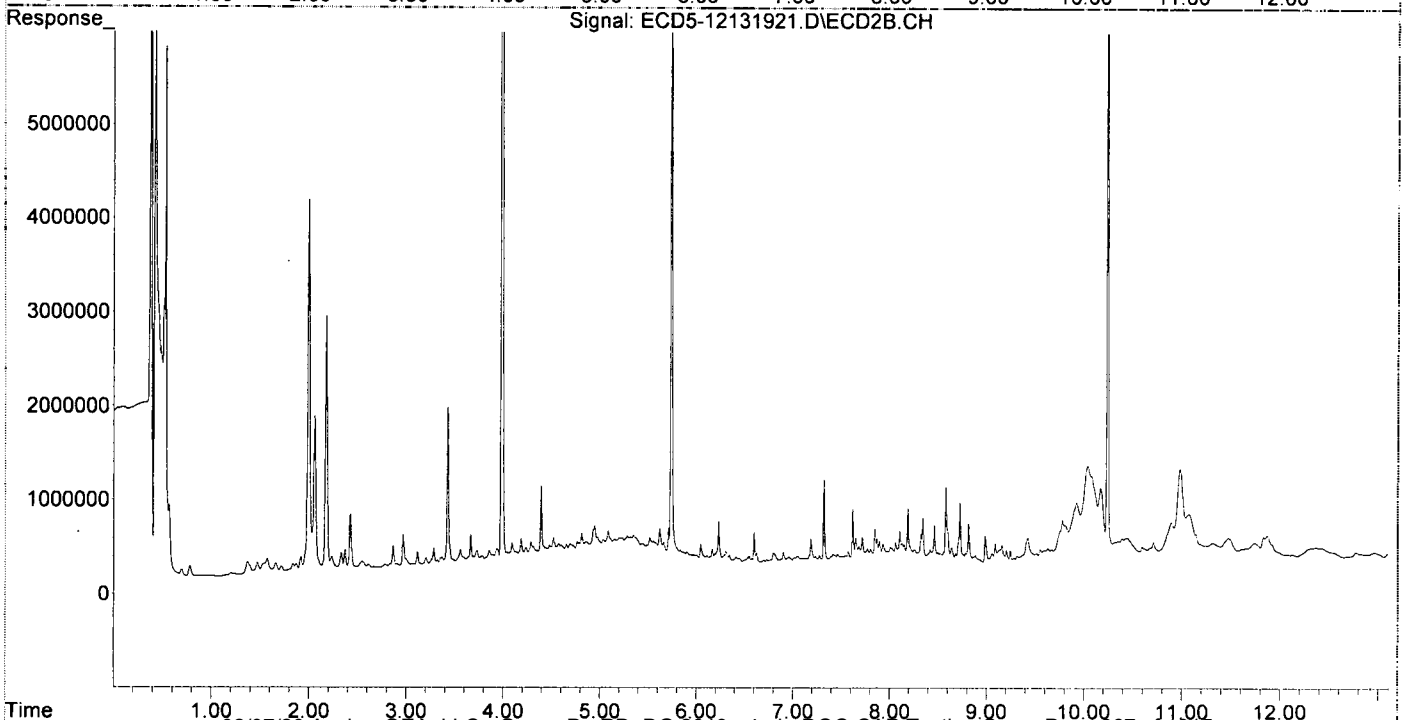
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 17:29
Operator : MJB
Sample : 9120734-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: Dec 13 18:02:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 17:46
Operator : MJB
Sample : 9120734-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: Dec 13 18:08:21 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/13/19

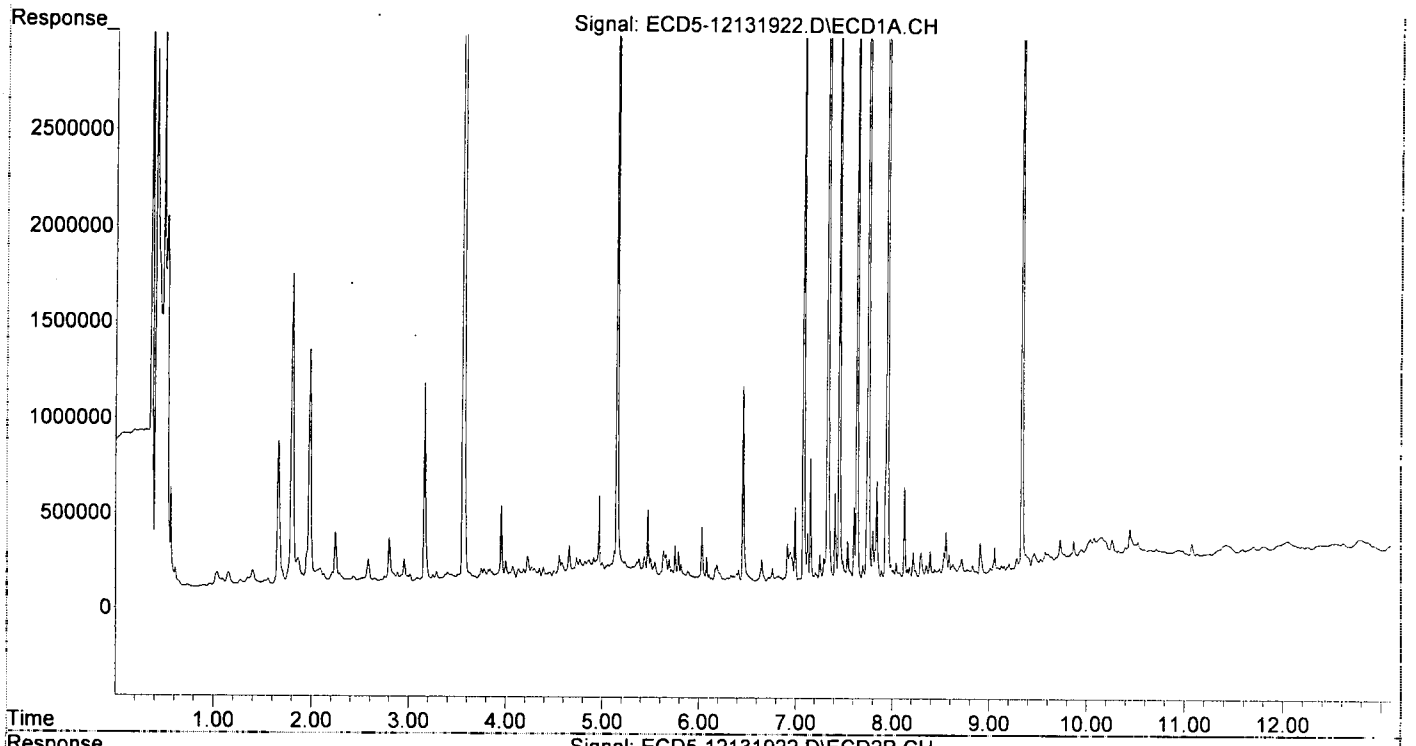
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.152	5.738	5070290	9097503	30.548	31.011	
22) S	DCBP (S)	9.337	10.240	6693830	9132463	47.441	50.803	
	Target Compounds							
2)	a-BHC	5.692	6.338	121285	129201	0.529	0.315	#
3)	g-BHC	0.000	6.694f	0	51512	N.D.	0.144	#
4)	b-BHC	6.031	6.726	284993	101501	3.153	0.641	#
5)	Heptachlor	6.354f	7.045	27187	71544	0.150	0.234	#
6)	d-BHC	6.184	6.986	86442	44230	0.439	0.125	#
7)	Aldrin	6.650f	7.274	111590	73808	0.565	0.224	#
8)	Heptachlo...	7.083	7.720	5243711	283618	28.471	0.943	#
9)	trans-Chl...	7.155	7.865	636712	8637795	3.444	27.568	#
10)	cis-Chlor...	7.252	8.007f	129654	69244	0.712	0.238	#
11)	Endosulfa...	7.333f	8.021	8675186	63240	50.977	0.230	#
12)	4,4'-DDE	7.333	8.087	8675186	14061640	46.015	45.261	
13)	Dieldrin	7.539	8.237	198152	8321196	1.032	27.359	#
14)	Endrin	7.696	8.458	67272	9911199	0.458	43.888	#
15)	4,4'-DDD	7.751	8.501	7676565	12329299	48.852	48.121	
16)	Endosulfa...	7.841	8.600	507499	436846	3.534	1.894	#
17)	4,4'-DDT	7.949	8.724	7991082	12903672	66.837	66.681	
18)	Endrin Al...	8.126	8.818	468145	530499	2.994	2.050	
19)	Endosulfa...	8.438	9.031	32006	36964	0.207	0.148	
20)	Methoxychlor	8.298	9.205	126301	106986	2.156	1.141	#
21)	Endrin Ke...	8.627	9.427	56041	232284	0.336	0.903	#
23)	Hexachlor...	2.953	3.424f	134646	1508640	0.737	4.013	#
24)	Hexachlor...	5.545	6.230f	107068	570844	0.607	1.817	#
25)	Oxychlordane	6.996	7.650	381645	310678	2.320	1.134	#
26)	2,4'-DDE	7.083	7.865	5243711	8637795	40.883	40.718	
27)	trans-Non...	7.252	7.932	129654	173284	0.407	0.574	#
28)	2,4'-DDD	7.453	8.237	5145758	8321196	45.089	44.059	
29)	2,4'-DDT	7.635	8.458	6140684	9911199	55.983	55.575	
30)	cis-Nonac...	7.751f	8.501	7676565	12329299	36.975	36.755	
31)	Mirex	8.391	9.427f	128788	232284	1.027	1.248	
32)	Chlordane...	7.204f	7.932	36203	173284	1.839	4.789	#
33)	Chlordane...	7.333	8.021f	8675186	63240	346.117	2.083	#
34)	Chlordane...	7.841f	8.682	507499	74152	87.786	8.270	#
35)	Chlordane...	3.437	3.424	49912	1508640	NoCal	NoCal	
36)	Toxaphene...	7.293	8.290f	109580	55709	122.348	21.229	#
37)	Toxaphene...	7.605	8.600	378397	436846	234.310	132.738	#
38)	Toxaphene...	7.889	8.642	39283	114919	11.665	22.674	#
39)	Toxaphene...	8.126	8.724	468145	12903672	144.483	1545.381	#
40)	Toxaphene...	8.351	8.887	56557	65550	23.593	14.065	#
41)	Toxaphene...	8.438	9.287	32006	6555	10.114	1.380	#
42)	Toxaphene...	3.437	3.424	49912	1508640	NoCal	NoCal	

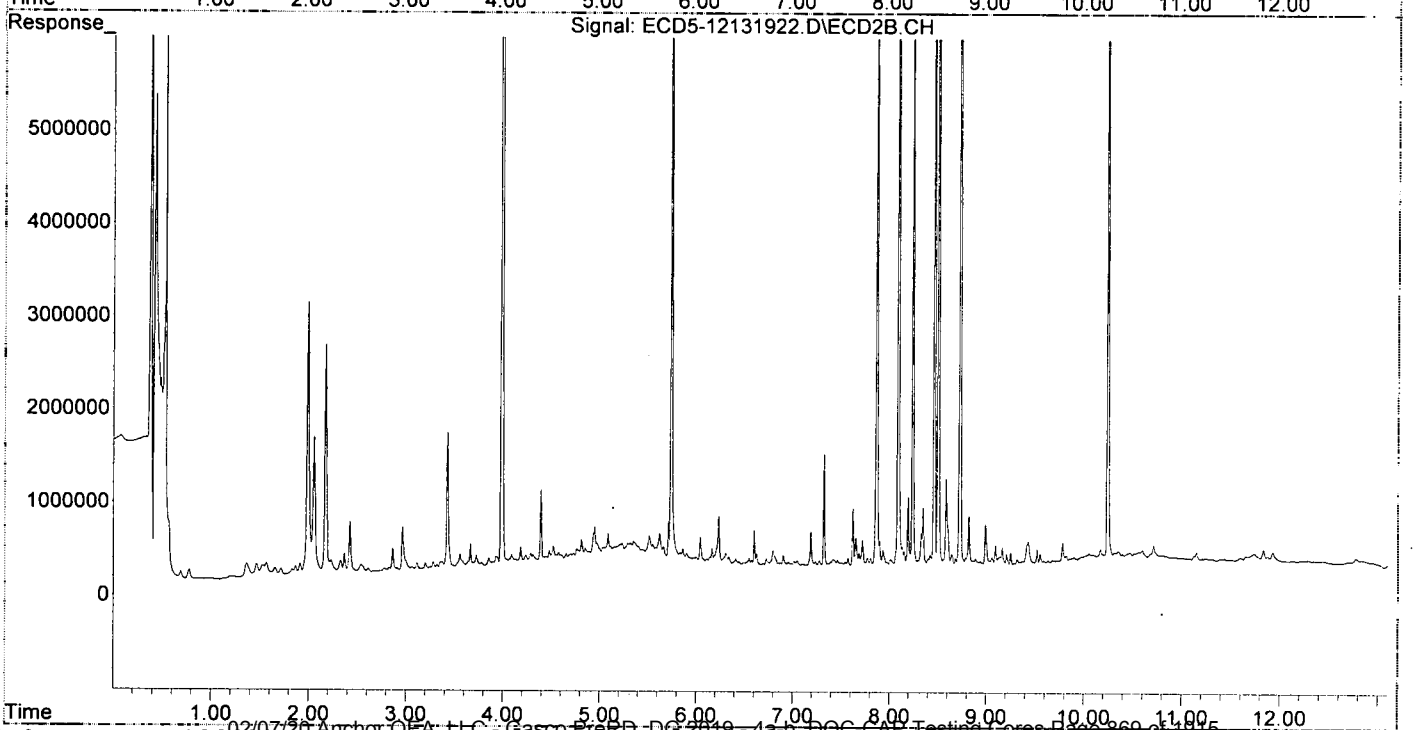
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 17:46
Operator : MJB
Sample : 9120734-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: Dec 13 18:08:21 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 18:20
Operator : MJB
Sample : 9L13033-CCV3
Misc : A19K134, 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: Dec 16 10:43:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/16/19

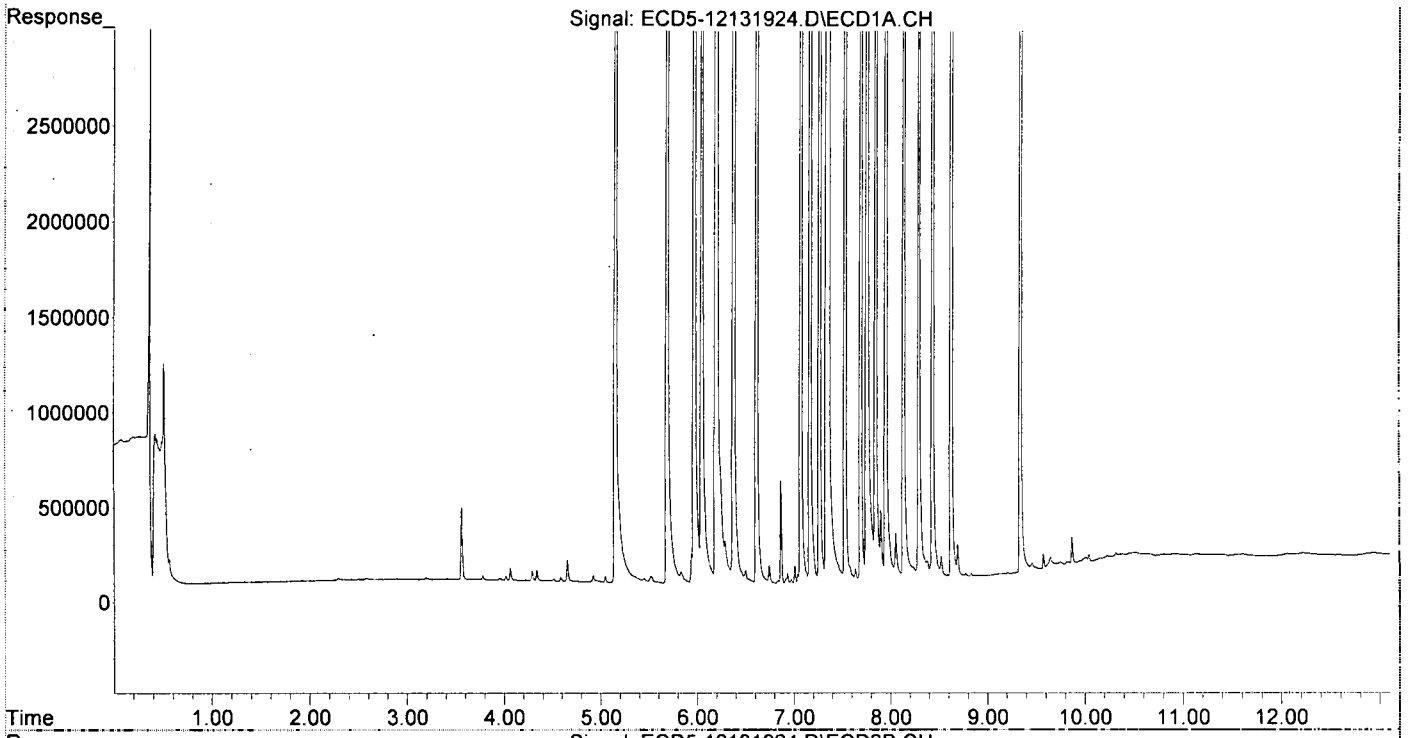
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.152	5.739	16730729	28122677	100.802	95.862	
22)	S	DCBP (S)	9.338	10.240	14265792	20240491	101.105	112.595	
		Target Compounds							
2)		a-BHC	5.686	6.344	24868144	44862262	108.439	109.330	
3)		g-BHC	5.968	6.661	20890454	38802811	103.532	108.782	
4)		b-BHC	6.045	6.729	7266580	14460543	80.397	91.369	
5)		Heptachlor	6.376	7.028	20367136	36333755	112.341	118.747	
6)		d-BHC	6.192	6.981	16054183	33358544	81.622	94.590	
7)		Aldrin	6.614	7.290	20777730	38040272	105.233	115.486	
8)		Heptachlo...	7.073	7.728	19497368	31888995	105.861	105.997	
9)		trans-Chl...	7.169	7.867	19708655	34179985	106.596	109.088	
10)		cis-Chlor...	7.266	7.974	18850414	31332892	103.533	107.582	
11)		Endosulfa...	7.358	8.022	19668193	30098567	115.573	109.379	
12)		4,4'-DDE	7.338	8.090	16705917	29006487	88.612	93.365	
13)		Dieldrin	7.531	8.221	20991012	34149843	109.340	112.280	
14)		Endrin	7.693	8.446	16836021	27033651	114.510	119.710	
15)		4,4'-DDD	7.755	8.503	13663687	24647161	86.952	96.198	
16)		Endosulfa...	7.848	8.594	16000849	26428978	111.418	114.607	
17)		4,4'-DDT	7.951	8.726	13567912	21925862	113.482	106.171	
18)		Endrin Al...	8.136	8.830	13580051	22884259	107.675	109.990	
19)		Endosulfa...	8.435	9.020	15357059	24916914	99.092	100.033	
20)		Methoxychlor	8.293	9.206	6236853	9988813	106.478	101.237	
21)		Endrin Ke...	8.627	9.412	18178956	28499725	109.014	110.758	
23)		Hexachlor...	0.000	3.474f	0	9698	N.D.	0.026	#
24)		Hexachlor...	5.520	0.000	34811	0	0.197	N.D.	#
25)		Oxychlordane	7.009	7.646	90537	38419	0.550	0.140	#
26)		2,4'-DDE	7.073	7.867	19497368	34179985	152.013	161.121	
27)		trans-Non...	7.266	7.923	18850414	151745	105.024	0.503	#
28)		2,4'-DDD	0.000	8.221	0	34149843	N.D.	180.818	#
29)		2,4'-DDT	7.636	8.446	61971	27033651	0.565	151.585	#
30)		cis-Nonac...	7.755f	8.503	13663687	24647161	65.812	73.475	
31)		Mirex	8.378	9.412	87434	28499725	0.697	153.164	#
32)		Chlordane...	7.266f	7.923	18850414	151745	957.379	4.194	#
33)		Chlordane...	7.338	8.022f	16705917	30098567	666.523	991.256	#
34)		Chlordane...	7.848	8.670f	16000849	120843	2767.776	13.478	#
35)		Chlordane...	0.000	3.410f	0	6519	N.D.	NoCal	
36)		Toxaphene...	7.266f	0.000	18850414	0	21046.690	N.D.	#
37)		Toxaphene...	0.000	8.594f	0	26428978	N.D.	8030.622	#
38)		Toxaphene...	7.901	8.670f	365667	120843	108.588	23.843	#
39)		Toxaphene...	8.136	8.726	13580051	21925862	4191.177	2625.904	
40)		Toxaphene...	8.378	8.914f	87434	517175	36.474	110.973	#
41)		Toxaphene...	8.435	9.290f	15357059	76955	4852.791	16.200	#
42)		Toxaphene...	0.000	3.410f	0	6519	N.D.	NoCal	

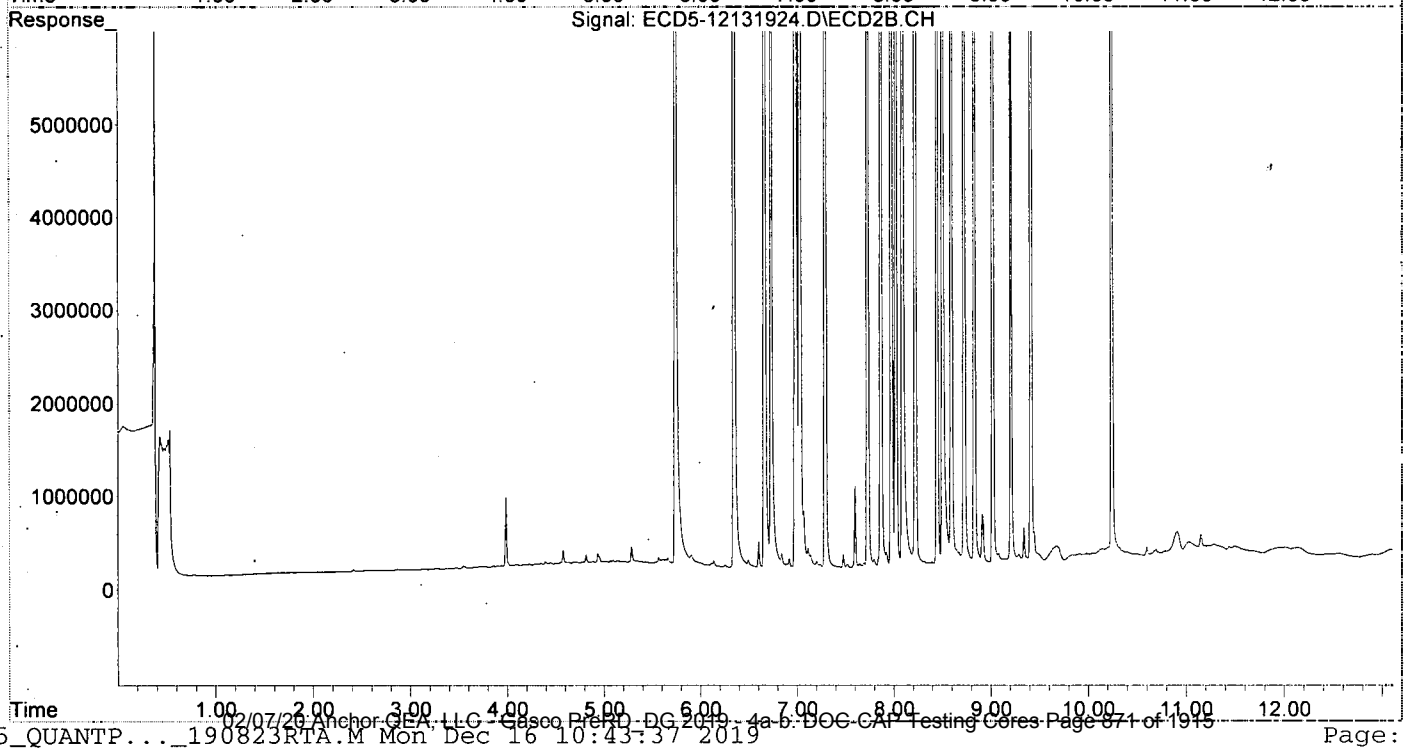
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 18:20
Operator : MJB
Sample : 9L13033-CCV3
Misc : A19K134, 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: Dec 16 10:43:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 18:37
Operator : MJB
Sample : 9L13033-CCV4
Misc : A19J409, 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: Dec 16 10:43:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/16/19

MJB 12/13/19 12/16/19

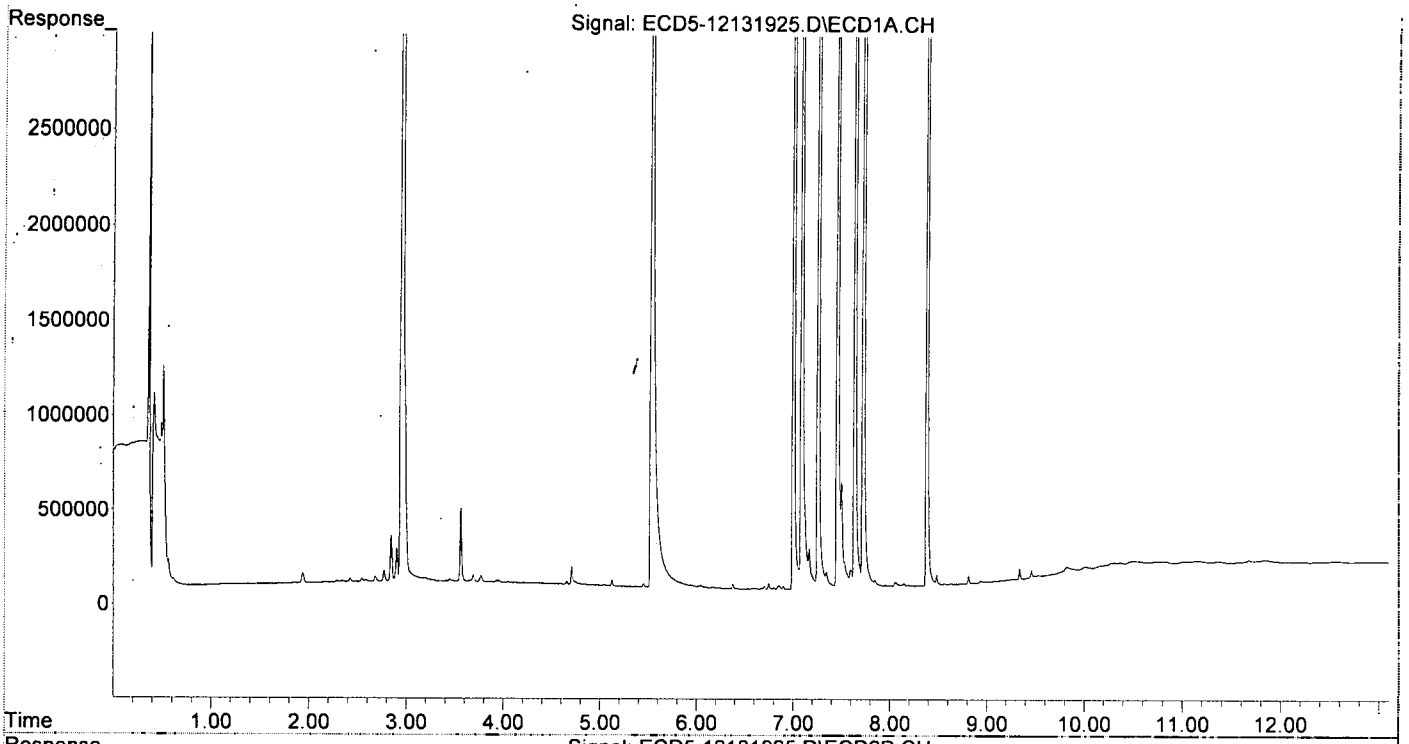
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
21)	S	TCMX (S)	5.126f	5.752	32381	10179	0.195	0.035	#
22)	S	DCBP (S)	9.339	10.241	64019	340880	0.454	1.896	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	5.941f	6.690f	16074	9854	0.080	0.028	#
4)		b-BHC	6.042	0.000	14944	0	0.165	N.D.	#
5)		Heptachlor	6.377	7.028	24415	30349	0.135	0.099	
6)		d-BHC	6.171f	0.000	7597	0	0.039	N.D.	#
7)		Aldrin	6.581f	7.284	4566	12127	0.023	0.037	#
8)		Heptachlo...	7.087	7.726	10814336	86629	58.717	0.288	#
9)		trans-Chl...	7.168	7.868	210789	19583071	1.140	62.501	#
10)		cis-Chlor...	7.259	0.000	18855032	0	103.559	N.D.	#
11)		Endosulfa...	7.346	8.038	86424	67939	0.508	0.247	#
12)		4,4'-DDE	7.346	0.000	86424	0	0.458	N.D.	#
13)		Dieldrin	7.502f	8.239	561816	17206645	2.926	56.573	#
14)		Endrin	7.726f	8.459	21607940	19026388	146.966	84.252	#
15)		4,4'-DDD	7.726f	8.493	21607940	36329821	137.507	141.795	
16)		Endosulfa...	7.848	0.000	38289	0	0.267	N.D.	#
17)		4,4'-DDT	7.953	0.000	9687	0	0.081	N.D.	#
18)		Endrin Al...	8.148	8.831	14140	8161	BelowCal	BelowCal	
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...	8.630	9.398	4899	19012238	0.029	73.887	#
23)		Hexachlor...	2.952	3.447	19465408	43645622	106.520	116.100	
24)		Hexachlor...	5.532	6.204	18217040	31661094	103.333	100.803	
25)		Oxychlordane	7.003	7.658	16448869	27986960	99.970	102.178	
26)		2,4'-DDE	7.087	7.868	10814336	19583071	84.315	92.313	
27)		trans-Non...	7.259	7.932	18855032	31821315	105.050	105.496	
28)		2,4'-DDD	7.457	8.239	9774175	17206645	85.644	91.106	
29)		2,4'-DDT	7.638	8.459	11968037	19026388	109.110	106.686	
30)		cis-Nonac...	7.726	8.493	21607940	36329821	104.077	108.302	
31)		Mirex	8.384	9.398	12922850	19012238	103.080	102.176	
32)		Chlordane...	7.259f	7.932	18855032	31821315	957.613	879.416	
33)		Chlordane...	7.346f	8.038	86424	67939	3.448	2.237	
34)		Chlordane...	7.848	0.000	38289	0	6.623	N.D.	#
35)		Chlordane...	3.448	3.447	10911	43645622	NoCal	NoCal	
36)		Toxaphene...	0.000	8.239f	0	17206645	N.D.	6556.766	#
37)		Toxaphene...	7.596	8.653f	94513	42415	58.524	12.888	#
38)		Toxaphene...	0.000	8.653	0	42415	N.D.	8.369	#
39)		Toxaphene...	8.148	0.000	14140	0	4.364	N.D.	#
40)		Toxaphene...	8.384	8.927f	12922850	7808	5390.940	1.675	#
41)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)		Toxaphene...	3.448	3.447	10911	43645622	NoCal	NoCal	

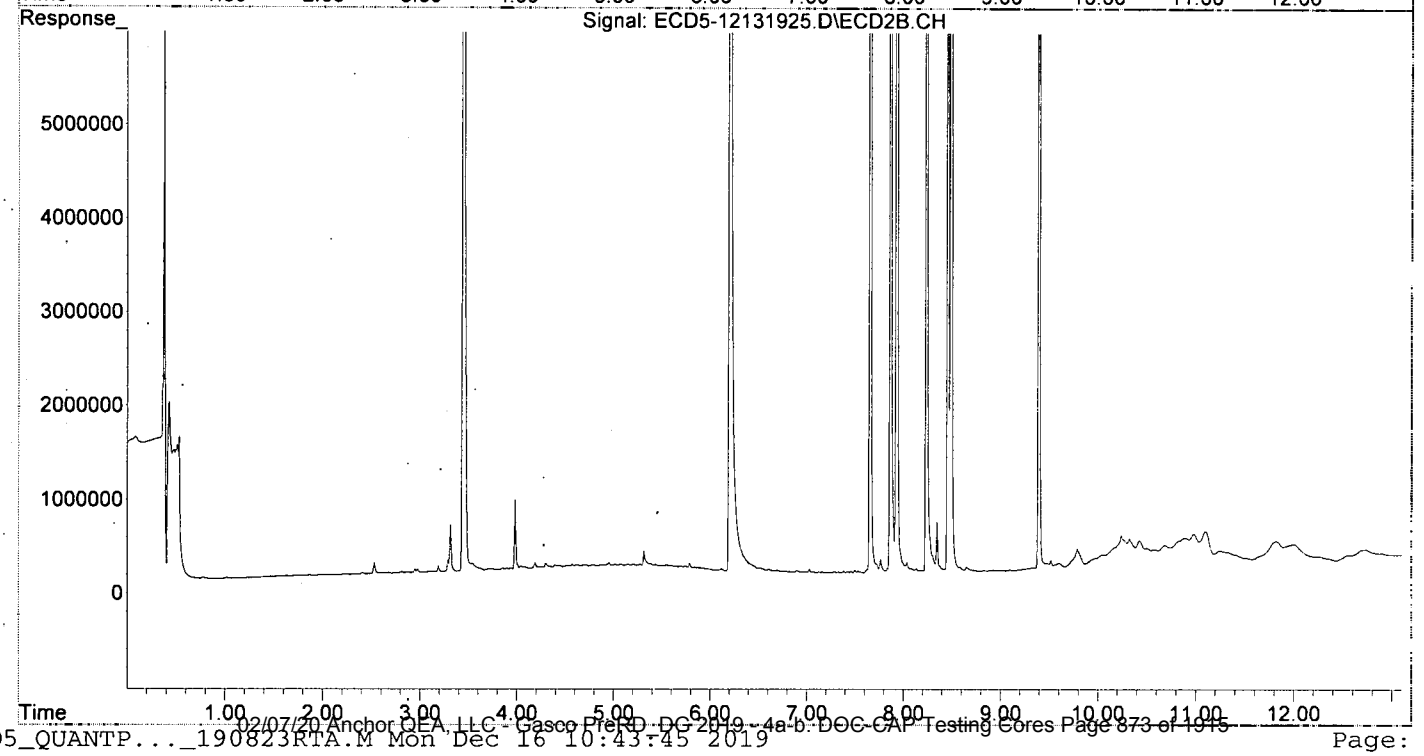
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 18:37
Operator : MJB
Sample : 9L13033-CCV4
Misc : A19J409, 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: Dec 16 10:43:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131926.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 18:55
Operator : MJB
Sample : 9L13033-CCB2
Misc : A19L018
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: Dec 16 10:43:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/16/19

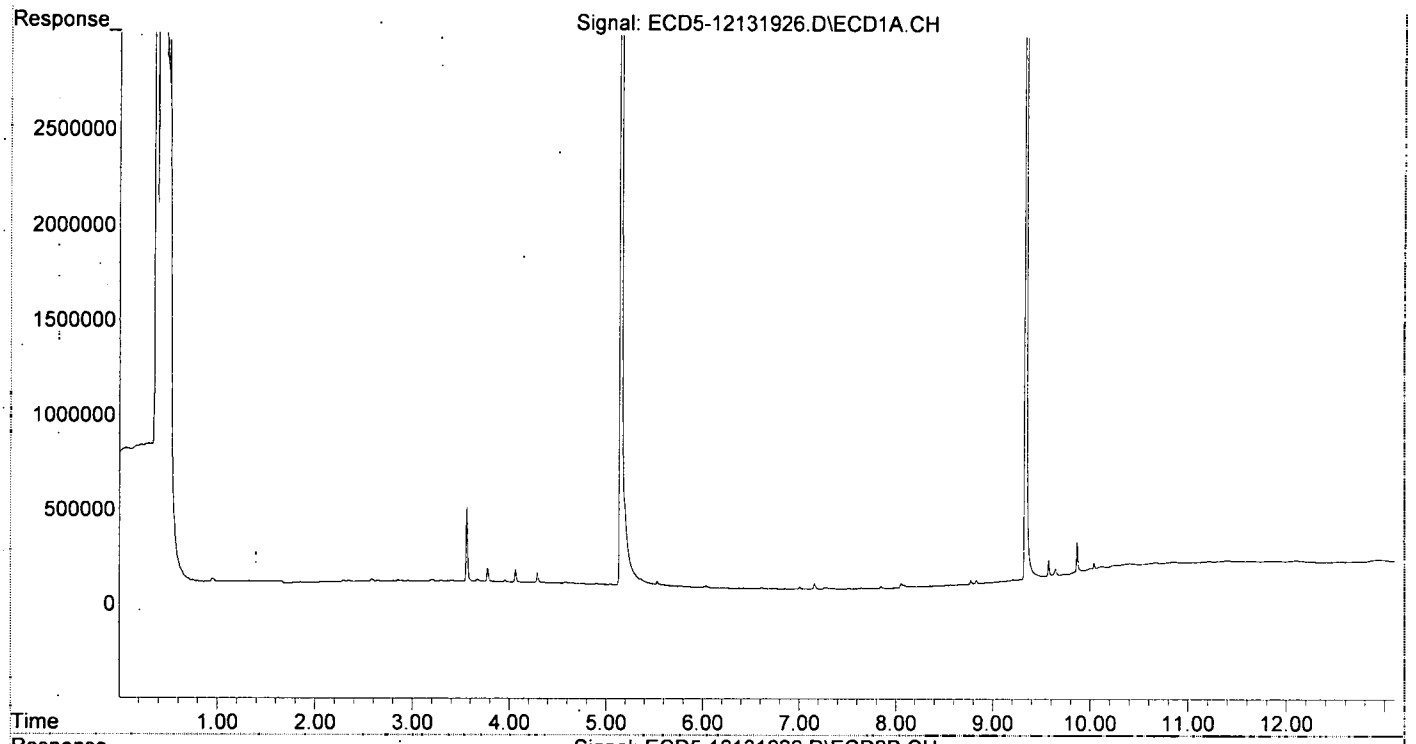
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.153	5.739	17110750	29039758	103.092	98.988	
22)	S	DCBP (S)	9.338	10.241	14569777	21702616	103.260	120.729	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	6.694f	0	14518	N.D.	0.041	#
4)		b-BHC	6.041	6.694f	7940	14518	0.088	0.092	
5)		Heptachlor	0.000	7.062f	0	10036	N.D.	0.033	#
6)		d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)		Aldrin	6.614	7.327f	6664	38622	0.034	0.117	#
8)		Heptachlo...	0.000	7.740	0	6988	N.D.	0.023	#
9)		trans-Chl...	7.161	7.902f	29223	25897	0.158	0.083	#
10)		cis-Chlor...	7.269	7.956f	7410	16064	0.041	0.055	
11)		Endosulfa...	0.000	8.034	0	14695	N.D.	0.053	#
12)		4,4'-DDE	0.000	8.074	0	13230	N.D.	0.043	#
13)		Dieldrin	0.000	8.216	0	13689	N.D.	0.045	#
14)		Endrin	0.000	8.423f	0	20847	N.D.	0.092	#
15)		4,4'-DDD	0.000	8.512	0	21474	N.D.	0.084	#
16)		Endosulfa...	7.849	8.585	11345	31902	0.079	0.138	#
17)		4,4'-DDT	0.000	8.718	0	35649	N.D.	0.170	#
18)		Endrin Al...	8.139	8.809f	5521	41410	BelowCal	BelowCal	
19)		Endosulfa...	0.000	9.054f	0	46760	N.D.	0.188	#
20)		Methoxychlor	8.291	0.000	2396	0	0.041	N.D.	#
21)		Endrin Ke...	0.000	9.389f	0	49407	N.D.	0.192	#
23)		Hexachlor...	0.000	3.474f	0	24649	N.D.	0.066	#
24)		Hexachlor...	5.532	0.000	27282	0	0.155	N.D.	#
25)		Oxychlordane	7.007	7.678	9648	6442	0.059	0.024	#
26)		2,4'-DDE	0.000	7.902f	0	25897	N.D.	0.122	#
27)		trans-Non...	7.269	7.956f	7410	16064	87346.659	0.053	#
28)		2,4'-DDD	0.000	8.216f	0	13689	N.D.	0.072	#
29)		2,4'-DDT	7.645	8.423f	3806	20847	0.035	0.117	#
30)		cis-Nonac...	0.000	8.512	0	21474	N.D.	0.064	#
31)		Mirex	8.397	9.389	4333	49407	0.035	0.266	#
32)		Chlordane...	0.000	7.956f	0	16064	N.D.	0.444	#
33)		Chlordane...	0.000	8.034	0	14695	N.D.	0.484	#
34)		Chlordane...	7.849	8.718f	11345	35649	1.962	3.976	#
35)		Chlordane...	3.413f	3.412f	7517	24302	NoCal	NoCal	
36)		Toxaphene...	7.269f	8.296f	7410	14031	8.273	5.347	
37)		Toxaphene...	0.000	8.585f	0	31902	N.D.	9.694	#
38)		Toxaphene...	0.000	8.655	0	58930	N.D.	11.627	#
39)		Toxaphene...	8.139	8.718	5521	35649	1.704	4.269	#
40)		Toxaphene...	8.397f	0.000	4333	0	1.807	N.D.	#
41)		Toxaphene...	8.397f	9.275	4333	42207	1.369	8.885	#
42)		Toxaphene...	0.000	3.412f	0	24302	N.D.	NoCal	

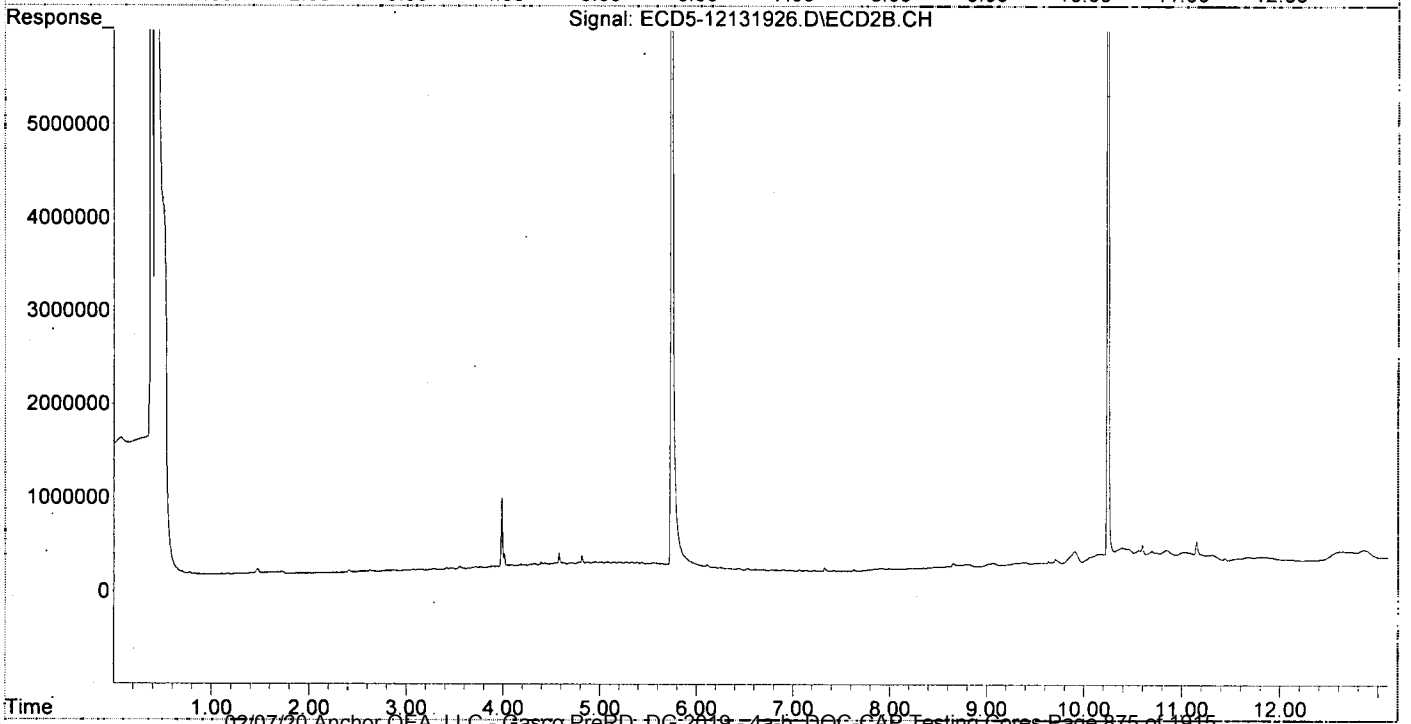
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131926.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 18:55
Operator : MJB
Sample : 9L13033-CCB2
Misc : A19L018
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: Dec 16 10:43:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 22:34
Operator : MJB
Sample : 9L13033-CCV5
Misc : A19K133, 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: Dec 16 12:28:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/16/19

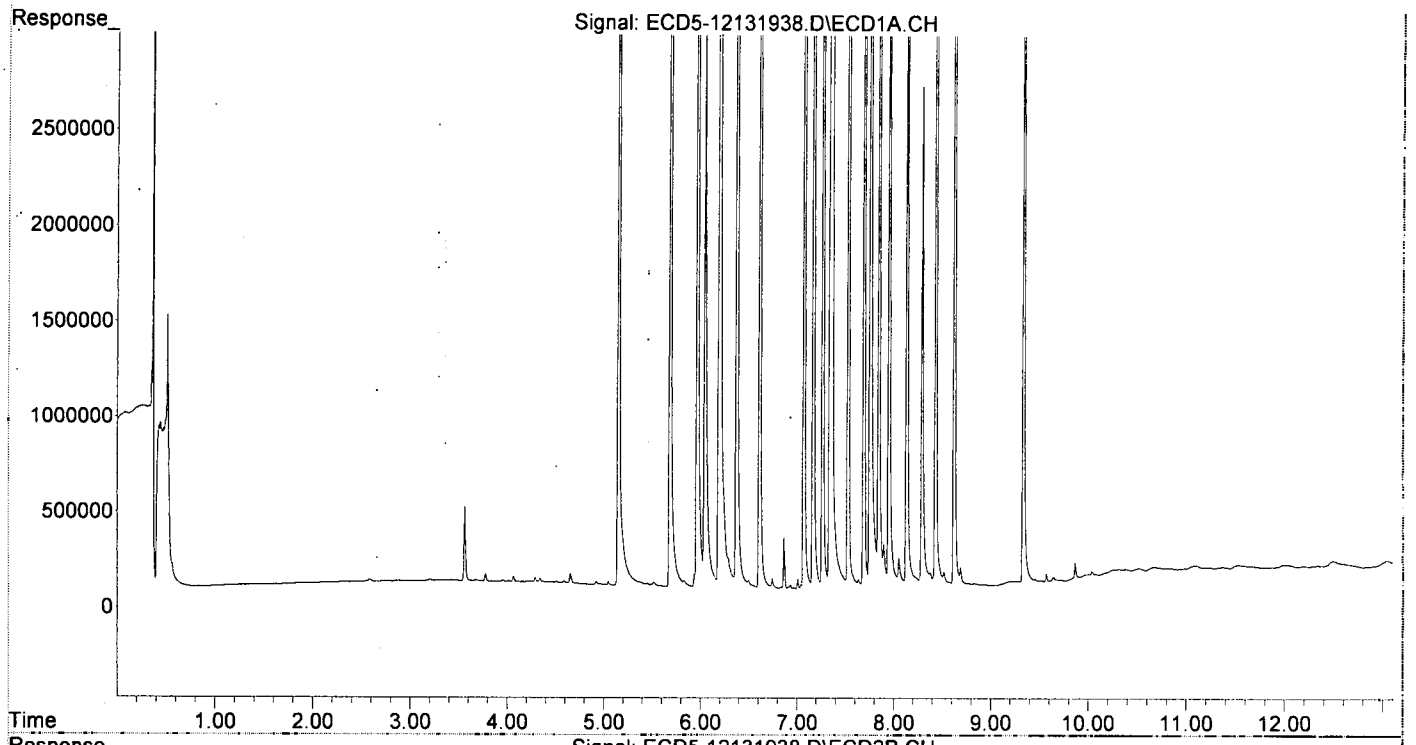
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.152	5.739	7823793	11837535	47.138	40.351	
22)	S	DCBP (S)	9.336	10.238	6653635	9762351	47.156	54.307	
		Target Compounds							
2)		a-BHC	5.685	6.344	11957869	19867420	52.143	48.417	
3)		g-BHC	5.966	6.660	10017992	17193681	49.649	48.202	
4)		b-BHC	6.046	6.730	2924241	5751274	32.354	36.339	
5)		Heptachlor	6.375	7.027	10120869	17817475	55.825	58.231	
6)		d-BHC	6.194	6.981	6110610	13253171	31.067	37.580	
7)		Aldrin	6.613	7.288	10079622	16795653	51.050	50.990	
8)		Heptachlo...	7.071	7.726	9459758	15561016	51.362	51.724	
9)		trans-Chl...	7.167	7.865	9346077	15834243	50.549	50.536	
10)		cis-Chlor...	7.264	7.973	9384539	14840155	51.543	50.954	
11)		Endosulfa...	7.355	8.019	10192721	14153699	59.894	51.435	
12)		4,4'-DDE	7.338	8.089	7344233	12116087	38.955m	38.999	Q-31
13)		Dieldrin	7.529	8.219	10330505	15899284	53.811	52.274	
14)		Endrin	7.691	8.444	8442026	12708950	57.418 Q-31	56.277	
15)		4,4'-DDD	7.756	8.502	5991184	10545659	38.126	41.160	
16)		Endosulfa...	7.846	8.591	7912084	12349166	55.094	53.551	
17)		4,4'-DDT	7.950	8.724	5542241	8098102	46.355	43.554	
18)		Endrin Al...	8.134	8.828	6677645	10708420	54.328	54.262	
19)		Endosulfa...	8.433	9.018	7524742	11659530	48.554	46.809	
20)		Methoxychlor	8.293	9.205	2592254	3795611	44.256	42.908	
21)		Endrin Ke...	8.624	9.410	9046227	13288434	54.247	51.642	
23)		Hexachlor...	2.953	3.472f	9673	27729	0.053	0.074	
24)		Hexachlor...	5.519	0.000	20893	0	0.119	N.D.	#
25)		Oxychlordane	7.008	7.674	49900	10659	0.303	0.039	#
26)		2,4'-DDE	7.071	7.865	9459758	15834243	73.754	74.641	
27)		trans-Non...	7.264	7.922	9384539	74673	52.095	0.248	#
28)		2,4'-DDD	0.000	8.219f	0	15899284	N.D.	84.184	#
29)		2,4'-DDT	7.636	8.444	42069	12708950	0.384	71.263	#
30)		cis-Nonac...	7.756f	8.502	5991184	10545659	28.857	31.437	
31)		Mirex	0.000	9.410	0	13288434	N.D.	71.415	#
32)		Chlordane...	7.264f	7.922	9384539	74673	476.624	2.064	#
33)		Chlordane...	7.355f	8.019f	10192721	14153699	406.663	466.133	
34)		Chlordane...	7.846	8.724f	7912084	8098102	1368.607	903.213	
35)		Chlordane...	3.470	3.415	10893	18126	NoCal	NoCal	
36)		Toxaphene...	7.264f	0.000	9384539	0	10477.939	N.D.	#
37)		Toxaphene...	0.000	8.591f	0	12349166	N.D.	3752.377	#
38)		Toxaphene...	0.000	8.648	0	108400	N.D.	21.388	#
39)		Toxaphene...	8.134	8.724	6677645	8098102	2060.905	969.852	#
40)		Toxaphene...	0.000	8.912	0	303900	N.D.	65.210	#
41)		Toxaphene...	8.433	9.290f	7524742	22459	2377.799	4.728	#
42)		Toxaphene...	3.470	3.415f	10893	18126	NoCal	NoCal	

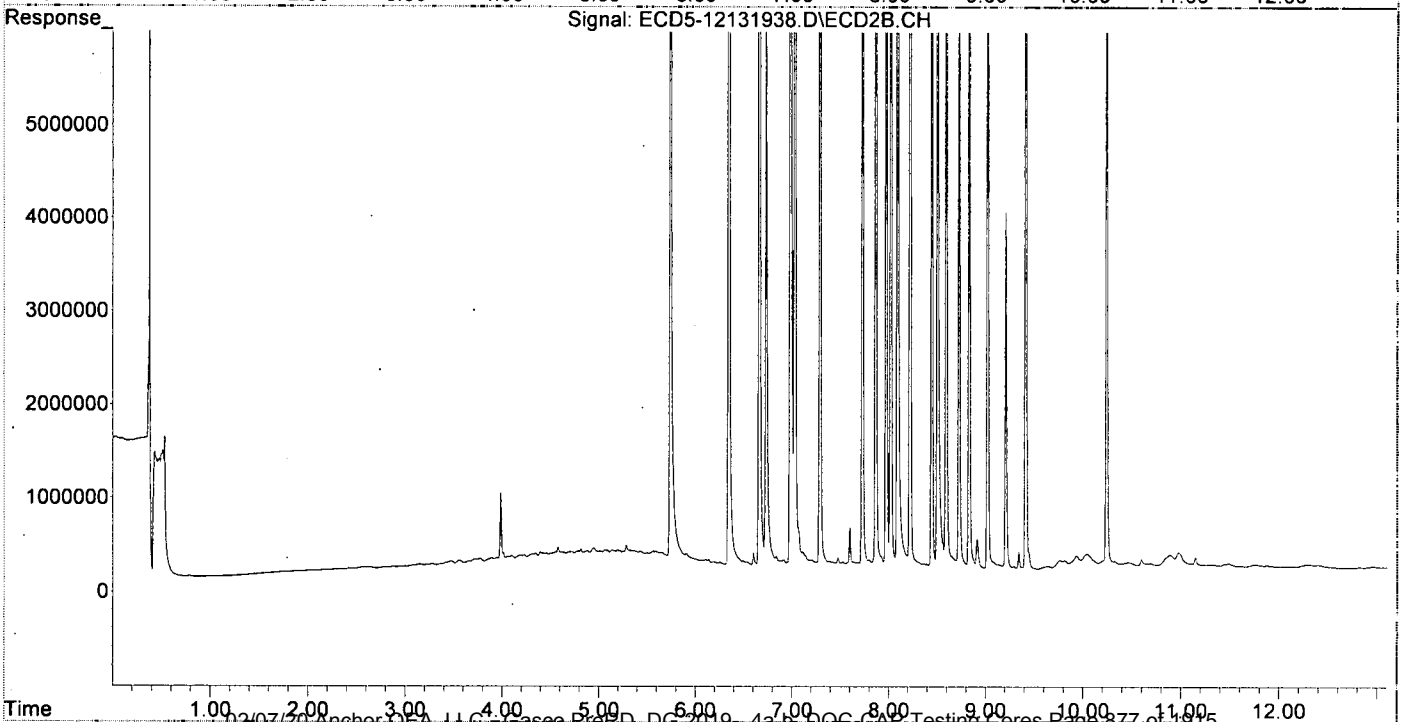
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 22:34
Operator : MJB
Sample : 9L13033-CCV5
Misc : A19K133, 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: Dec 16 12:28:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

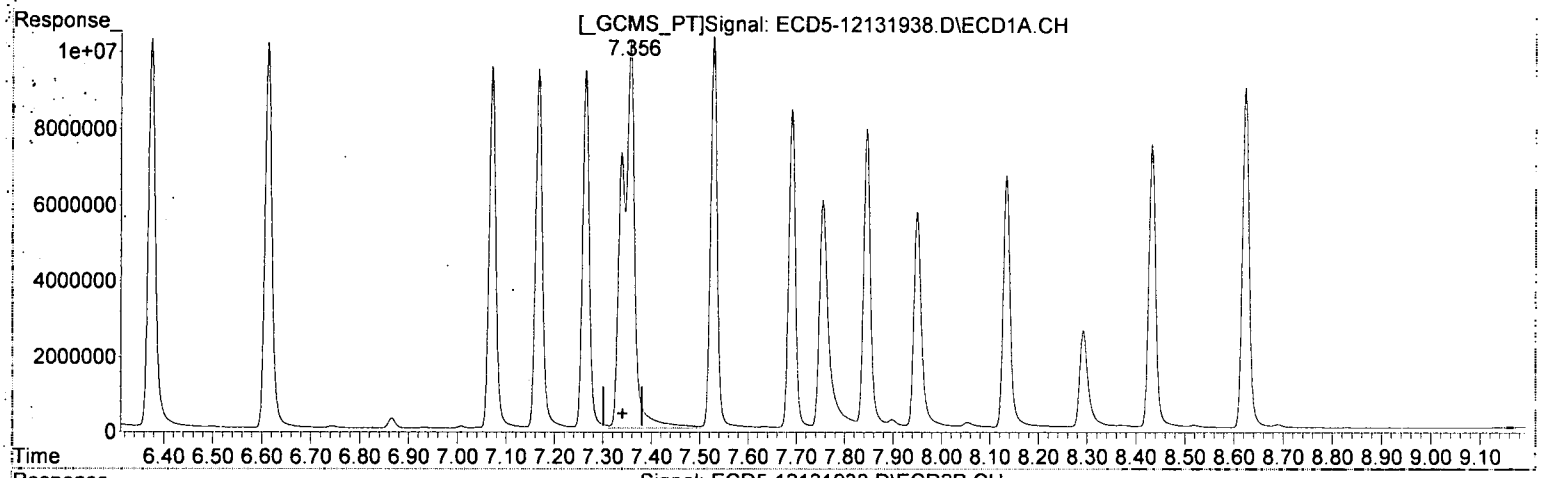


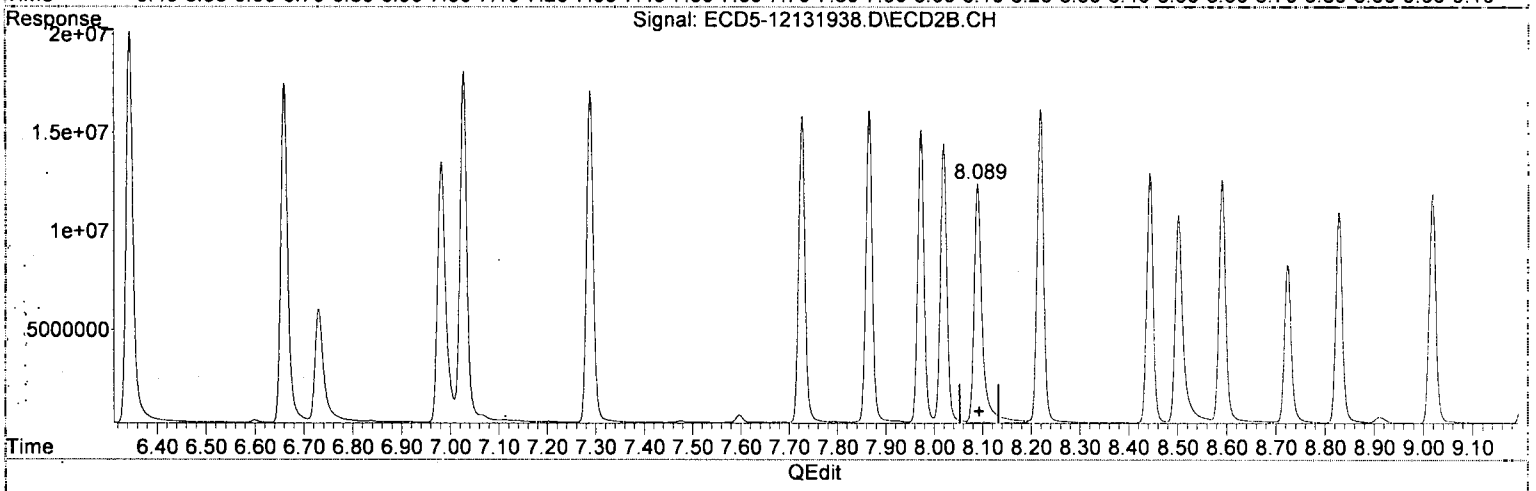


Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 22:34
Operator : MJB
Sample : 9L13033-CCV5
Misc : A19K133, 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: Dec 16 10:44:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(12) 4,4'-DDE

7.355min 54.064 ng/mL

response 10192721

MJB 12/16/19

(12) 4,4'-DDE #2

8.089min 38.999 ng/mL

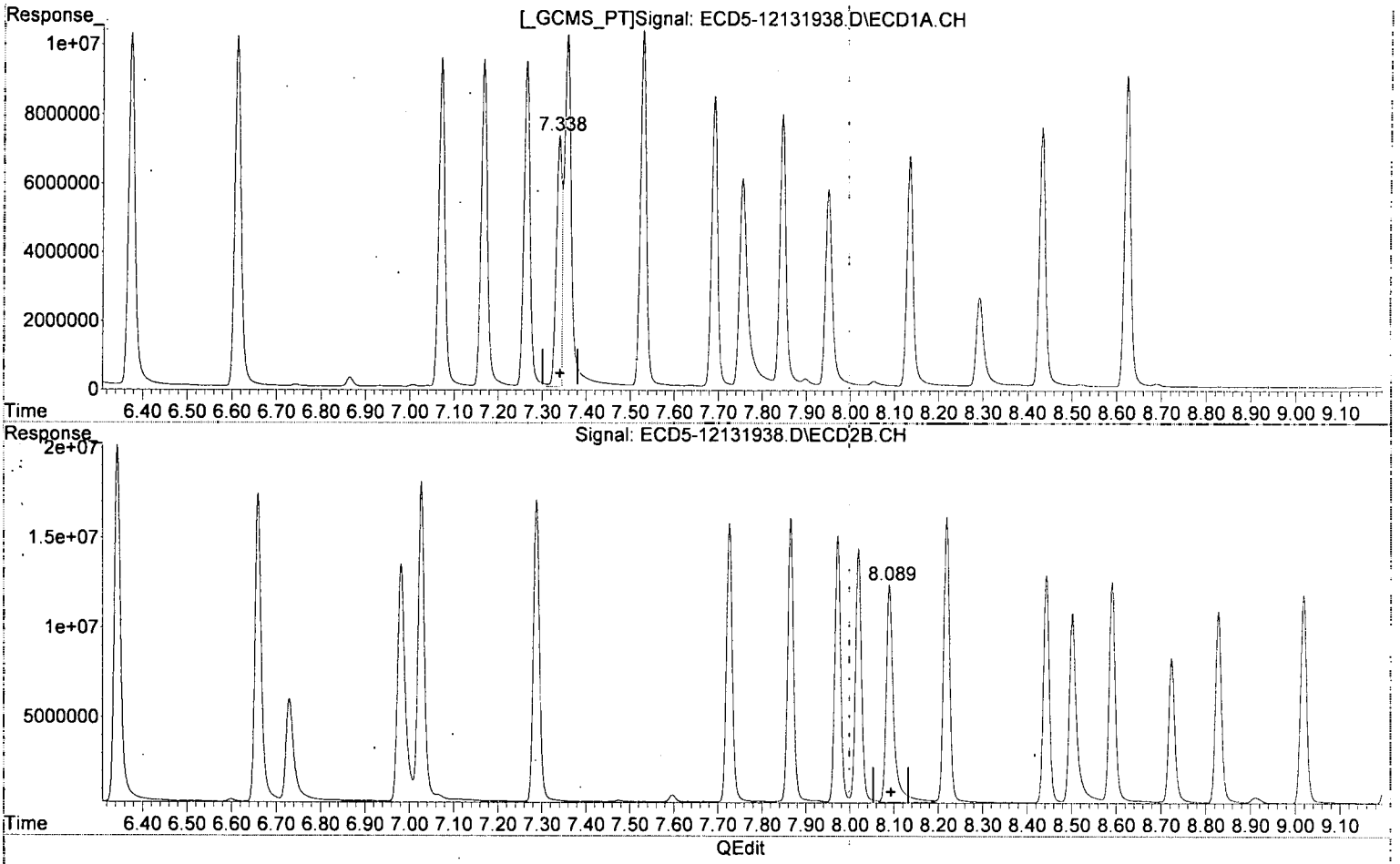
response 12116087

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 22:34
Operator : MJB
Sample : 9L13033-CCV5
Misc : A19K133, 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: Dec 16 10:44:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.338min 38.955 ng/mL (m)

response 7344233

MJB 12/16/19

(12) 4,4'-DDE #2

8.089min 38.999 ng/mL

response 12116087

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 22:34
Operator : MJB
Sample : 9L13033-CCV5
Misc : A19K133, 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: Dec 16 10:44:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/16/19

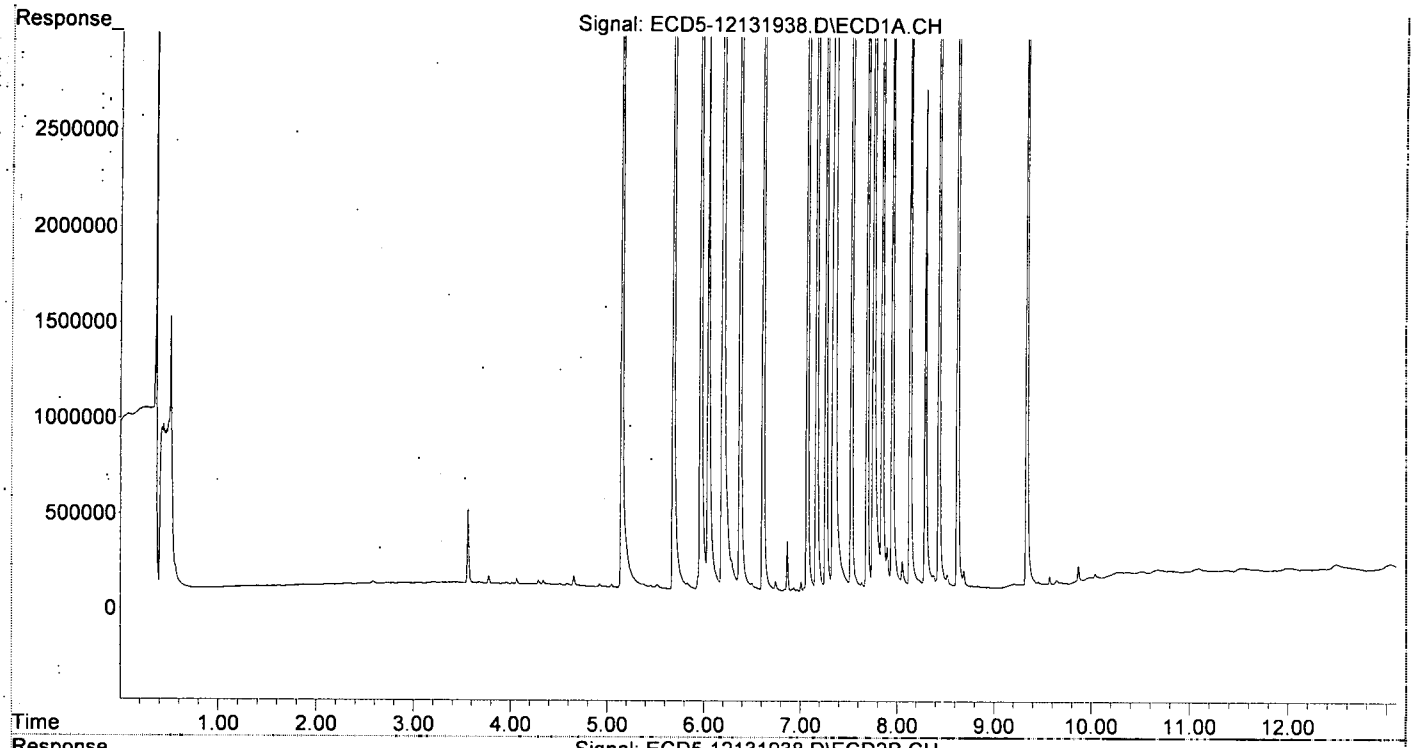
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.152	5.739	7823793	11837535	47.138	40.351	
22)	S	DCBP (S)	9.336	10.238	6653635	9762351	47.156	54.307	
		Target Compounds							
2)		a-BHC	5.685	6.344	11957869	19867420	52.143	48.417	
3)		g-BHC	5.966	6.660	10017992	17193681	49.649	48.202	
4)		b-BHC	6.046	6.730	2924241	5751274	32.354	36.339	
5)		Heptachlor	6.375	7.027	10120869	17817475	55.825	58.231	
6)		d-BHC	6.194	6.981	6110610	13253171	31.067	37.580	
7)		Aldrin	6.613	7.288	10079622	16795653	51.050	50.990	
8)		Heptachlo...	7.071	7.726	9459758	15561016	51.362	51.724	
9)		trans-Chl...	7.167	7.865	9346077	15834243	50.549	50.536	
10)		cis-Chlor...	7.264	7.973	9384539	14840155	51.543	50.954	
11)		Endosulfa...	7.355	8.019	10192721	14153699	59.894	51.435	
12)		4,4'-DDE	7.355	8.089	10192721	12116087	54.064	38.999	
13)		Dieldrin	7.529	8.219	10330505	15899284	53.811	52.274	
14)		Endrin	7.691	8.444	8442026	12708950	57.418	56.277	
15)		4,4'-DDD	7.756	8.502	5991184	10545659	38.126	41.160	
16)		Endosulfa...	7.846	8.591	7912084	12349166	55.094	53.551	
17)		4,4'-DDT	7.950	8.724	5542241	8098102	46.355	43.554	
18)		Endrin Al...	8.134	8.828	6677645	10708420	54.328	54.262	
19)		Endosulfa...	8.433	9.018	7524742	11659530	48.554	46.809	
20)		Methoxychlor	8.293	9.205	2592254	3795611	44.256	42.908	
21)		Endrin Ke...	8.624	9.410	9046227	13288434	54.247	51.642	
23)		Hexachlor...	2.953	3.472f	9673	27729	0.053	0.074	
24)		Hexachlor...	5.519	0.000	20893	0	0.119	N.D.	#
25)		Oxychlordane	7.008	7.674	49900	10659	0.303	0.039	#
26)		2,4'-DDE	7.071	7.865	9459758	15834243	73.754	74.641	
27)		trans-Non...	7.264	7.922	9384539	74673	52.095	0.248	#
28)		2,4'-DDD	0.000	8.219f	0	15899284	N.D.	84.184	#
29)		2,4'-DDT	7.636	8.444	42069	12708950	0.384	71.263	#
30)		cis-Nonac...	7.756f	8.502	5991184	10545659	28.857	31.437	
31)		Mirex	0.000	9.410	0	13288434	N.D.	71.415	#
32)		Chlordane...	7.264f	7.922	9384539	74673	476.624	2.064	#
33)		Chlordane...	7.355f	8.019f	10192721	14153699	406.663	466.133	
34)		Chlordane...	7.846	8.724f	7912084	8098102	1368.607	903.213	
35)		Chlordane...	3.470	3.415	10893	18126	NoCal	NoCal	
36)		Toxaphene...	7.264f	0.000	9384539	0	10477.939	N.D.	#
37)		Toxaphene...	0.000	8.591f	0	12349166	N.D.	3752.377	#
38)		Toxaphene...	0.000	8.648	0	108400	N.D.	21.388	#
39)		Toxaphene...	8.134	8.724	6677645	8098102	2060.905	969.852	#
40)		Toxaphene...	0.000	8.912	0	303900	N.D.	65.210	#
41)		Toxaphene...	8.433	9.290f	7524742	22459	2377.799	4.728	#
42)		Toxaphene...	3.470	3.415f	10893	18126	NoCal	NoCal	

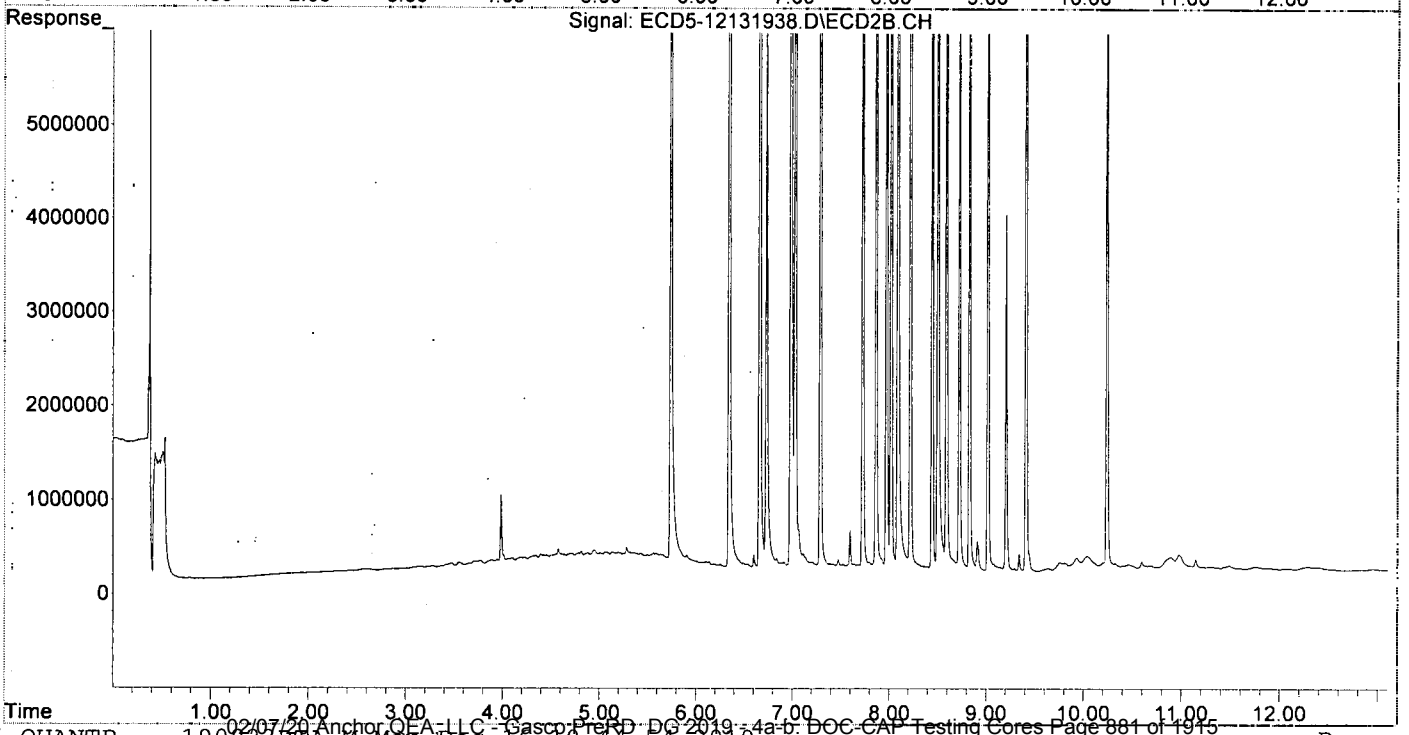
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 22:34
Operator : MJB
Sample : 9L13033-CCV5
Misc : A19K133, 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: Dec 16 10:44:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 22:51
Operator : MJB
Sample : 9L13033-CCV6
Misc : A19J408, 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: Dec 16 10:44:59 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

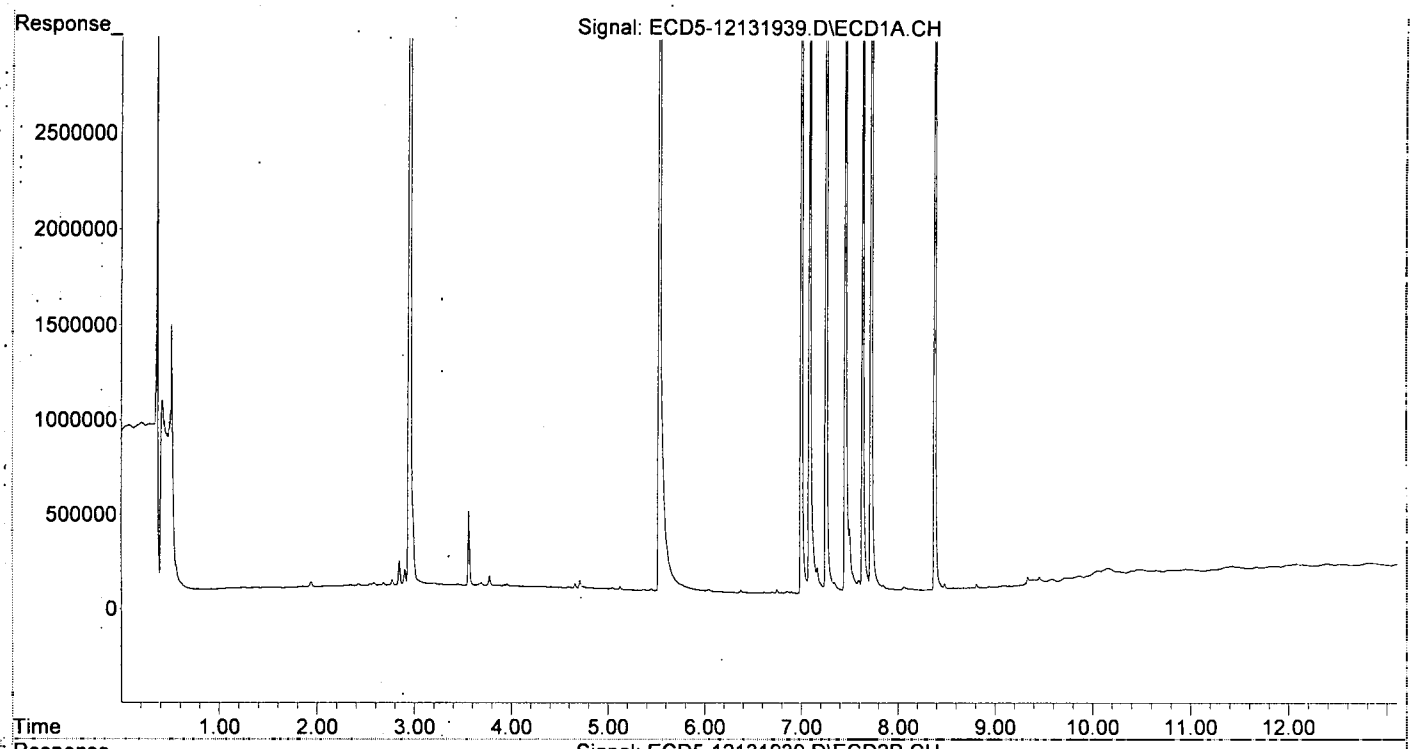
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.125f	5.753	17670	9681	0.106	0.033	#
22)	S DCBP (S)	9.339	10.239	45055	37779	0.319	0.210	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	6.695f	0	11960	N.D.	0.034	#
4)	b-BHC	6.040	6.695f	12780	11960	0.141	0.076	#
5)	Heptachlor	6.375	7.026	13590	17545	0.075	0.057	
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)	Aldrin	6.619	7.286	3445	11125	0.017	0.034	#
8)	Heptachlo...	7.087	7.764f	4813515	81085	26.135	0.270	#
9)	trans-Chl...	7.166	7.866	132061	8642918	0.714	27.584	#
10)	cis-Chlor...	7.258	0.000	9047022	0	49.689	N.D.	#
11)	Endosulfa...	0.000	8.037	0	65641	N.D.	0.239	#
12)	4,4'-DDE	0.000	8.132f	0	34668	N.D.	0.112	#
13)	Dieldrin	0.000	8.237	0	7451838	N.D.	24.501	#
14)	Endrin	7.724f	8.457	10017016	7861907	68.130	34.814	#
15)	4,4'-DDD	7.724f	8.491	10017016	16470663	63.746	64.285	
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...	8.144	0.000	8744	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...	8.631	9.395	4355	9209681	0.026	35.791	#
23)	Hexachlor...	2.950	3.446	9836774	20988777	53.830	55.831	
24)	Hexachlor...	5.531	6.203	7910273	12340111	44.870	39.289	
25)	Oxychlordane	7.002	7.655	7826025	12726405	47.564	46.463	
26)	2,4'-DDE	7.087	7.866	4813515	8642918	37.529	40.742	
27)	trans-Non...	7.258	7.929	9047022	14840767	50.209	49.201	
28)	2,4'-DDD	7.457	8.237	4176800	7451838	36.598	39.456	
29)	2,4'-DDT	7.637	8.457	4963279	7861907	45.249	44.084	
30)	cis-Nonac...	7.724	8.491	10017016	16470663	48.248	49.100	
31)	Mirex	8.382	9.395	6077183	9209681	48.475	49.495	
32)	Chlordane...	7.258f	7.929	9047022	14840767	459.482	410.141	
33)	Chlordane...	0.000	8.037	0	65641	N.D.	2.162	#
34)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
35)	Chlordane...	3.446	3.446	5847	20988777	NoCal	NoCal	
36)	Toxaphene...	0.000	8.237f	0	7451838	N.D.	2839.598	#
37)	Toxaphene...	0.000	8.656f	0	31292	N.D.	9.508	#
38)	Toxaphene...	0.000	8.656	0	31292	N.D.	6.174	#
39)	Toxaphene...	8.144	0.000	8744	0	2.699	N.D.	#
40)	Toxaphene...	8.382	0.000	6077183	0	2535.178	N.D.	#
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)	Toxaphene...	3.446	3.446	5847	20988777	NoCal	NoCal	

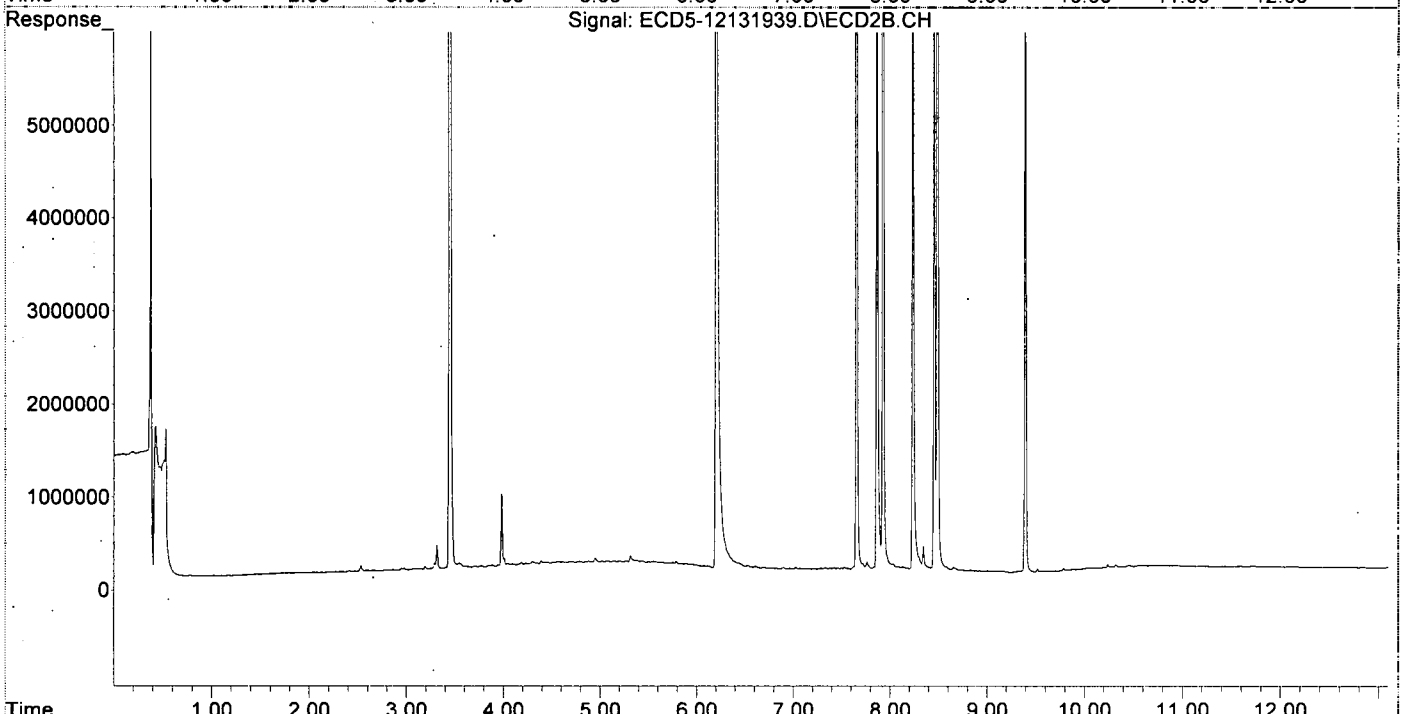
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 22:51
Operator : MJB
Sample : 9L13033-CCV6
Misc : A19J408, 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: Dec 16 10:44:59 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 23:08
Operator : MJB
Sample : 9L13033-CCB3
Misc : A19L018
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: Dec 16 10:45:06 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/16/19

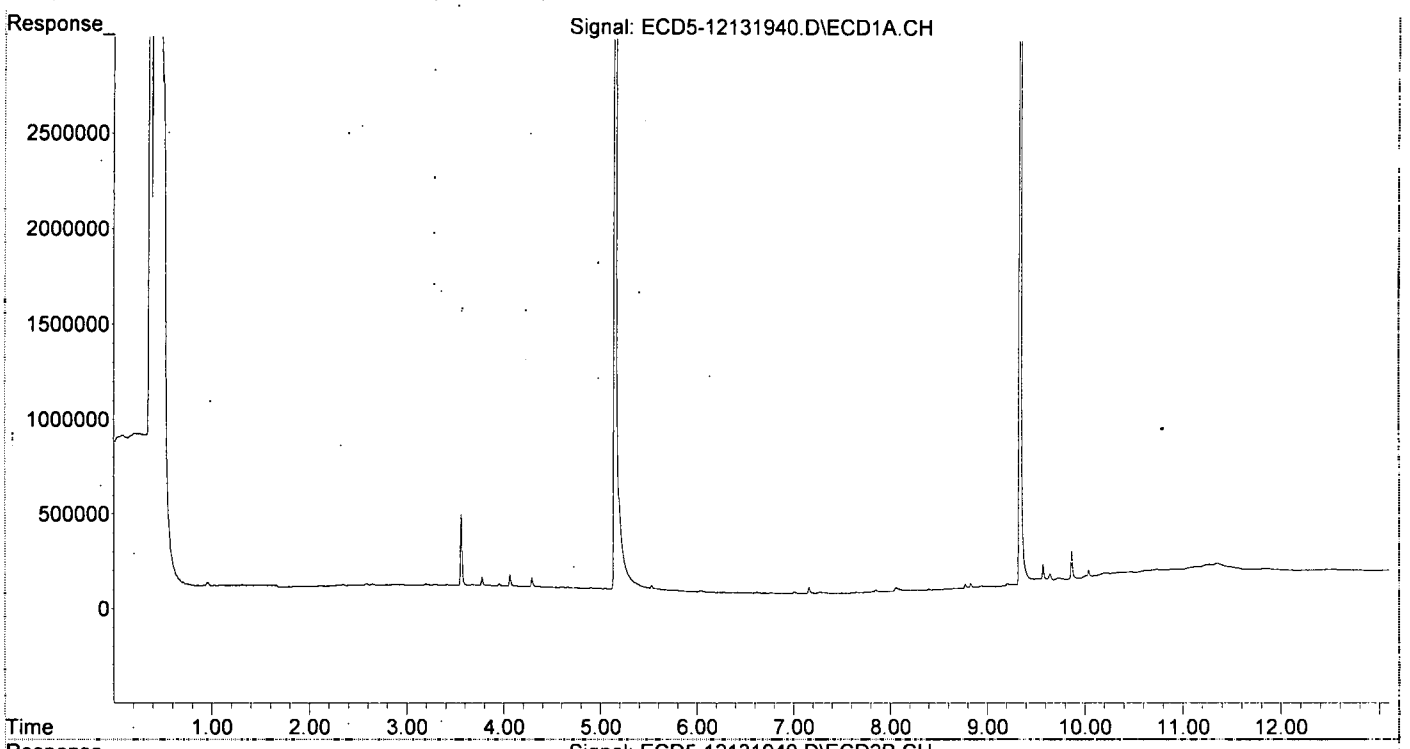
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.151	5.737	16346954	27672217	98.490	94.326	
22)	S	DCBP (S)	9.337	10.239	14071960	20646124	99.731	114.852	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	6.697f	0	18673	N.D.	0.052	#
4)		b-BHC	6.042	6.697f	7433	18673	0.082	0.118	#
5)		Heptachlor	0.000	7.006f	0	11582	N.D.	0.038	#
6)		d-BHC	0.000	7.006f	0	11582	N.D.	0.033	#
7)		Aldrin	6.618	7.270f	4558	7404	0.023	0.022	
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.159	7.903f	33435	12332	0.181	0.039	#
10)		cis-Chlor...	7.271	0.000	5658	0	0.031	N.D.	#
11)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)		4,4'-DDE	7.314f	0.000	4015	0	0.021	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	7.770	0.000	1601	0	0.010	N.D.	#
16)		Endosulfa...	7.849	8.584	11090	10002	0.077	0.043	#
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.136	0.000	4979	0	BelowCal	N.D.	
19)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20)		Methoxychlor	8.289	0.000	2762	0	0.047	N.D.	#
21)		Endrin Ke...	8.652f	0.000	1812	0	0.011	N.D.	#
23)		Hexachlor...	2.952	3.474f	9172	25945	0.050	0.069	
24)		Hexachlor...	5.530	0.000	27058	0	0.153	N.D.	#
25)		Oxychlordane	7.007	7.674	8209	9800	0.050	0.036	
26)		2,4'-DDE	0.000	7.838f	0	9727	N.D.	0.046	#
27)		trans-Non...	7.271	7.919	5658	10718	87346.669	0.036	#
28)		2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)		2,4'-DDT	7.649	0.000	2847	0	0.026	N.D.	#
30)		cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.	
31)		Mirex	8.396	0.000	5458	0	0.044	N.D.	#
32)		Chlordane...	0.000	7.919	0	10718	N.D.	0.296	#
33)		Chlordane...	7.314	0.000	4015	0	0.160	N.D.	#
34)		Chlordane...	7.849	0.000	11090	0	1.918	N.D.	#
35)		Chlordane...	0.000	3.412f	0	21857	N.D.	NoCal	
36)		Toxaphene...	7.314	0.000	4015	0	4.483	N.D.	#
37)		Toxaphene...	0.000	8.584f	0	10002	N.D.	3.039	#
38)		Toxaphene...	0.000	8.657	0	29437	N.D.	5.808	#
39)		Toxaphene...	8.136	0.000	4979	0	1.537	N.D.	#
40)		Toxaphene...	8.396f	0.000	5458	0	2.277	N.D.	#
41)		Toxaphene...	8.396f	9.270	5458	8214	1.725	1.729	
42)		Toxaphene...	0.000	3.412f	0	21857	N.D.	NoCal	

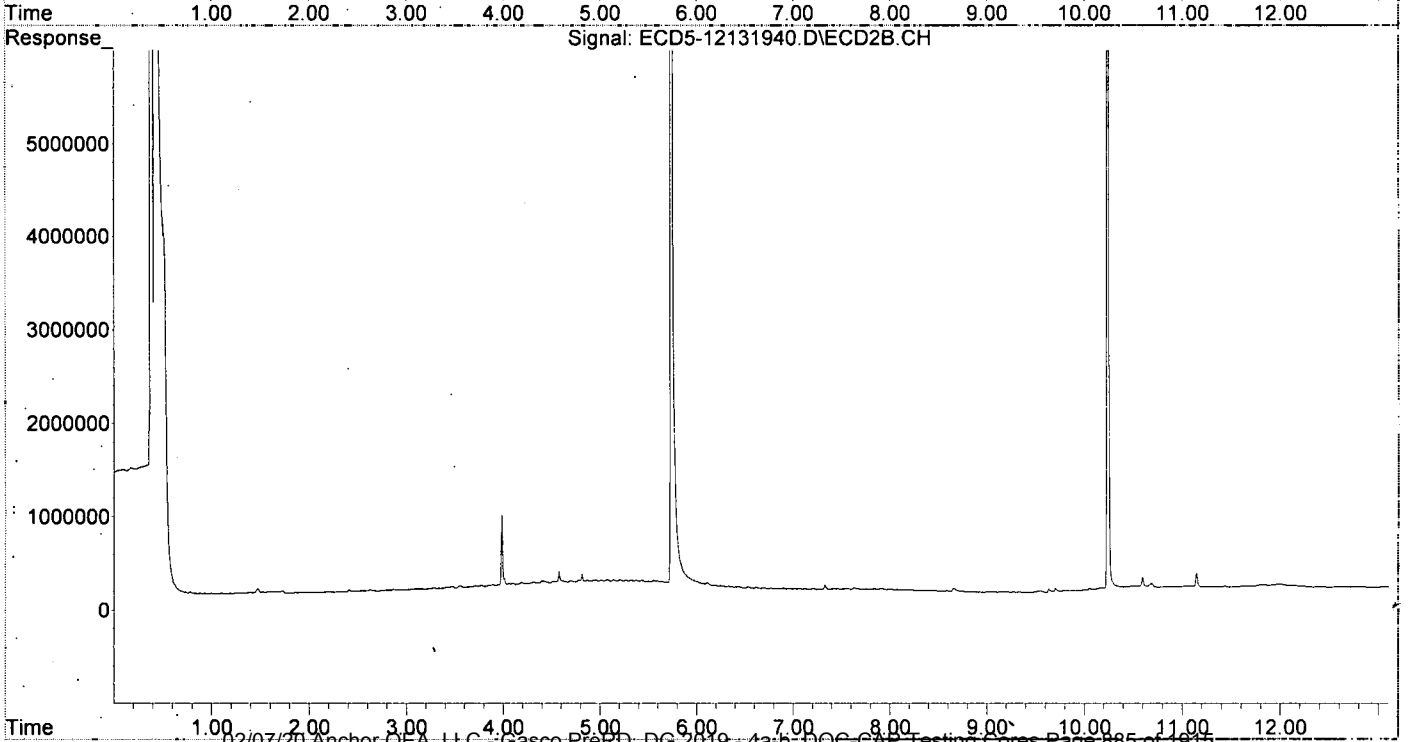
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\
Data File : ECD5-12131940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Dec 2019 23:08
Operator : MJB
Sample : 9L13033-CCB3
Misc : A19L018
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: Dec 16 10:45:06 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823RTA.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
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
Benchsheet & Analysis Sequence Data

Batch 9121314
Sequence 0A04013 (A9J0514-28RE1,29RE1,30RE1,31RE1,32RE1,33RE1, 34RE1,36RE1,37RE1)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9121314 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	9121314-BLK1		QC	12/17/19 14:31	11	10				100					
	9121314-BS1		QC	12/17/19 14:31	10	10	A19I221		100	100					
	A9J0514-28RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43	20				100	PDI-066SC-B-00 -02-191011	MDL. Use Custom Spike.			
	A9J0514-29RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.25	20				100	PDI-066SC-B-02 -04-191011	MDL. Use Custom Spike.			
	A9J0514-30RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43	20				100	PDI-066SC-B-04 -06-191011	MDL. Use Custom Spike.			
	A9J0514-31RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.19	10				100	PDI-066SC-B-06 -08-191011	MDL. Use Custom Spike.			
	A9J0514-32RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.25	10				100	PDI-088SC-B-00 -02-191011	MDL. Use Custom Spike.			
	A9J0514-33RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.63	10				100	PDI-088SC-B-02 -04-191011	MDL. Use Custom Spike.			
	A9J0514-33RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.63	10				100	PDI-088SC-B-02 -04-191011	Added 1/6/2020 By MJB			
	A9J0514-34RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.38	10				100	PDI-088SC-B-04 -06-191011	MDL. Use Custom Spike.			
	A9J0514-35RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.11	10				100	PDI-088SC-B-06 -08-191011	MDL. Use Custom Spike.			
	A9J0514-36RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.36	10				100	PDI-1088SC-B-0 4-06-191011	MDL. Use Custom Spike.			
	A9J0514-37RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.71	10				100	PDI-092SC-B-00 -02-191011	MDL. Use Custom Spike.			
	A9J0514-38RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.1	10				100	PDI-092SC-B-02 -04-191011	MDL. Use Custom Spike.			
	A9J0514-39RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.1	10				100	PDI-092SC-B-04 -06-191011	MDL. Use Custom Spike.			
	A9J0514-40RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.3	20				100	PDI-092SC-B-06 -08-191011	MDL. Use Custom Spike.			
	A9J0514-40RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.3	10				100	PDI-092SC-B-06 -08-191011	Added 1/8/2020 By MJB			
	A9J0553-39RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.9	10				100	PDI-074SC-B-00 -02-191012	MDL. Use Custom Spike.			
	A9J0553-39RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.9	10				100	PDI-074SC-B-00 -02-191012	Added 1/8/2020 By MJB			

Prepared By: Date

MJB 1/10/20

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9121314 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	A9J0553-40RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.08	10				100	PDI-074SC-B-02 -04-191012	MDL. Use Custom Spike.			
	A9J0553-40RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.08	20				100	PDI-074SC-B-02 -04-191012	Added 1/8/2020 By MJB			
	A9J0553-41RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.32	10				100	PDI-074SC-B-04 -06-191012	MDL. Use Custom Spike.			
	A9J0553-41RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.32	10				100	PDI-074SC-B-04 -06-191012	Added 1/8/2020 By MJB			
	A9J0553-42RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.86	10				100	PDI-074SC-B-06 -08-191012	MDL. Use Custom Spike.			
	A9J0553-43RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.31	10				100	PDI-086SC-B-00 -02-191012	MDL. Use Custom Spike.			
	A9J0553-44RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.15	10				100	PDI-086SC-B-02 -04-191012	MDL. Use Custom Spike.			
	A9J0553-44RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.15	10				100	PDI-086SC-B-02 -04-191012	Added 1/6/2020 By MJB			
	A9J0553-45RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43	10				100	PDI-086SC-B-04 -06-191012	MS/MSD this sample, MDL. Use Custom Spike.			
	9121314-MS1		QC	12/17/19 14:31	10.22	10	A19I221	A9J0553-45RE1	100	100					
	9121314-MSD1		QC	12/17/19 14:31	10.17	10	A19I221	A9J0553-45RE1	100	100					

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A19H411	08/31/21	n-Hexane Lot# 192712
A19I263	03/18/20	DCM CHEM PROD. 194934

Analyte Spike(s)

Std ID	Exp. Date	Description
A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

From 9121021 on 12/26/2019 by jgc

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9121314 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	9121314-BLK1		QC	12/17/19 14:31	11	10				100					
	9121314-BS1		QC	12/17/19 14:31	10	10	A19I221		100	100					
	A9J0514-28RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43	20				100	PDI-066SC-B-00 -02-191011	MDL. Use Custom Spike.			
	A9J0514-29RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.25	20				100	PDI-066SC-B-02 -04-191011	MDL. Use Custom Spike.			
	A9J0514-30RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43	20				100	PDI-066SC-B-04 -06-191011	MDL. Use Custom Spike.			
	A9J0514-31RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.19	10				100	PDI-066SC-B-06 -08-191011	MDL. Use Custom Spike.			
	A9J0514-32RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.25	10				100	PDI-088SC-B-00 -02-191011	MDL. Use Custom Spike.			
	A9J0514-33RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.63	10				100	PDI-088SC-B-02 -04-191011	MDL. Use Custom Spike.			
	A9J0514-33RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.63	10				100	PDI-088SC-B-02 -04-191011	Added 1/6/2020 By MJB			
	A9J0514-34RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.38	10				100	PDI-088SC-B-04 -06-191011	MDL. Use Custom Spike.			
	A9J0514-35RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.11	10				100	PDI-088SC-B-06 -08-191011	MDL. Use Custom Spike.			
	A9J0514-36RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.36	10				100	PDI-1088SC-B-0 4-06-191011	MDL. Use Custom Spike.			
	A9J0514-37RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.71	10				100	PDI-092SC-B-00 -02-191011	MDL. Use Custom Spike.			
	A9J0514-38RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.1	10				100	PDI-092SC-B-02 -04-191011	MDL. Use Custom Spike.			
	A9J0514-39RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.1	10				100	PDI-092SC-B-04 -06-191011	MDL. Use Custom Spike.			
	A9J0514-40RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.3	20				100	PDI-092SC-B-06 -08-191011	MDL. Use Custom Spike.			
	A9J0514-40RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.3	5/10				100	PDI-092SC-B-06 -08-191011	Added 1/8/2020 By MJB 1mL 2mL			
	A9J0553-39RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.9	10				100	PDI-074SC-B-00 -02-191012	MDL. Use Custom Spike.			
	A9J0553-39RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.9	5/10				100	PDI-074SC-B-00 -02-191012	Added 1/8/2020 By MJB 1mL 2mL			

In | Out

Prepared By: Date

MJB 1/10/20

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9121314 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments (In / Out)	pH <2	pH Other	pH >11
	A9J0553-40RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.08	10				100	PDI-074SC-B-02 -04-191012	MDL. Use Custom Spike.			
	A9J0553-40RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.08	5/20				100	PDI-074SC-B-02 -04-191012	Added 1/8/2020 By MJB 0.5 / 2mL			
	A9J0553-41RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.32	10				100	PDI-074SC-B-04 -06-191012	MDL. Use Custom Spike.			
	A9J0553-41RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.32	5/10				100	PDI-074SC-B-04 -06-191012	Added 1/8/2020 By MJB 1 mL / 2mL			
	A9J0553-42RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.86	10				100	PDI-074SC-B-06 -08-191012	MDL. Use Custom Spike.			
	A9J0553-43RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.31	10				100	PDI-086SC-B-00 -02-191012	MDL. Use Custom Spike.			
	A9J0553-44RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.15	10				100	PDI-086SC-B-02 -04-191012	MDL. Use Custom Spike.			
	A9J0553-44RE2	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.15	10				100	PDI-086SC-B-02 -04-191012	Added 1/6/2020 By MJB			
	A9J0553-45RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43	10				100	PDI-086SC-B-04 -06-191012	MS/MSD this sample, MDL. Use Custom Spike.			
	9121314-MS1		QC	12/17/19 14:31	10.22	10	A19I221	A9J0553-45RE1	100	100					
	9121314-MSD1		QC	12/17/19 14:31	10.17	10	A19I221	A9J0553-45RE1	100	100					

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A19H411	08/31/21	n-Hexane Lot# 192712
A19I263	03/18/20	DCM CHEM PROD. 194934

Analyte Spike(s)

Std ID	Exp. Date	Description
A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

From 9121021 on 12/26/2019 by jgc

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9121021 (Sediment)

Prep Method: EPA 3546

in / Out

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	9121021-BLK1		QC	12/17/19 14:31	11	5				100					
	9121021-BS1		QC	12/17/19 14:31	10	5	A19I221		100	100					
	A9J0514-28	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43	5				100	PDI-066SC-B-00 -02-191011	MDL. Use Custom Spike.			
	A9J0514-29	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.25	5				100	PDI-066SC-B-02 -04-191011	MDL. Use Custom Spike.			
	A9J0514-30	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43	5				100	PDI-066SC-B-04 -06-191011	MDL. Use Custom Spike.			
	A9J0514-31	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.19	5				100	PDI-066SC-B-06 -08-191011	MDL. Use Custom Spike.			
	A9J0514-32	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.25	5				100	PDI-088SC-B-00 -02-191011	MDL. Use Custom Spike.			
	A9J0514-33	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.63	5				100	PDI-088SC-B-02 -04-191011	MDL. Use Custom Spike.			
	A9J0514-34	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.38	5				100	PDI-088SC-B-04 -06-191011	MDL. Use Custom Spike.			
	A9J0514-35	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.11	5				100	PDI-088SC-B-06 -08-191011	MDL. Use Custom Spike.			
	A9J0514-36	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.36	5				100	PDI-1088SC-B-0 4-06-191011	MDL. Use Custom Spike.			
	A9J0514-37	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.71	5				100	PDI-092SC-B-00 -02-191011	MDL. Use Custom Spike.			
	A9J0514-38	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.1	5				100	PDI-092SC-B-02 -04-191011	MDL. Use Custom Spike.			
	A9J0514-39	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.1	5				100	PDI-092SC-B-04 -06-191011	MDL. Use Custom Spike.			
	A9J0514-40	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.3	5				100	PDI-092SC-B-06 -08-191011	MDL. Use Custom Spike.			
6	~~A9J0514-40RE3~~	~~A~~	~~8081B 2,4+4,4-DDx Only (+Add)~~	~~12/17/19 14:31~~	~~10.3~~	~~5~~ 10				~~100~~	~~PDI-092SC-B-06 -08-191011~~	~~MDL. Use Custom Spike.~~ 1mL 2mL			
	A9J0553-39	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.9	5				100	PDI-074SC-B-00 -02-191012	MDL. Use Custom Spike.			
7	~~A9J0553-39RE3~~	~~A~~	~~8081B 2,4+4,4-DDx Only (+Add)~~	~~12/17/19 14:31~~	~~10.9~~	~~5~~ 10				~~100~~	~~PDI-074SC-B-00 -02-191012~~	~~MDL. Use Custom Spike.~~ 1mL 2mL			
	A9J0553-40	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.08	5				100	PDI-074SC-B-02 -04-191012	MDL. Use Custom Spike.			

Prepared By: JAG — Date: 1/8/20 (1/9/2020)

Reviewed By: CAS — Date: 01/09/2020

Printed: 1/8/2020 2:23:20PM

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9121021 (Sediment)

Prep Method: EPA 3546

in / out

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH other	pH >11
8	~~A9J0553-40RE3~~	~~A~~	~~8081B 2,4+4,4-DDx Only (+Add)~~	~~12/17/19 14:31~~	~~10.08~~	~~5~~ 20				~~100~~	~~PDI-074SC-B-02-04-191012~~	~~MDL. Use Custom Spike.~~ 0.5mL 2mL			
	A9J0553-41	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.32	5				100	PDI-074SC-B-04-06-191012	MDL. Use Custom Spike.			
9	~~A9J0553-41RE3~~	~~A~~	~~8081B 2,4+4,4-DDx Only (+Add)~~	~~12/17/19 14:31~~	~~10.32~~	~~5~~ 10				~~100~~	~~PDI-074SC-B-04-06-191012~~	~~MDL. Use Custom Spike.~~ 1mL 2mL			
	A9J0553-42	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.86	5				100	PDI-074SC-B-06-08-191012	MDL. Use Custom Spike.			
	A9J0553-43	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.31	5				100	PDI-086SC-B-00-02-191012	MDL. Use Custom Spike.			
	A9J0553-44	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.15	5				100	PDI-086SC-B-02-04-191012	MDL. Use Custom Spike.			
	A9J0553-45	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43	5				100	PDI-086SC-B-04-06-191012	MS/MSD this sample, MDL. Use Custom Spike.			
	9121021-MS1		QC	12/17/19 14:31	10.22	5	A19I221	A9J0553-45	100	100					
	9121021-MSD1		QC	12/17/19 14:31	10.17	5	A19I221	A9J0553-45	100	100					

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A19L091	06/02/22	Sodium Sulfate Lot # 196883

Analyte Spike(s)

Std ID	Exp. Date	Description
A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

⚠ RE3's removed and put in GPC Batch 9121314 as RE2's.
MJB 1/10/20.

Prepared By: JAM Date 1/9/2020

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9121314 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments (In / Out)	pH <2	pH Other	pH >11
3	9121314-BLK1		QC	12/17/19 14:31	11	5 10				100		1mL / 2mL			
4	9121314-BS1		QC	12/17/19 14:31	10	5 10	A191221		100	100		1mL / 2mL			
5	A9J0514-28RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43	5 10 20 10				100	PDI-066SC-B-00-02-191011	MDL. Use Custom Spike. 0.5mL / 2mL			$
6	A9J0514-29RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.25 JC	5 10 20 10				100	PDI-066SC-B-02-04-191011	MDL. Use Custom Spike. 0.5mL / 2mL			$
7	A9J0514-30RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43 12/27/19	5 10 20 10				100	PDI-066SC-B-04-06-191011	MDL. Use Custom Spike. 0.5mL / 2mL			$
8	A9J0514-31RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.19	5 10				100	PDI-066SC-B-06-08-191011	MDL. Use Custom Spike. 1mL / 2mL			$
9	A9J0514-32RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.25	5 10				100	PDI-088SC-B-00-02-191011	MDL. Use Custom Spike. 1mL / 2mL			
10	A9J0514-33RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.63	5 10				100	PDI-088SC-B-02-04-191011	MDL. Use Custom Spike. 1mL / 2mL			
11	A9J0514-34RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.38	5 10				100	PDI-088SC-B-04-06-191011	MDL. Use Custom Spike. 1mL / 2mL			
12	A9J0514-35RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.11	5 10				100	PDI-088SC-B-06-08-191011	MDL. Use Custom Spike. 1mL / 2mL			
13	A9J0514-36RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.36	5 10				100	PDI-1088SC-B-04-06-191011	MDL. Use Custom Spike. 1mL / 2mL			
14	A9J0514-37RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.71	5 10				100	PDI-092SC-B-00-02-191011	MDL. Use Custom Spike. 1mL / 2mL			
15	A9J0514-38RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.1	5 10				100	PDI-092SC-B-02-04-191011	MDL. Use Custom Spike. 1mL / 2mL			
16	A9J0514-39RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.1	5 10				100	PDI-092SC-B-04-06-191011	MDL. Use Custom Spike. 1mL / 2mL			
17	A9J0514-40RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.3 JC 12/27/19	5 10 20 10				100	PDI-092SC-B-06-08-191011	MDL. Use Custom Spike. 0.5mL / 2mL			
18	A9J0553-39RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.9	5 10				100	PDI-074SC-B-00-02-191012	MDL. Use Custom Spike. 1mL / 2mL			
19	A9J0553-40RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.08	5 10				100	PDI-074SC-B-02-04-191012	MDL. Use Custom Spike. 1mL / 2mL			
20	A9J0553-41RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.32	5 10				100	PDI-074SC-B-04-06-191012	MDL. Use Custom Spike. 1mL / 2mL	$		
21	A9J0553-42RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.86	5 10				100	PDI-074SC-B-06-08-191012	MDL. Use Custom Spike. 1mL / 2mL			

JC 12/26/19
Prepared By: Date

CGS 12/27/19
Reviewed By: Date

AW 12-27-19
CAH 12-27-19

Printed: 12/26/2019 10:11:40AM

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9121314 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments (In / Out)	pH <2	pH Other	pH >11
22	A9J0553-43RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.31	5/10				100	PDI-086SC-B-00-02-191012	MDL. Use Custom Spike. 1mL / 2mL			
23	A9J0553-44RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.15	5/10				100	PDI-086SC-B-02-04-191012	MDL. Use Custom Spike. 1mL / 2mL			
24	A9J0553-45RE1	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43	5/10				100	PDI-086SC-B-04-06-191012	MS/MSD this sample, MDL. Use Custom Spike. 1mL / 2mL			
25	9121314-MS1		QC	12/17/19 14:31	10.22	5/10	A19I221	A9J0553-45RE1	100	100		1mL / 2mL			
26	9121314-MSD1		QC	12/17/19 14:31	10.17	5/10	A19I221	A9J0553-45RE1	100	100		1mL / 2mL			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A19H411	08/31/21	n-Hexane Lot# 192712
A19I263	03/18/20	DCM CHEM PROD. 194934

Analyte Spike(s)

Std ID	Exp. Date	Description
A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

From 9121021 on 12/26/2019 by jgc

S=staining on turbovap tube during exchange. AG 12/27/19

Prepared By: Date

Reviewed By: Date

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

12/17

BATCH #: 9121021 (Soil) Sediment

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
1	9121021-BLK1		QC	12/17/19 14:31	10 11.00	5 ✓				100					
2	9121021-BS1		QC	12/17/19 14:31	10	5 ✓	A191221		100	100					
3	A9J0514-28	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.43	5 ✓				100	PDI-066SC-B-00 -02-191011	MDL. Use Custom Spike. mud			
4	A9J0514-29	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.25	5 ✓				100	PDI-066SC-B-02 -04-191011	MDL. Use Custom Spike. mud			
5	A9J0514-30	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.43	5 ✓				100	PDI-066SC-B-04 -06-191011	MDL. Use Custom Spike. mud			
6	A9J0514-31	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.19	5 ✓				100	PDI-066SC-B-06 -08-191011	MDL. Use Custom Spike. mud			
7	A9J0514-32	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.25	5 ✓				100	PDI-088SC-B-00 -02-191011	MDL. Use Custom Spike. mud			
8	A9J0514-33	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.63	5 ✓				100	PDI-088SC-B-02 -04-191011	MDL. Use Custom Spike. mud			
9	A9J0514-34	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.38	5 ✓				100	PDI-088SC-B-04 -06-191011	MDL. Use Custom Spike. mud			
10	A9J0514-35	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.11	5 ✓				100	PDI-088SC-B-06 -08-191011	MDL. Use Custom Spike. mud			
11	A9J0514-36	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.36	5 ✓				100	PDI-1088SC-B-0 4-06-191011	MDL. Use Custom Spike. mud			
12	A9J0514-37	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.71	5 ✓				100	PDI-092SC-B-00 -02-191011	MDL. Use Custom Spike. mud			
13	A9J0514-38	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.10	5 ✓				100	PDI-092SC-B-02 -04-191011	MDL. Use Custom Spike. mud			
14	A9J0514-39	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.10	5 ✓				100	PDI-092SC-B-04 -06-191011	MDL. Use Custom Spike. mud			
15	A9J0514-40	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.30	5 ✓				100	PDI-092SC-B-06 -08-191011	MDL. Use Custom Spike. mud			
16	A9J0553-39	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.90	5 ✓				100	PDI-074SC-B-00 -02-191012	MDL. Use Custom Spike. mud			
17	A9J0553-40	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.08	5 ✓				100	PDI-074SC-B-02 -04-191012	MDL. Use Custom Spike. mud			
18	A9J0553-41	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.32	5 ✓				100	PDI-074SC-B-04 -06-191012	MDL. Use Custom Spike. Sand dirt			
19	A9J0553-42	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10 10.80	5 ✓				100	PDI-074SC-B-06 -08-191012	MDL. Use Custom Spike. mud			

Prepared By: [signature] Date: 12-17-19

Reviewed By: [signature] Date: 12/17/19

12-17-19

Printed: 12/17/2019 2:31:47PM

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9121021 (Soil)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
20	A9J0553-43	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.31	5 ✓				100	PDI-086SC-B-00 -02-191012	MDL. Use Custom Spike. MJC			
21	A9J0553-44	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.15	5 ✓				100	PDI-086SC-B-02 -04-191012	MDL. Use Custom Spike. MJC			
22	A9J0553-45	A	8081B 2,4+4,4-DDx Only (+Add)	12/17/19 14:31	10.43	5 ✓				100	PDI-086SC-B-04 -06-191012	MS/MSD this sample, MDL. Use Custom Spike. MJC			
23	9121021-MS1		QC	12/17/19 14:31	10.22	5 ✓	A19I221	A9J0553-45	100	100					
24	9121021-MSD1		QC	12/17/19 14:31	10.17	5 ✓	A19I221	A9J0553-45	100	100					

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A19L091	06/02/22	Sodium Sulfate Lot # 196883

Analyte Spike(s)

Std ID	Exp. Date	Description
A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A19K319	05/07/20	8082 PCB Surrogate Spike

Method 3546 digestion time and temperture achieved.
Initial: CW

Witness: CAS 12/17/19

Prepared By: [signature] 12-17-19 Date

Reviewed By: Date

Printed: 12/17/2019 2:31:47PM

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0A04013** Instrument: **DUALECD5**

Date: **01/04/20 15:40** Calibration: **A9L1807**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A04013-BKD1	Sediment	QC	QC				A20A019
2	0A04013-CCV1	Sediment	QC	QC				A19K133
3	0A04013-CCV2	Sediment	QC	QC				A19J408
4	0A04013-CCB1	Sediment	QC	QC				A19L339
5	9121314-BLK1	Sediment	QC	QC		9121314		
6	9121314-BS1	Sediment	QC	QC		9121314		
7	A9J0514-32RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
8	0A04013-IBL1	Sediment	QC	QC				
9	A9J0514-33RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
10	0A04013-IBL2	Sediment	QC	QC				
11	A9J0514-34RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
12	0A04013-IBL3	Sediment	QC	QC				
13	A9J0514-36RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
14	0A04013-IBL4	Sediment	QC	QC				
15	A9J0553-43RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
16	0A04013-IBL5	Sediment	QC	QC				
17	A9J0553-44RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
18	0A04013-IBL6	Sediment	QC	QC				
19	0A04013-CCV3	Sediment	QC	QC				A19K134
20	0A04013-CCV4	Sediment	QC	QC				A19J409
21	0A04013-CCB2	Sediment	QC	QC				A19L339
22	A9J0553-45RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
23	0A04013-IBL7	Sediment	QC	QC				
24	9121314-MS1	Sediment	QC	QC		9121314		
25	0A04013-IBL8	Sediment	QC	QC				
26	9121314-MSD1	Sediment	QC	QC		9121314		
27	0A04013-IBL9	Sediment	QC	QC				
28	A9J0514-28RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
29	0A04013-IBLA	Sediment	QC	QC				
30	A9J0514-29RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
31	0A04013-IBLB	Sediment	QC	QC				
32	A9J0514-30RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
33	0A04013-IBLC	Sediment	QC	QC				
34	A9J0514-31RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
35	0A04013-IBLD	Sediment	QC	QC				
36	A9J0514-37RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
37	0A04013-IBLE	Sediment	QC	QC				
38	0A04013-CCV5	Sediment	QC	QC				A19K133
39	0A04013-CCV6	Sediment	QC	QC				A19J408
40	0A04013-CCB3	Sediment	QC	QC				A19L339
41	0A04013-IBLF	Sediment	QC	QC				
42	0A04013-IBLG	Sediment	QC	QC				

Data Entered By: MB 1/6/20

Data Reviewed By: MM 1/7/20

Comments:

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0A04013 BKD1
Data File: ECD5-01042003.D

First Column Area Counts		Percent Breakdown	
DDE	659803		
DDD	7130993		
DDT	136649983	**5.39**	**PASS**
Endrin	76956194	**11.61**	**PASS**
Endrin Aldehyde	2941456		
Endrin Ketone	7165589		

Second Column Area Counts		Percent Breakdown	
DDE	1054774		
DDD	11767711		
DDT	224293547	**5.41**	**PASS**
Endrin	124385425	**8.90**	**PASS**
Endrin Aldehyde	3004847		
Endrin Ketone	9150733		

Breakdown must be less than 15% to accept sample data.

MJB 1/6/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2020-01\0A04013\
Data File : ECD5-01042003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 16:26
Operator : MJB
Sample : 0A04013-BKD1
Misc : A20A019
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: Jan 04 16:43:36 2020
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_191217RT1.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
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	7.532	659803	NoCal	ng/mL
2)	Endrin	7.898	76956194	NoCal	ng/mL
3)	4,4'-DDD	7.953	7130993	NoCal	ng/mL
4)	4,4'-DDT	8.148	136649983	NoCal	ng/mL
5)	Endrin Aldehyde	8.346	2941456	NoCal	ng/mL
6)	Endrin Ketone	8.840	7165589	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.420	1054774	NoCal	ng/mL
9)	Endrin [2C]	8.798	124385425	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.837	11767711	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.182	3004847	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.065	224293547	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.777	9150733	NoCal	ng/mL

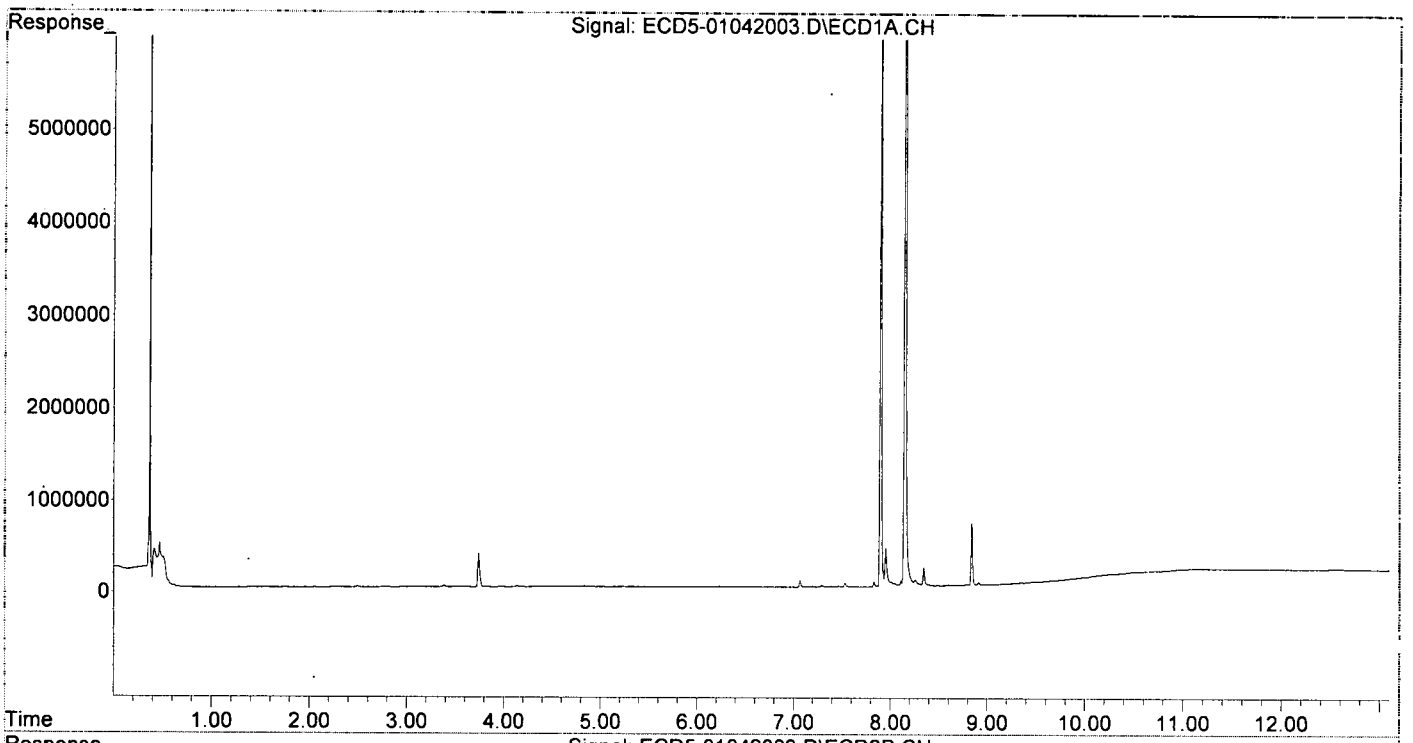
(f)=RT Delta > 1/2 Window (m)=manual int.

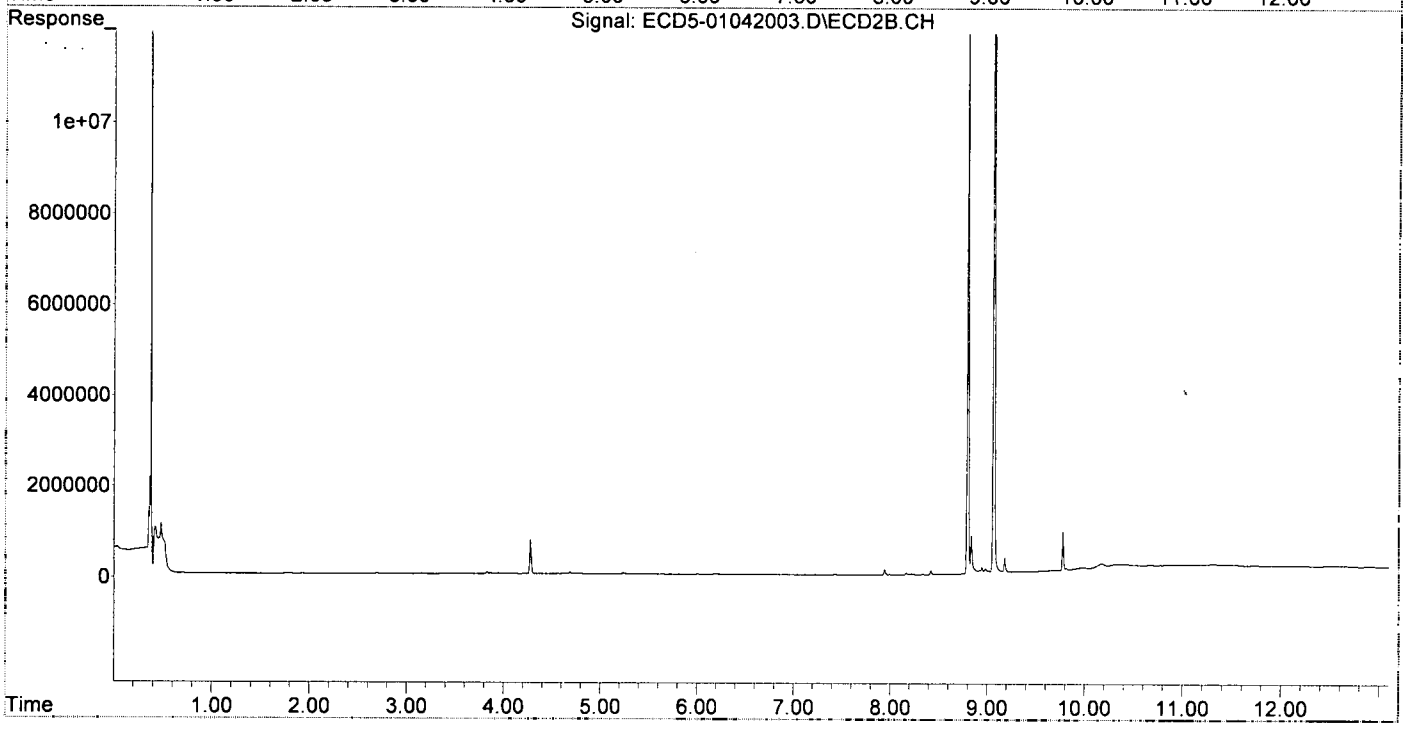
MJB 1/6/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2020-01\0A04013\
Data File : ECD5-01042003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 16:26
Operator : MJB
Sample : 0A04013-BKD1
Misc : A20A019
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: Jan 04 16:43:36 2020
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_191217RT1.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 16:43
Operator : MJB
Sample : 0A04013-CCV1
Misc : A19K133, 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: Jan 06 11:20:28 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

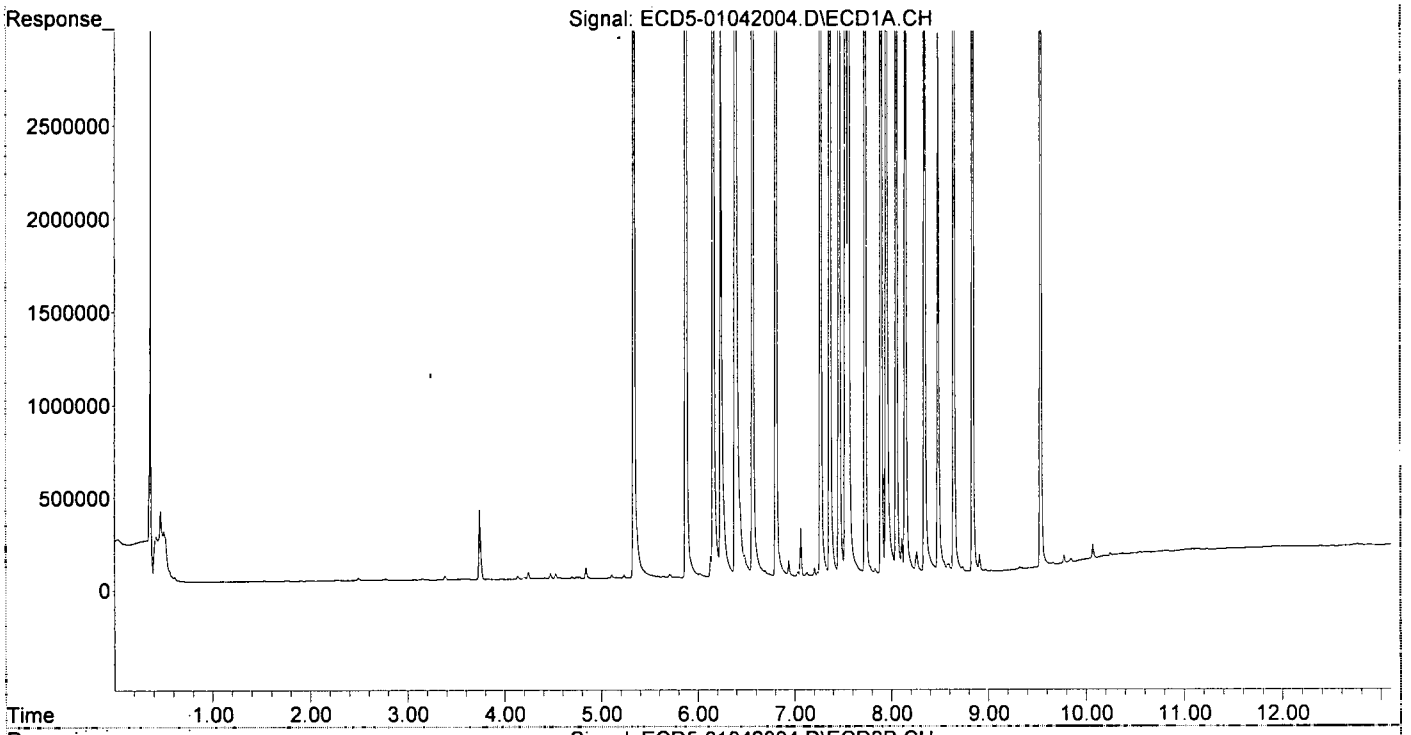
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.337	6.054	7899283	15294448	44.286	51.519	
22)	S	DCBP (S)	9.538	10.646	6284167	8355831	46.598	49.071	
		Target Compounds							
2)		a-BHC	5.877	6.662	11501871	22448863	47.912	56.412	
3)		g-BHC	6.160	6.982	9594985	18981231	47.182	56.055	
4)		b-BHC	6.238	7.044	2879887	6801783	40.618	49.081	
5)		Heptachlor	6.568	7.359	9553494	17833590	51.961	59.606	
6)		d-BHC	6.389	7.302	6236035	16912597	41.737	54.547	
7)		Aldrin	6.808	7.627	9548128	17731359	50.282	57.146	
8)		Heptachlo...	7.271	8.066	8918109	15811312	49.638	55.210	
9)		trans-Chl...	7.366	8.206	8850635	16337160	49.091	56.009	
10)		cis-Chlor...	7.463	8.314	8818855	15665231	51.531	55.818	
11)		Endosulfa...	7.560	8.366	8601629	14183065	48.945	53.961	
12)		4,4'-DDE	7.530	8.418	7305646	14618527	47.551	52.529	
13)		Dieldrin	7.732	8.568	9835822	16846367	50.111	56.712	
14)		Endrin	7.897	8.797	7978562	13336929	52.222	60.186	
15)		4,4'-DDD	7.951	8.836	6093615	12074172	47.562	53.515	
16)		Endosulfa...	8.054	8.944	7482097	13034057	48.970	55.054	
17)		4,4'-DDT	8.147	9.064	6062466	10821942	56.472	62.614	Q41
18)		Endrin Al...	8.345	9.180	6217802	11014475	52.015	56.111	
19)		Endosulfa...	8.646	9.372	7225671	12539952	51.180	59.531	
20)		Methoxychlor	8.484	9.542	2835306	5470869	53.331	64.403	
21)		Endrin Ke...	8.840	9.776	8681193	13908674	52.412	59.997	
23)		Hexachlor...	3.150	0.000	7668	0	BelowCal	N.D.	
24)		Hexachlor...	5.706	6.536	17713	8385	BelowCal	0.029	
25)		Oxychlordane	7.206	8.026f	41945	16227	0.103	0.064	
26)		2,4'-DDE	7.271	8.206	8918109	16337160	82.713	85.904	
27)		trans-Non...	7.463	8.265	8818855	68106	49.061	0.241	#
28)		2,4'-DDD	0.000	8.568	0	16846367	N.D.	99.367	#
29)		2,4'-DDT	7.832	8.797	29298	13336929	0.303	84.599	#
30)		cis-Nonac...	7.897f	8.836	7978562	12074172	38.746	37.707	
31)		Mirex	8.586	9.776	41685	13908674	0.099	83.601	#
32)		Chlordane...	7.366	8.206	8850635	16337160	463.220	481.070	
33)		Chlordane...	7.463	8.314	8818855	15665231	391.454	542.296	
34)		Chlordane...	8.054f	9.019	7482097	70590	1310.803	BelowCal	#
35)		Chlordane...	3.740	0.000	373802	0	NoCal	N.D.	
36)		Toxaphene...	7.463	8.568	8818855	16846367	9157.112	7120.035	
37)		Toxaphene...	7.732f	8.944f	9835822	13034057	6731.926	4400.674	
38)		Toxaphene...	8.054	8.944	7482097	13034057	2063.771	2689.604	
39)		Toxaphene...	8.345f	9.019	6217802	70590	1816.522	1.565	#
40)		Toxaphene...	0.000	9.180f	0	11014475	N.D.	2311.244	#
41)		Toxaphene...	8.586f	9.624f	41685	39752	12.258	8.669	
42)		Toxaphene...	3.740	0.000	373802	0	NoCal	N.D.	

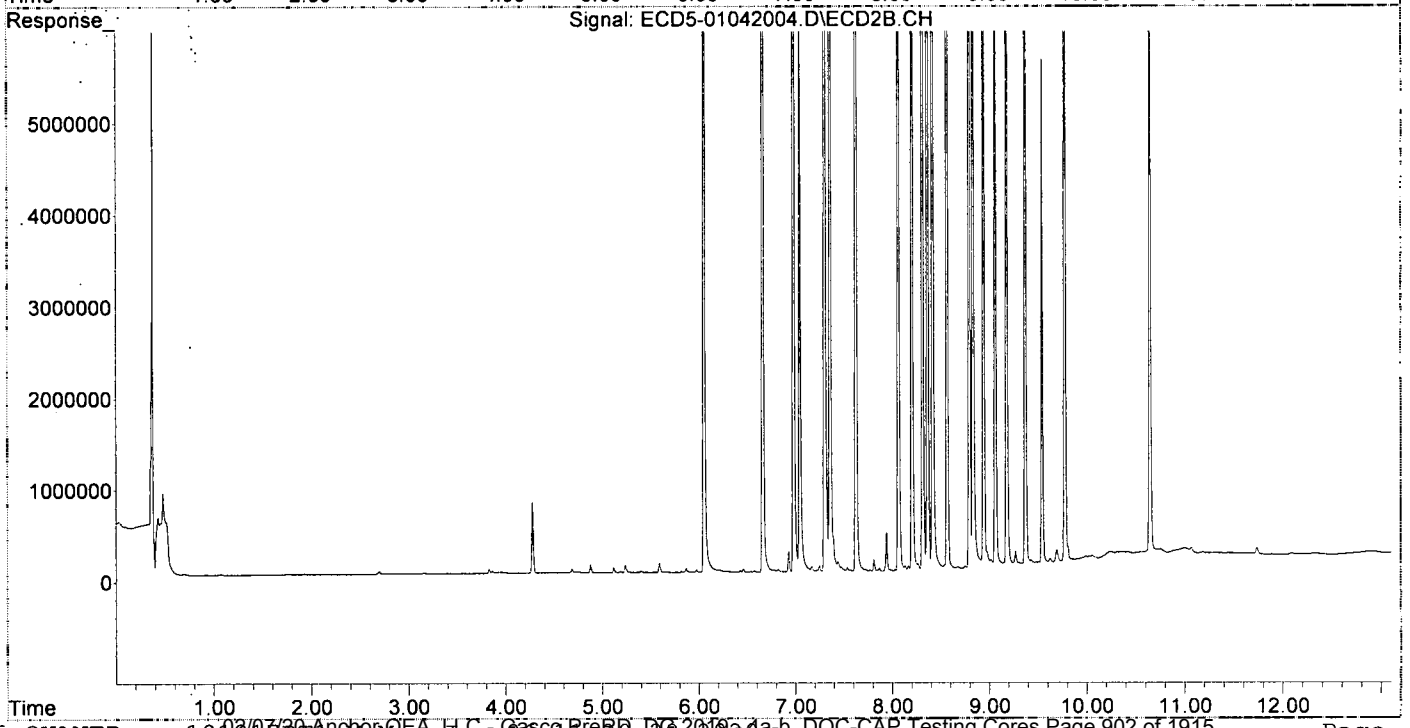
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 16:43
Operator : MJB
Sample : 0A04013-CCV1
Misc : A19K133, 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: Jan 06 11:20:28 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 17:00
Operator : MJB
Sample : 0A04013-CCV2
Misc : A19J408, 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: Jan 06 11:20:34 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

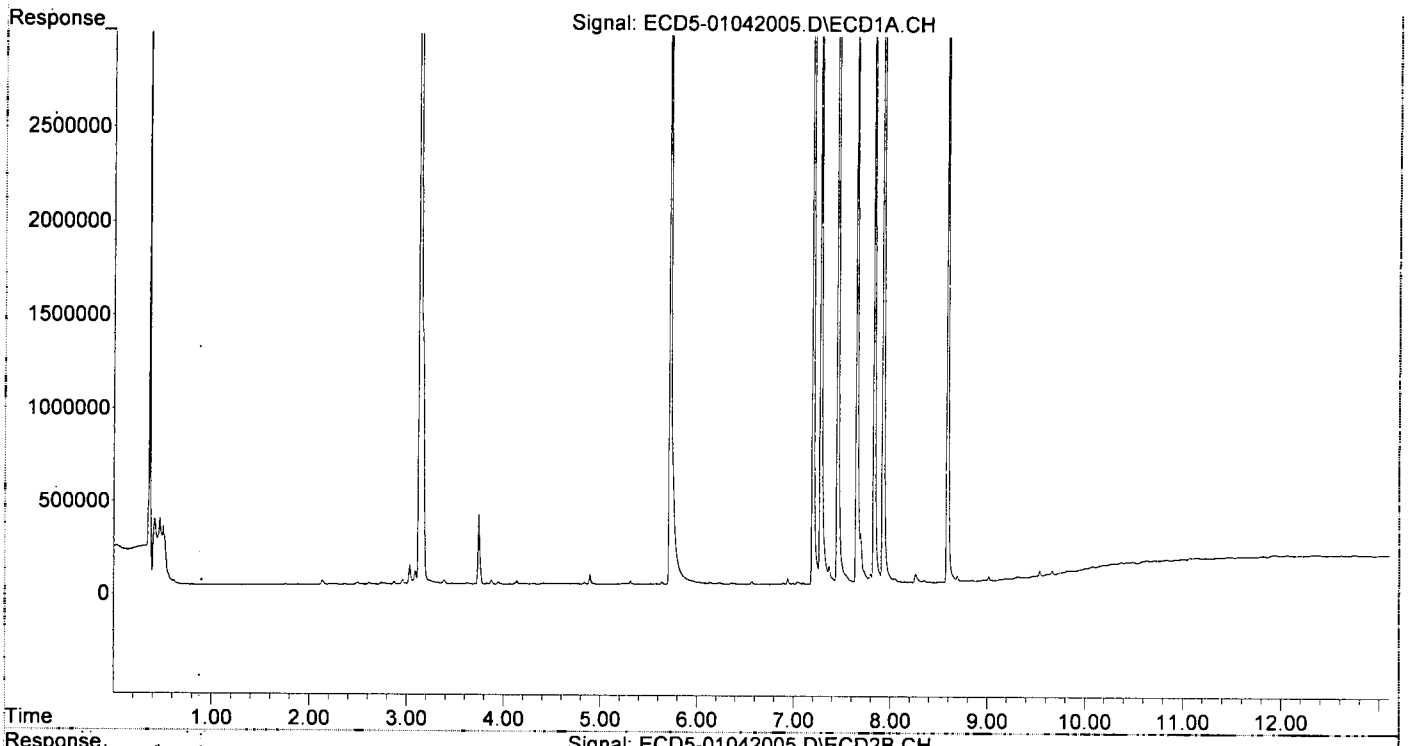
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.310f	6.057	18221	9818	0.102	0.033	#
22)	S	DCBP (S)	9.539	10.648	38717	71087	0.079	0.417	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.183f	0.000	5014	0	0.025	N.D.	#
4)		b-BHC	6.227	0.000	8887	0	0.125	N.D.	#
5)		Heptachlor	6.568	7.358	15973	26835	0.087	0.090	
6)		d-BHC	6.358f	7.305	6801	6811	0.015	BelowCal	#
7)		Aldrin	0.000	7.633	0	8347	N.D.	0.027	#
8)		Heptachlo...	7.278	8.063	4430044	56294	24.657	0.197	#
9)		trans-Chl...	7.365	8.197	95037	9403932	0.527	32.239	#
10)		cis-Chlor...	7.454	0.000	8051902	0	47.153	N.D.	#
11)		Endosulfa...	0.000	8.374	0	42555	N.D.	0.162	#
12)		4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)		Dieldrin	0.000	8.572	0	8162705	N.D.	27.479	#
14)		Endrin	7.924f	8.797	9606378	8674918	62.876	40.434	
15)		4,4'-DDD	7.924f	8.838	9606378	16636132	72.544	71.616	
16)		Endosulfa...	8.046	8.922f	21928	27177	0.144	0.115	
17)		4,4'-DDT	0.000	9.064	0	9274	N.D.	0.281	#
18)		Endrin Al...	8.349	9.181	11414	9439	0.095	0.048	#
19)		Endosulfa...	0.000	9.372	0	7130	N.D.	BelowCal	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.841	9.771	5376	9033130	BelowCal	40.301	
23)		Hexachlor...	3.132	3.740	7670919	17307297	47.104	47.785	
24)		Hexachlor...	5.718	6.523	6850404	13765598	42.270	46.978	
25)		Oxychlordane	7.198	7.994	6986180	12930833	47.396	51.111	
26)		2,4'-DDE	7.278	8.197	4430044	9403932	41.088	49.448	
27)		trans-Non...	7.454	8.269	8051902	14316819	44.795	50.746	
28)		2,4'-DDD	7.651	8.572	3998283	8162705	40.664	48.147	
29)		2,4'-DDT	7.831	8.797	4801202	8674918	49.619	58.035	
30)		cis-Nonac...	7.924	8.838	9606378	16636132	46.651	51.954	
31)		Mirex	8.588	9.771	5671160	9033130	47.570	55.862	
32)		Chlordane...	7.365	8.197f	95037	9403932	4.974	276.912	#
33)		Chlordane...	7.454f	0.000	8051902	0	357.411	N.D.	#
34)		Chlordane...	8.046f	8.982	21928	94987	3.842	BelowCal	#
35)		Chlordane...	3.740	3.740f	375167	17307297	NoCal	NoCal	
36)		Toxaphene...	7.454	8.572	8051902	8162705	8454.711	3449.928	#
37)		Toxaphene...	7.796f	8.922	48554	27177	26.788	9.176	#
38)		Toxaphene...	8.046f	8.982f	21928	94987	3.680	19.601	#
39)		Toxaphene...	8.349f	9.064f	11414	9274	BelowCal	BelowCal	
40)		Toxaphene...	0.000	9.181f	0	9439	N.D.	BelowCal	
41)		Toxaphene...	8.588f	0.000	5671160	0	1667.628	N.D.	#
42)		Toxaphene...	3.740	3.740	375167	17307297	NoCal	NoCal	

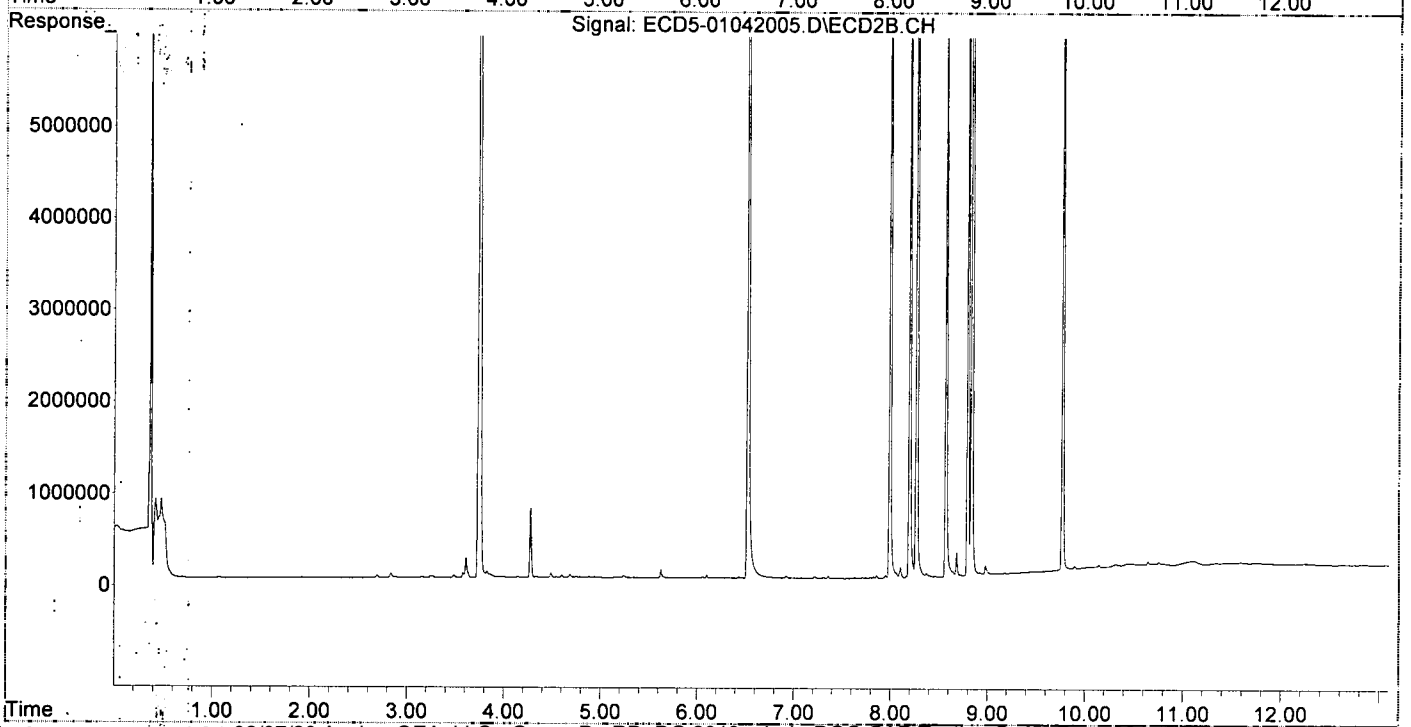
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 17:00
Operator : MJB
Sample : 0A04013-CCV2
Misc : A19J408, 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: Jan 06 11:20:34 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 17:17
Operator : MJB
Sample : 0A04013-CCB1
Misc : A19L339
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: Jan 06 11:20:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/8/20

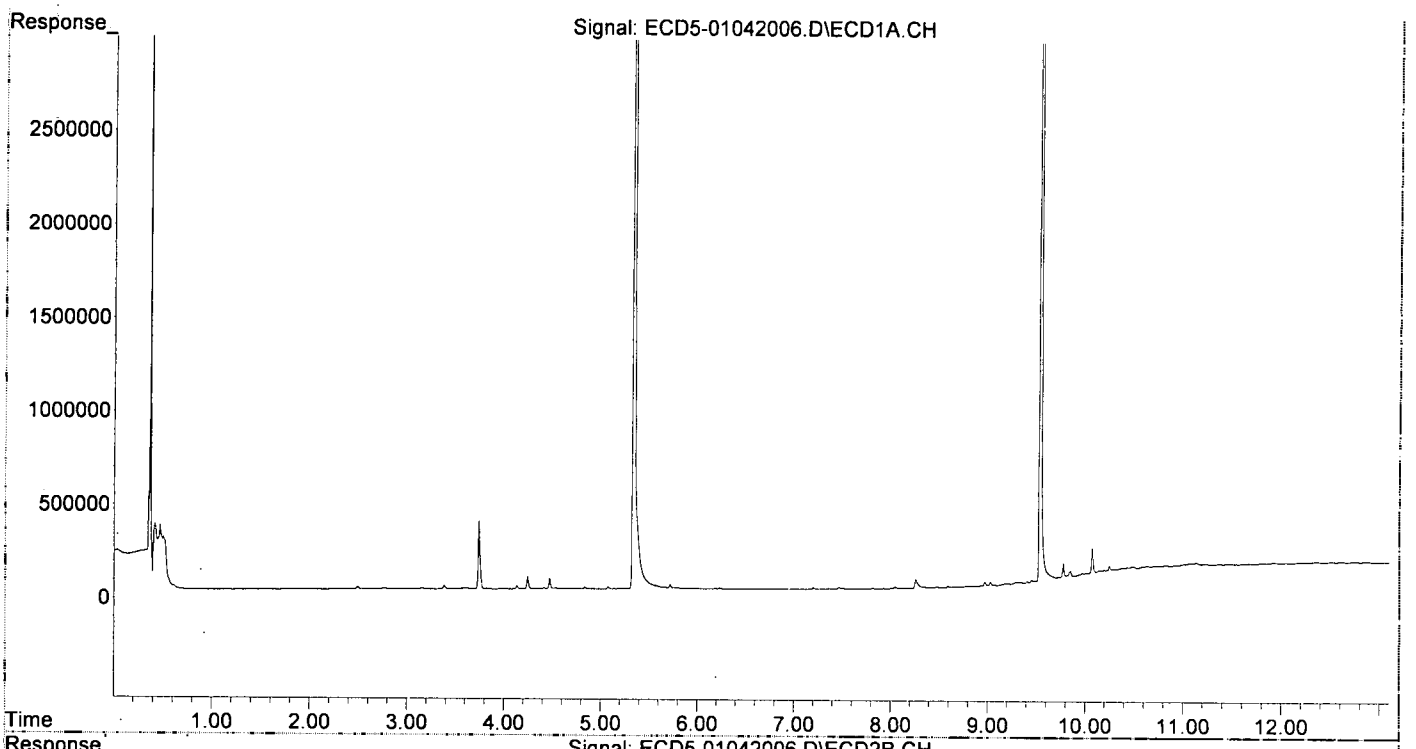
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.337	6.053	14785298	29114883	82.891	98.073	
22)	S	DCBP (S)	9.538	10.646	11512491	15659167	84.524	91.961	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.229	0.000	5272	0	0.074	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	7.633	0	7735	N.D.	0.025	#
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.358	8.222	3710	17230	0.021	0.059	#
10)		cis-Chlor...	7.470	0.000	7040	0	BelowCal	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	8.573	0	2681	N.D.	0.009	#
14)		Endrin	0.000	8.798	0	8798	N.D.	BelowCal	
15)		4,4'-DDD	0.000	8.837	0	2817	N.D.	BelowCal	
16)		Endosulfa...	8.045	8.923f	8796	12126	0.058	0.051	
17)		4,4'-DDT	0.000	9.087f	0	4271	N.D.	0.246	#
18)		Endrin Al...	8.344	9.181	6599	3918	0.055	0.020	#
19)		Endosulfa...	8.649	0.000	2226	0	BelowCal	N.D.	
20)		Methoxychlor	8.476	0.000	5673	0	0.183	N.D.	#
21)		Endrin Ke...	8.843	9.775	2817	8770	BelowCal	BelowCal	
23)		Hexachlor...	3.150	0.000	5640	0	BelowCal	N.D.	
24)		Hexachlor...	5.718	6.539	17549	4646	BelowCal	0.016	
25)		Oxychlordane	7.199	0.000	8219	0	BelowCal	N.D.	
26)		2,4'-DDE	0.000	8.222f	0	17230	N.D.	0.091	#
27)		trans-Non...	7.470	0.000	7040	0	0.039	N.D.	#
28)		2,4'-DDD	0.000	8.573	0	2681	N.D.	0.016	#
29)		2,4'-DDT	7.813	8.798	4848	8798	0.050	BelowCal	#
30)		cis-Nonac...	0.000	8.837	0	2817	N.D.	0.009	#
31)		Mirex	8.592	9.775	6302	8770	BelowCal	BelowCal	
32)		Chlordane...	7.358f	8.222	3710	17230	0.194	0.507	#
33)		Chlordane...	7.470	0.000	7040	0	0.312	N.D.	#
34)		Chlordane...	8.015	8.982	4332	98990	0.759	BelowCal	#
35)		Chlordane...	3.740	0.000	361949	0	NoCal	N.D.	
36)		Toxaphene...	7.470	8.573	7040	2681	5.552	1.133	#
37)		Toxaphene...	0.000	8.923	0	12126	N.D.	4.094	#
38)		Toxaphene...	8.045f	8.982f	8796	98990	BelowCal	20.427	
39)		Toxaphene...	8.344f	0.000	6599	0	BelowCal	N.D.	
40)		Toxaphene...	0.000	9.181f	0	3918	N.D.	BelowCal	
41)		Toxaphene...	8.592	9.622f	6302	7422	1.853	1.619	
42)		Toxaphene...	3.740	0.000	361949	0	NoCal	N.D.	

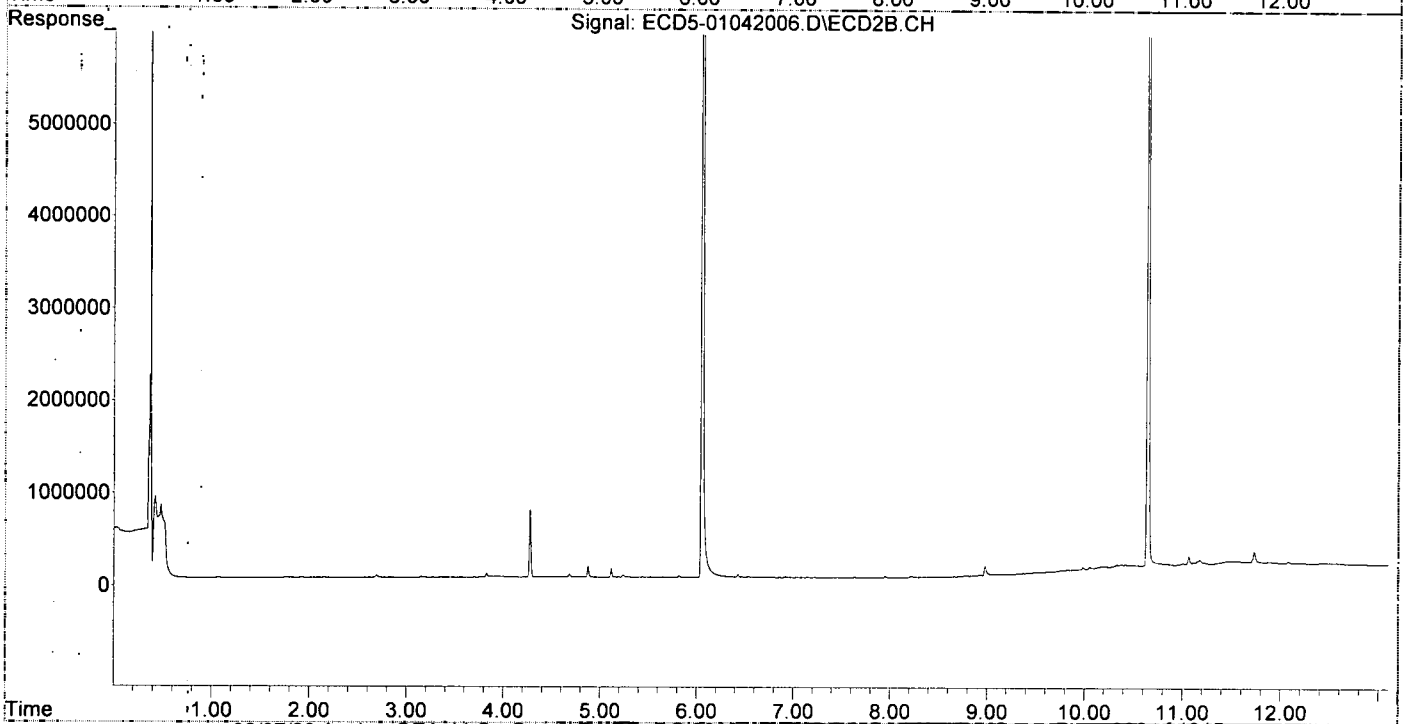
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 17:17
Operator : MJB
Sample : 0A04013-CCB1
Misc : A19L339
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: Jan 06 11:20:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 17:34
Operator : MJB
Sample : 9121314-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 14:22:35 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

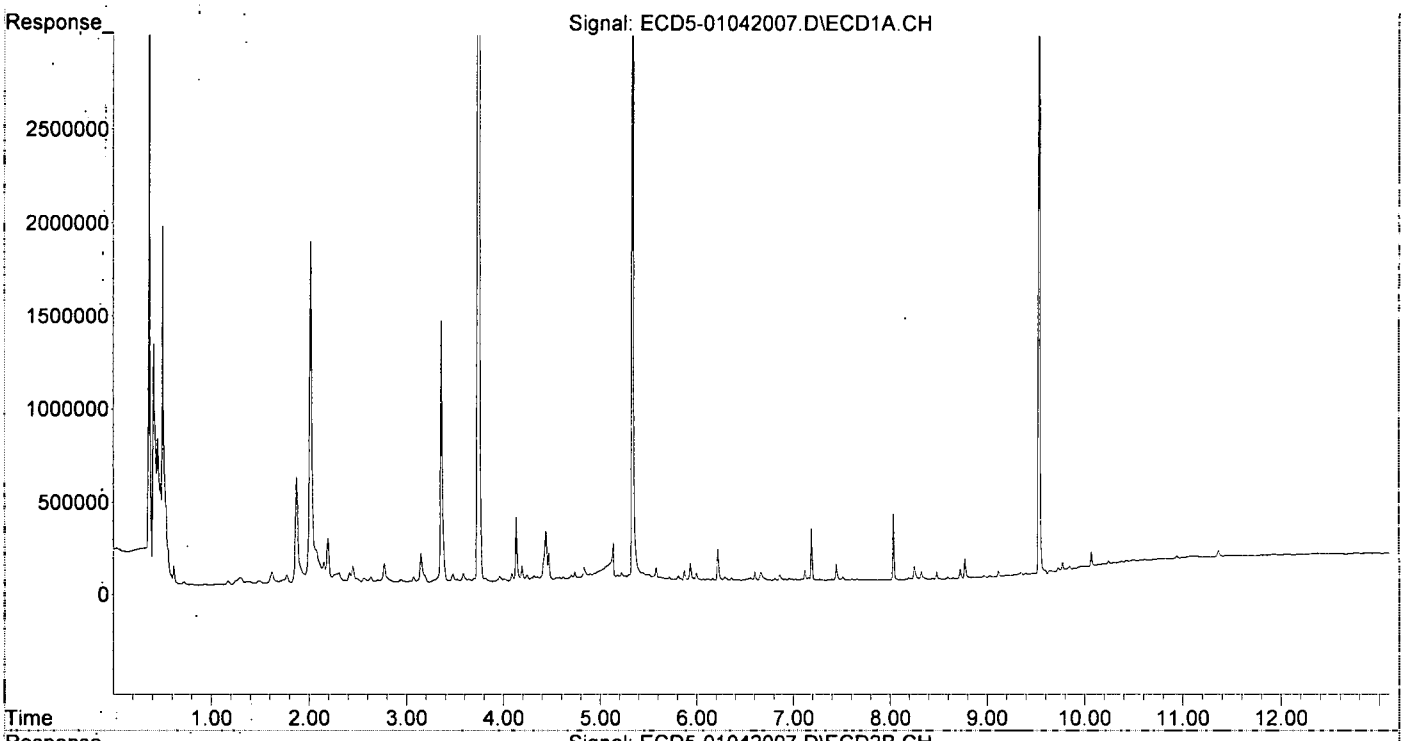
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.336	6.053	5470445	10284150	30.669	34.642	
22)	S	DCBP (S)	9.535	10.645	5973177	7116537	44.314	41.793	
		Target Compounds							
2)		a-BHC	5.871	0.000	61048	0	0.254	N.D.	#
3)		g-BHC	6.165	6.950f	15359	37069	0.076	0.109	#
4)		b-BHC	6.217	7.031	173749	15169	2.451	0.109	#
5)		Heptachlor	6.555	7.366	16674	9525	0.091	0.032	#
6)		d-BHC	6.358f	7.299	18560	11406	0.100	BelowCal	#
7)		Aldrin	6.809	7.636	12862	12345	0.068	0.040	#
8)		Heptachlo...	0.000	8.045	0	65562	N.D.	0.229	#
9)		trans-Chl...	7.395f	8.202	7755	140792	0.043	0.483	#
10)		cis-Chlor...	7.444	8.333	87662	15927	0.341	0.057	#
11)		Endosulfa...	0.000	8.373	0	16463	N.D.	0.063	#
12)		4,4'-DDE	7.510	8.431	17441	6182	0.114	BelowCalm	#
13)		Dieldrin	7.712	8.565	3554	7385	0.018	0.025	
14)		Endrin	0.000	8.796	0	3572	N.D.	BelowCal	
15)		4,4'-DDD	0.000	8.832	0	3348	N.D.	BelowCal	
16)		Endosulfa...	8.034	8.918f	358003	462449	2.343	1.953	
17)		4,4'-DDT	0.000	9.054	0	10921	N.D.	0.292	#
18)		Endrin Al...	8.323f	9.176	43757	9514	0.366	0.048	#
19)		Endosulfa...	8.649	9.377	3918	6890	BelowCal	BelowCal	
20)		Methoxychlor	8.480	9.540	40285	66508	0.907	1.043	
21)		Endrin Ke...	8.857	9.775	4058	86466	BelowCal	0.210	
23)		Hexachlor...	3.149	3.716f	164009	3466453	0.856	9.571	#
24)		Hexachlor...	5.717	6.533	25985	199157	BelowCal	0.680	
25)		Oxychlordane	7.187	7.990	280641	23196	1.789	0.092	#
26)		2,4'-DDE	0.000	8.202	0	140792	N.D.	0.740	#
27)		trans-Non...	7.444	8.268	87662	28429	0.488	0.101	#
28)		2,4'-DDD	7.657	8.565	7201	7385	0.073	0.044	#
29)		2,4'-DDT	0.000	8.796	0	3572	N.D.	BelowCal	
30)		cis-Nonac...	0.000	8.832	0	3348	N.D.	0.010	#
31)		Mirex	8.592	9.775	10892	86466	BelowCal	0.198	
32)		Chlordane...	7.395	8.202f	7755	140792	0.406	4.146	#
33)		Chlordane...	7.444f	8.333	87662	15927	3.891	0.551	#
34)		Chlordane...	8.034	8.977f	358003	130172	62.719	3.089	#
35)		Chlordane...	3.740	3.716	10295503	3466453	NoCal	NoCal	
36)		Toxaphene...	7.444f	8.565	87662	7385	103.321	3.121	#
37)		Toxaphene...	0.000	8.918	0	462449	N.D.	156.136	#
38)		Toxaphene...	8.034f	8.977	358003	130172	106.957	26.861	#
39)		Toxaphene...	8.323	9.054f	43757	10921	7.557	BelowCal	#
40)		Toxaphene...	0.000	9.176f	0	9514	N.D.	BelowCal	
41)		Toxaphene...	8.592	9.574	10892	78990	3.203	17.225	#
42)		Toxaphene...	3.740	3.716	10295503	3466453	NoCal	NoCal	

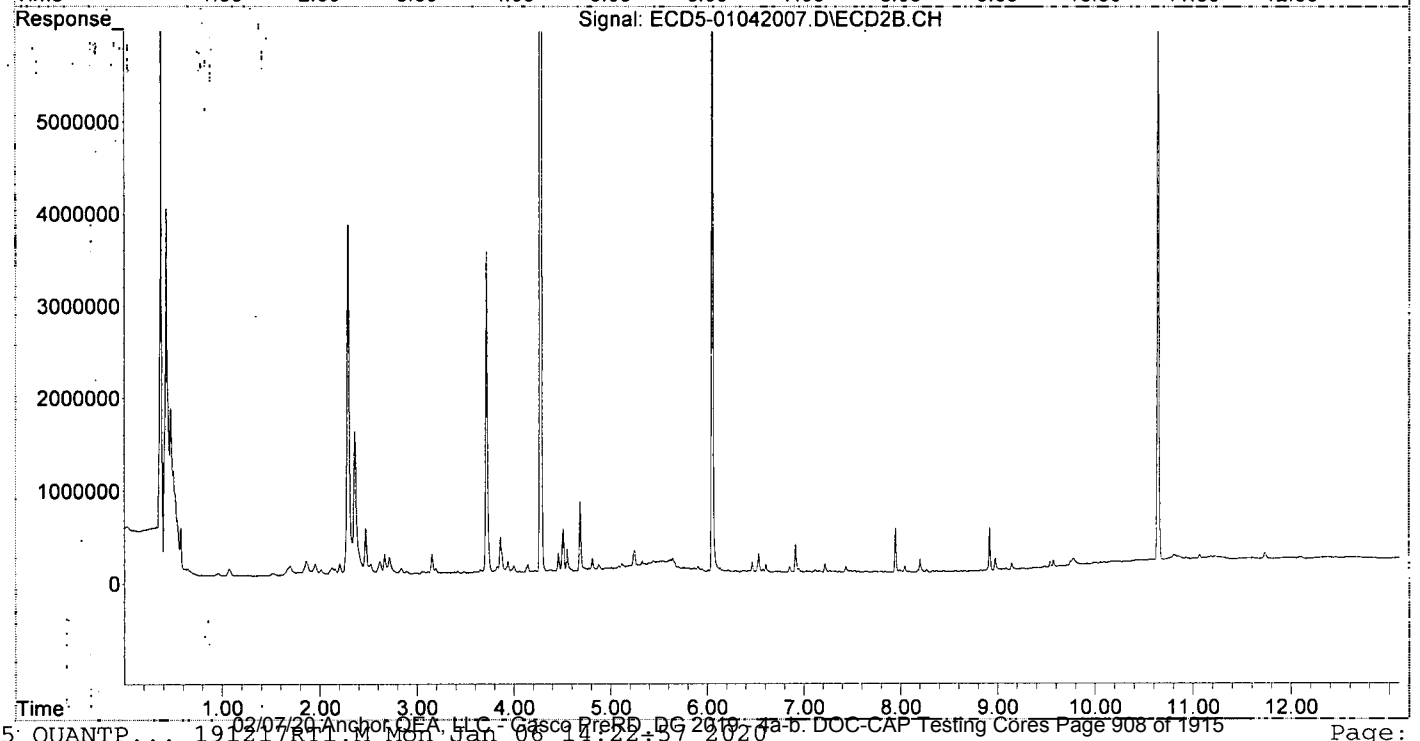
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 17:34
Operator : MJB
Sample : 9121314-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 14:22:35 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

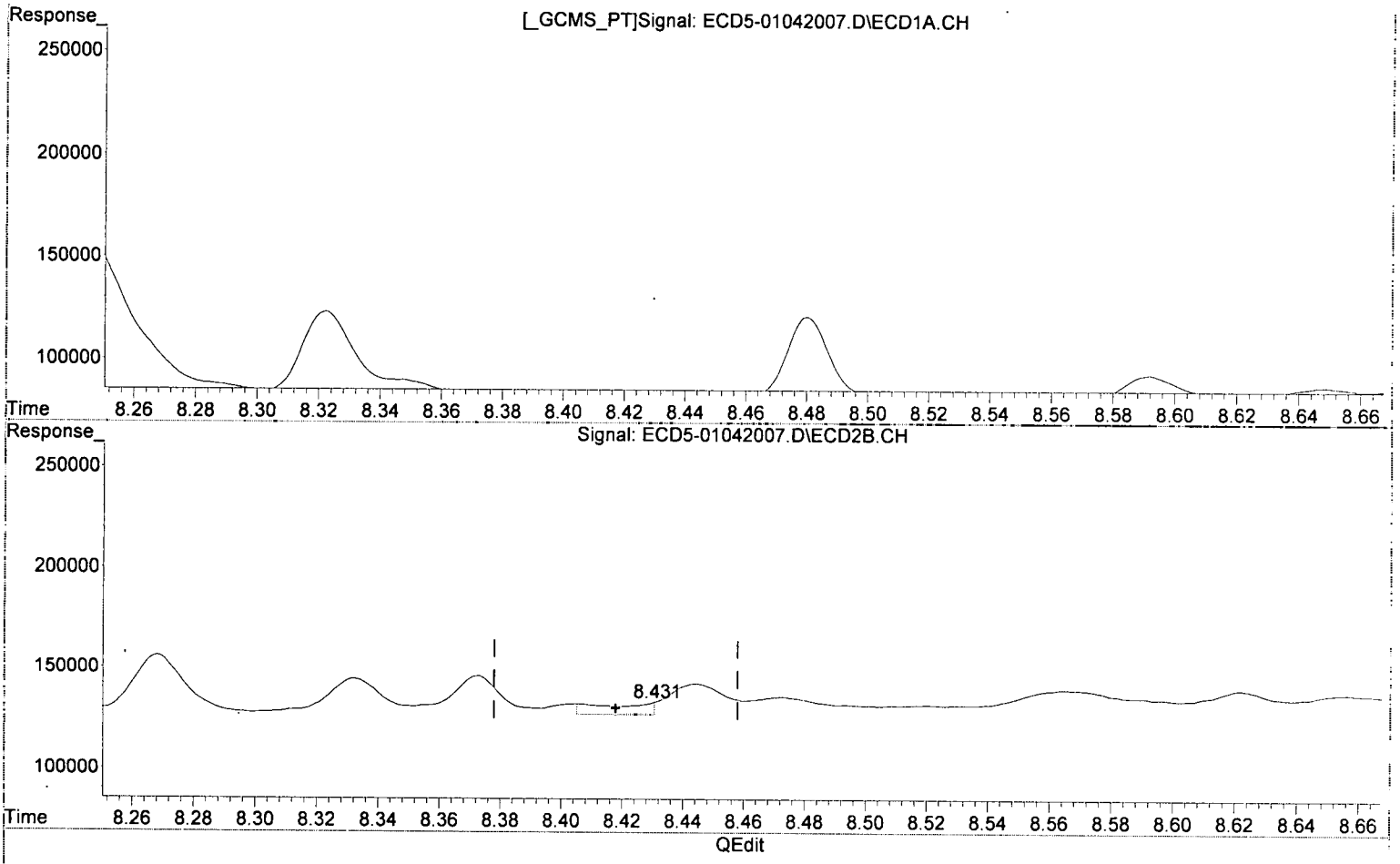




Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 17:34
Operator : MJB
Sample : 9121314-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:20:47 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.510min 0.114 ng/mL

response 17441

MJB 1/6/20

(12) 4,4'-DDE #2

8.431min -0.032 ng/mL (m)

response 6182

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 17:34
Operator : MJB
Sample : 9121314-BLK1
Misc : 1x; 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:20:47 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

AE MJB 1/6/20

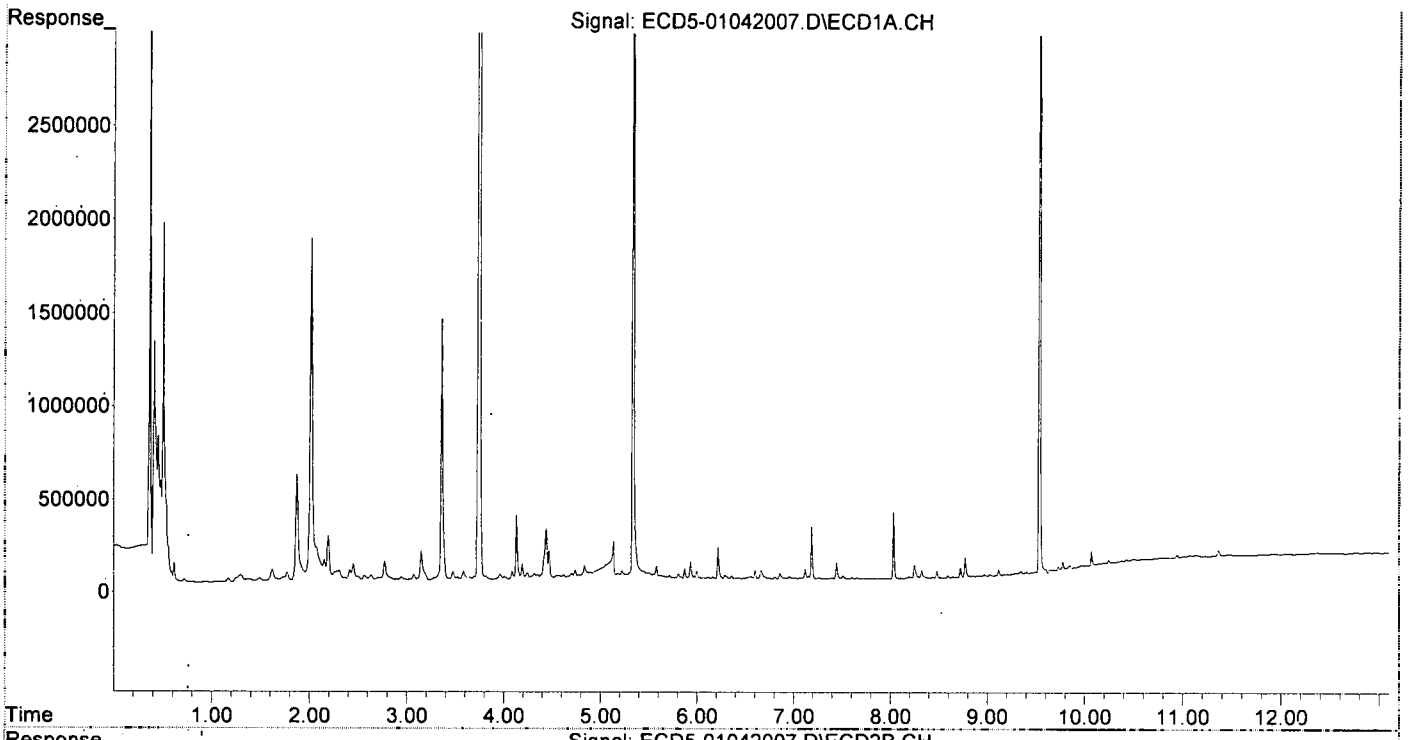
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.336	6.053	5470445	10284150	30.669	34.642	
22)	S DCBP (S)	9.535	10.645	5973177	7116537	44.314	41.793	
	Target Compounds							
2)	a-BHC	5.871	0.000	61048	0	0.254	N.D.	#
3)	g-BHC	6.165	6.950f	15359	37069	0.076	0.109	#
4)	b-BHC	6.217	7.031	173749	15169	2.451	0.109	#
5)	Heptachlor	6.555	7.366	16674	9525	0.091	0.032	#
6)	d-BHC	6.358f	7.299	18560	11406	0.100	BelowCal	#
7)	Aldrin	6.809	7.636	12862	12345	0.068	0.040	#
8)	Heptachlo...	0.000	8.045	0	65562	N.D.	0.229	#
9)	trans-Chl...	7.395f	8.202	7755	140792	0.043	0.483	#
10)	cis-Chlor...	7.444	8.333	87662	15927	0.341	0.057	#
11)	Endosulfa...	0.000	8.373	0	16463	N.D.	0.063	#
12)	4,4'-DDE	7.510	8.444f	17441	9504	0.114	BelowCal	#
13)	Dieldrin	7.712	8.565	3554	7385	0.018	0.025	
14)	Endrin	0.000	8.796	0	3572	N.D.	BelowCal	
15)	4,4'-DDD	0.000	8.832	0	3348	N.D.	BelowCal	
16)	Endosulfa...	8.034	8.918f	358003	462449	2.343	1.953	
17)	4,4'-DDT	0.000	9.054	0	10921	N.D.	0.292	#
18)	Endrin Al...	8.323f	9.176	43757	9514	0.366	0.048	#
19)	Endosulfa...	8.649	9.377	3918	6890	BelowCal	BelowCal	
20)	Methoxychlor	8.480	9.540	40285	66508	0.907	1.043	
21)	Endrin Ke...	8.857	9.775	4058	86466	BelowCal	0.210	
23)	Hexachlor...	3.149	3.716f	164009	3466453	0.856	9.571	#
24)	Hexachlor...	5.717	6.533	25985	199157	BelowCal	0.680	
25)	Oxychlordane	7.187	7.990	280641	23196	1.789	0.092	#
26)	2,4'-DDE	0.000	8.202	0	140792	N.D.	0.740	#
27)	trans-Non...	7.444	8.268	87662	28429	0.488	0.101	#
28)	2,4'-DDD	7.657	8.565	7201	7385	0.073	0.044	#
29)	2,4'-DDT	0.000	8.796	0	3572	N.D.	BelowCal	
30)	cis-Nonac...	0.000	8.832	0	3348	N.D.	0.010	#
31)	Mirex	8.592	9.775	10892	86466	BelowCal	0.198	
32)	Chlordane...	7.395	8.202f	7755	140792	0.406	4.146	#
33)	Chlordane...	7.444f	8.333	87662	15927	3.891	0.551	#
34)	Chlordane...	8.034	8.977f	358003	130172	62.719	3.089	#
35)	Chlordane...	3.740	3.716	10295503	3466453	NoCal	NoCal	
36)	Toxaphene...	7.444f	8.565	87662	7385	103.321	3.121	#
37)	Toxaphene...	0.000	8.918	0	462449	N.D.	156.136	#
38)	Toxaphene...	8.034f	8.977	358003	130172	106.957	26.861	#
39)	Toxaphene...	8.323	9.054f	43757	10921	7.557	BelowCal	#
40)	Toxaphene...	0.000	9.176f	0	9514	N.D.	BelowCal	
41)	Toxaphene...	8.592	9.574	10892	78990	3.203	17.225	#
42)	Toxaphene...	3.740	3.716	10295503	3466453	NoCal	NoCal	

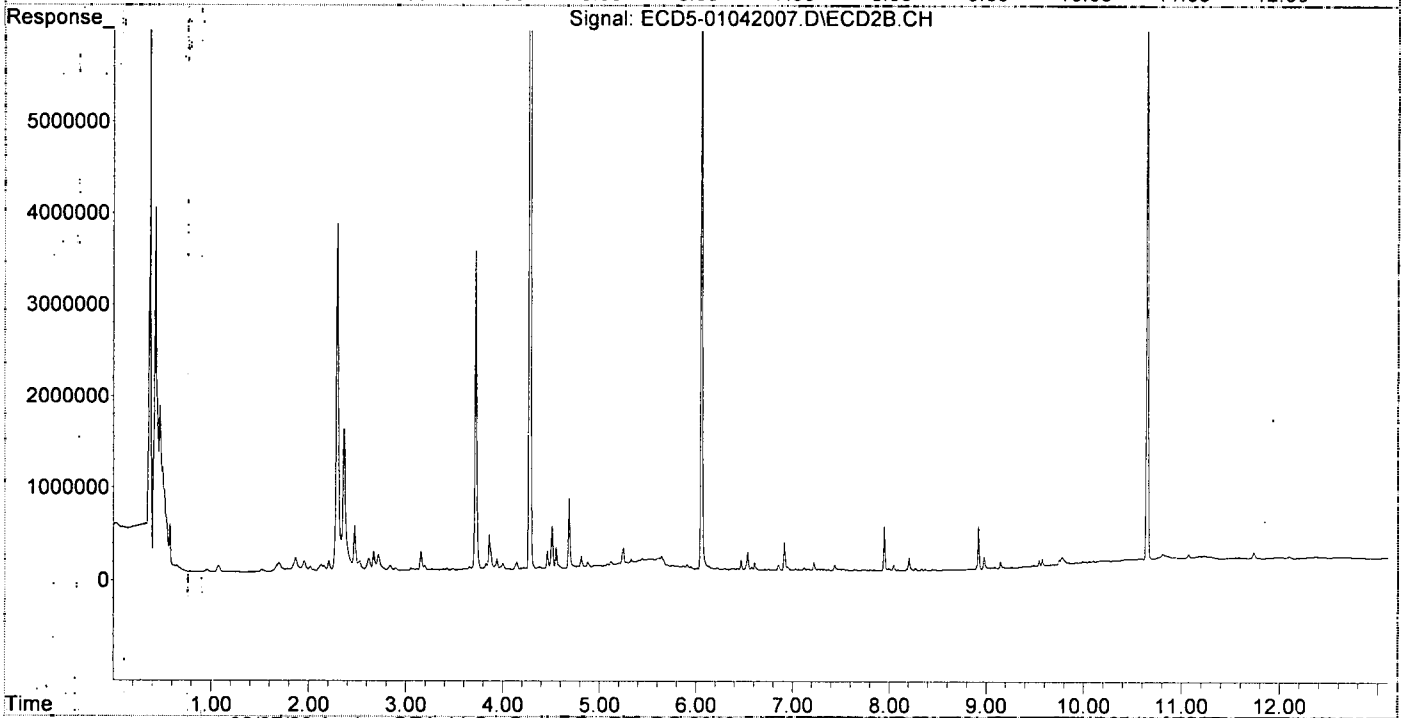
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 17:34
Operator : MJB
Sample : 9121314-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:20:47 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 17:51
Operator : MJB
Sample : 9121314-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:20:54 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

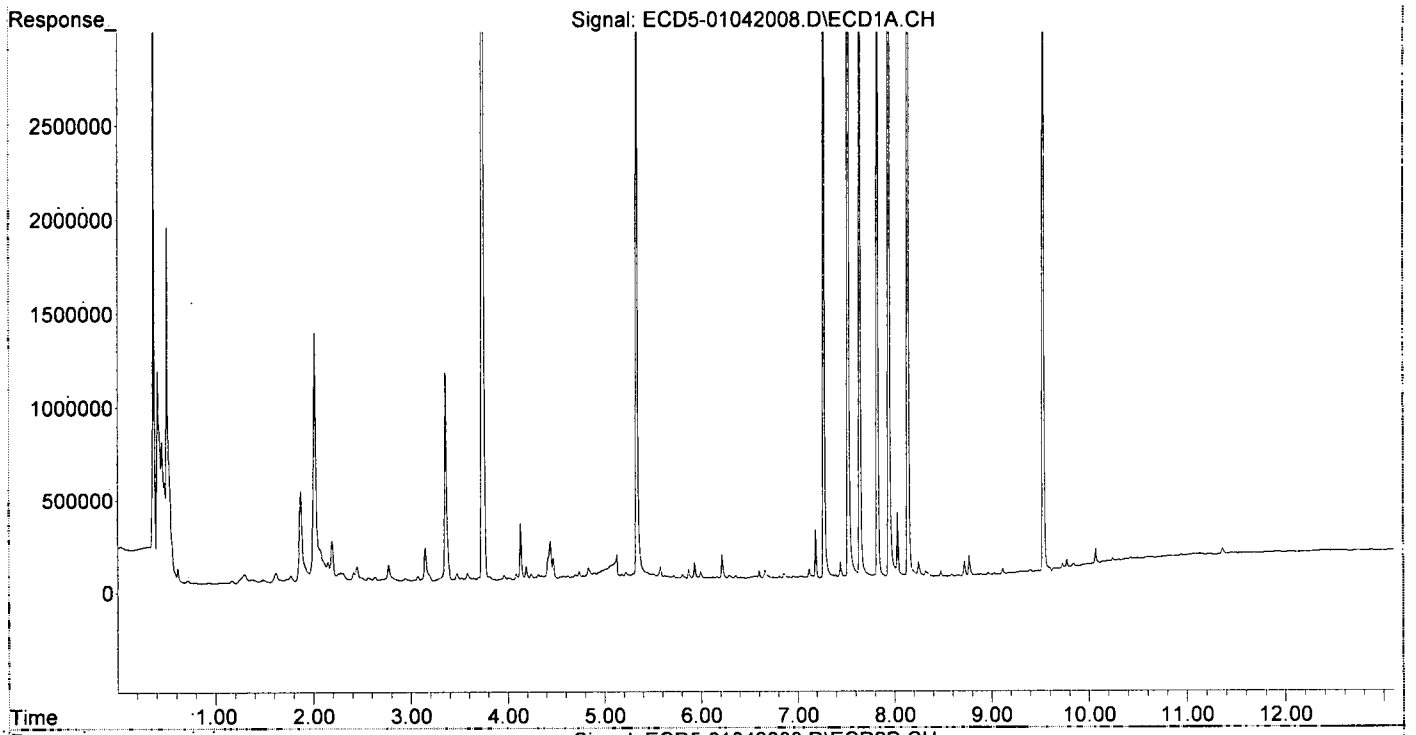
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.335	6.052	5271230	9867547	29.552	33.239	
22)	S	DCBP (S)	9.535	10.644	6063923	7592935	44.981	44.591	
		Target Compounds							
2)		a-BHC	5.870	0.000	48793	0	0.203	N.D.	#
3)		g-BHC	6.163	6.950f	7588	47889	0.037	0.141	#
4)		b-BHC	6.217	7.030	124819	19908	1.760	0.144	#
5)		Heptachlor	6.554	7.324f	12181	14911	0.066	0.050	
6)		d-BHC	6.409f	7.298	6534	17291	0.013	0.016	
7)		Aldrin	6.808	7.635	9141	11020	0.048	0.036	
8)		Heptachlo...	7.272	8.045f	4695870	66792	26.137	0.233	#
9)		trans-Chl...	7.389f	8.194	14610	8203870	0.081	28.125	#
10)		cis-Chlor...	7.442f	8.330	83165	42882	0.314	0.153	#
11)		Endosulfa...	7.524f	8.371	7516514	13603	42.770	0.052	#
12)		4,4'-DDE	7.524	8.416	7516514	13482362	48.924	48.758	
13)		Dieldrin	0.000	8.569	0	8168386	N.D.	27.498	#
14)		Endrin	0.000	8.795	0	9265216	N.D.	43.002	#
15)		4,4'-DDD	7.945	8.834	6791455	12008293	52.653	53.246	
16)		Endosulfa...	8.033f	8.918f	342484	415976	2.242	1.757	
17)		4,4'-DDT	8.142	9.062	7232582	11895052	65.712	67.850	
18)		Endrin Al...	8.323f	9.180	30841	23813	0.258	0.121	#
19)		Endosulfa...	8.649	9.371	5218	12339	BelowCal	BelowCal	
20)		Methoxychlor	8.480	9.541	29088	49099	0.673	0.805	
21)		Endrin Ke...	8.857	9.774	6120	91430	BelowCal	0.234	
23)		Hexachlor...	3.147	3.715f	179963	2727973	0.955	7.532	#
24)		Hexachlor...	5.716	6.532	17490	182884	BelowCal	0.624	
25)		Oxychlordane	7.185	7.987	255234	23650	1.610	0.093	#
26)		2,4'-DDE	7.272	8.194	4695870	8203870	43.553	43.138	
27)		trans-Non...	7.442	8.267	83165	35959	0.463	0.127	#
28)		2,4'-DDD	7.645	8.569	4713023	8168386	47.933	48.181	
29)		2,4'-DDT	7.827	8.795	5671004	9265216	58.609	61.541	
30)		cis-Nonac...	7.945f	8.834	6791455	12008293	32.981	37.501	
31)		Mirex	8.591	9.774	9888	91430	BelowCal	0.231	
32)		Chlordane...	7.389	8.194f	14610	8203870	0.765	241.574	#
33)		Chlordane...	7.442f	8.330	83165	42882	3.692	1.484	#
34)		Chlordane...	8.033	8.976f	342484	135281	60.001	3.750	#
35)		Chlordane...	3.739	3.715	8952810	2727973	NoCal	NoCal	
36)		Toxaphene...	7.442f	8.569	83165	8168386	97.877	3452.329	#
37)		Toxaphene...	0.000	8.918	0	415976	N.D.	140.446	#
38)		Toxaphene...	0.000	8.976	0	135281	N.D.	27.916	#
39)		Toxaphene...	8.323	9.062f	30841	11895052	3.428	1464.219	#
40)		Toxaphene...	0.000	9.180f	0	23813	N.D.	2.627	#
41)		Toxaphene...	8.591	9.573	9888	110028	2.908	23.994	#
42)		Toxaphene...	3.739	3.715	8952810	2727973	NoCal	NoCal	

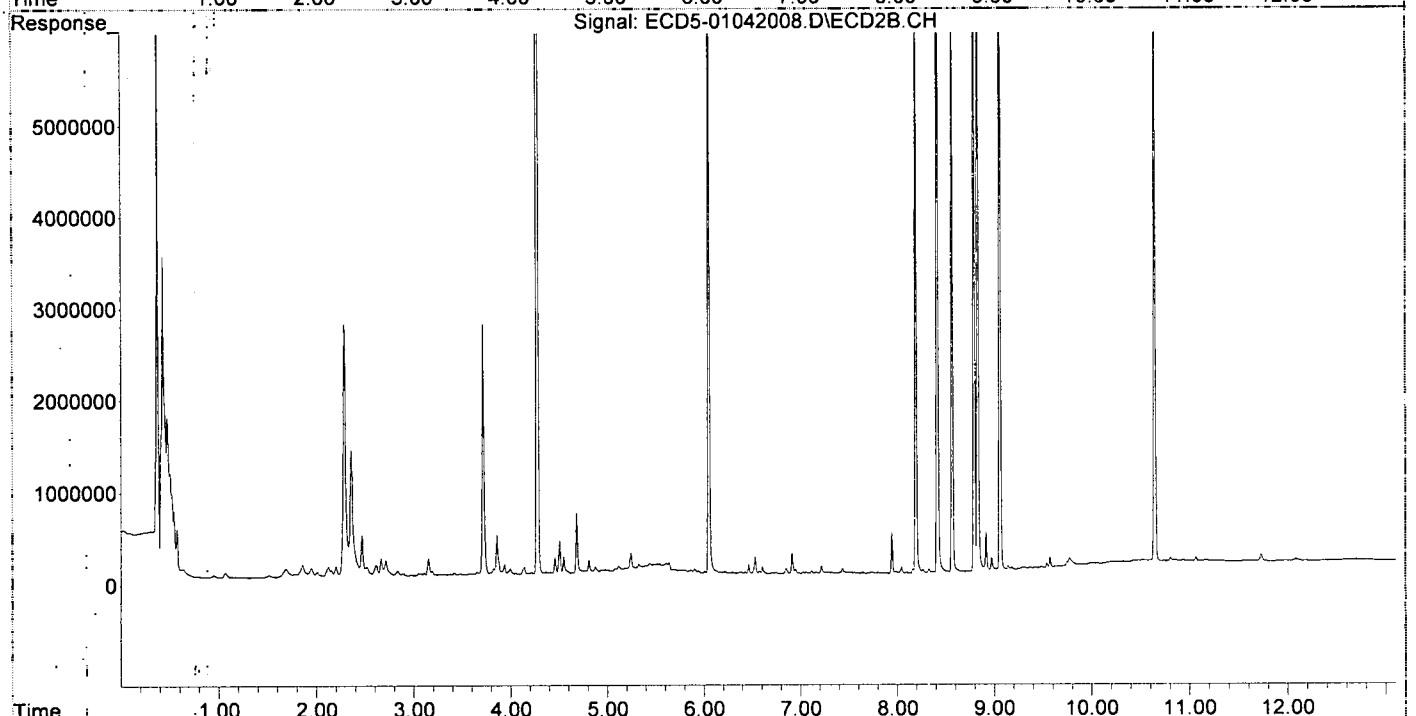
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 17:51
Operator : MJB
Sample : 9121314-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:20:54 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:08
Operator : MJB
Sample : A9J0514-32RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 14:26:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

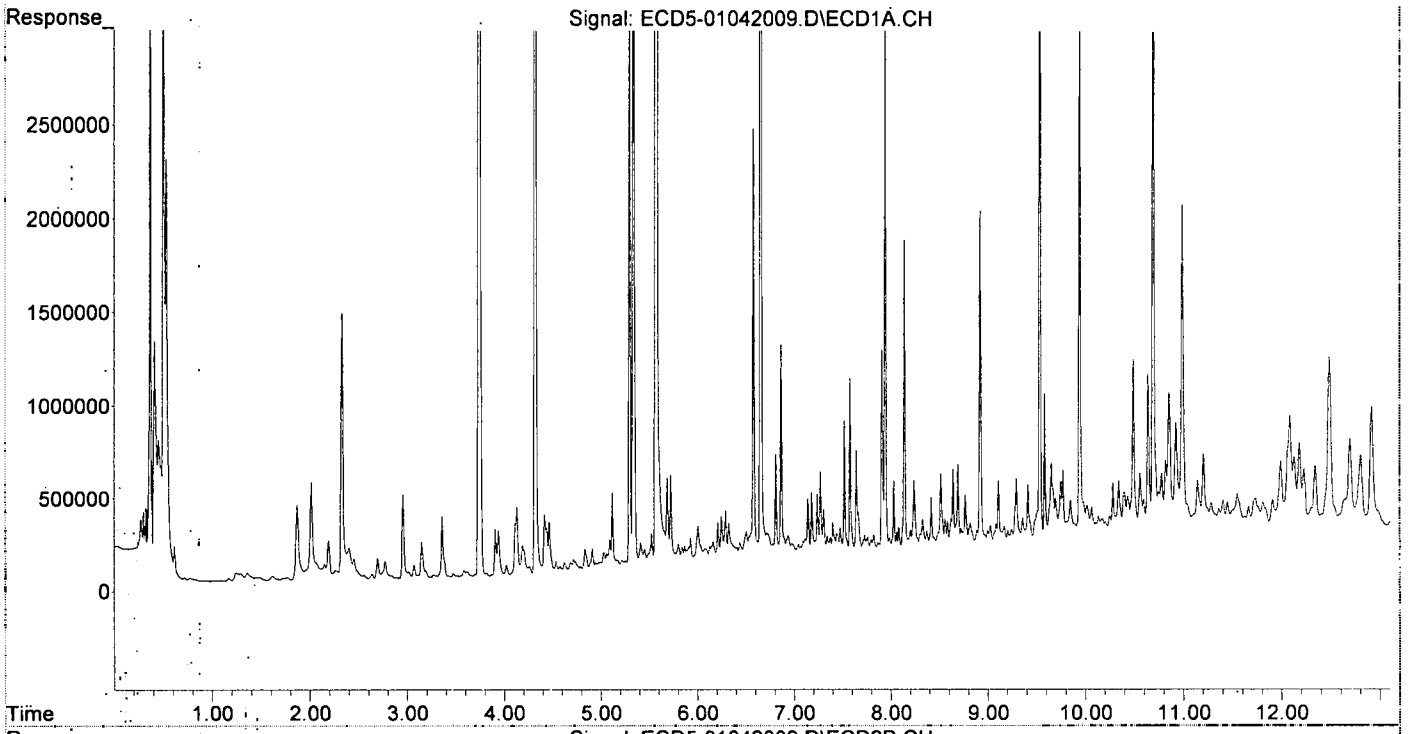
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.336	6.053	5612464	10408018	31.465	35.059	
22)	S DCBP (S)	9.535	10.646	5985231	8338989	44.403	48.972	
	Target Compounds							
2)	a-BHC	5.867	6.661	100904	292114	0.420	0.734	#
3)	g-BHC	6.162	6.956f	114981	108.1E6	0.565	319.213	#
4)	b-BHC	6.248	7.059	247734	699226	3.494	5.046	#
5)	Heptachlor	6.581	7.367	2306698	292464	12.546	0.978	#
6)	d-BHC	6.401	7.319	76883	332343	0.524	1.140	#
7)	Aldrin	6.811	7.618	560598	344541	2.952	1.110	#
8)	Heptachlo...	7.273	8.083	457834	268673	2.548	0.938	#
9)	trans-Chl...	7.374	8.193	104137	601362	0.578	2.062	#
10)	cis-Chlor...	7.476	8.314	150065	171849	0.718	0.612	
11)	Endosulfa...	7.580	8.374	947070	200527	5.389	0.763	#
12)	4,4'-DDE	7.521	8.425	725460	1943616	4.722	7.521	# R-11
13)	Dieldrin	7.728	8.567	105480	1022677	0.537	3.443	#
14)	Endrin	7.909	8.798	1091289	293639	7.143	1.403	#
15)	4,4'-DDD	7.943	8.833	3239437	5499142	25.991	25.492	
16)	Endosulfa...	8.061	8.917f	111018	696513	0.727	2.942	#
17)	4,4'-DDT	8.141	9.062	1675064	2761969	17.450	18.291	- Q-41
18)	Endrin Al...	8.329	9.188	172281	190191	1.441	0.969	
19)	Endosulfa...	8.644	9.386	426087	670717	2.858	3.237	
20)	Methoxychlor	8.517f	9.536	409705	149602	8.495	2.175	#
21)	Endrin Ke...	8.819f	9.768	136145	474510	0.625	2.079	#
23)	Hexachlor...	3.148	3.715f	190883	797611	1.023	2.202	#
24)	Hexachlor...	5.724	6.529	486007	364412	2.953	1.244	#
25)	Oxychlordane	7.182	8.005	349113	417931	2.271	1.652	
26)	2,4'-DDE	7.273	8.193	457834	601362	4.246	3.162	R-02
27)	trans-Non...	7.442	8.265	121174	421764	0.674	1.495	#
28)	2,4'-DDD	7.643	8.567	569951	1022677	5.797m	6.032	
29)	2,4'-DDT	7.824	8.798	103394	293639	1.069	2.133	# R-01
30)	cis-Nonac...	7.909	8.833	1091289	5499142	5.300	17.174	#
31)	Mirex	8.585	9.768	152055	474510	1.039	2.766	#
32)	Chlordane...	7.374	8.193f	104137	601362	5.450	17.708	#
33)	Chlordane...	7.476	8.337	150065	231581	6.661	8.017	
34)	Chlordane...	8.031	9.002	383172	166539	67.129	7.793	#
35)	Chlordane...	3.739	3.715	8680869	797611	NoCal	NoCal	
36)	Toxaphene...	7.476	8.567	150065	1022677	178.755	432.230	#
37)	Toxaphene...	7.761	8.917	93697	696513	55.090	235.163	#
38)	Toxaphene...	8.083	8.973	135784	632466	38.807	130.511	#
39)	Toxaphene...	8.329	9.002f	172281	166539	48.547	15.463	#
40)	Toxaphene...	8.559	9.188	167491	190191	66.108	44.147	
41)	Toxaphene...	8.585f	9.596	152055	373481	44.712	81.445	#
42)	Toxaphene...	3.739	3.715	8680869	797611	NoCal	NoCal	

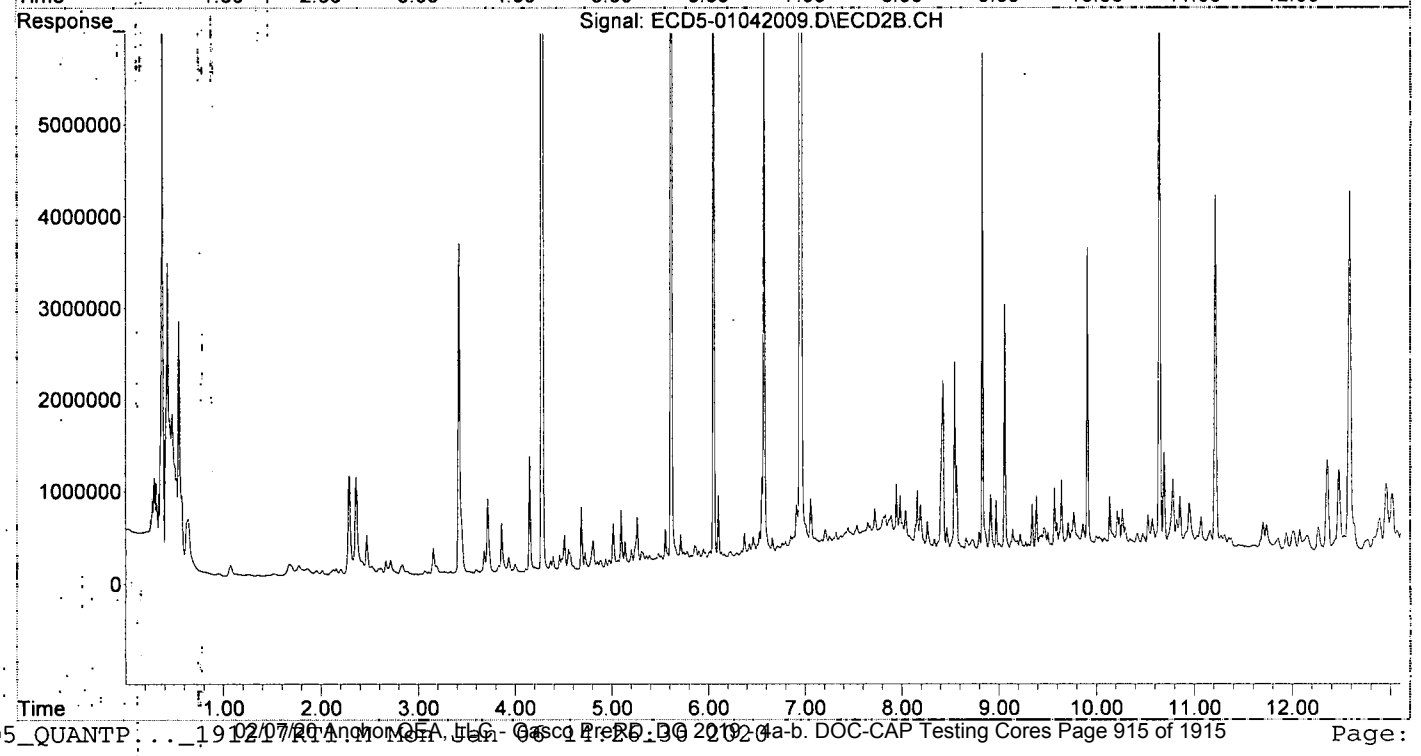
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:08
Operator : MJB
Sample : A9J0514-32RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 14:26:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

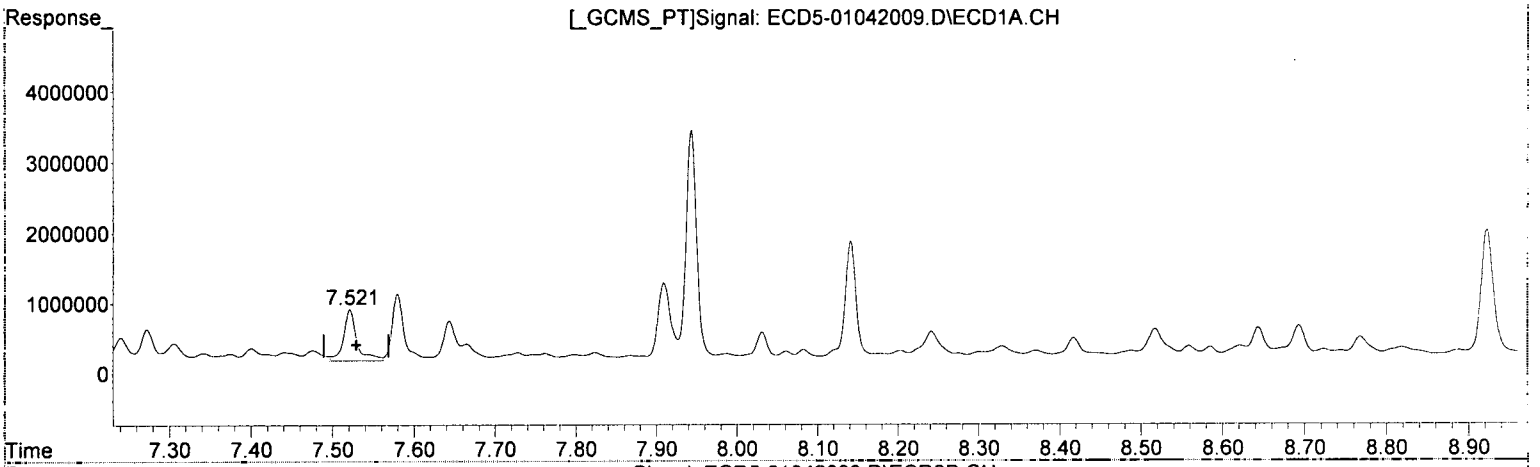


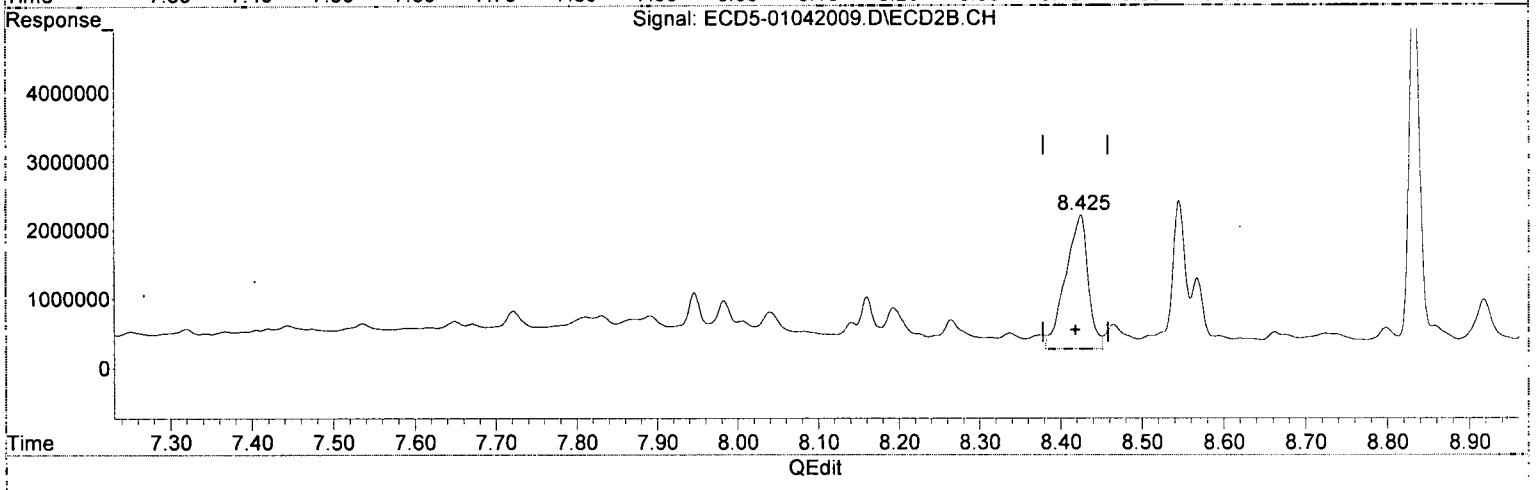


Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:08
Operator : MJB
Sample : A9J0514-32RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:00 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(12) 4,4'-DDE

7.521min 4.722 ng/mL

response 725460

MJB 1/6/20

P-11

(12) 4,4'-DDE #2

8.425min 7.521 ng/mL

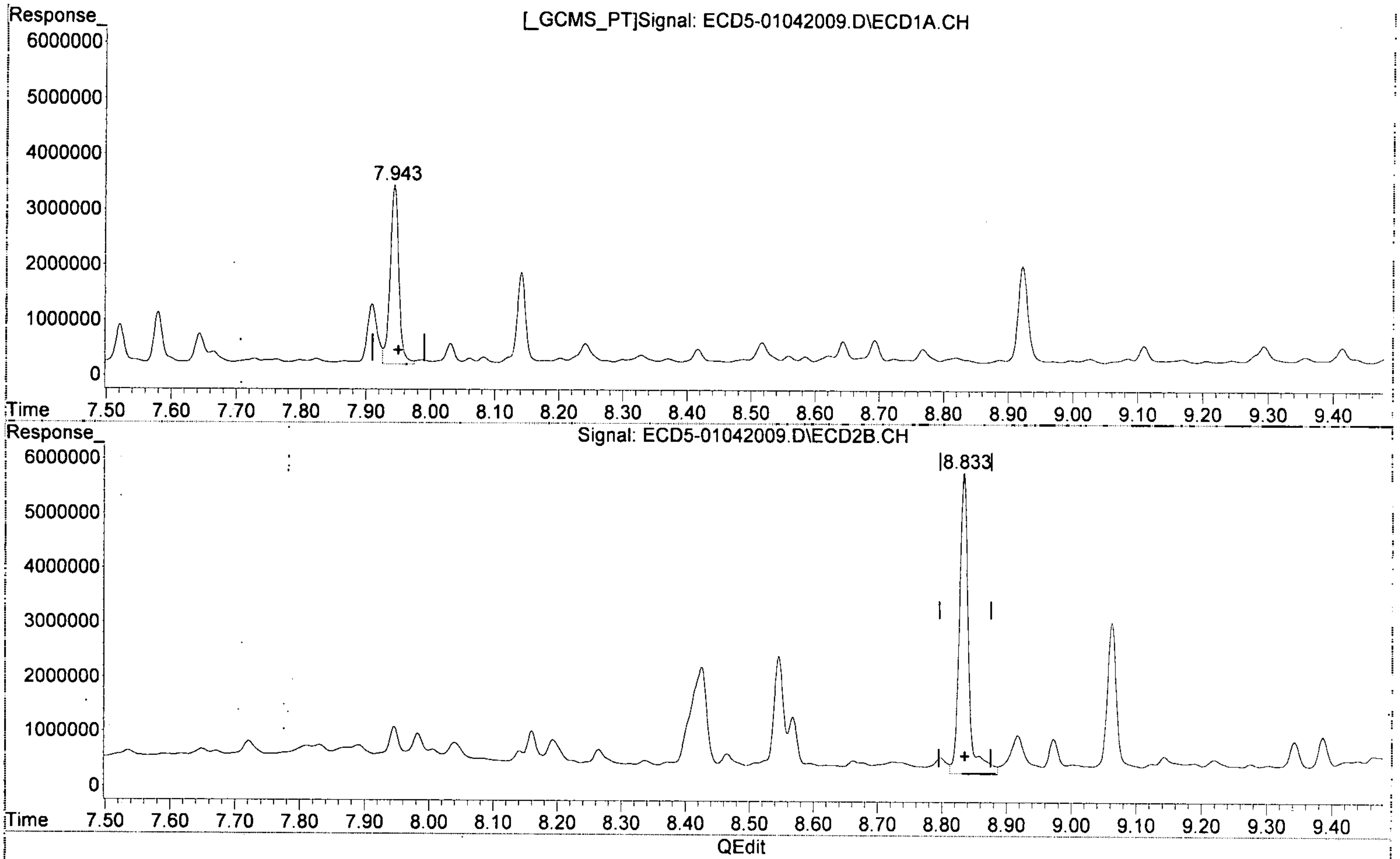
response 1943616

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:08
Operator : MJB
Sample : A9J0514-32RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:00 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.943min 25.991 ng/mL

response 3239437

MJB 1/6/20

(15) 4,4'-DDD #2

8.833min 25.492 ng/mL

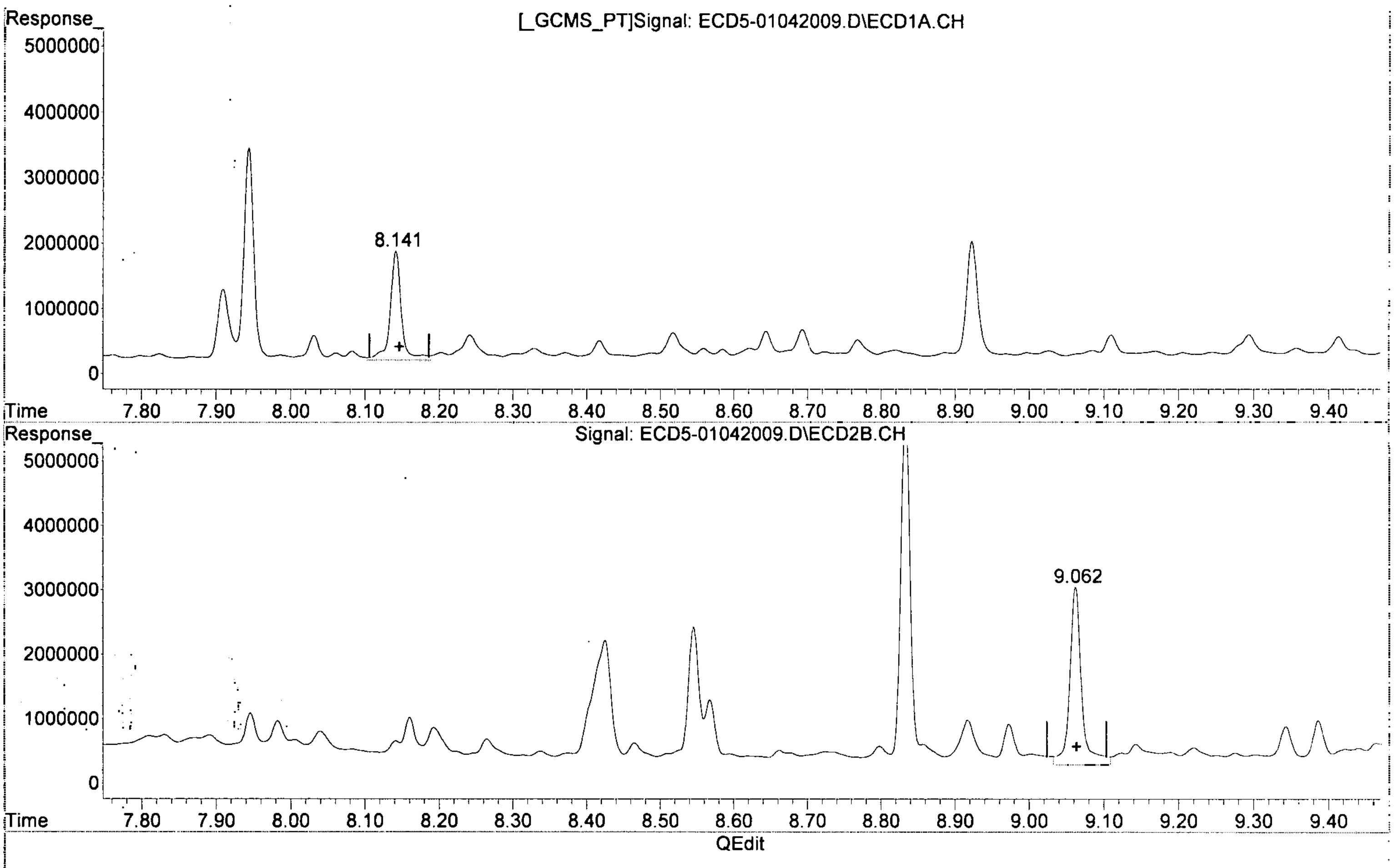
response 5499142

(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042009.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 04 Jan 2020  18:08
Operator  : MJB
Sample    : A9J0514-32RE1
Misc      : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:00 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title  : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation    6890 Scale Mode: Small noise peaks clipped
```



(17) 4,4'-DDT

8.141min 17.450 ng/mL

response 1675064

MJB 1/6/20

(17) 4,4'-DDT #2

9.062min 18.291 ng/mL Q-41

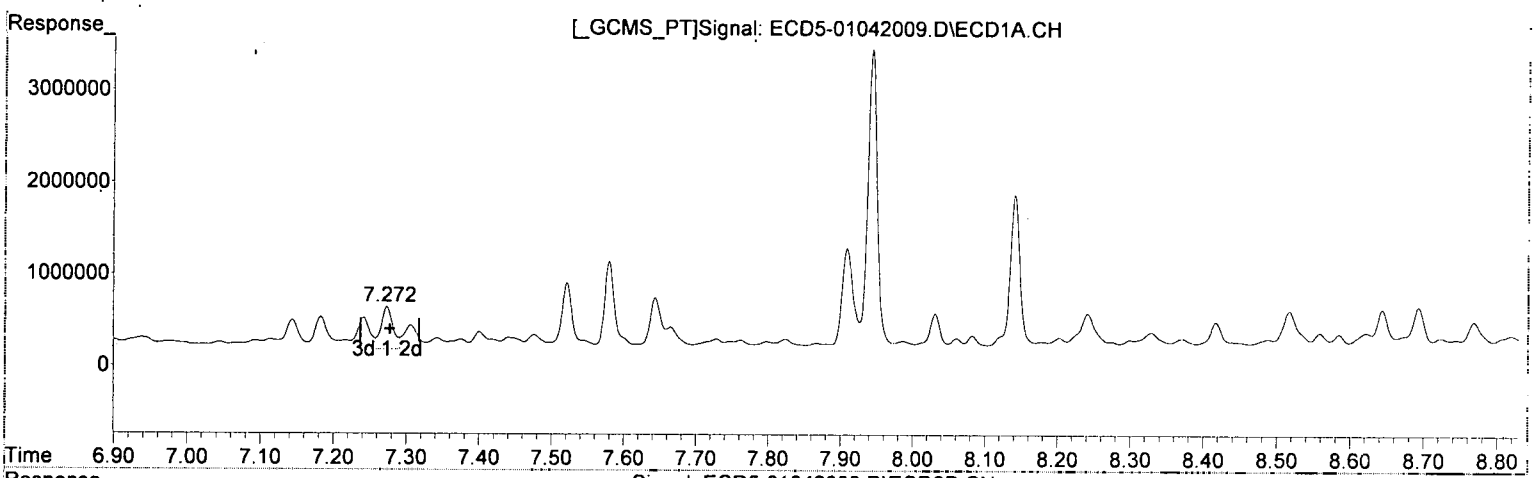
response 2761969

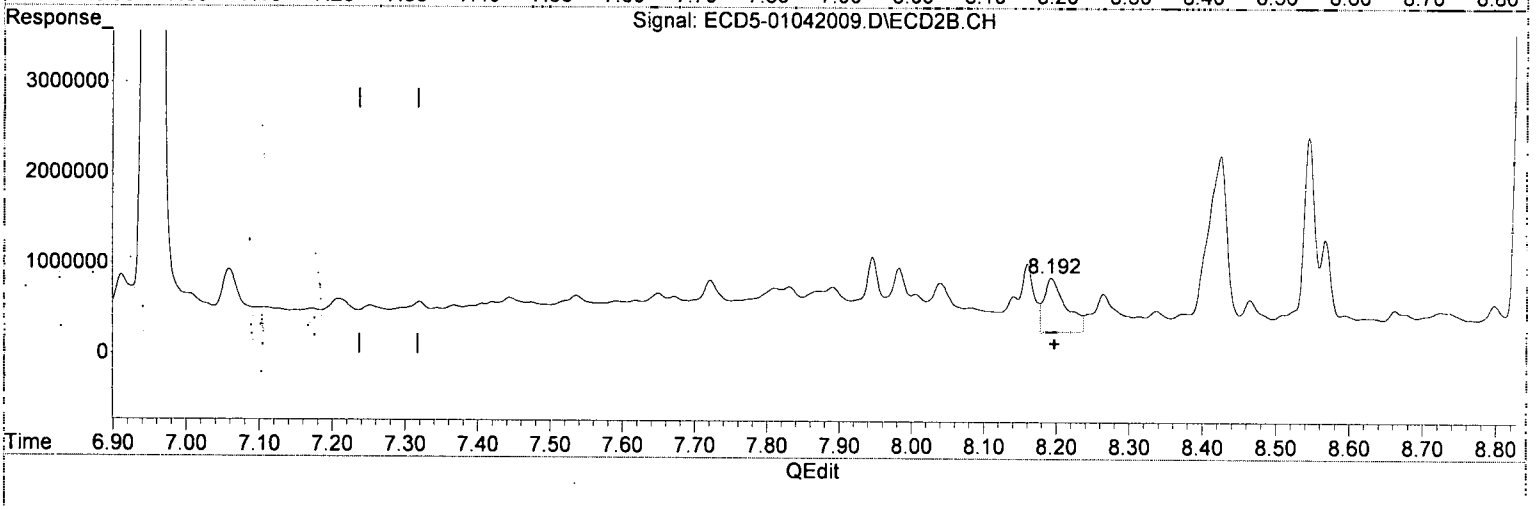
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:08
Operator : MJB
Sample : A9J0514-32RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:00 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(26) 2,4'-DDE

7.273min 4.246 ng/mL

response 457834

MJB 1/6/20

(26) 2,4'-DDE #2

8.193min 3.162 ng/mL

response 601362

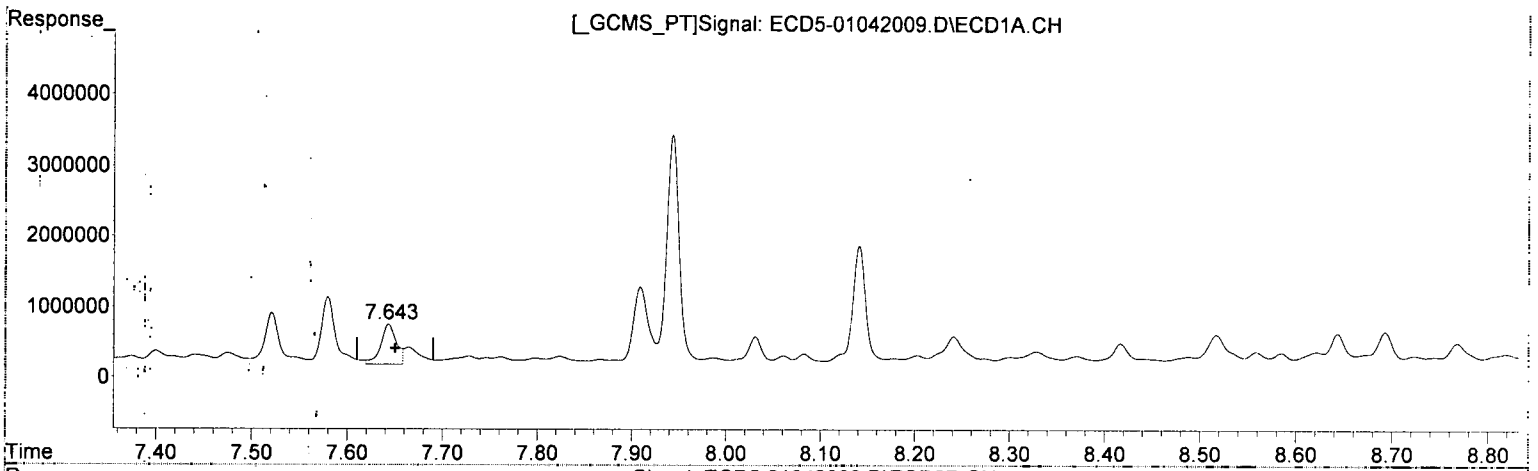
R-02 Report mkj 1/8/20

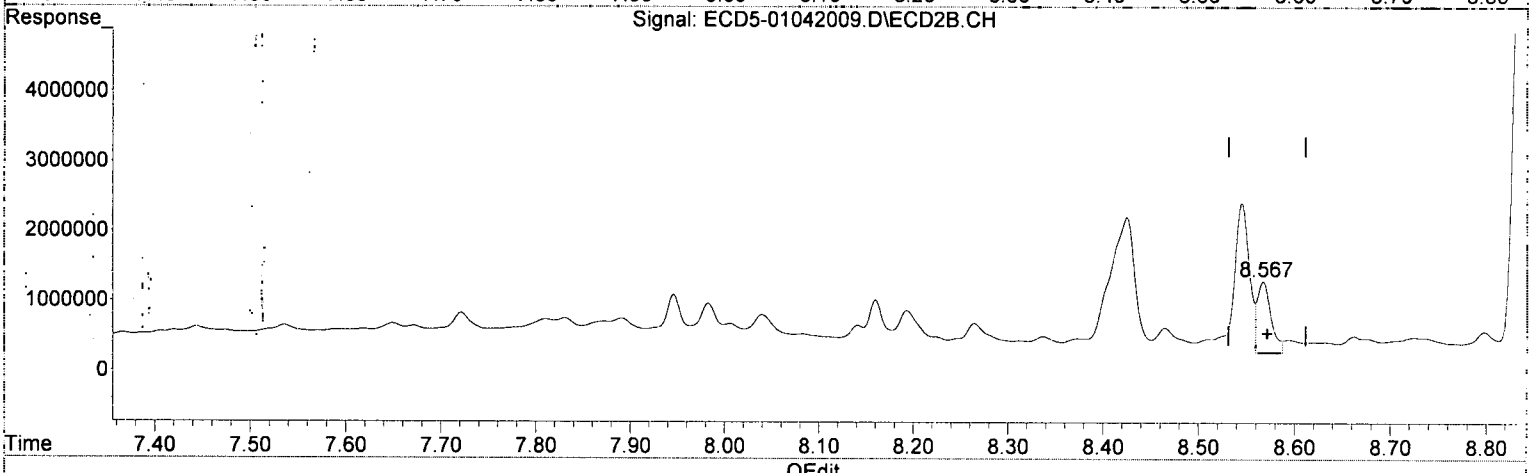
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:08
Operator : MJB
Sample : A9J0514-32RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:00 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(28) 2,4'-DDD

7.643min 5.797 ng/mL (m)

response 569951

MJB 1/6/20

(28) 2,4'-DDD #2

8.567min 6.032 ng/mL

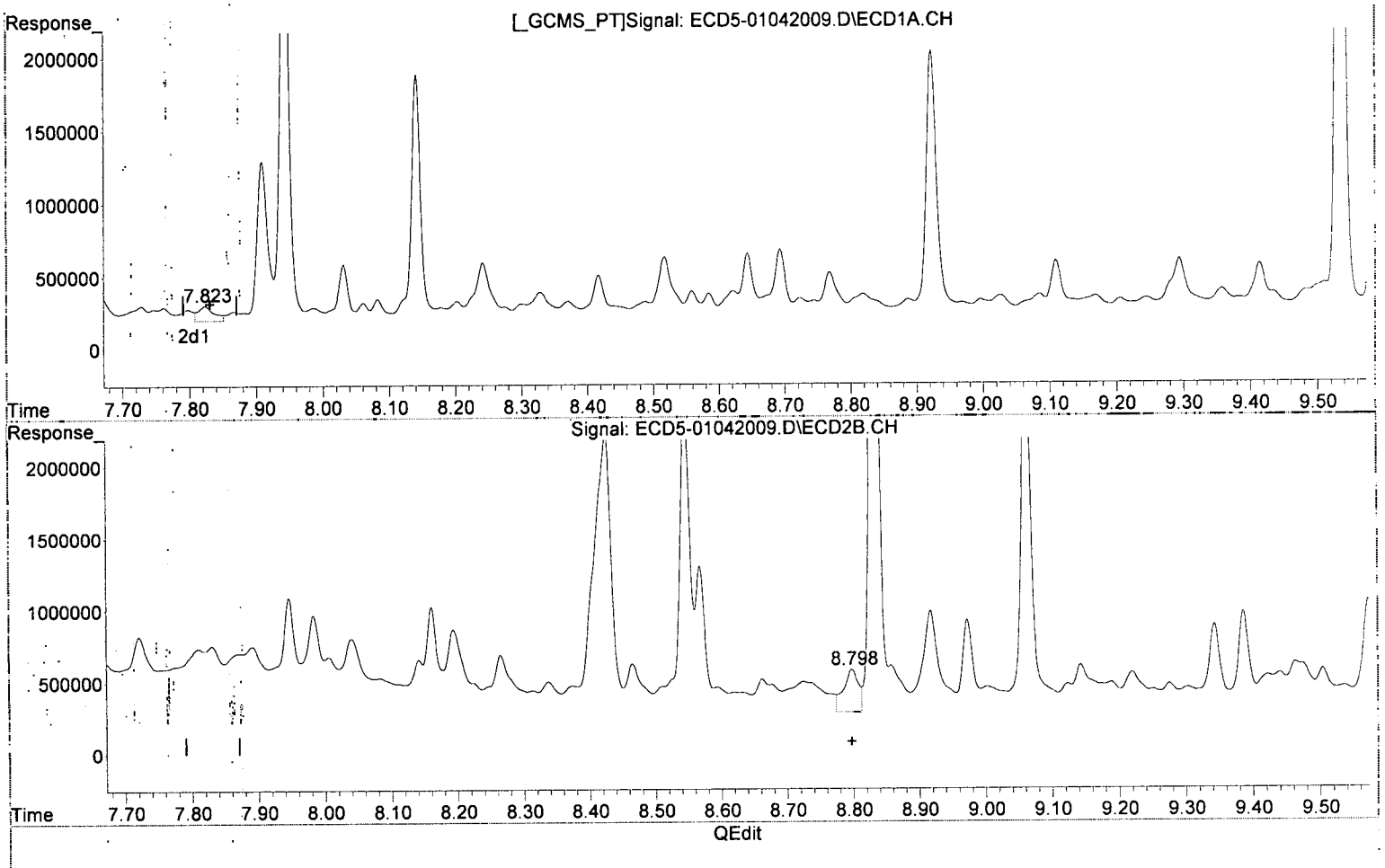
response 1022677

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:08
Operator : MJB
Sample : A9J0514-32RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:00 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.824min 1.069 ng/mL MA=MRL

response 103394

MJB 1/6/20

(29) 2,4'-DDT #2

8.798min 2.133 ng/mL 2.01

response 293639

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:08
Operator : MJB
Sample : A9J0514-32RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:00 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

ME MJB 1/6/20

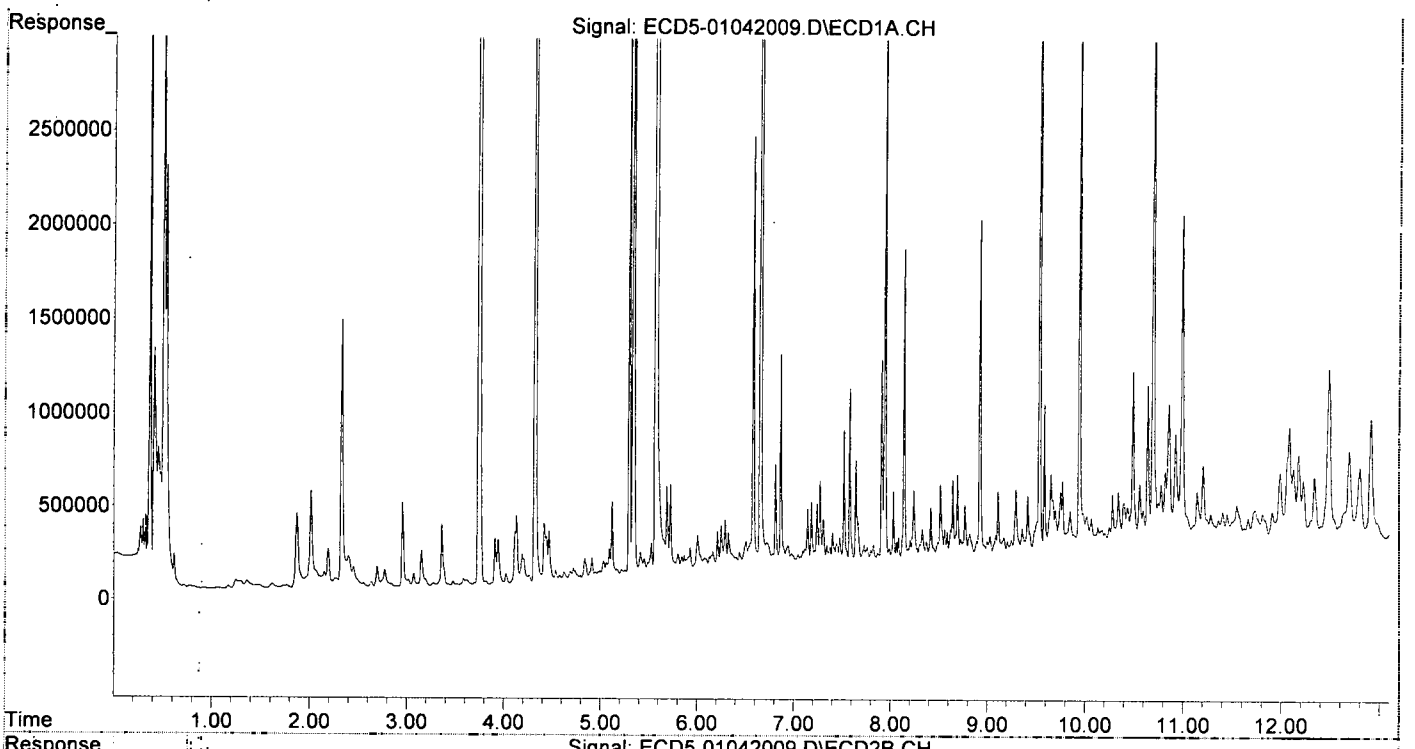
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.336	6.053	5612464	10408018	31.465	35.059	
22)	S	DCBP (S)	9.535	10.646	5985231	8338989	44.403	48.972	
		Target Compounds							
2)		a-BHC	5.867	6.661	100904	292114	0.420	0.734	#
3)		g-BHC	6.162	6.956f	114981	108.1E6	0.565	319.213	#
4)		b-BHC	6.248	7.059	247734	699226	3.494	5.046	#
5)		Heptachlor	6.581	7.367	2306698	292464	12.546	0.978	#
6)		d-BHC	6.401	7.319	76883	332343	0.524	1.140	#
7)		Aldrin	6.811	7.618	560598	344541	2.952	1.110	#
8)		Heptachlo...	7.273	8.083	457834	268673	2.548	0.938	#
9)		trans-Chl...	7.374	8.193	104137	601362	0.578	2.062	#
10)		cis-Chlor...	7.476	8.314	150065	171849	0.718	0.612	
11)		Endosulfa...	7.580	8.374	947070	200527	5.389	0.763	#
12)		4,4'-DDE	7.521	8.425	725460	1943616	4.722	7.521	#
13)		Dieldrin	7.728	8.567	105480	1022677	0.537	3.443	#
14)		Endrin	7.909	8.798	1091289	293639	7.143	1.403	#
15)		4,4'-DDD	7.943	8.833	3239437	5499142	25.991	25.492	
16)		Endosulfa...	8.061	8.917f	111018	696513	0.727	2.942	#
17)		4,4'-DDT	8.141	9.062	1675064	2761969	17.450	18.291	
18)		Endrin Al...	8.329	9.188	172281	190191	1.441	0.969	
19)		Endosulfa...	8.644	9.386	426087	670717	2.858	3.237	
20)		Methoxychlor	8.517f	9.536	409705	149602	8.495	2.175	#
21)		Endrin Ke...	8.819f	9.768	136145	474510	0.625	2.079	#
23)		Hexachlor...	3.148	3.715f	190883	797611	1.023	2.202	#
24)		Hexachlor...	5.724	6.529	486007	364412	2.953	1.244	#
25)		Oxychlordane	7.182	8.005	349113	417931	2.271	1.652	
26)		2,4'-DDE	7.273	8.193	457834	601362	4.246	3.162	
27)		trans-Non...	7.442	8.265	121174	421764	0.674	1.495	#
28)		2,4'-DDD	7.644	8.567	552873	1022677	5.623	6.032	
29)		2,4'-DDT	7.824	8.798	103394	293639	1.069	2.133	#
30)		cis-Nonac...	7.909	8.833	1091289	5499142	5.300	17.174	#
31)		Mirex	8.585	9.768	152055	474510	1.039	2.766	#
32)		Chlordane...	7.374	8.193f	104137	601362	5.450	17.708	#
33)		Chlordane...	7.476	8.337	150065	231581	6.661	8.017	
34)		Chlordane...	8.031	9.002	383172	166539	67.129	7.793	#
35)		Chlordane...	3.739	3.715	8680869	797611	NoCal	NoCal	
36)		Toxaphene...	7.476	8.567	150065	1022677	178.755	432.230	#
37)		Toxaphene...	7.761	8.917	93697	696513	55.090	235.163	#
38)		Toxaphene...	8.083	8.973	135784	632466	38.807	130.511	#
39)		Toxaphene...	8.329	9.002f	172281	166539	48.547	15.463	#
40)		Toxaphene...	8.559	9.188	167491	190191	66.108	44.147	
41)		Toxaphene...	8.585f	9.596	152055	373481	44.712	81.445	#
42)		Toxaphene...	3.739	3.715	8680869	797611	NoCal	NoCal	

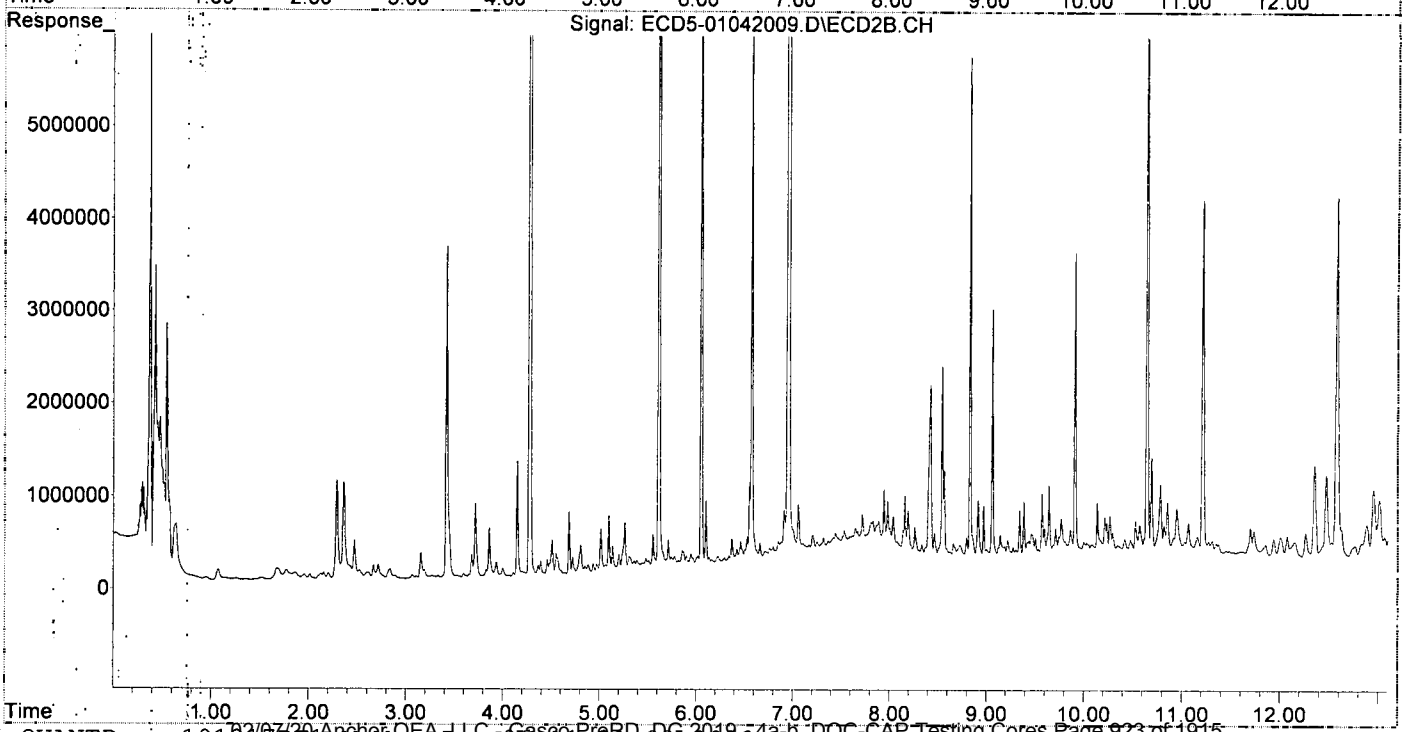
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:08
Operator : MJB
Sample : A9J0514-32RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:00 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:46
Operator : MJB
Sample : A9J0514-33RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:09 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

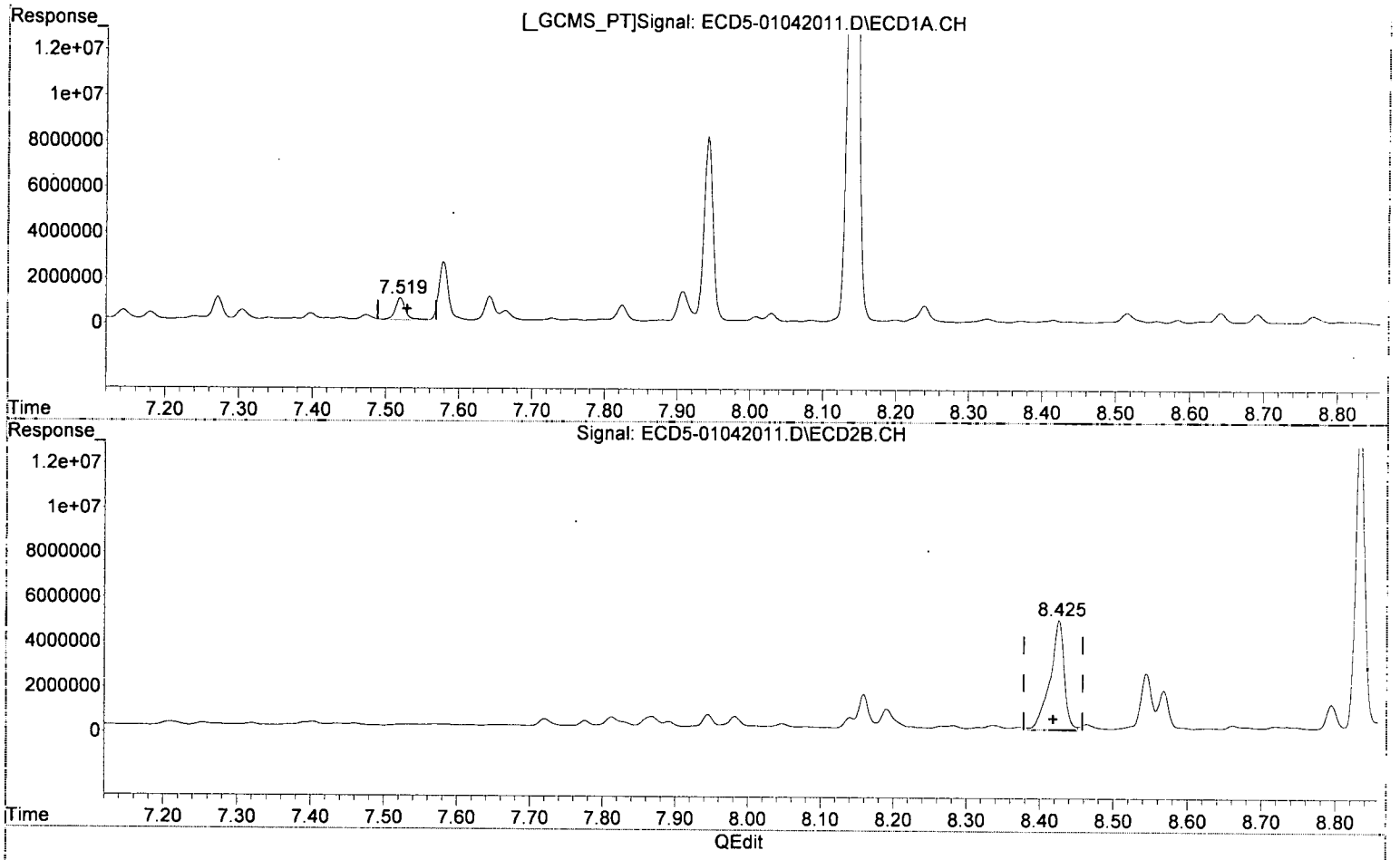
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.336	6.053	4727076	8355991	26.502	28.147	
22)	S DCBP (S)	9.534	10.645	6069504	8666585	45.022	50.896	
	Target Compounds							
2)	a-BHC	5.866	6.662	55588	254807	0.232	0.640	#
3)	g-BHC	6.162	6.955f	28860	63320493	0.142	186.996	#
4)	b-BHC	6.237	7.058	129660	201983	1.829	1.457	
5)	Heptachlor	6.580	7.320f	1047164	156025	5.695	0.521	#
6)	d-BHC	6.405	7.299	31377	106306	0.194	0.334	#
7)	Aldrin	6.808	7.618	77125	110803	0.406	0.357	
8)	Heptachlo...	7.272	8.080	986106	97360	5.489	0.340	#
9)	trans-Chl...	7.376	8.191	49799	894169	0.276	3.065	#
10)	cis-Chlor...	7.473	8.316	200113	103567	1.020	0.369	#
11)	Endosulfa...	7.579	8.371	2565344	129011	14.597	0.491	#
12)	4,4'-DDE	7.520	8.426	958464	4894236	6.238	18.637	# P-11
13)	Dieldrin	7.728	8.568	95771	1758222	0.488	5.919	#
14)	Endrin	7.908	8.794	1311321	1163346	8.583	5.705	
15)	4,4'-DDD	7.942	8.833	8099603	13891879	62.021	60.846	
16)	Endosulfa...	8.060	8.941	28353	358091	0.186	1.513	#
17)	4,4'-DDT	8.141	9.063	37688905	67176625	235.547	255.463	RR-2
18)	Endrin Al...	8.325	9.187	151675	111427	1.269	0.568	#
19)	Endosulfa...	8.642	9.385	463789	803971	3.135	3.931	
20)	Methoxychlor	8.516f	9.538	431528	166176	8.935	2.399	#
21)	Endrin Ke...	8.804f	9.767	88378	594764	0.323	2.656	#
23)	Hexachlor...	3.149	3.717f	178185	836869	0.944	2.311	#
24)	Hexachlor...	5.721	6.529	152240	250894	0.795	0.856	
25)	Oxychlordane	7.181	7.982	303674	527960	1.951	2.087	
26)	2,4'-DDE	7.272	8.191	986106	894169	9.146	4.702	# P-11
27)	trans-Non...	7.438	8.266	85739	156138	0.477	0.553	
28)	2,4'-DDD	7.642	8.568	1055194	1758222	10.732	10.371	
29)	2,4'-DDT	7.824	8.794	693887	1163346	7.171	8.595	MJB 1/6/20
30)	cis-Nonac...	7.908	8.833	1311321	13891879	6.368	43.384	#
31)	Mirex	8.584	9.767	139960	594764	0.936	3.558	#
32)	Chlordane...	7.376	8.191f	49799	894169	2.606	26.330	#
33)	Chlordane...	7.473	8.336	200113	199182	8.883	6.895	
34)	Chlordane...	8.029	9.010	352419	165356	61.741	7.640	#
35)	Chlordane...	3.739	3.717	8394860	836869	NoCal	NoCal	
36)	Toxaphene...	7.473	8.568	200113	1758222	239.102	743.104	#
37)	Toxaphene...	7.759	8.917	57391	643839	32.326	217.378	#
38)	Toxaphene...	8.083	8.972	59160	1189432	15.183	245.442	#
39)	Toxaphene...	8.325	9.010	151675	165356	41.987	15.292	#
40)	Toxaphene...	8.556	9.187	89544	111427	35.343	24.527	
41)	Toxaphene...	8.616	9.594	80165	472919	23.573	103.129	#
42)	Toxaphene...	3.739	3.717	8394860	836869	NoCal	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:46
Operator : MJB
Sample : A9J0514-33RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:09 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.520min 6.238 ng/mL

response 958464

P-11

MJB 1/6/20

(12) 4,4'-DDE #2

8.426min 18.637 ng/mL

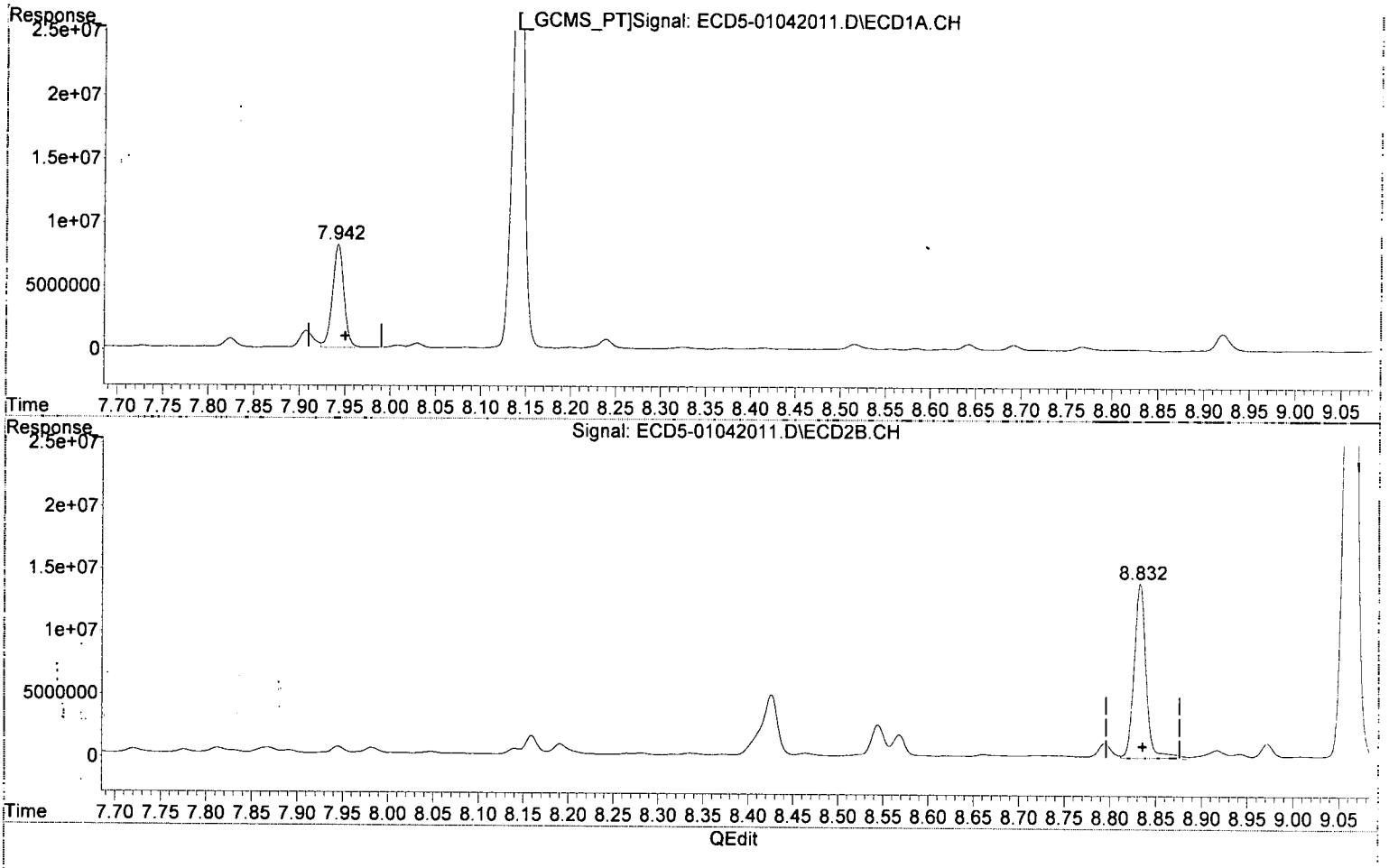
response 4894236

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:46
Operator : MJB
Sample : A9J0514-33RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:09 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.942min 62.021 ng/mL

response 8099603

WP 1/6/20

(15) 4,4'-DDD #2

8.833min 60.846 ng/mL

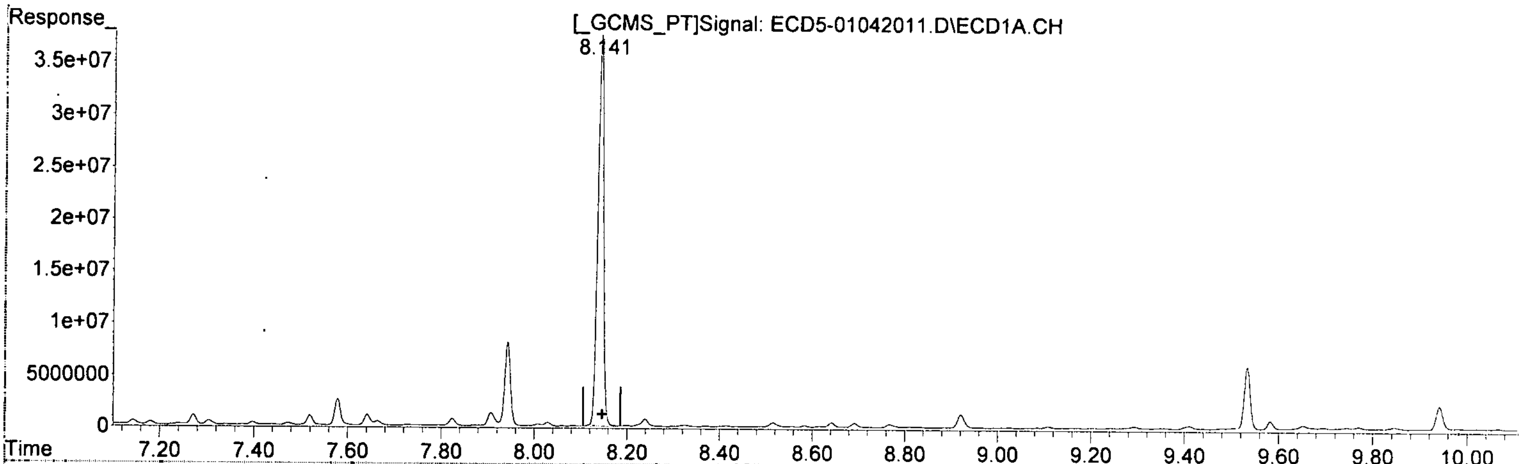
response 13891879

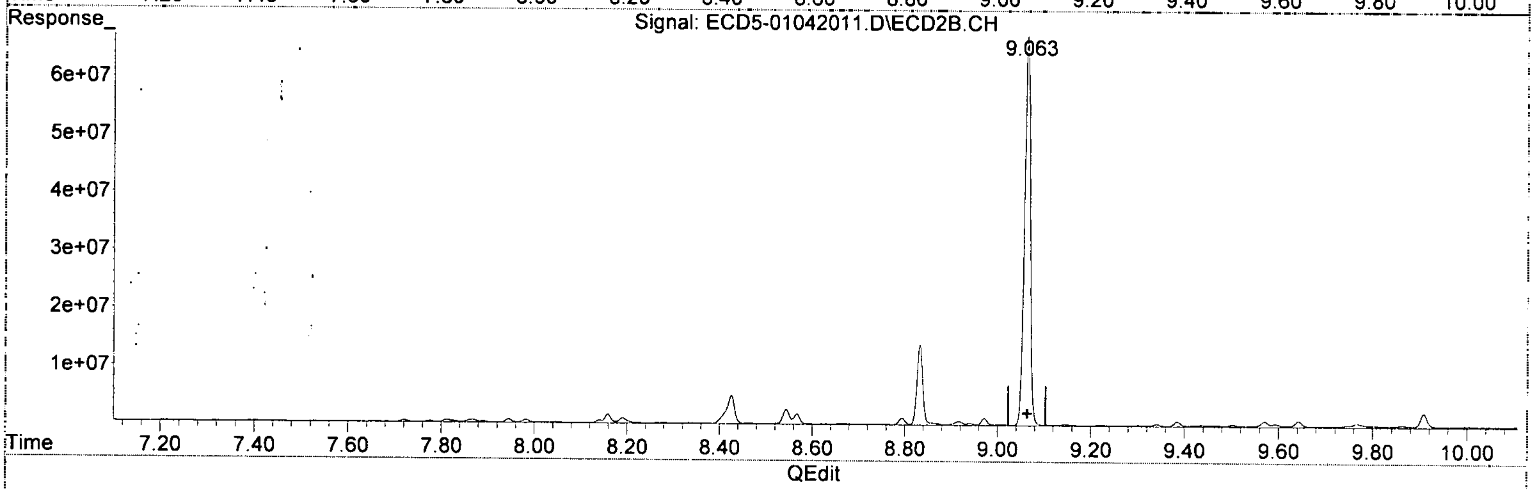
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:46
Operator : MJB
Sample : A9J0514-33RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:09 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(17) 4,4'-DDT

8.141min 235.547 ng/mL

response 37688905

RR-2

MJB 1/6/20

(17) 4,4'-DDT #2

9.063min 255.463 ng/mL

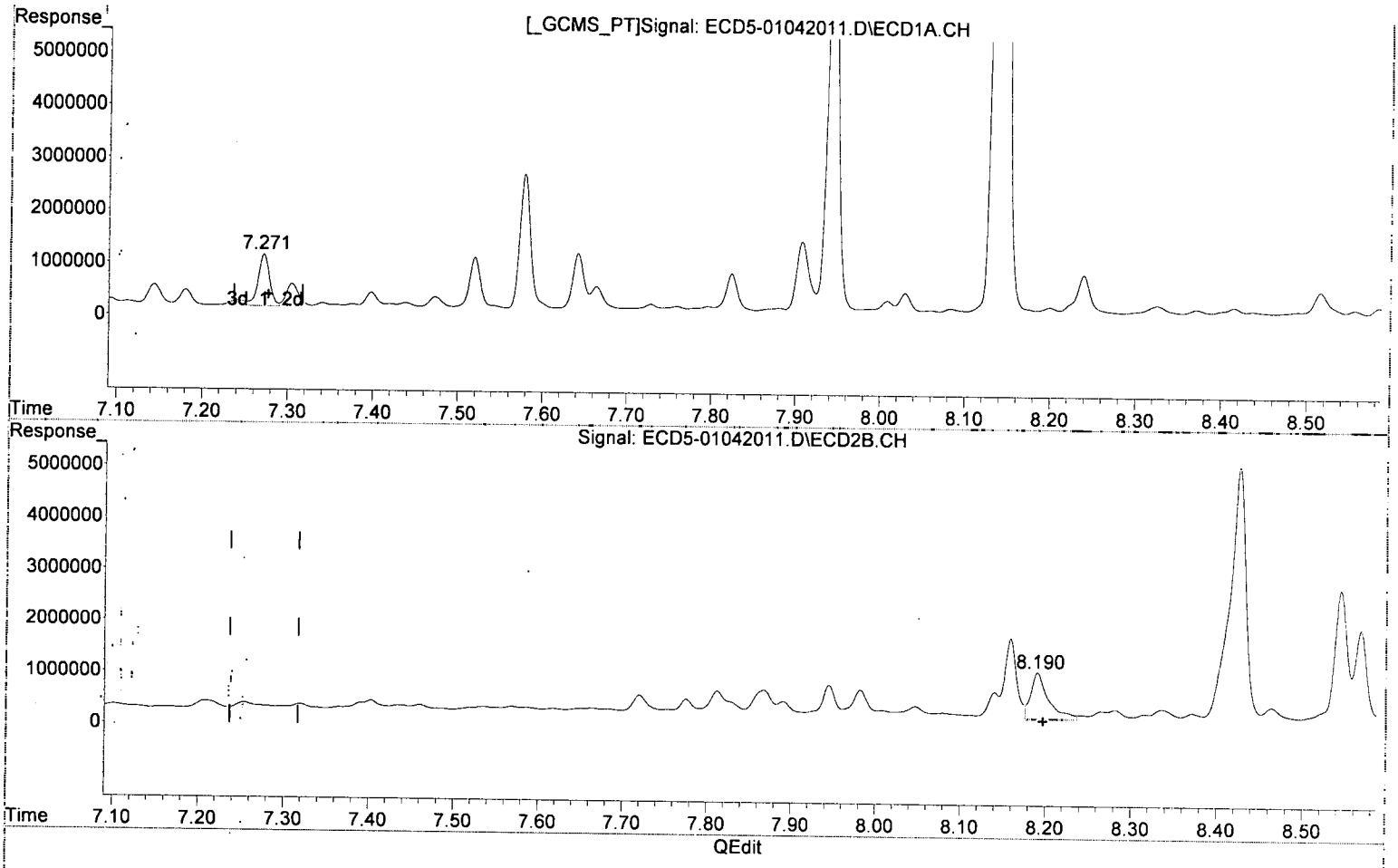
response 67176625

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:46
Operator : MJB
Sample : A9J0514-33RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:09 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.272min 9.146 ng/mL

response 986106

MJB 1/6/20

P-11

(26) 2,4'-DDE #2

8.191min 4.702 ng/mL

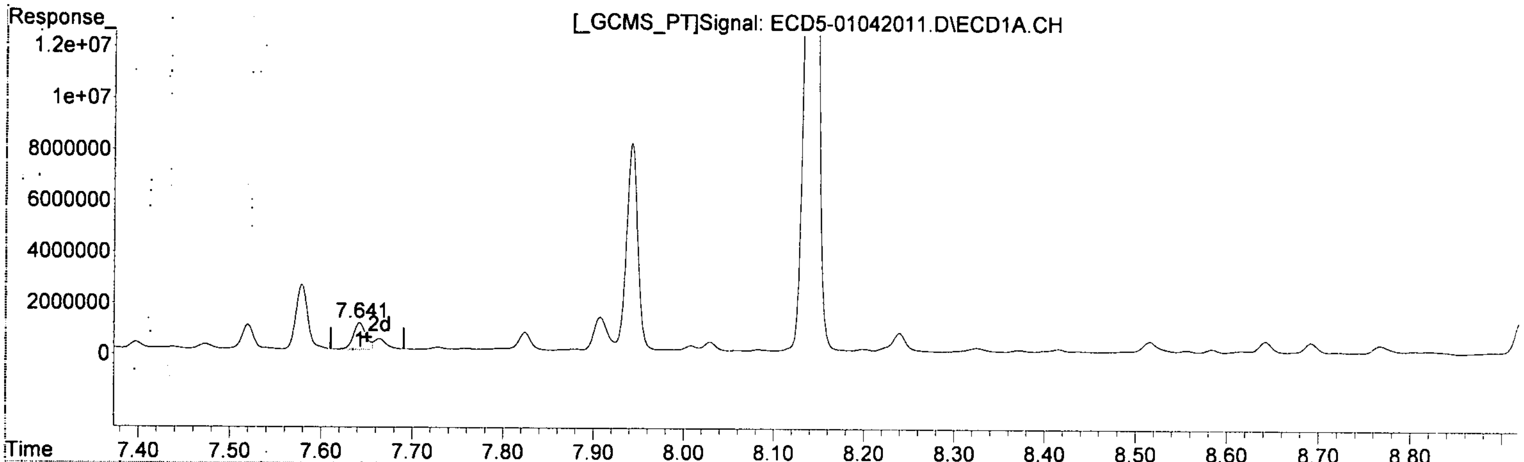
response 894169

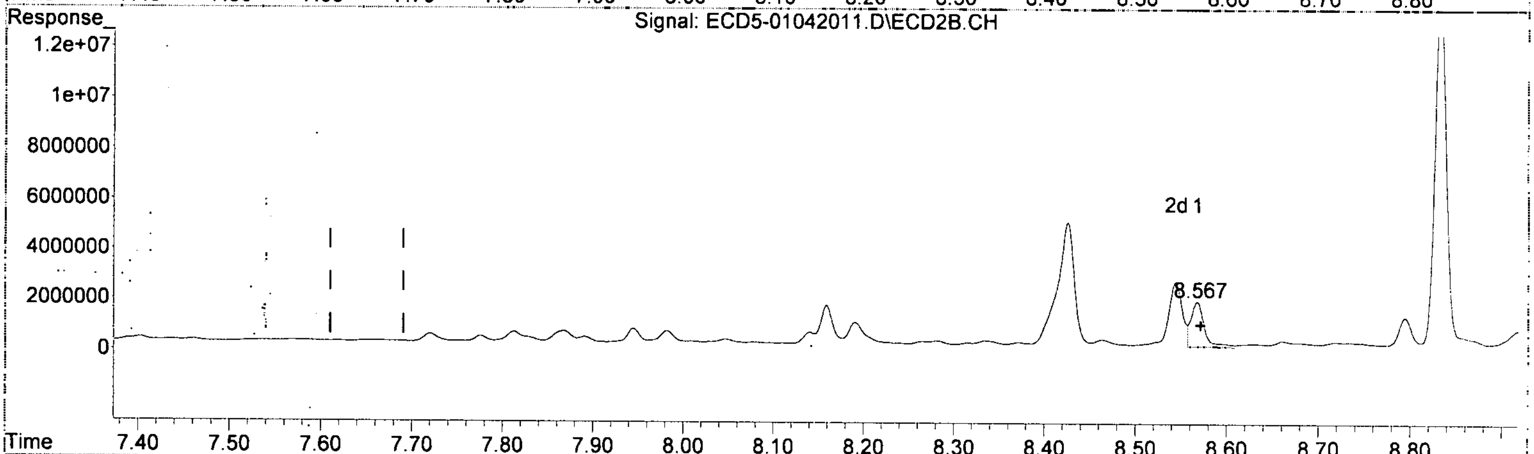
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:46
Operator : MJB
Sample : A9J0514-33RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:09 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(28) 2,4'-DDD

7.642min 10.732 ng/mL

response 1055194

MJB 1/6/20

(28) 2,4'-DDD #2

8.568min 10.371 ng/mL

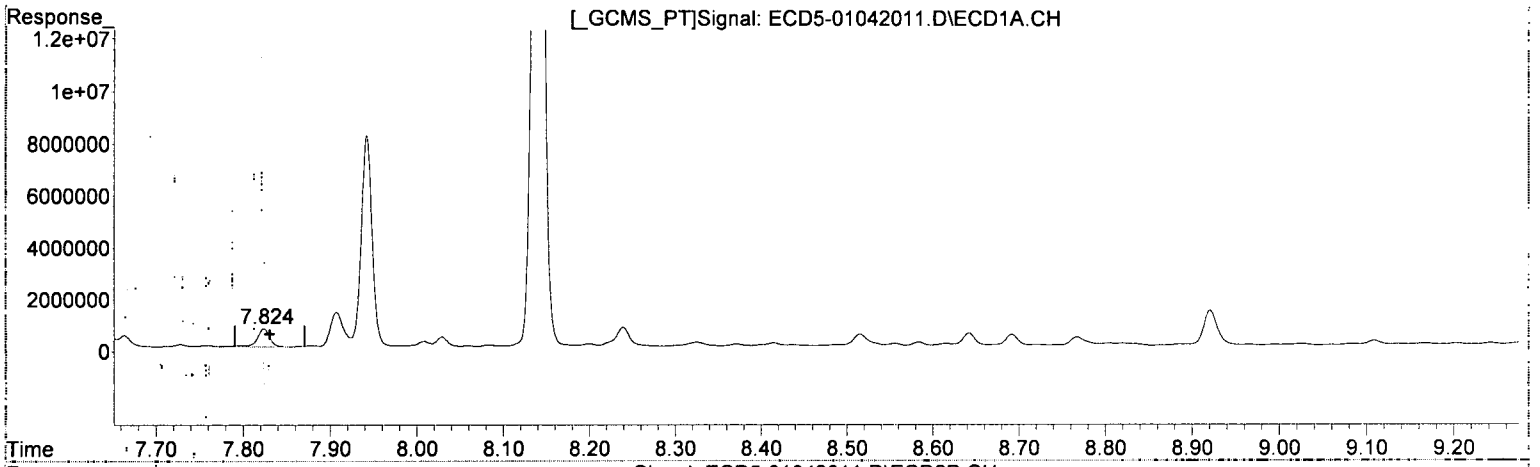
response 1758222

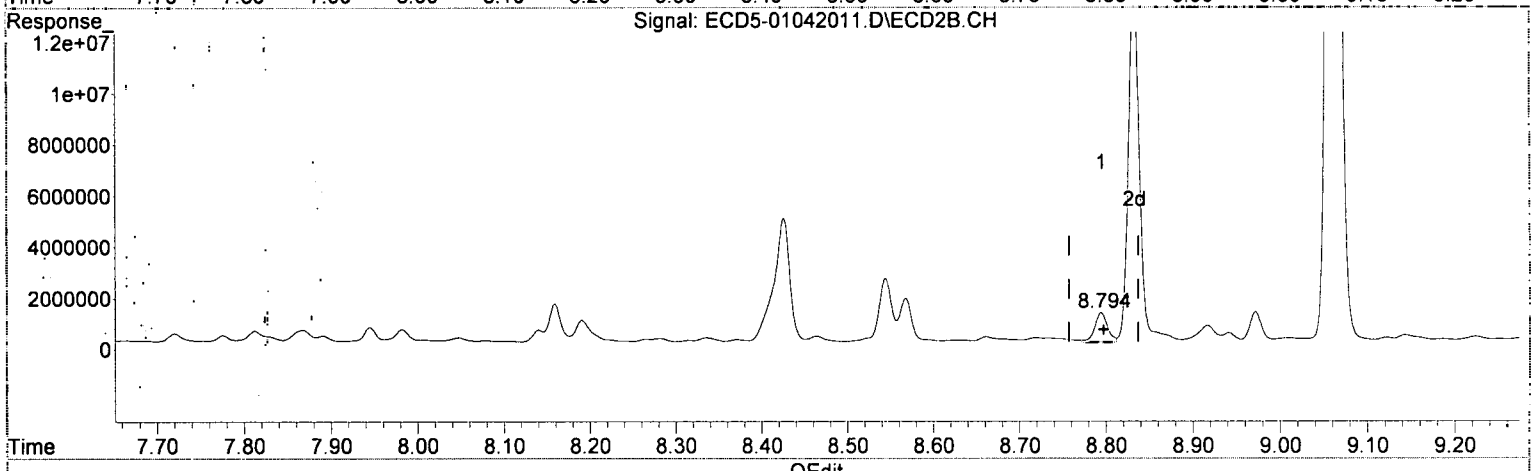
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:46
Operator : MJB
Sample : A9J0514-33RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:09 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(29) 2,4'-DDT

7.824min 7.171 ng/mL

response 693887

MJB 1/6/20

(29) 2,4'-DDT #2

8.794min 8.595 ng/mL ~~Q-at~~ MJB 1/6/20

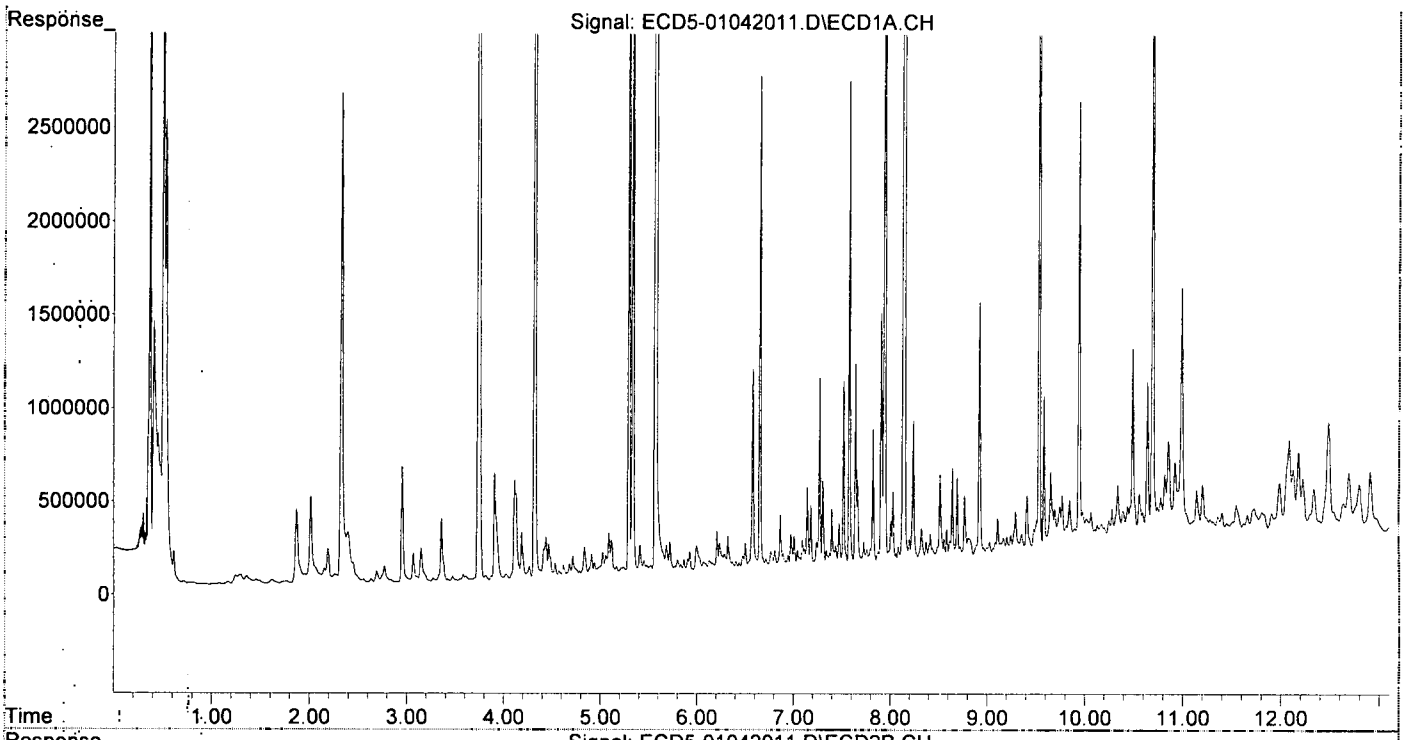
response 1163346

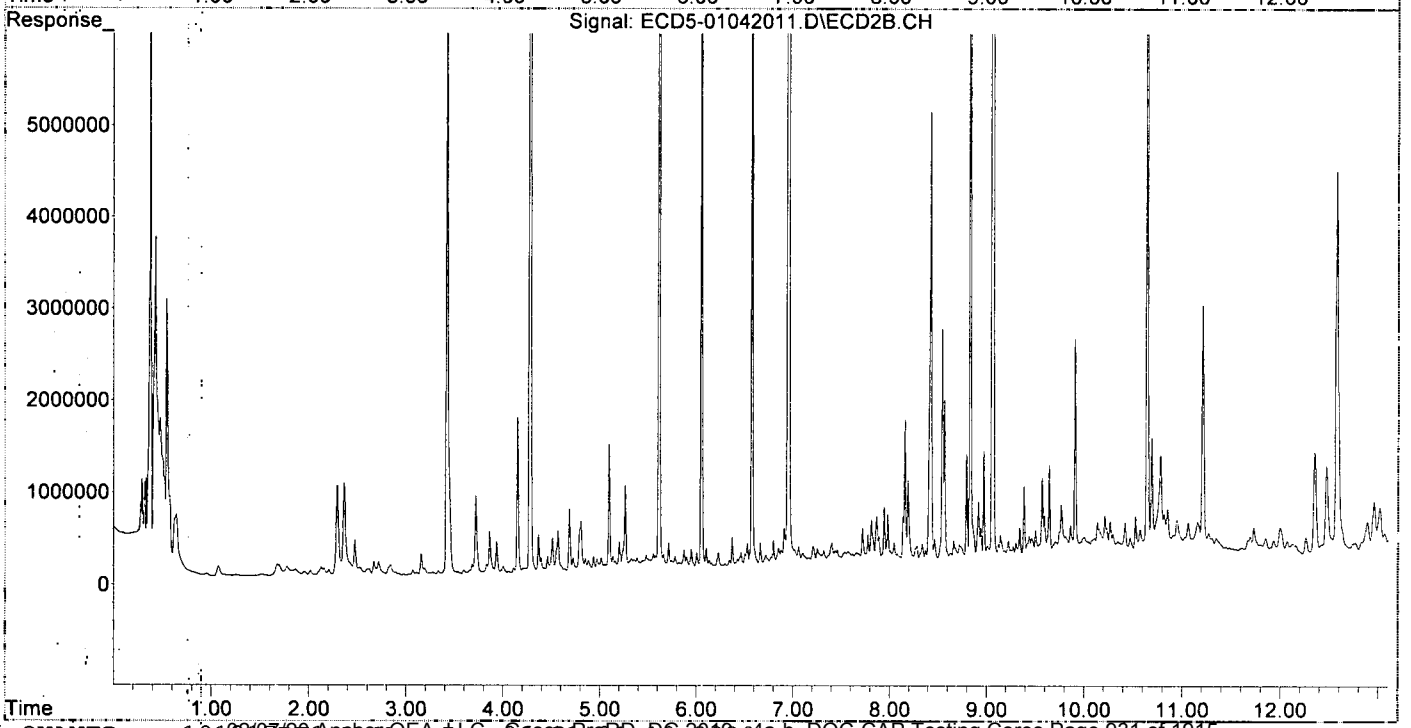
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 18:46
Operator : MJB
Sample : A9J0514-33RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:09 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 19:23
Operator : MJB
Sample : A9J0514-34RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

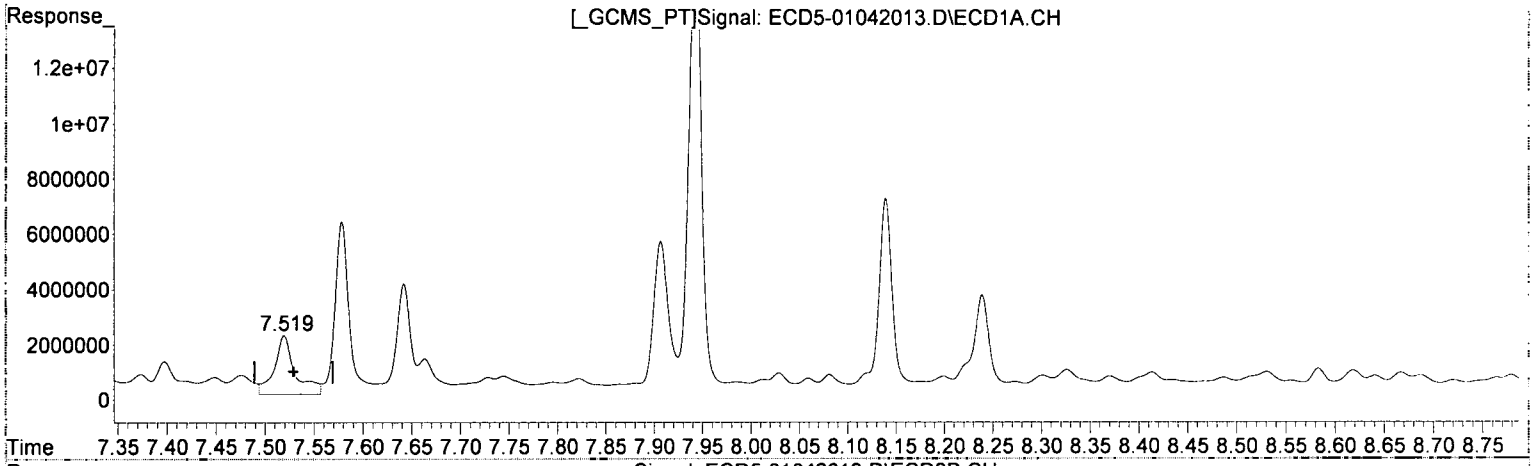
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.336	6.053	5487394	9537471	30.764	32.127	
22)	S DCBP (S)	9.533	10.645	5859295	7921905	43.477	46.523	
	Target Compounds							
2)	a-BHC	5.886	6.661	415774	1142432	1.732	2.871	#
3)	g-BHC	6.162	6.962	408053	202.5E6	2.007	598.034	#
4)	b-BHC	6.247	7.055	1954879	4160862	27.572	30.024	
5)	Heptachlor	6.579	7.367	8251648	1064373	44.880	3.558	#
6)	d-BHC	0.000	7.293	0	973339	N.D.	3.411	#
7)	Aldrin	6.810	7.642	1952714	1277048	10.283	4.116	#
8)	Heptachlo...	7.271	8.080	1977367	883049	11.006	3.083	#
9)	trans-Chl...	7.373	8.191	737785	3224600	4.092	11.055	#
10)	cis-Chlor...	7.476	8.334f	713325	961089	4.113	3.425	
11)	Endosulfa...	7.578	8.373	6243056	851376	35.524	3.239	#
12)	4,4'-DDE	7.519	8.425	2137684	11455463	13.914	41.916	#
13)	Dieldrin	7.744	8.567	668322	6797828	3.405	22.885	#
14)	Endrin	7.907	8.797	5507565	1302202	36.048	6.386	#
15)	4,4'-DDD	7.942	8.833	17047235	29818820	120.958	119.239	
16)	Endosulfa...	8.059	8.972f	577412	5680190	3.779	23.992	#
17)	4,4'-DDT	8.139	9.061	7068473	11906394	64.439	67.905	
18)	Endrin Al...	8.326	9.209f	881501	685394	7.374	3.492	#
19)	Endosulfa...	8.641	9.387	660448	877819	4.582	4.315	
20)	Methoxychlor	8.487	9.538	594004	579726	12.192	7.929	
21)	Endrin Ke...	8.803f	9.775	623359	1029986	3.693	4.731	
23)	Hexachlor...	3.147	3.716f	208577	726185	1.134	2.005	#
24)	Hexachlor...	5.722	6.527	1132872	979615	7.106	3.343	#
25)	Oxychlordane	7.182	8.004	730981	1317718	4.956	5.208	
26)	2,4'-DDE	7.271	8.191	1977367	3224600	18.340	16.956	
27)	trans-Non...	7.448	8.266	627130	986294	3.489	3.496	
28)	2,4'-DDD	7.642	8.567	4016470	6797828	40.849	40.096	
29)	2,4'-DDT	7.822	8.797	574435	1302202	5.937 7.02	9.609	#
30)	cis-Nonac...	7.907	8.833	5507565	29818820	26.746	93.123	#
31)	Mirex	8.583	9.775	920901	1029986	7.574	6.413	
32)	Chlordane...	7.373	8.243	737785	786190	38.614	23.150	#
33)	Chlordane...	7.476	8.334	713325	961089	31.663	33.271	
34)	Chlordane...	8.029	9.010	766983	661018	134.369	71.428	#
35)	Chlordane...	3.739	3.716	8504249	726185	NoCal	NoCal	
36)	Toxaphene...	7.476	8.567	713325	6797828	850.366	2873.069	#
37)	Toxaphene...	7.744	8.911	668322	1780976	417.148	601.309	#
38)	Toxaphene...	8.081	8.972	709050	5680190	213.545	1172.119	#
39)	Toxaphene...	8.302	9.024	678169	655304	208.284	85.564	#
40)	Toxaphene...	8.530	9.209	808606	685394	319.153	166.075	#
41)	Toxaphene...	8.619	9.592	847260	636071	249.140	138.708	#
42)	Toxaphene...	3.739	3.716	8504249	726185	NoCal	NoCal	

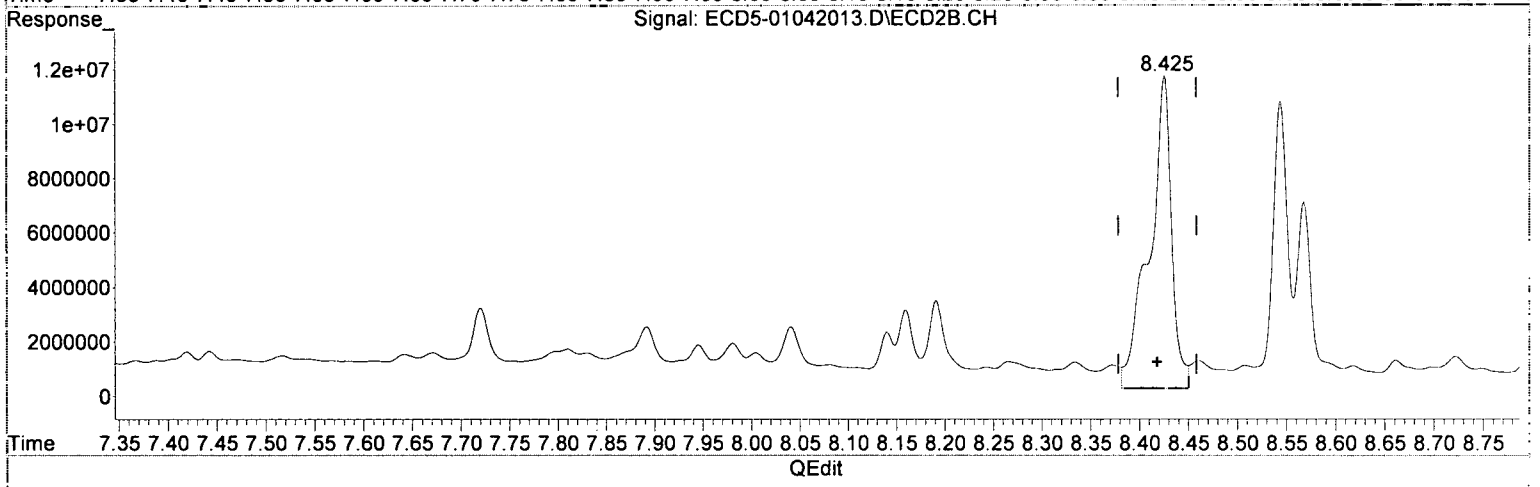
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 19:23
Operator : MJB
Sample : A9J0514-34RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(12) 4,4'-DDE

7.519min 13.914 ng/mL

response 2137684

MJB 1/6/20

(12) 4,4'-DDE #2

8.425min 41.916 ng/mL

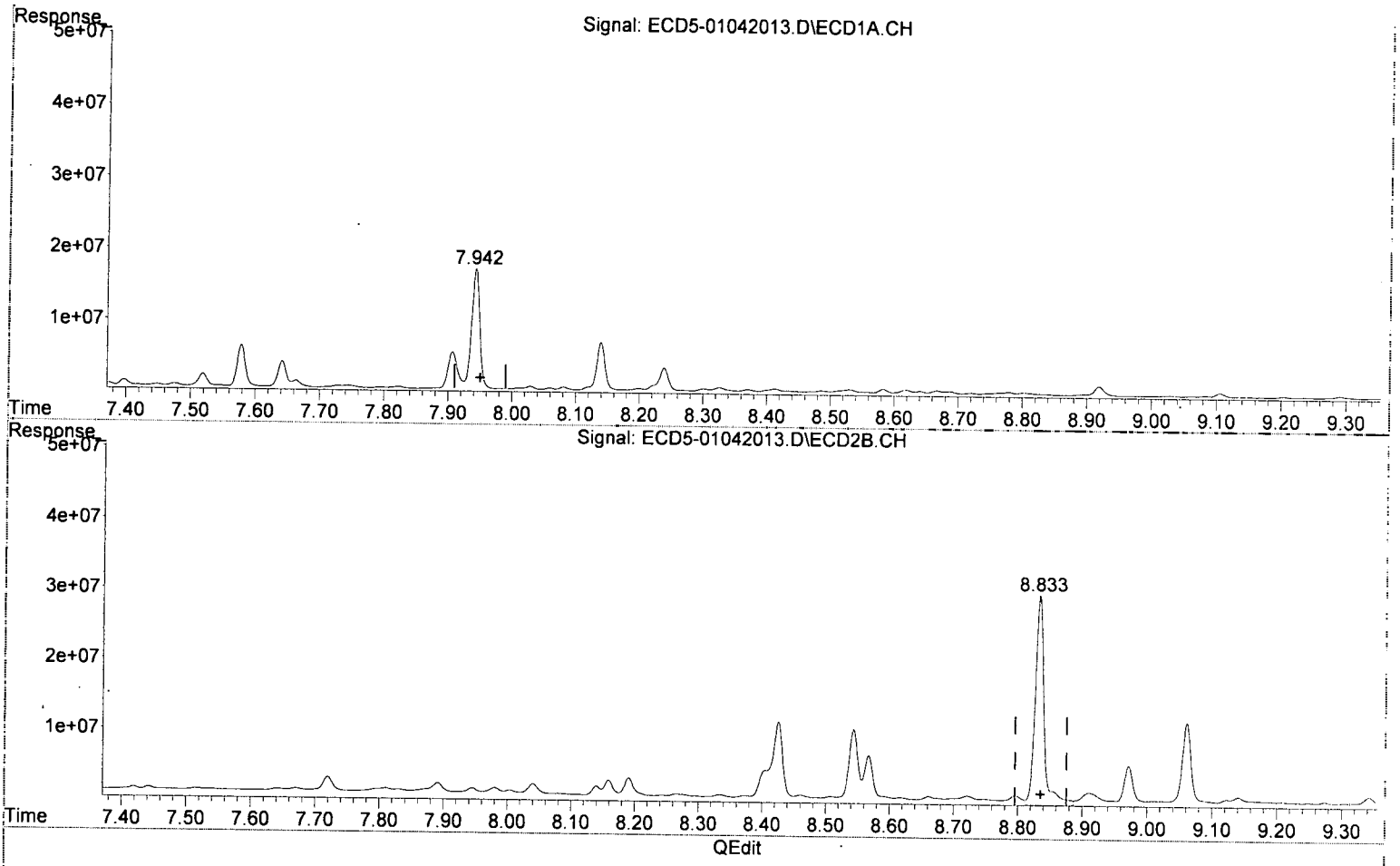
response 11455463

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 19:23
Operator : MJB
Sample : A9J0514-34RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.942min 120.958 ng/mL

response 17047235

MS 1/14/20

(15) 4,4'-DDD #2

8.833min 119.239 ng/mL

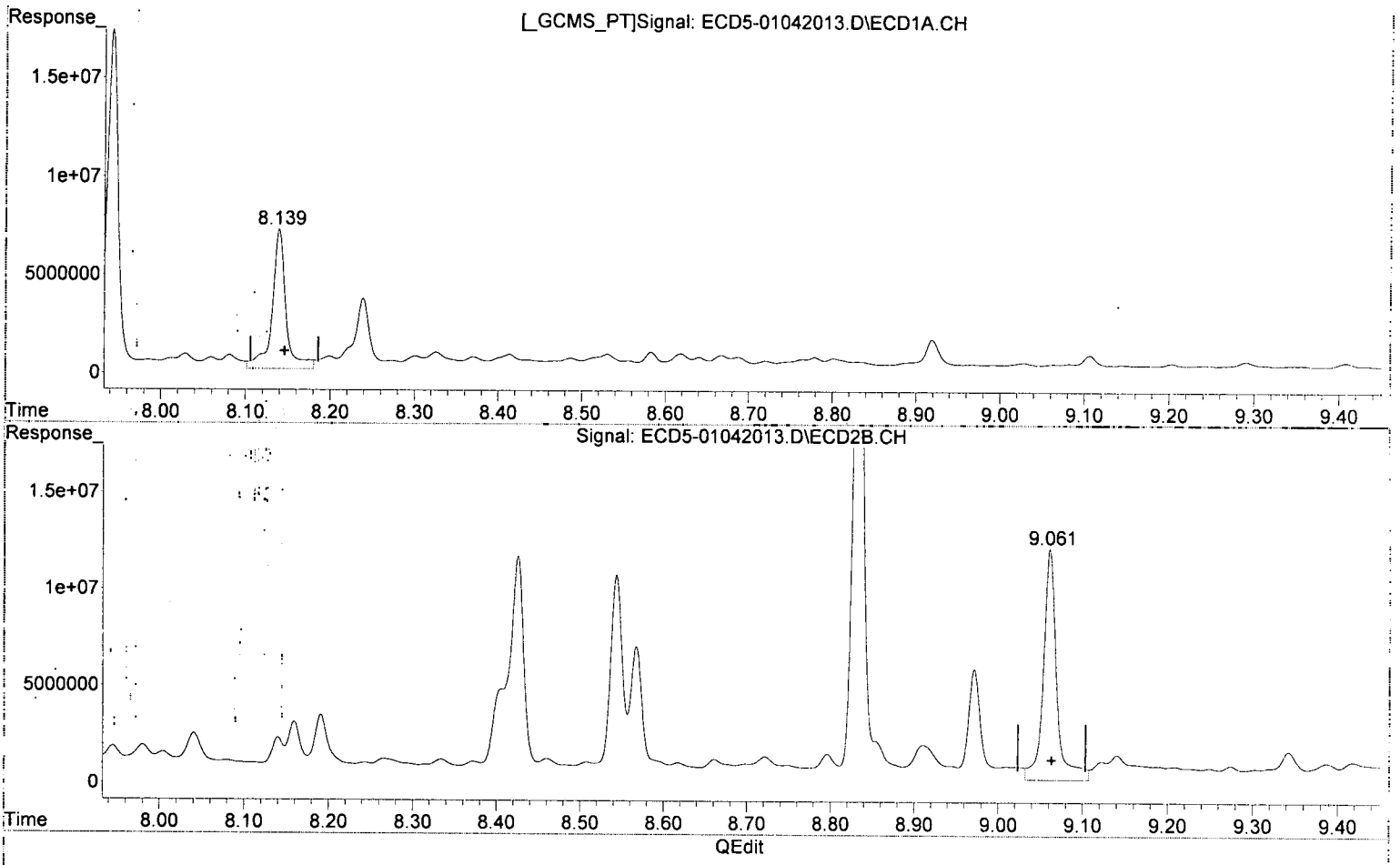
response 29818820

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 19:23
Operator : MJB
Sample : A9J0514-34RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.139min ~~64.439~~ ng/mL

response 7068473

MJB 1/6/20

(17) 4,4'-DDT #2

9.061min 67.905 ng/mL Q-41

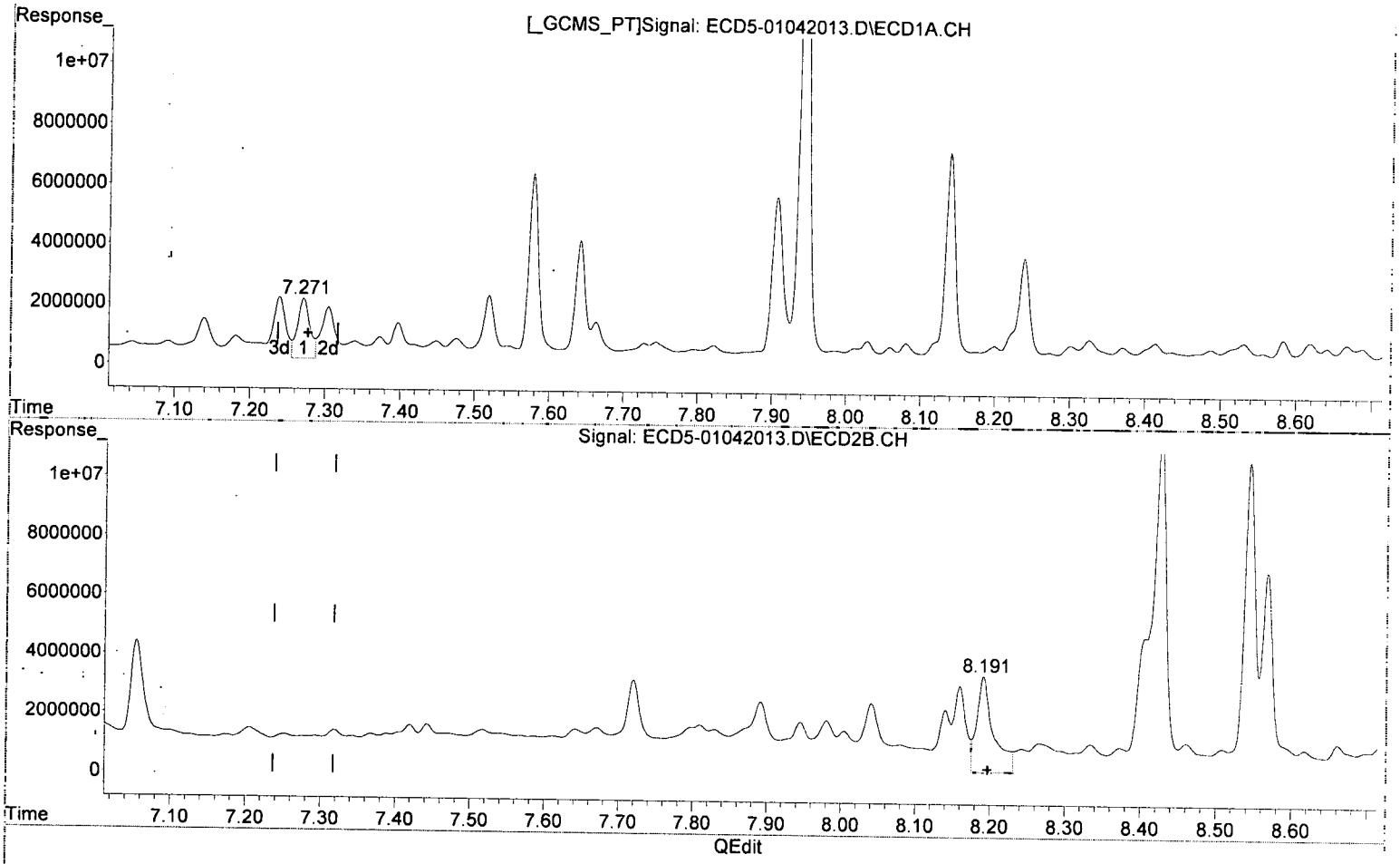
response 11906394

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 19:23
Operator : MJB
Sample : A9J0514-34RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.271min 18.340 ng/mL

response 1977367

MJB 1/6/20

(26) 2,4'-DDE #2

8.191min 16.956 ng/mL

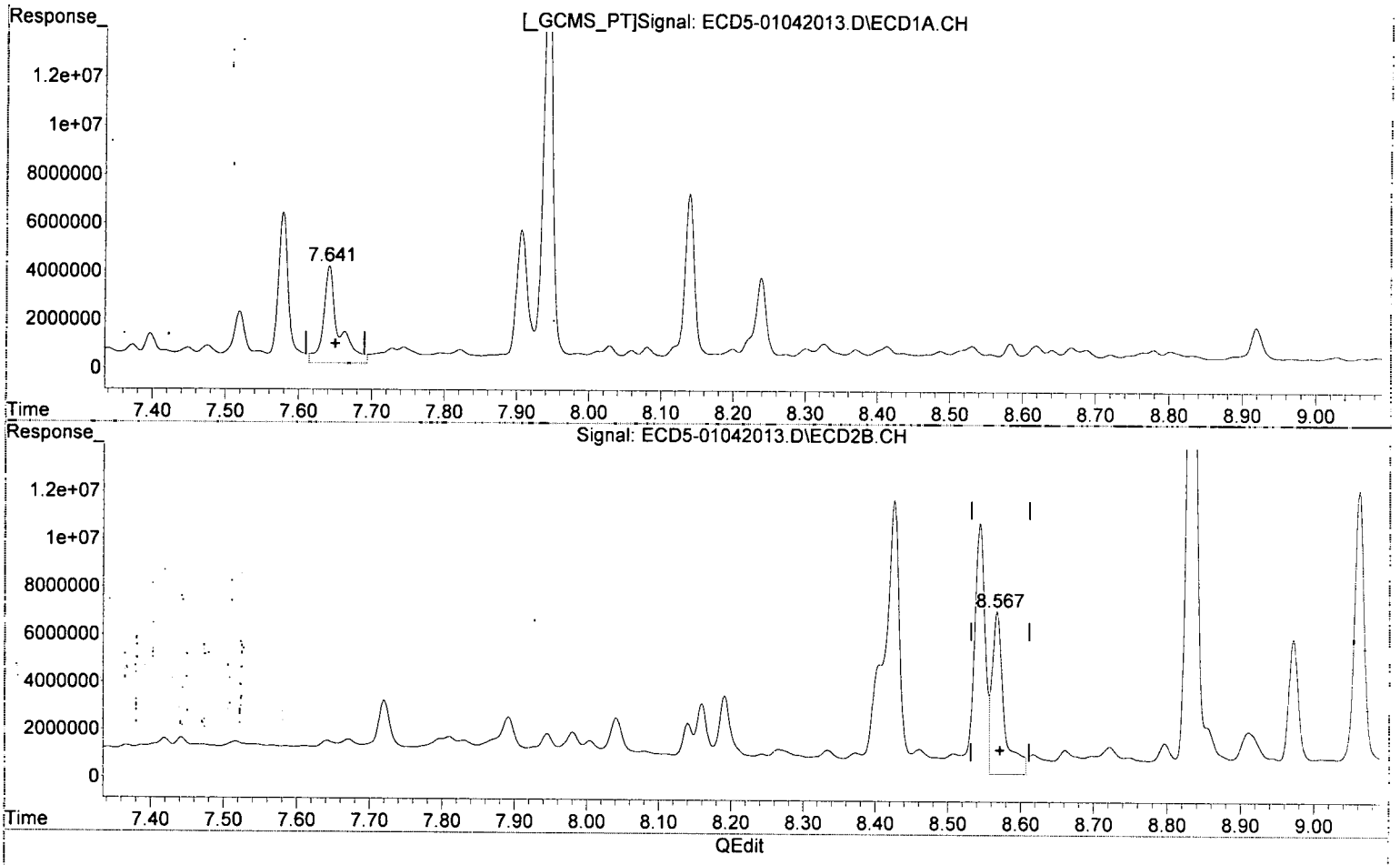
response 3224600

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 19:23
Operator : MJB
Sample : A9J0514-34RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.642min 40.849 ng/mL

response 4016470

MJB 1/6/20

(28) 2,4'-DDD #2

8.567min 40.096 ng/mL

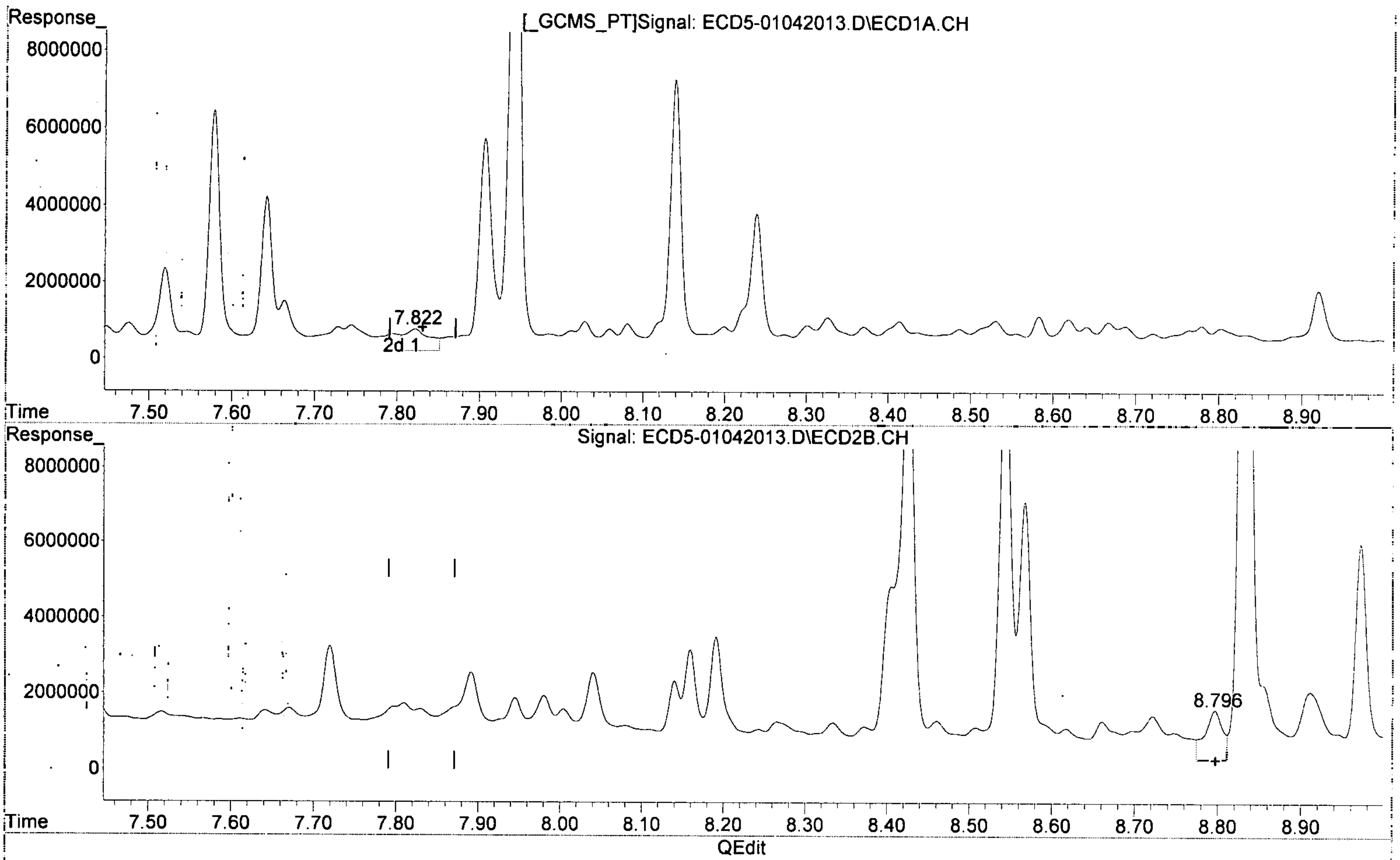
response 6797828

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 19:23
Operator : MJB
Sample : A9J0514-34RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.822min 5.937 ng/mL 9.02

response 574435

MJB 1/6/20

(29) 2,4'-DDT #2

8.797min 9.609 ng/mL 9.01

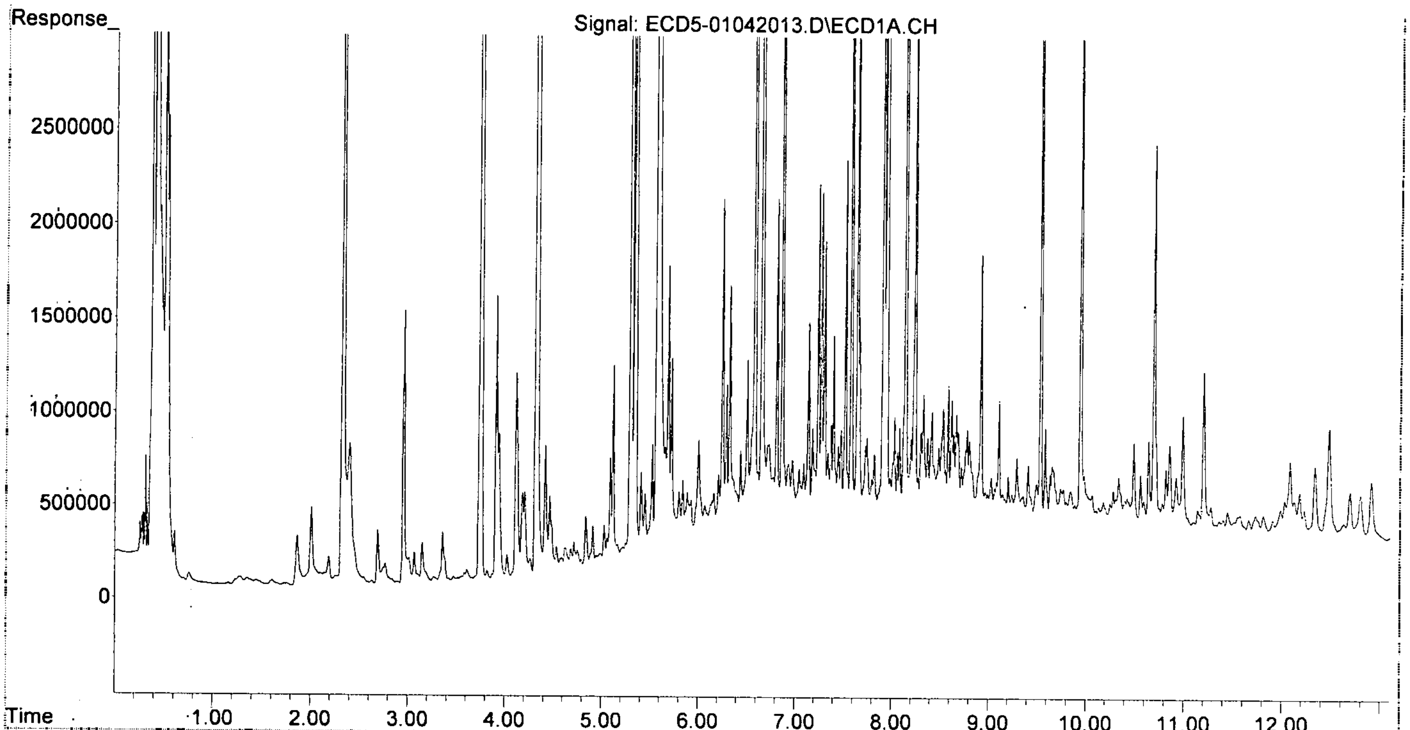
response 1302202

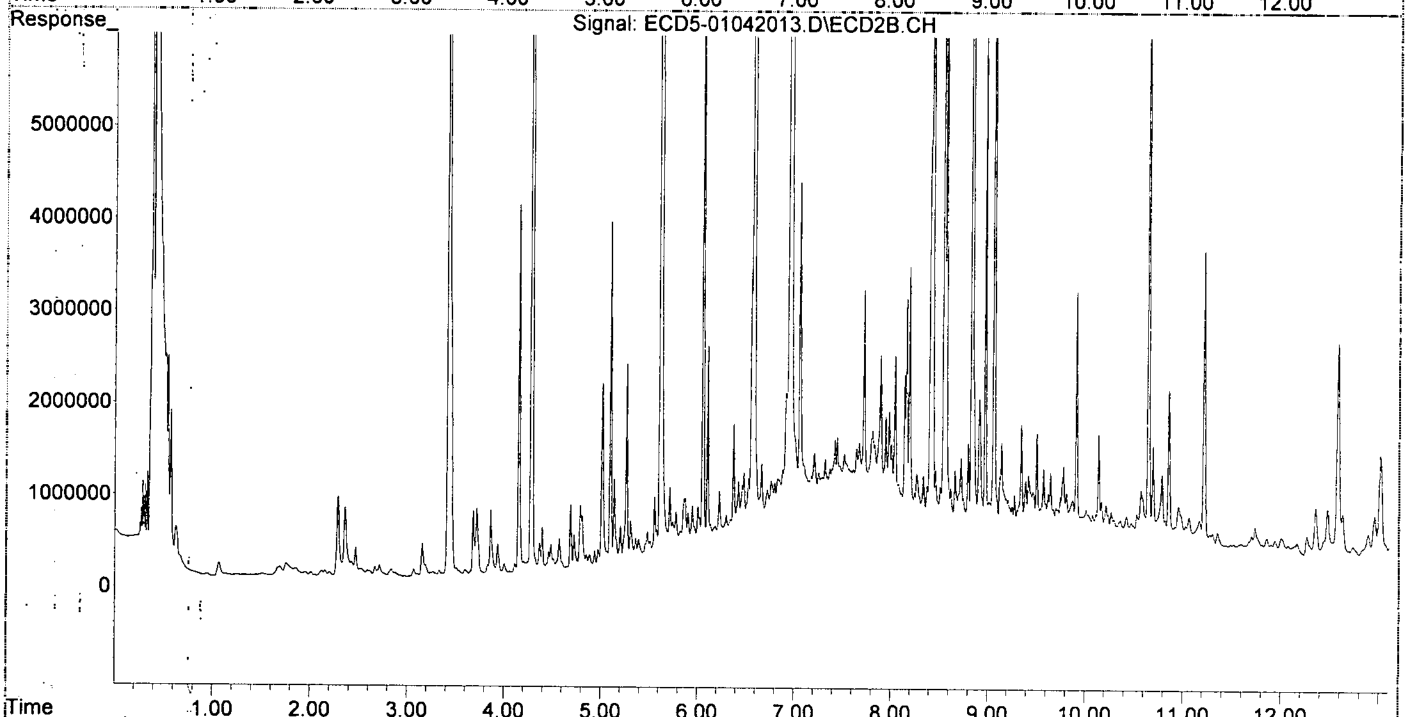
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 19:23
Operator : MJB
Sample : A9J0514-34RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:21:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 20:01
Operator : MJB
Sample : A9J0514-36RE1
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: Jan 06 11:21:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

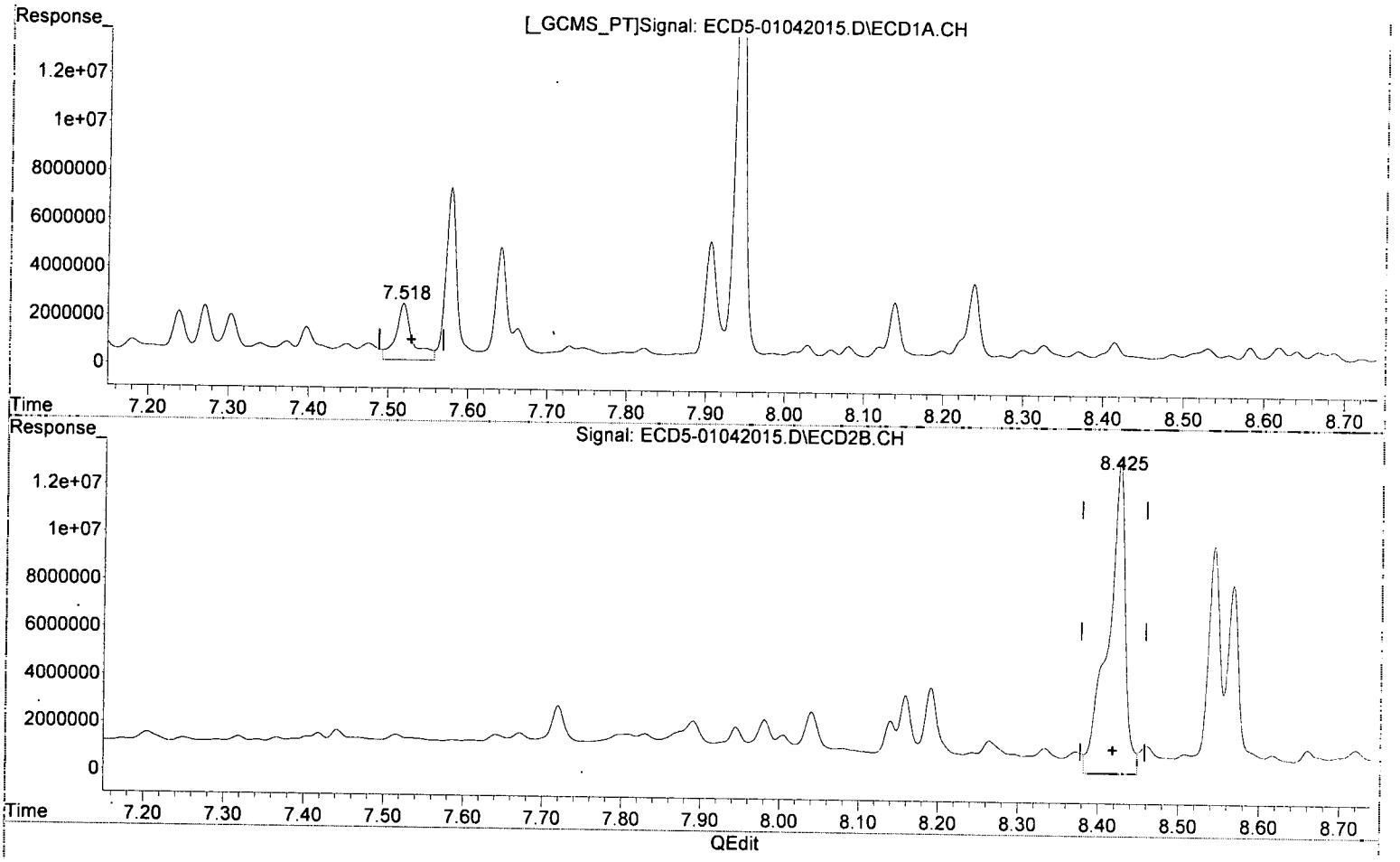
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.335	6.052	6257887	11101519	35.084	37.395	
22)	S DCBP (S)	9.532	10.643	6218952	8622233	46.120	50.636	
	Target Compounds							
2)	a-BHC	5.885	6.660	435983	1172340	1.816	2.946	#
3)	g-BHC	6.161	6.960f	422151	202.5E6	2.076	597.998	#
4)	b-BHC	6.246	7.054	2017455	4215145	28.454	30.416	
5)	Heptachlor	6.579	7.366	7374945	1113752	40.112	3.723	#
6)	d-BHC	0.000	7.294	0	997536	N.D.	3.497	#
7)	Aldrin	6.809	7.641	2004690	1324806	10.557	4.270	#
8)	Heptachlo...	7.271	8.079	2190367	929729	12.191	3.246	#
9)	trans-Chl...	7.373	8.190	730418	3521806	4.051	12.074	#
10)	cis-Chlor...	7.475	8.334	681864	1037688	3.923	3.697	
11)	Endosulfa...	7.578	8.372	7192019	911250	40.924	3.467	#
12)	4,4'-DDE	7.519	8.425	2339584	13032506	15.228	47.253	# P-11
13)	Dieldrin	7.728	8.567	660076	7931860	3.363	26.702	#
14)	Endrin	7.906	8.795	5066449	1370572	33.161	6.720	#
15)	4,4'-DDD	7.942	8.832	19186084	33777230	133.950	132.445	
16)	Endosulfa...	8.059	8.971f	638968	5437508	4.182	22.967	#
17)	4,4'-DDT	8.139	9.060	2614189	4446110	26.513	28.440	# Q-11
18)	Endrin Al...	8.326	9.188	924584	715055	7.735	3.643	#
19)	Endosulfa...	8.640	9.386	788983	932470	5.526	4.599	
20)	Methoxychlor	8.487	9.570f	619382	1079887	12.696	14.419	
21)	Endrin Ke...	8.803f	9.774	638003	1045399	3.785	4.805	
23)	Hexachlor...	3.147	3.716f	240157	794671	1.331	2.194	#
24)	Hexachlor...	5.722	6.525	1397131	1075548	8.792	3.671	#
25)	Oxychlordane	7.181	8.004	773464	1453214	5.254	5.744	
26)	2,4'-DDE	7.271	8.190	2190367	3521806	20.315	18.518	
27)	trans-Non...	7.448	8.264	646257	1331627	3.595	4.720	
28)	2,4'-DDD	7.641	8.567	4723807	7931860	48.043	46.785	
29)	2,4'-DDT	7.822	8.795	612142	1370572	6.326	10.106	# P-01
30)	cis-Nonac...	7.906	8.832	5066449	33777230	24.604	105.485	#
31)	Mirex	8.583	9.774	926752	1045399	7.624	6.514	
32)	Chlordane...	7.373	8.243	730418	826474	38.228	24.337	
33)	Chlordane...	7.475	8.334	681864	1037688	30.267	35.923	
34)	Chlordane...	8.029	9.012	809133	661020	141.754	71.428	#
35)	Chlordane...	3.739	3.716	9934450	794671	NoCal	NoCal	
36)	Toxaphene...	7.475	8.567	681864	7931860	813.281	3352.362	#
37)	Toxaphene...	7.728f	8.912	660076	1797340	411.929	606.834	#
38)	Toxaphene...	8.081	8.971	779997	5437508	234.931	1122.041	#
39)	Toxaphene...	8.326	9.023	924584	661972	285.189	86.513	#
40)	Toxaphene...	8.530	9.207	872734	712259	344.464	172.620	#
41)	Toxaphene...	8.618	9.594	950594	652333	279.526	142.254	#
42)	Toxaphene...	3.739	3.716	9934450	794671	NoCal	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 20:01
Operator : MJB
Sample : A9J0514-36RE1
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: Jan 06 11:21:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.519min 15.228 ng/mL

response 2339584

MJB 1/6/20

(12) 4,4'-DDE #2

8.425min 47.253 ng/mL

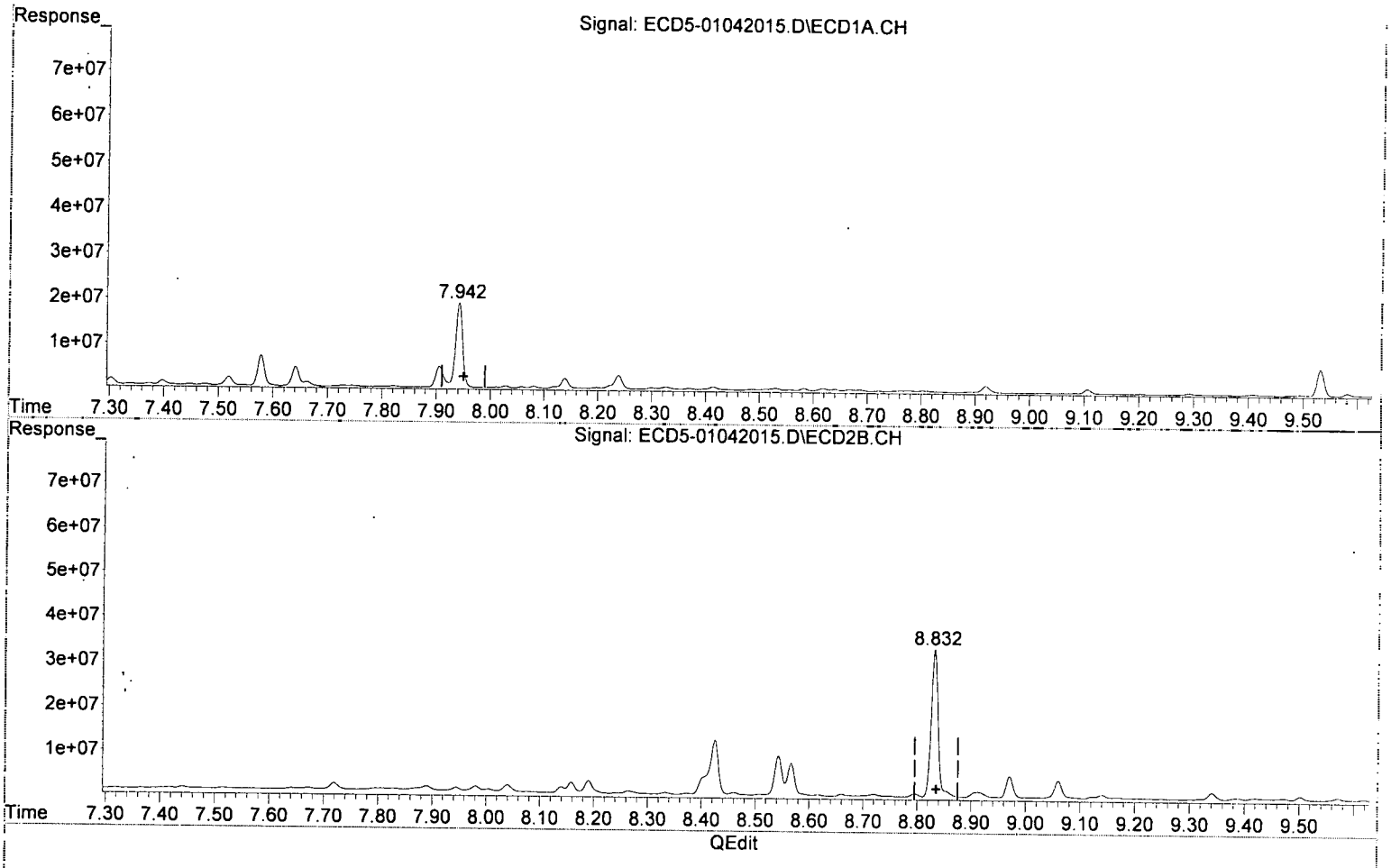
response 13032506

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 20:01
Operator : MJB
Sample : A9J0514-36RE1
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: Jan 06 11:21:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.942min 133.950 ng/mL

response 19186084

MJB 1/6/20

(15) 4,4'-DDD #2

8.832min 132.445 ng/mL

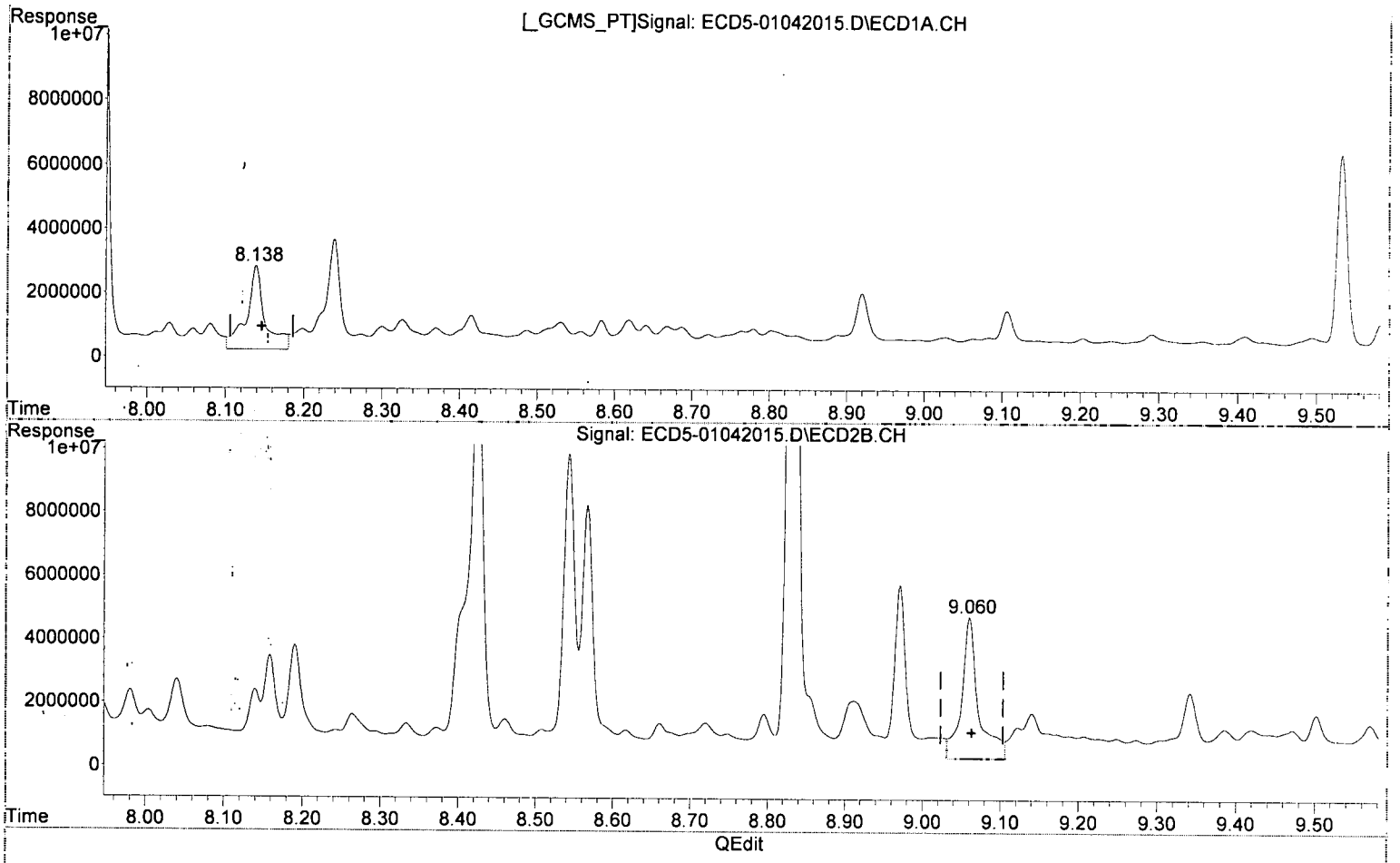
response 33777230

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 20:01
Operator : MJB
Sample : A9J0514-36RE1
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: Jan 06 11:21:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.139min 26.513 ng/mL

response 2614189

MJB 1/16/20

(17) 4,4'-DDT #2

9.060min 28.440 ng/mL Q-11

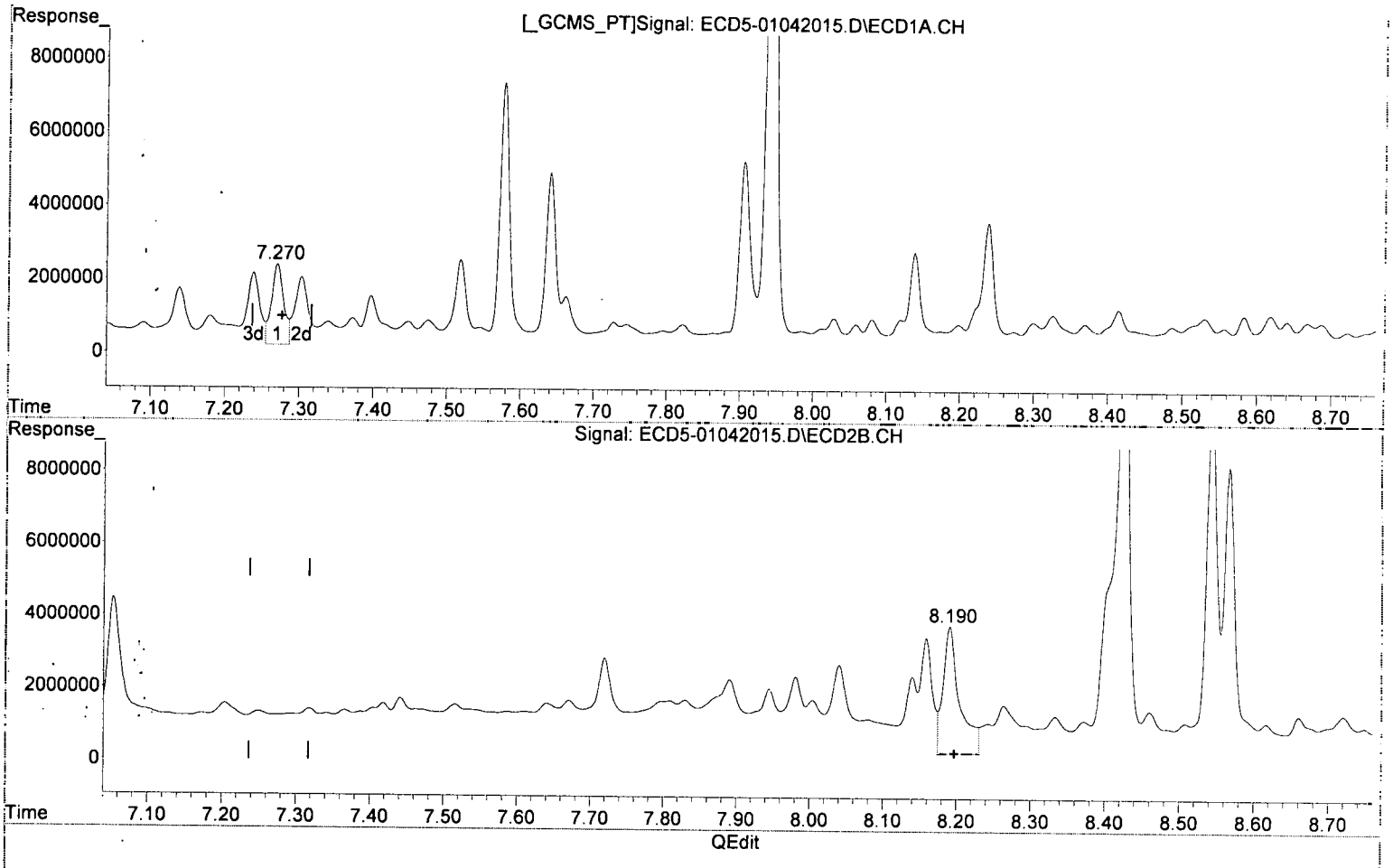
response 4446110

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 20:01
Operator : MJB
Sample : A9J0514-36RE1
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: Jan 06 11:21:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.271min 20.315 ng/mL

response 2190367

MJB 1/6/20

(26) 2,4'-DDE #2

8.190min 18.518 ng/mL

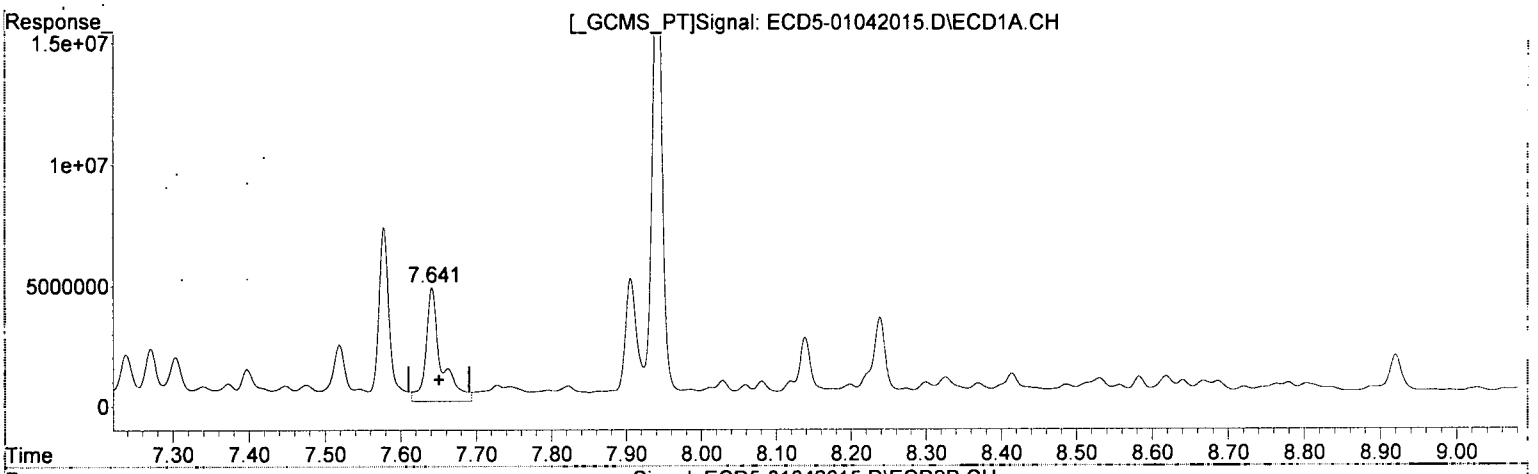
response 3521806

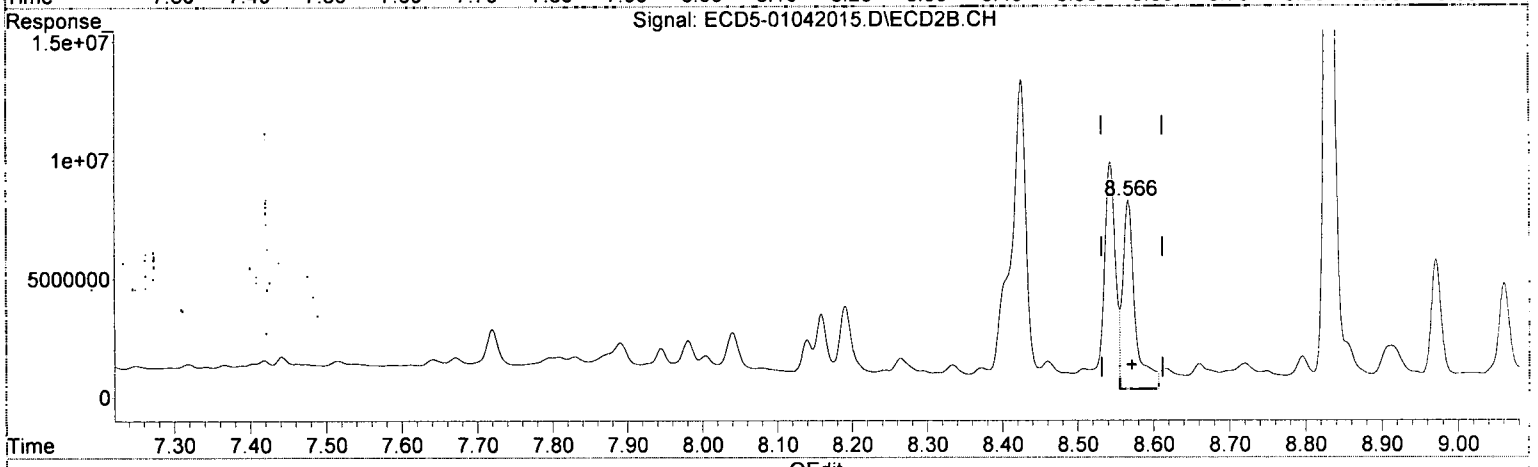
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 20:01
Operator : MJB
Sample : A9J0514-36RE1
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: Jan 06 11:21:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(28) 2,4'-DDD

7.641min 48.043 ng/mL

response 4723807

MJB 1/6/20

(28) 2,4'-DDD #2

8.567min 46.785 ng/mL

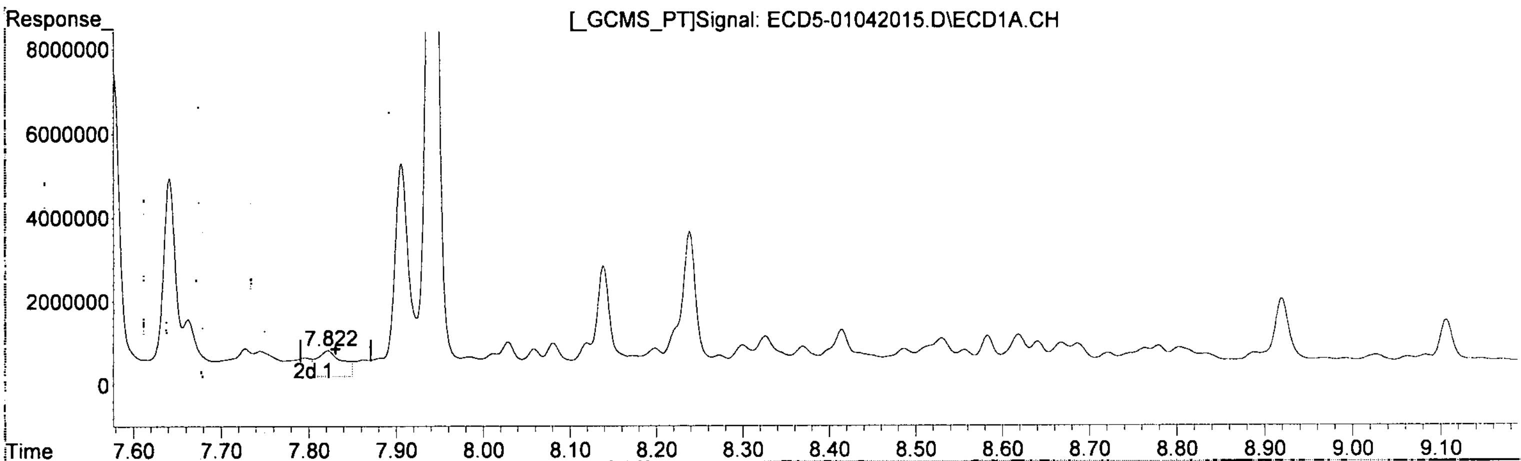
response 7931860

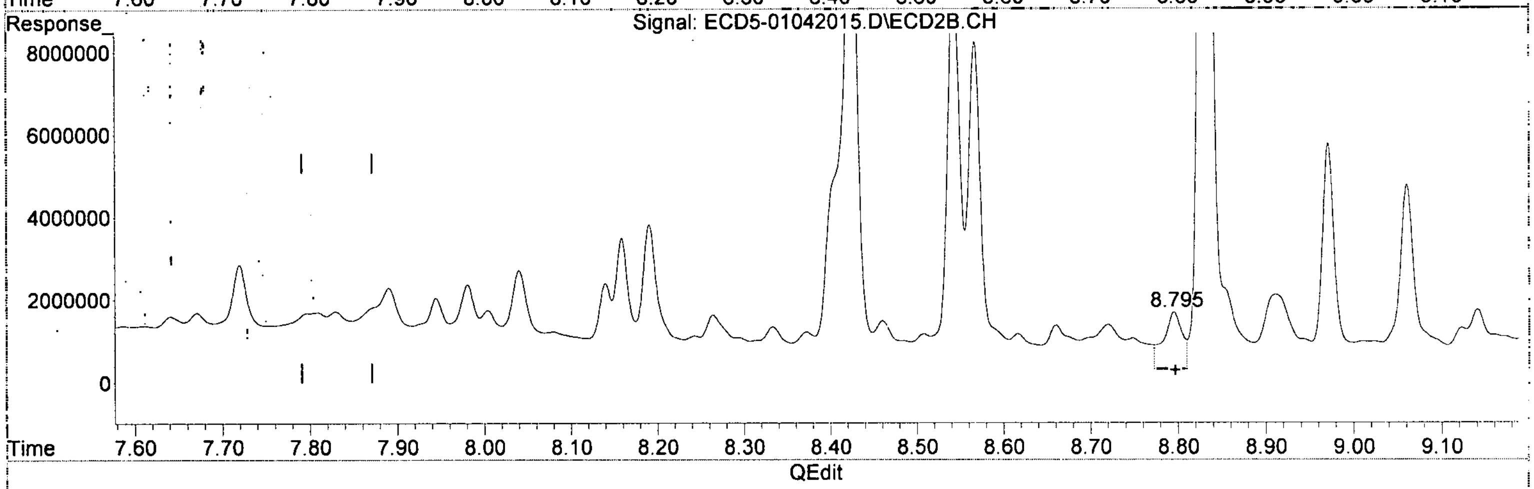
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 20:01
Operator : MJB
Sample : A9J0514-36RE1
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: Jan 06 11:21:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(29) 2,4'-DDT

7.822min 6.326 ng/mL R-02

response 612142

MJB 1/6/20

(29) 2,4'-DDT #2

8.795min 10.106 ng/mL R-01

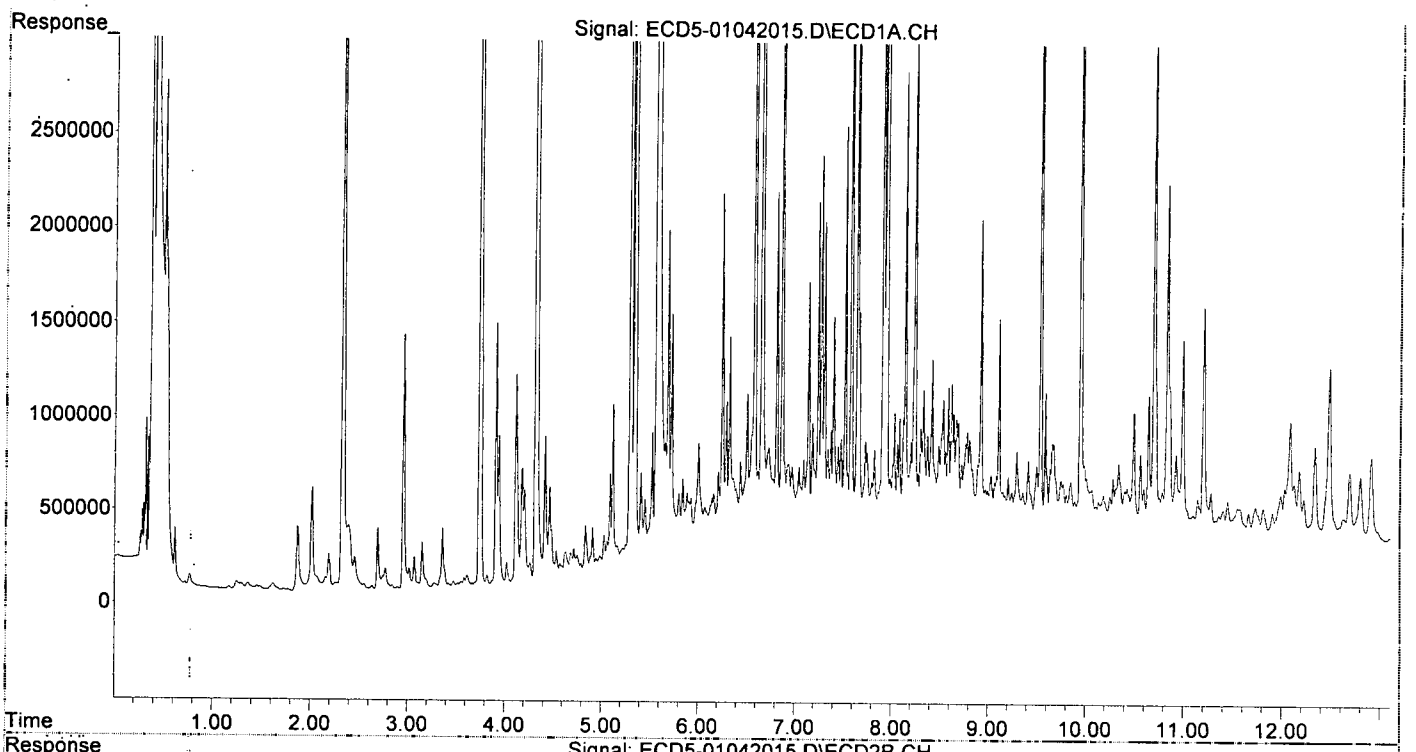
response 1370572

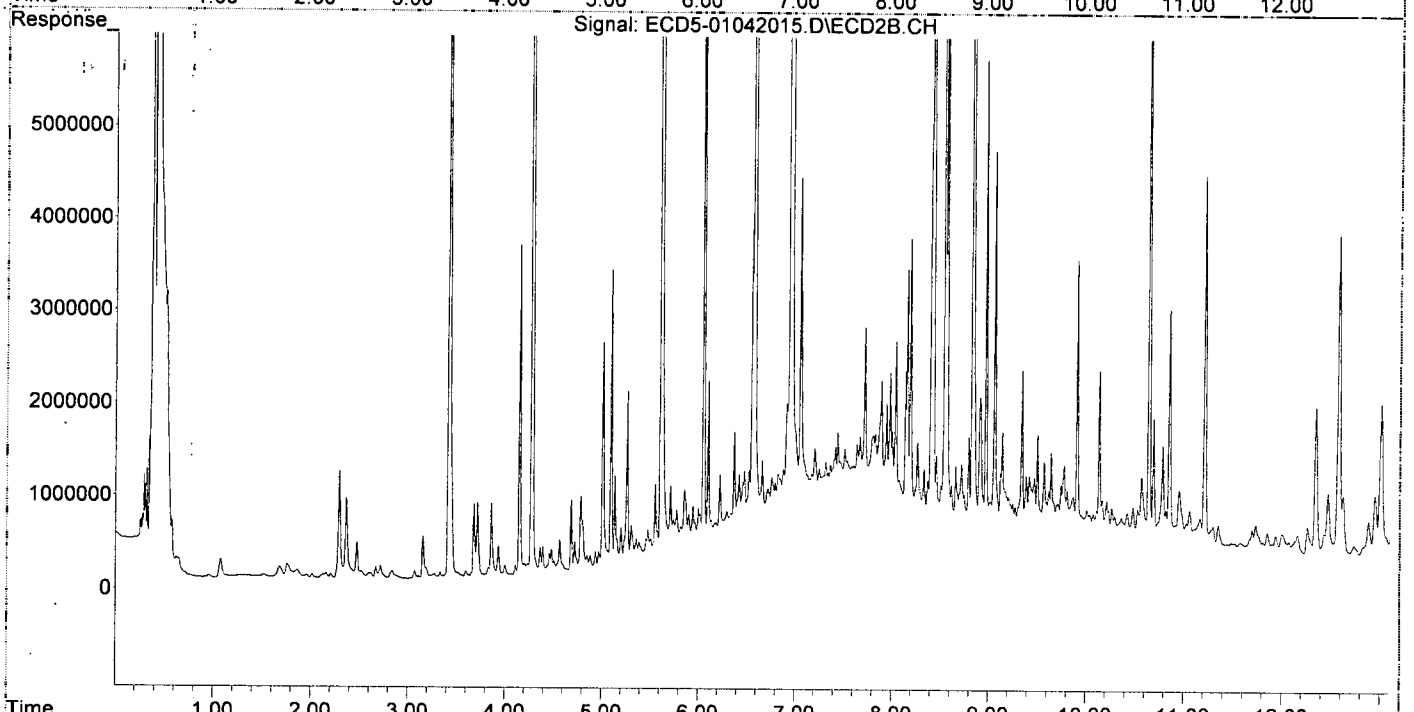
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 20:01
Operator : MJB
Sample : A9J0514-36RE1
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: Jan 06 11:21:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 21:53
Operator : MJB
Sample : 0A04013-CCV3
Misc : A19K134, 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: Jan 06 11:21:42 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

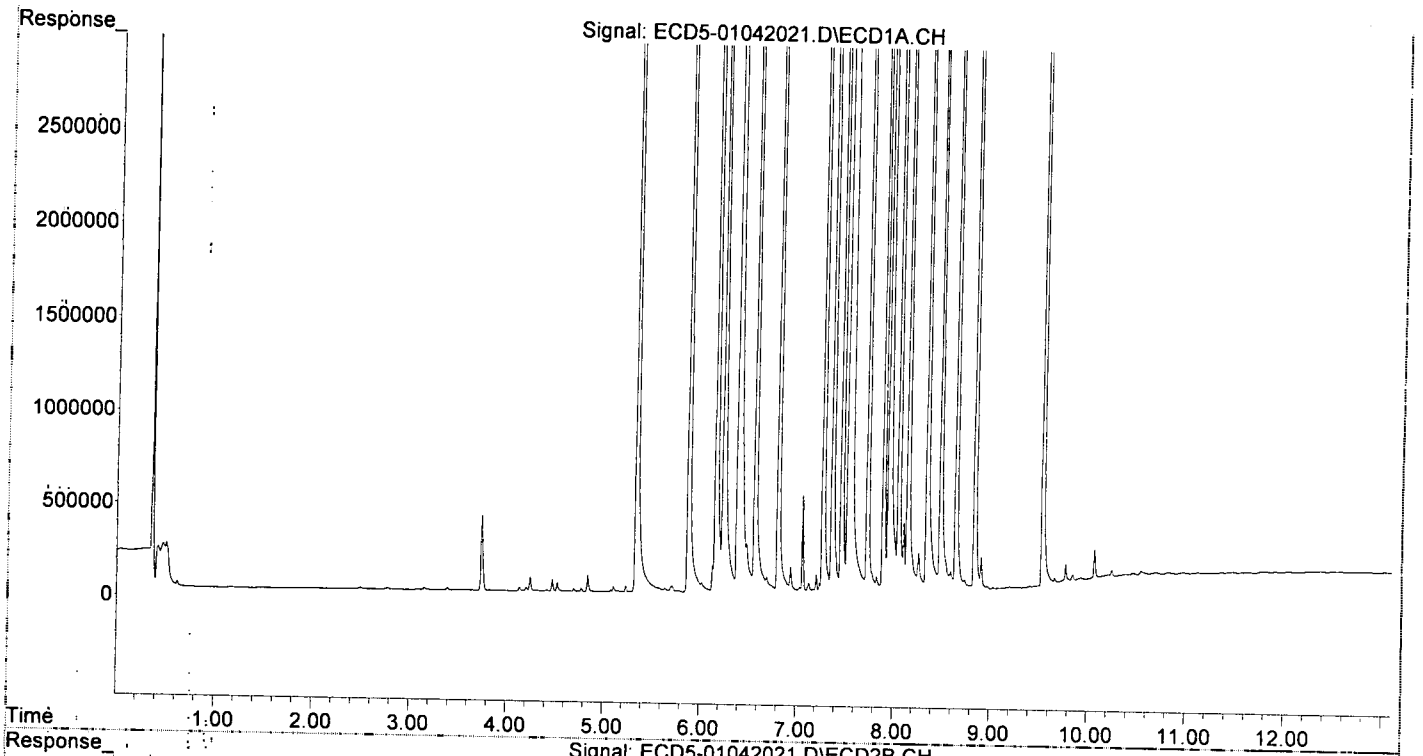
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.336	6.055	16535297	31757576	92.702	106.975	
22)	S DCBP (S)	9.535	10.646	13587550	18674955	99.334	109.672	
	Target Compounds							
2)	a-BHC	5.875	6.662	24686883	48775444	102.835	122.568	
3)	g-BHC	6.159	6.982	20672423	41457150	101.654	122.430	
4)	b-BHC	6.235	7.044	6632610	14140512	93.546	102.037	
5)	Heptachlor	6.565	7.359	20633148	39185441	112.222	130.972	
6)	d-BHC	6.385	7.302	14345217	35490185	88.225	105.046	
7)	Aldrin	6.805	7.627	21248481	38480365	111.899	124.018	
8)	Heptachlo...	7.268	8.065	18983027	33919843	105.659	118.442	
9)	trans-Chl...	7.364	8.206	19330013	34815340	107.217	119.357	
10)	cis-Chlor...	7.461	8.314	18867948	33615572	107.029	119.778	
11)	Endosulfa...	7.558	8.366	18690669	31218525	106.353	118.774	
12)	4,4'-DDE	7.527	8.419	15169665	31385105	98.737	103.717	
13)	Dieldrin	7.729	8.567	20740328	36818932	105.666	123.949	
14)	Endrin	7.894	8.796	17167079	28211550	112.363	116.615	
15)	4,4'-DDD	7.948	8.836	13095604	26866300	95.926	109.091	
16)	Endosulfa...	8.051	8.943	15937621	28442937	104.311	120.139	
17)	4,4'-DDT	8.144	9.063	12975290	23451507	106.350	117.951	
18)	Endrin Al...	8.342	9.180	12932257	23389656	108.185	119.153	
19)	Endosulfa...	8.644	9.371	15929216	27031463	108.570	117.570	
20)	Methoxychlor	8.482	9.541	5919878	11550986	101.733	120.643	
21)	Endrin Ke...	8.838	9.776	19473722	32165529	112.615	124.745	
23)	Hexachlor...	3.149	0.000	11073	0	BelowCal	N.D.	
24)	Hexachlor...	5.704	6.534	31071	8065	0.009	0.028	#
25)	Oxychlordane	7.204	7.981	85204	27068	0.409	0.107	#
26)	2,4'-DDE	7.268	8.206	18983027	34815340	176.063	183.067	
27)	trans-Non...	7.461	8.263	18867948	129454	104.967	0.459	#
28)	2,4'-DDD	0.000	8.567	0	36818932	N.D.	217.173	#
29)	2,4'-DDT	7.827	8.796	71614	28211550	0.740	156.766	#
30)	cis-Nonac...	7.948f	8.836	13095604	26866300	63.595	83.902	
31)	Mirex	8.592	9.776	95029	32165529	0.553	176.071	#
32)	Chlordane...	7.364	8.206	19330013	34815340	1011.685	1025.186	
33)	Chlordane...	7.461	8.314	18867948	33615572	837.517	1163.698	
34)	Chlordane...	8.051f	9.018	15937621	134089	2792.143	3.596	#
35)	Chlordane...	3.740	0.000	401684	0	NoCal	N.D.	
36)	Toxaphene...	7.461	8.567	18867948	36818932	17342.870	15561.343	
37)	Toxaphene...	7.729f	8.943f	20740328	28442937	16401.478	9603.157	#
38)	Toxaphene...	8.051f	8.943	15937621	28442937	3998.318	5869.257	#
39)	Toxaphene...	8.342f	9.018	12932257	134089	3510.822	10.768	#
40)	Toxaphene...	0.000	9.180f	0	23389656	N.D.	4309.696	#
41)	Toxaphene...	8.592	9.623f	95029	98410	27.944	21.460	
42)	Toxaphene...	3.740	0.000	401684	0	NoCal	N.D.	

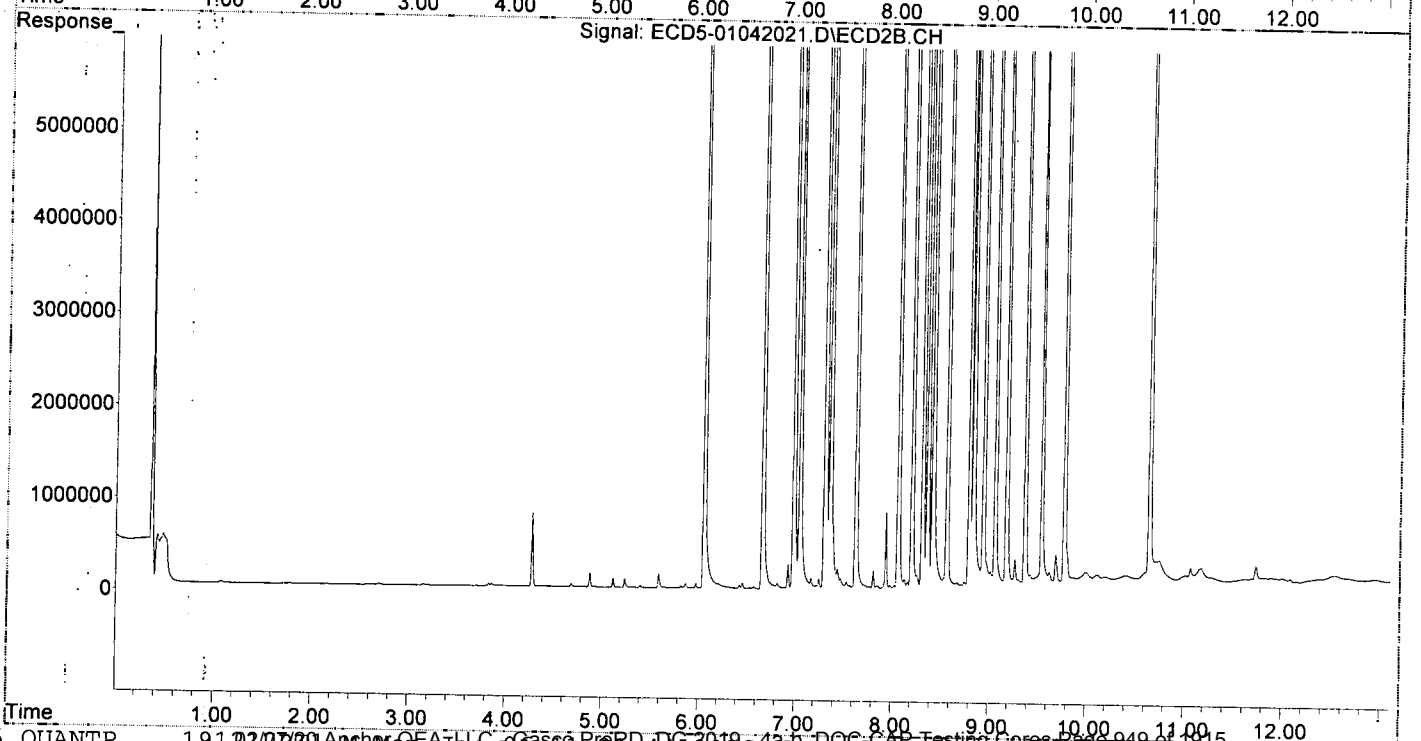
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 21:53
Operator : MJB
Sample : 0A04013-CCV3
Misc : A19K134, 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: Jan 06 11:21:42 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 22:10
Operator : MJB
Sample : 0A04013-CCV4
Misc : A19J409, 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: Jan 06 11:21:49 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

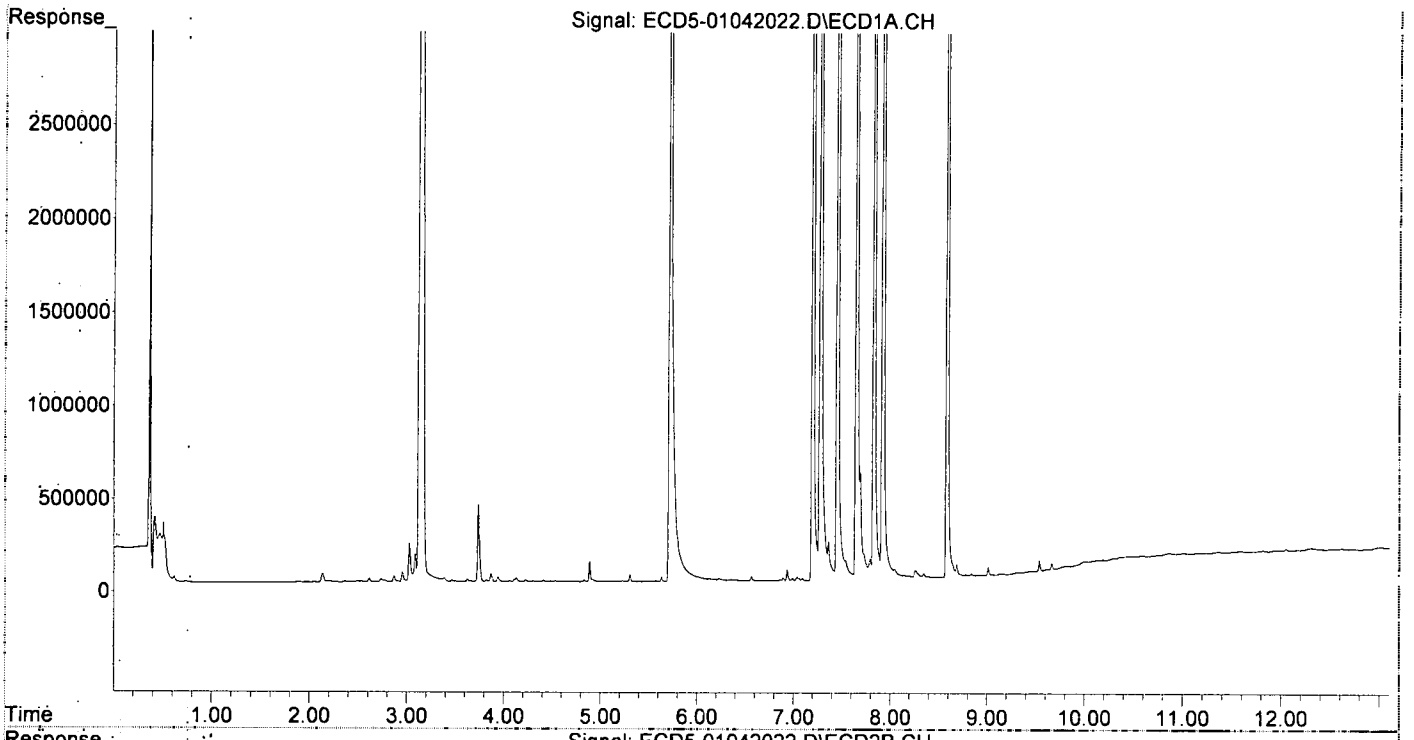
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.306f	6.057	36459	7747	0.204	0.026	#
22)	S	DCBP (S)	9.537	0.000	59874	0	0.239	N.D.	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.157	0.000	11277	0	0.055	N.D.	#
4)		b-BHC	6.224	7.046	13854	8110	0.195	0.059	#
5)		Heptachlor	6.565	7.355	24029	40791	0.131	0.136	
6)		d-BHC	6.393	7.302	7364	13389	0.019	0.002	#
7)		Aldrin	6.774f	7.629	3511	9602	0.018	0.031	#
8)		Heptachlo...	7.274	8.060	9644529	125503	53.681	0.438	#
9)		trans-Chl...	7.361	8.195	207646	19896972	1.152	68.213	#
10)		cis-Chlor...	7.451	0.000	17728075	0	100.899	N.D.	#
11)		Endosulfa...	0.000	8.371	0	101569	N.D.	0.386	#
12)		4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)		Dieldrin	0.000	8.569	0	18232565	N.D.	61.379	#
14)		Endrin	7.921f	8.795	20812143	20150994	136.221	87.128	
15)		4,4'-DDD	7.921f	8.836	20812143	39007092	143.590	149.256	
16)		Endosulfa...	8.045	8.941	47995	92931	0.314	0.393	
17)		4,4'-DDT	8.144	0.000	17418	0	0.159	N.D.	#
18)		Endrin Al...	8.345	9.180	22206	75776	0.186	0.386	#
19)		Endosulfa...	0.000	9.370	0	65248	N.D.	0.061	#
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.838	9.768	13028	19742801	BelowCal	82.049	
23)		Hexachlor...	3.130	3.738	16496398	38932676	99.881	107.491	
24)		Hexachlor...	5.715	6.521	14775626	30955079	87.162	105.642	
25)		Oxychlordane	7.195	7.992	15423014	28641454	100.672	113.209	
26)		2,4'-DDE	7.274	8.195	9644529	19896972	89.450	104.623	
27)		trans-Non...	7.451	8.267	17728075	32645101	98.625	115.712	
28)		2,4'-DDD	7.647	8.569	8700613	18232565	88.489	107.543	
29)		2,4'-DDT	7.828	8.795	10585822	20150994	109.402	119.616	
30)		cis-Nonac...	7.921	8.836	20812143	39007092	101.069	121.818	
31)		Mirex	8.585	9.768	12166445	19742801	101.231	114.899	
32)		Chlordane...	7.361f	8.195f	207646	19896972	10.868	585.894	#
33)		Chlordane...	7.451f	8.371f	17728075	101569	786.920	3.516	#
34)		Chlordane...	8.045f	8.982	47995	156537	8.408	6.500	
35)		Chlordane...	3.737	3.738	413362	38932676	NoCal	NoCal	
36)		Toxaphene...	7.451	8.569	17728075	18232565	16491.990	7705.905	#
37)		Toxaphene...	7.792f	8.941	106868	92931	63.352	31.376	#
38)		Toxaphene...	8.045f	8.941	47995	92931	11.735	19.177	#
39)		Toxaphene...	8.345f	0.000	22206	0	0.667	N.D.	#
40)		Toxaphene...	0.000	9.180f	0	75776	N.D.	15.625	#
41)		Toxaphene...	8.585f	0.000	12166445	0	3577.593	N.D.	#
42)		Toxaphene...	3.737	3.738	413362	38932676	NoCal	NoCal	

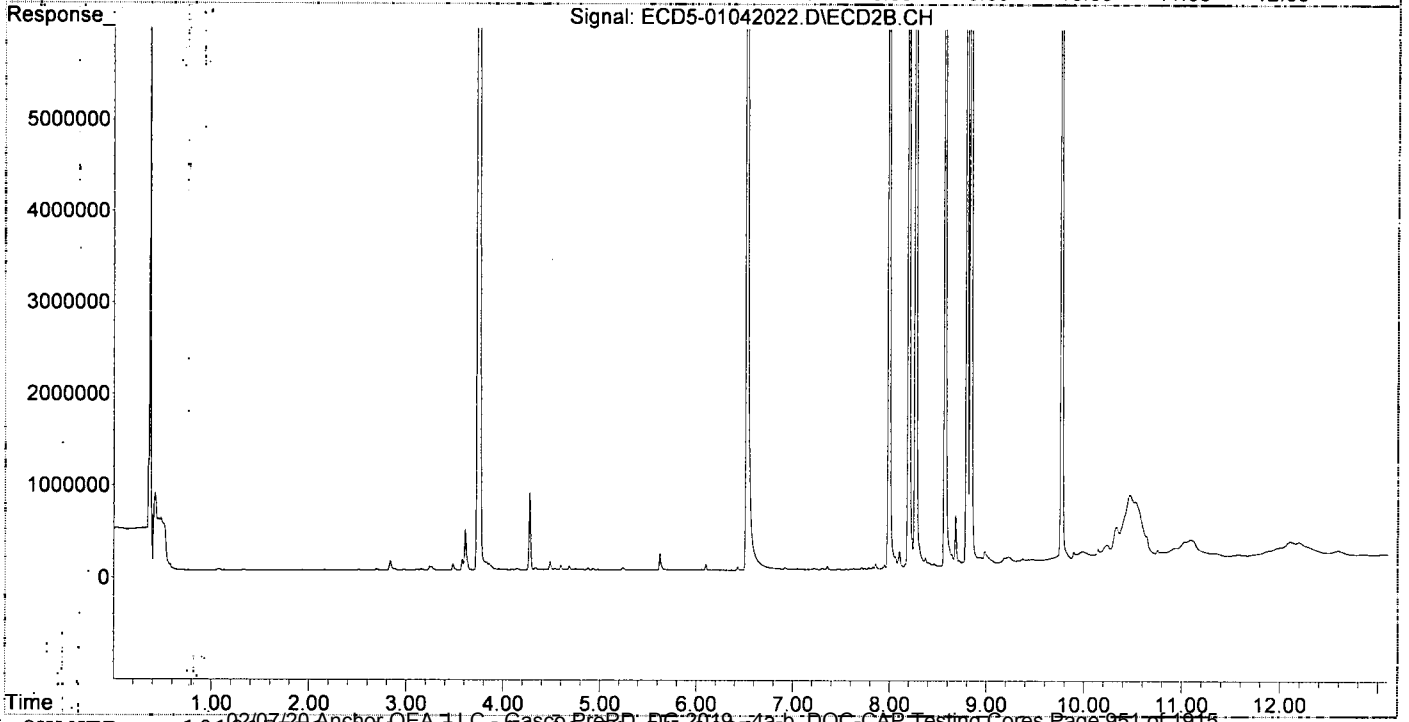
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 22:10
Operator : MJB
Sample : 0A04013-CCV4
Misc : A19J409, 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: Jan 06 11:21:49 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 22:27
Operator : MJB
Sample : 0A04013-CCB2
Misc : A19L339
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: Jan 06 11:21:56 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MWB 1/6/20

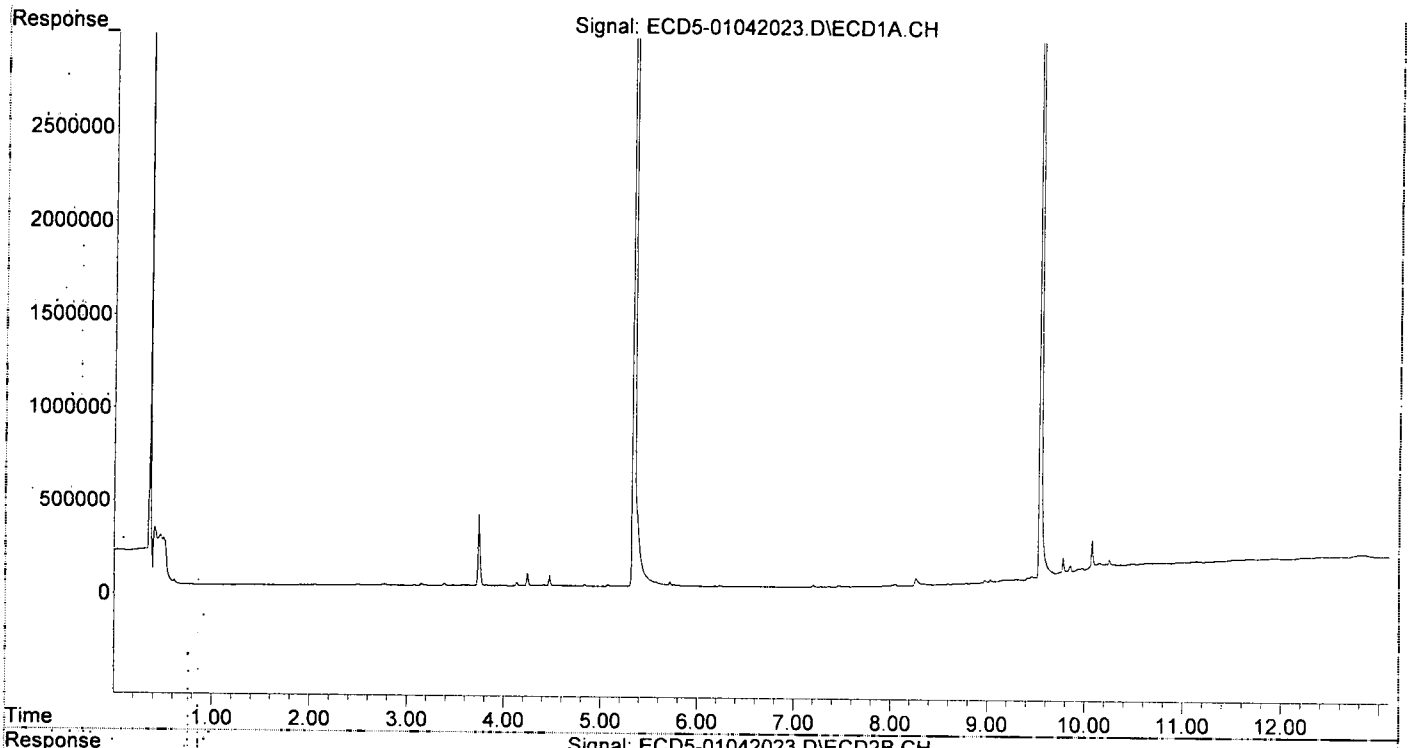
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.334	6.052	15511037	30382571	86.960	102.344	
22)	S	DCBP (S)	9.536	10.644	12330202	17200438	90.376	101.013	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.229	0.000	5711	0	0.081	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	7.633	0	7796	N.D.	0.025	#
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.356	8.222	3736	11598	0.021	0.040	#
10)		cis-Chlor...	7.466	0.000	5648	0	BelowCal	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	7.732	8.570	801	16699	0.004	0.056	#
14)		Endrin	7.924f	8.770f	2938	19304	0.019	0.032	#
15)		4,4'-DDD	7.959	8.837	1207	27935	BelowCal	BelowCal	
16)		Endosulfa...	8.045	8.923f	9981	46531	0.065	0.197	#
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.344	9.152f	8479	59285	0.071	0.302	#
19)		Endosulfa...	8.647	9.373	5037	34092	BelowCal	BelowCal	
20)		Methoxychlor	8.486	0.000	1017	0	0.085	N.D.	#
21)		Endrin Ke...	8.841	9.773	3274	30811	BelowCal	BelowCal	
23)		Hexachlor...	3.147	0.000	9930	0	BelowCal	N.D.	
24)		Hexachlor...	5.715	6.522	19239	3109	BelowCal	0.011	
25)		Oxychlordane	7.199	7.993	9731	1935	BelowCal	0.008	
26)		2,4'-DDE	0.000	8.222f	0	11598	N.D.	0.061	#
27)		trans-Non...	7.466	8.269	5648	3734	0.031	0.013	#
28)		2,4'-DDD	7.655	8.570	1013	16699	0.010	0.098	#
29)		2,4'-DDT	7.835	8.770f	827	19304	0.009	0.054	#
30)		cis-Nonac...	7.924	8.837	2938	27935	0.014	0.087	#
31)		Mirex	8.589	9.773	4536	30811	BelowCal	BelowCal	
32)		Chlordane...	7.356f	8.222	3736	11598	0.196	0.342	#
33)		Chlordane...	7.466	0.000	5648	0	0.251	N.D.	#
34)		Chlordane...	8.015	8.982	4312	114800	0.755	1.100	#
35)		Chlordane...	3.737	0.000	382233	0	NoCal	N.D.	
36)		Toxaphene...	7.466	8.570	5648	16699	3.861	7.058	#
37)		Toxaphene...	7.732f	8.923	801	46531	78765.192	15.710	#
38)		Toxaphene...	8.045f	8.982f	9981	114800	BelowCal	23.689	
39)		Toxaphene...	8.344f	0.000	8479	0	BelowCal	N.D.	
40)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
41)		Toxaphene...	8.589	0.000	4536	0	1.334	N.D.	#
42)		Toxaphene...	3.737	0.000	382233	0	NoCal	N.D.	

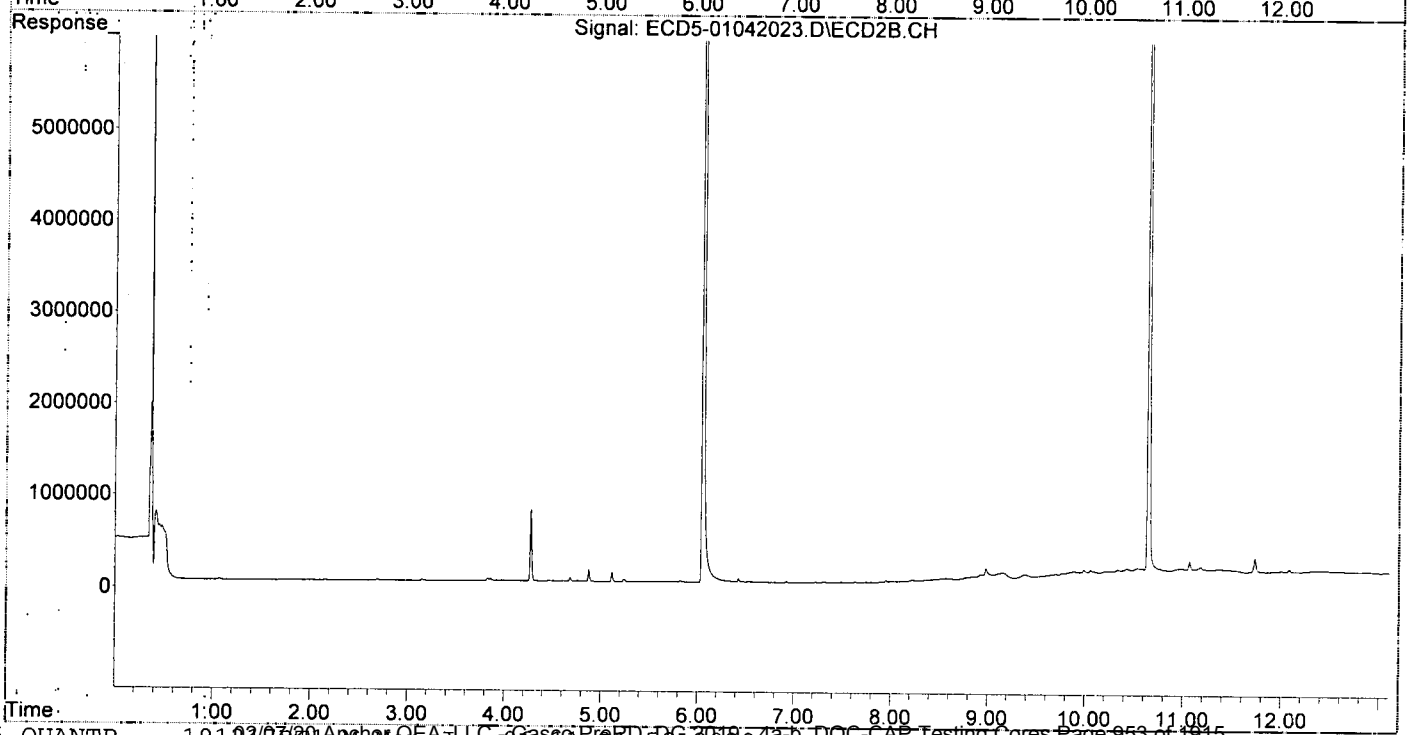
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 22:27
Operator : MJB
Sample : 0A04013-CCB2
Misc : A19L339
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: Jan 06 11:21:56 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 23:59
Operator : MJB
Sample : 9121314-MSD1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:17 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

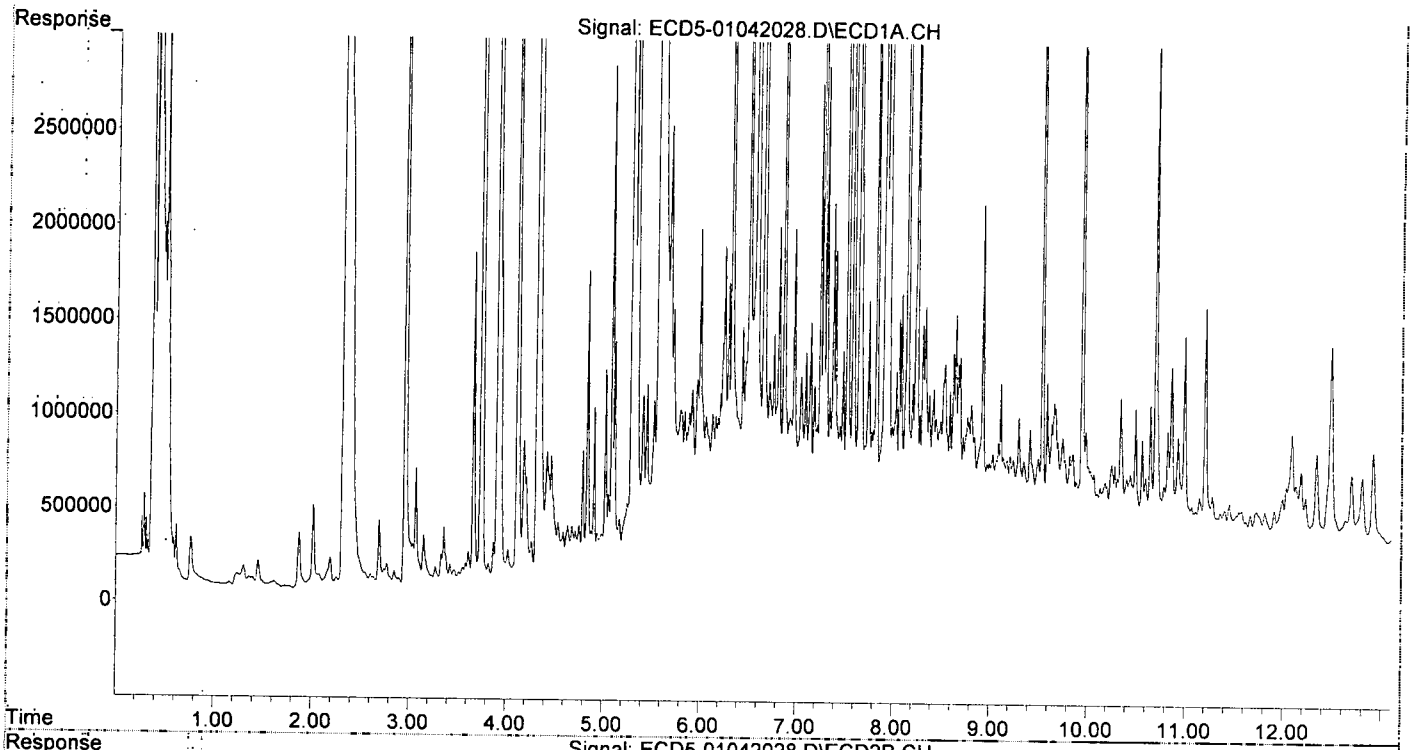
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.336	6.054	5237269	8758140	29.362	29.502	
22)	S	DCBP (S)	9.534	10.645	6484849	9000034	48.071	52.854	
		Target Compounds							
2)		a-BHC	5.888	6.662	849170	1779643	3.537	4.472	
3)		g-BHC	6.163	6.971	824023	202.5E6	4.052	597.997	#
4)		b-BHC	6.248	7.054	1715689	4101722	24.198	29.598	
5)		Heptachlor	6.581	7.365	29826924	1861299	162.226	6.221	#
6)		d-BHC	0.000	7.278f	0	2741822	N.D.	9.576	#
7)		Aldrin	6.812	7.643	1809595	2103778	9.530	6.780	
8)		Heptachlo...	7.270	8.081	8750643	1508773	48.706	5.268	#
9)		trans-Chl...	7.374	8.194	1921109	14432159	10.656	49.478	#
10)		cis-Chlor...	7.477	8.334f	1140197	1375203	6.676	4.900	
11)		Endosulfa...	7.579	8.373	10961731	1264223	62.374	4.810	#
12)		4,4'-DDE	7.520	8.419	13260768	26480168	86.312 2PT	89.508	
13)		Dieldrin	7.744	8.569	1396042	20823774	7.112	70.102	#
14)		Endrin	7.906	8.795	12139354	9600699	79.455	44.453	#
15)		4,4'-DDD	7.943	8.834	40671416	72191401	248.606 2PT	243.291	
16)		Endosulfa...	8.060	8.972f	1296261	8136309	8.484	34.367	#
17)		4,4'-DDT	8.140	9.062	10877395	18057705	92.283 2PT	95.816	
18)		Endrin Al...	8.326	9.175	1357527	1210447	11.356	6.166	#
19)		Endosulfa...	8.642	9.386	1307428	1199295	9.320	5.981	
20)		Methoxychlor	8.486	9.570f	743482	1179906	15.149	15.692	
21)		Endrin Ke...	8.803f	9.769	827966	1257140	4.977	5.808	
23)		Hexachlor...	3.150	3.718f	253289	742204	1.413	2.049	#
24)		Hexachlor...	5.722	6.528	1401750	1409868	8.821	4.812	#
25)		Oxychlordane	7.213	8.006	755831	1868009	5.131	7.384	#
26)		2,4'-DDE	7.270	8.194	8750643	14432159	81.160	75.887	
27)		trans-Non...	7.448	8.266	745095	1549311	4.145	5.492	
28)		2,4'-DDD	7.642	8.569	11687493	20823774	118.867 2PT	122.827	
29)		2,4'-DDT	7.824	8.795	5915472	9600699	61.135 2.02	63.514	
30)		cis-Nonac...	7.906	8.834	12139354	72191401	58.952	225.451	#
31)		Mirex	8.584	9.769	902861	1257140	7.421	7.896	
32)		Chlordane...	7.374	8.244	1921109	1140495	100.546	33.583	#
33)		Chlordane...	7.477	8.334	1140197	1375203	50.611	47.607	
34)		Chlordane...	8.029	9.010	1018105	986847	178.364	113.032	
35)		Chlordane...	3.740	3.718	10474307	742204	NoCal	NoCal	
36)		Toxaphene...	7.477	8.569	1140197	20823774	1348.736	8801.067	#
37)		Toxaphene...	7.744	8.908	1396042	2356216	880.554	795.527	
38)		Toxaphene...	8.081	8.972	1428299	8136309	428.007	1678.944	#
39)		Toxaphene...	8.301	9.010	1258855	986847	388.600	132.474	#
40)		Toxaphene...	8.528	9.191	1048162	1132150	413.704	274.042	
41)		Toxaphene...	8.619	9.593	1103999	844693	324.636	184.202	#
42)		Toxaphene...	3.740	3.718	10474307	742204	NoCal	NoCal	

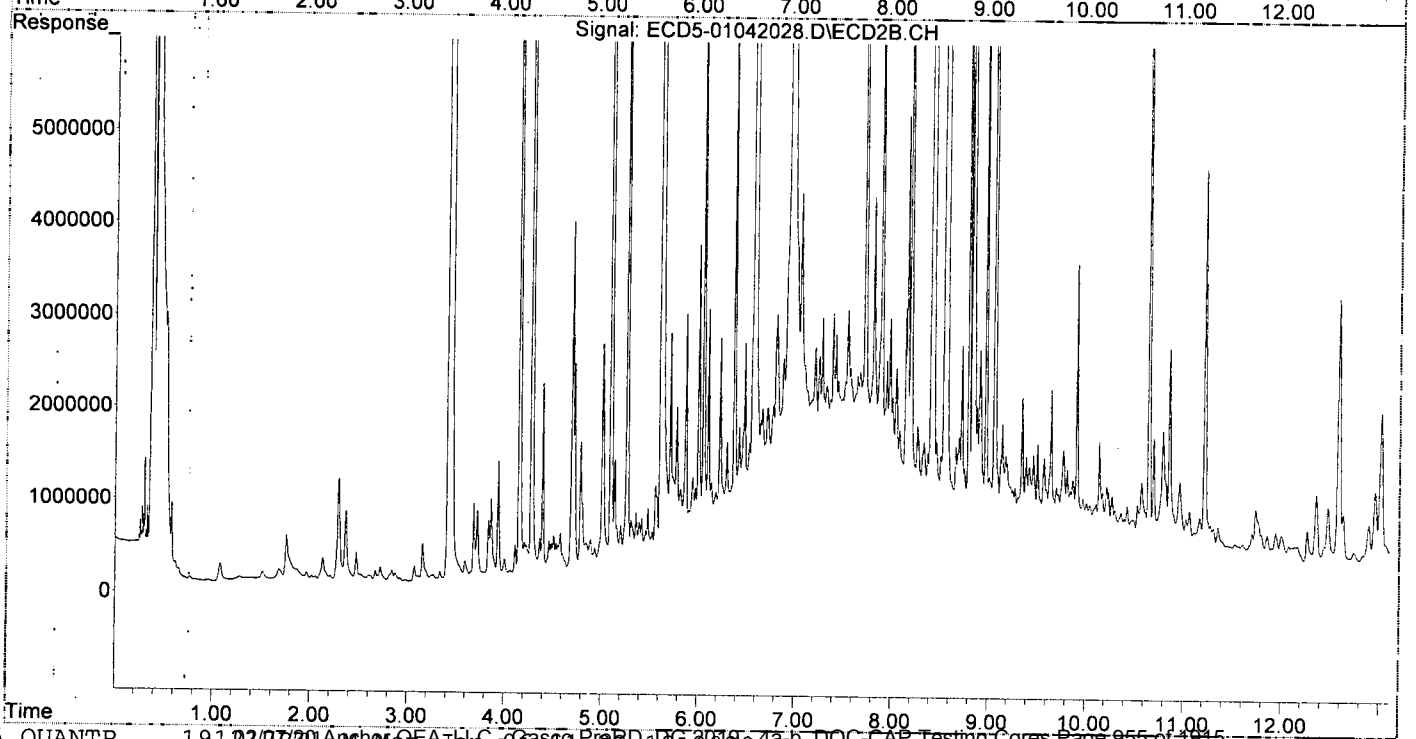
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Jan 2020 23:59
Operator : MJB
Sample : 9121314-MSD1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:17 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 0:37
Operator : MJB
Sample : A9J0514-28RE1(5)
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 15:05:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

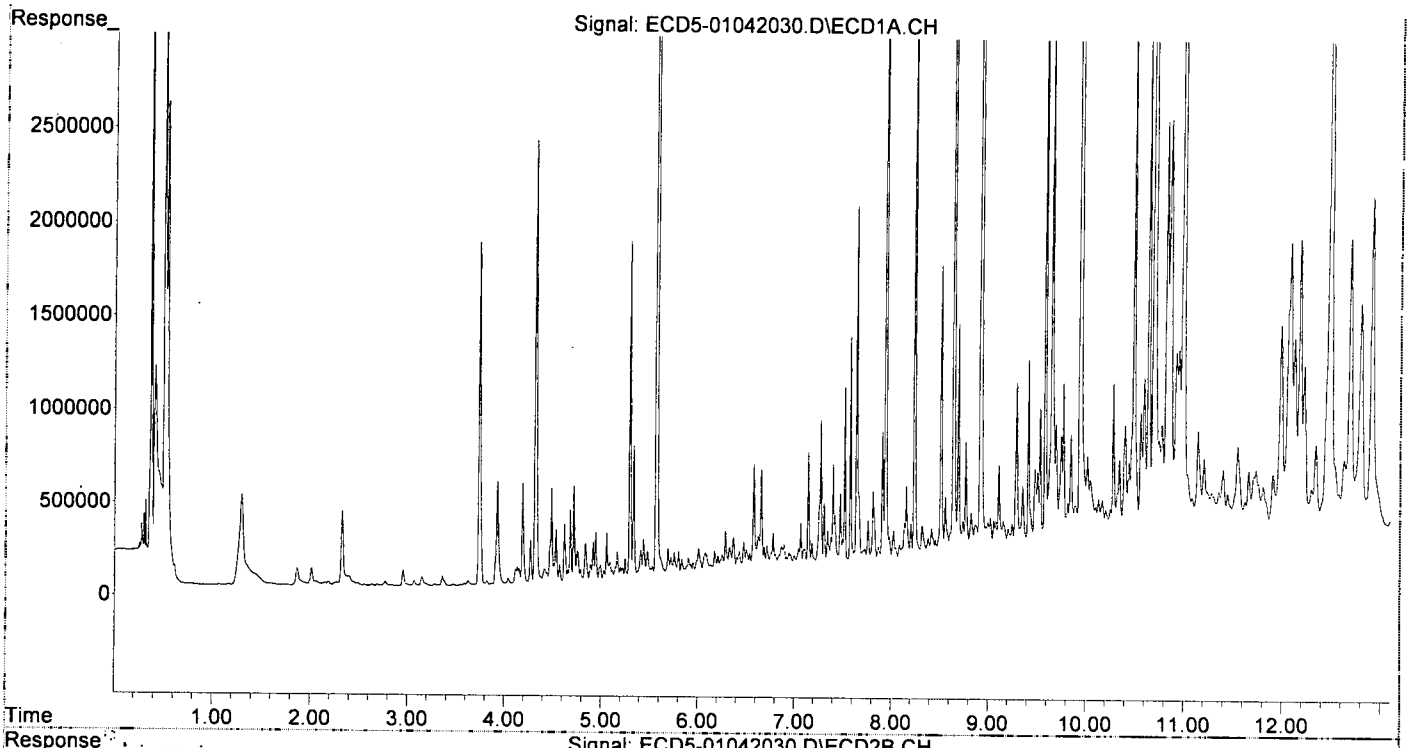
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.335	6.053	698343	1111325	3.915	3.743	
22)	S DCBP (S)	9.532	10.649	751667	1555159	5.459	9.133	# S-04
	Target Compounds							
2)	a-BHC	5.902f	6.650	78041	112291	0.325	0.282	
3)	g-BHC	6.175	7.000	102552	141327	0.504	0.417	
4)	b-BHC	6.251	7.030	81168	153938	1.145	1.111	
5)	Heptachlor	6.580	7.379f	552770	219136	3.006	0.732	#
6)	d-BHC	6.367	7.284	164979	153214	1.163	0.501	#
7)	Aldrin	6.778f	7.617	175367	138145	0.924	0.445	#
8)	Heptachlo...	7.272	8.078	766667	79212	4.267	0.277	#
9)	trans-Chl...	7.343f	8.211	168790	561065	0.936	1.923	#
10)	cis-Chlor...	7.473	8.336f	364074	886789	2.009	3.160	#
11)	Endosulfa...	7.578	8.373	1196455	244390	6.808	0.930	#
12)	4,4'-DDE	7.519	8.426	929605	2814861	6.051	10.850	# P-11
13)	Dieldrin	7.729	8.568	59704	3094544	0.304	10.418	#
14)	Endrin	7.909	8.832f	678850	10326625	4.443	47.570	#
15)	4,4'-DDD	7.942	8.832	5854000	10326625	45.798	46.308	
16)	Endosulfa...	8.024f	8.925	146828	324636	0.961	1.371	#
17)	4,4'-DDT	8.156	9.073	382981	335478	4.135	2.522	# R-02
18)	Endrin Al...	8.319f	9.188	161406	279858	1.350	1.426	
19)	Endosulfa...	8.643	9.385	6768904	2164887	48.039	10.926	#
20)	Methoxychlor	8.457f	9.534	80239	245656	1.739	3.474	#
21)	Endrin Ke...	8.823	9.766	215616	1098132	1.127	5.055	#
23)	Hexachlor...	3.148	3.716f	48522	129626	0.134	0.358	#
24)	Hexachlor...	5.722	6.503f	86145	199486	0.366	0.681	#
25)	Oxychlordane	7.181	7.983	110361	1054080	0.587	4.166	#
26)	2,4'-DDE	7.272	8.193	766667	849856	7.111	4.469	# R-02
27)	trans-Non...	7.473f	8.283	364074	577654	2.025	2.048	
28)	2,4'-DDD	7.642	8.568	1890551	3094544	19.228	18.253	
29)	2,4'-DDT	7.813	8.807	371921	156763	3.844	1.098m	# MDL<MRL
30)	cis-Nonac...	7.909	8.832	678850	10326625	3.297	32.250	#
31)	Mirex	8.557f	9.766	308425	1098132	2.369	6.859	#
32)	Chlordane...	7.399	8.211	522200	561065	27.331	16.521	
33)	Chlordane...	7.473	8.336	364074	886789	16.161	30.699	#
34)	Chlordane...	8.024	8.971f	146828	7141033	25.723	855.684	#
35)	Chlordane...	3.738	3.716	1835337	129626	NoCal	NoCal	
36)	Toxaphene...	7.473	8.568	364074	3094544	435.872	1307.894	#
37)	Toxaphene...	7.760	8.925	212723	324636	129.811	109.606	
38)	Toxaphene...	8.085	8.971	66745	7141033	17.524	1473.566	#
39)	Toxaphene...	8.319	9.031	161406	170635	45.085	16.055	#
40)	Toxaphene...	8.557	9.188	308425	279858	121.734	66.406	#
41)	Toxaphene...	8.643f	9.595	6768904	1315091	1990.424	286.782	#
42)	Toxaphene...	3.738	3.716	1835337	129626	NoCal	NoCal	

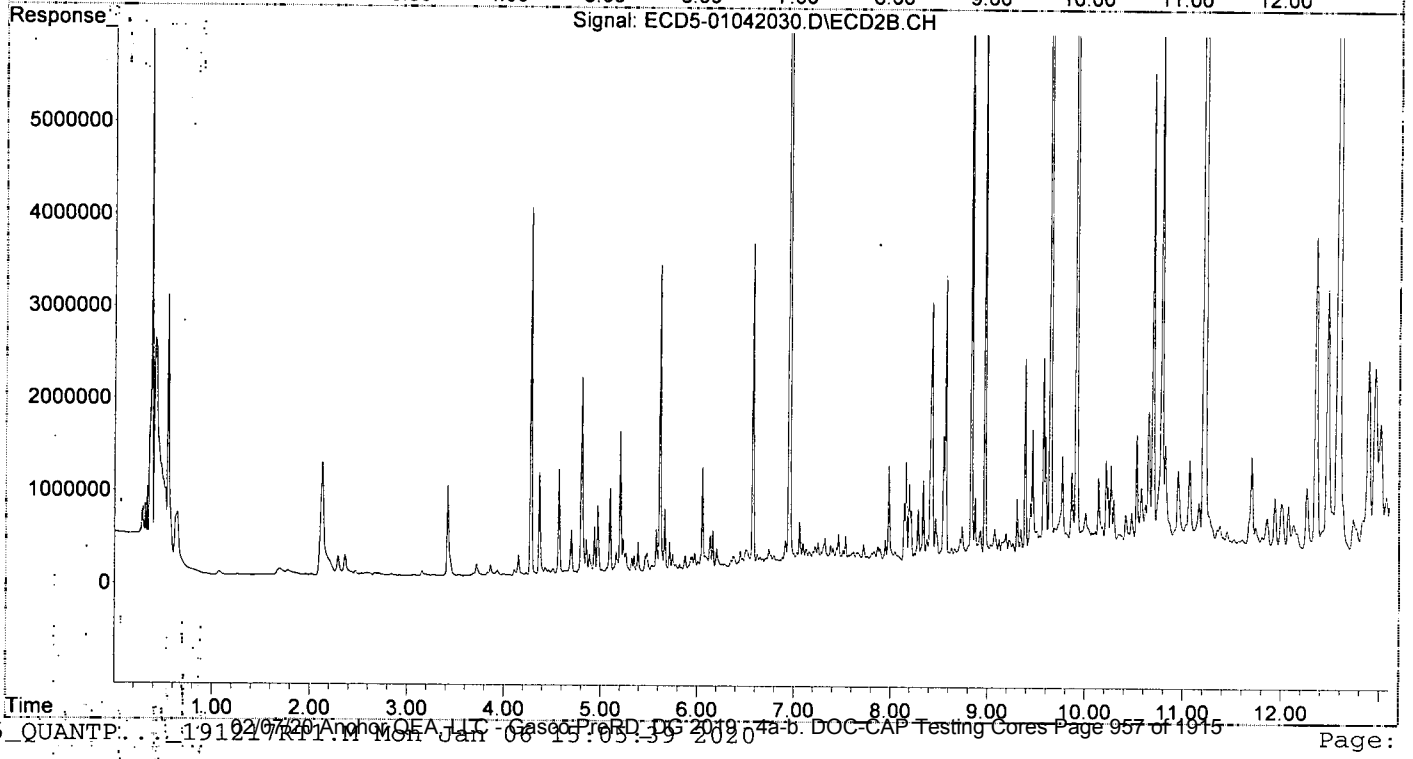
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 0:37
Operator : MJB
Sample : A9J0514-28RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 15:05:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

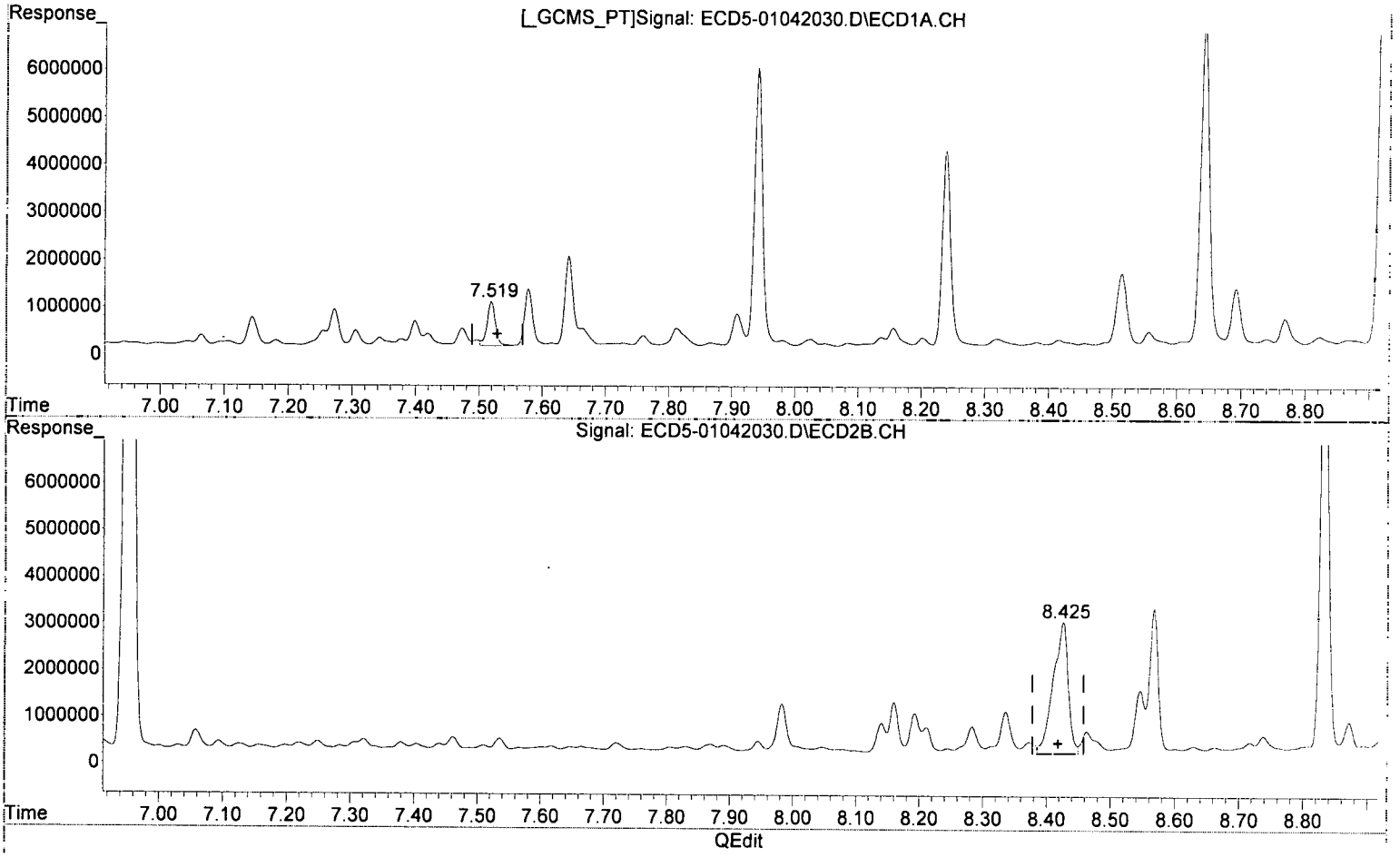




Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 0:37
Operator : MJB
Sample : A9J0514-28RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.519min 6.051 ng/mL

response 929605

MJB 1/6/20

P-P

(12) 4,4'-DDE #2

8.426min 10.850 ng/mL

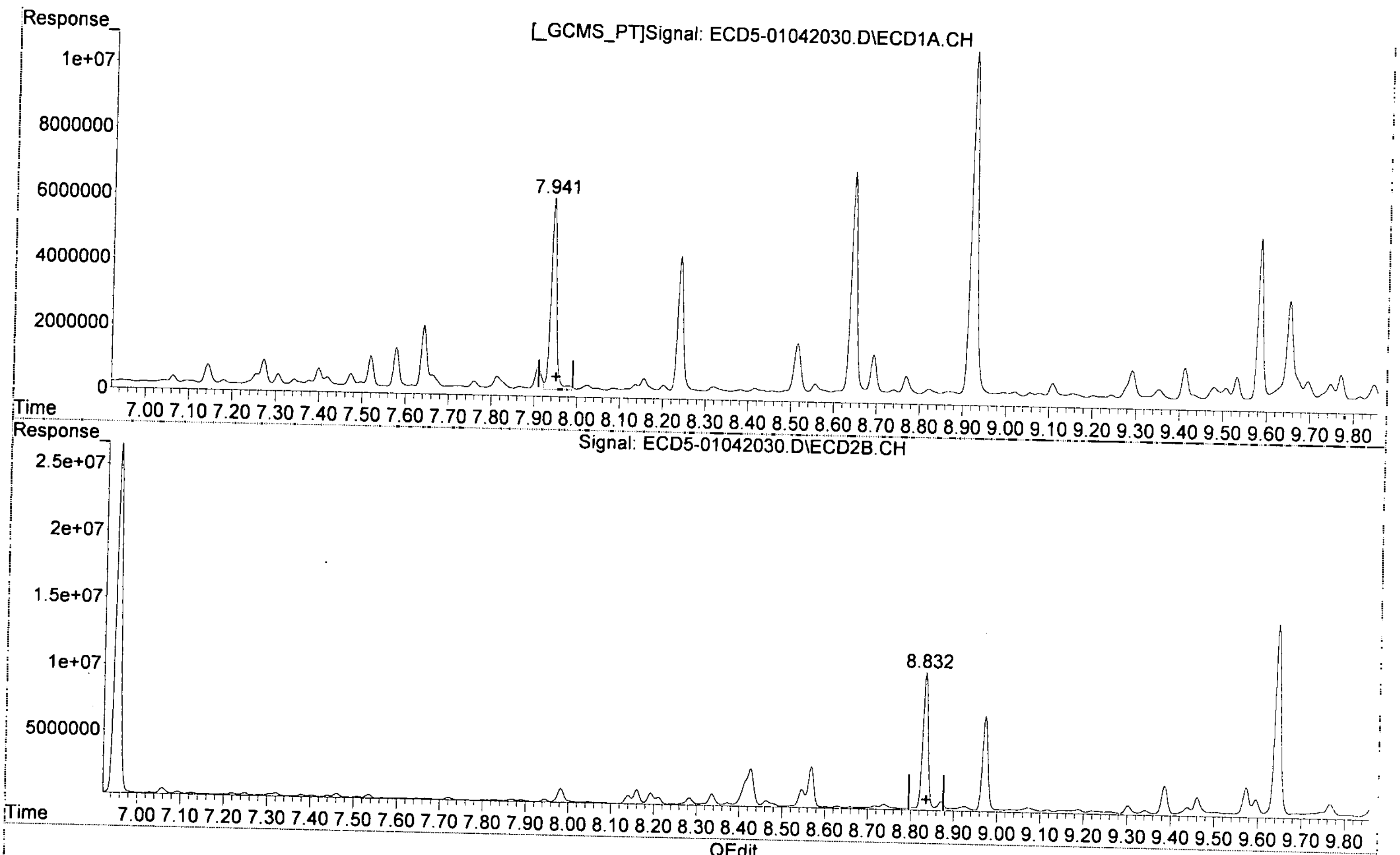
response 2814861

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 0:37
Operator : MJB
Sample : A9J0514-28RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.942min 45.798 ng/mL

response 5854000

MJB 1/6/20

(15) 4,4'-DDD #2

8.832min 46.308 ng/mL

response 10326625

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 0:37
Operator : MJB
Sample : A9J0514-28RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
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Quant Time: Jan 06 11:22:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
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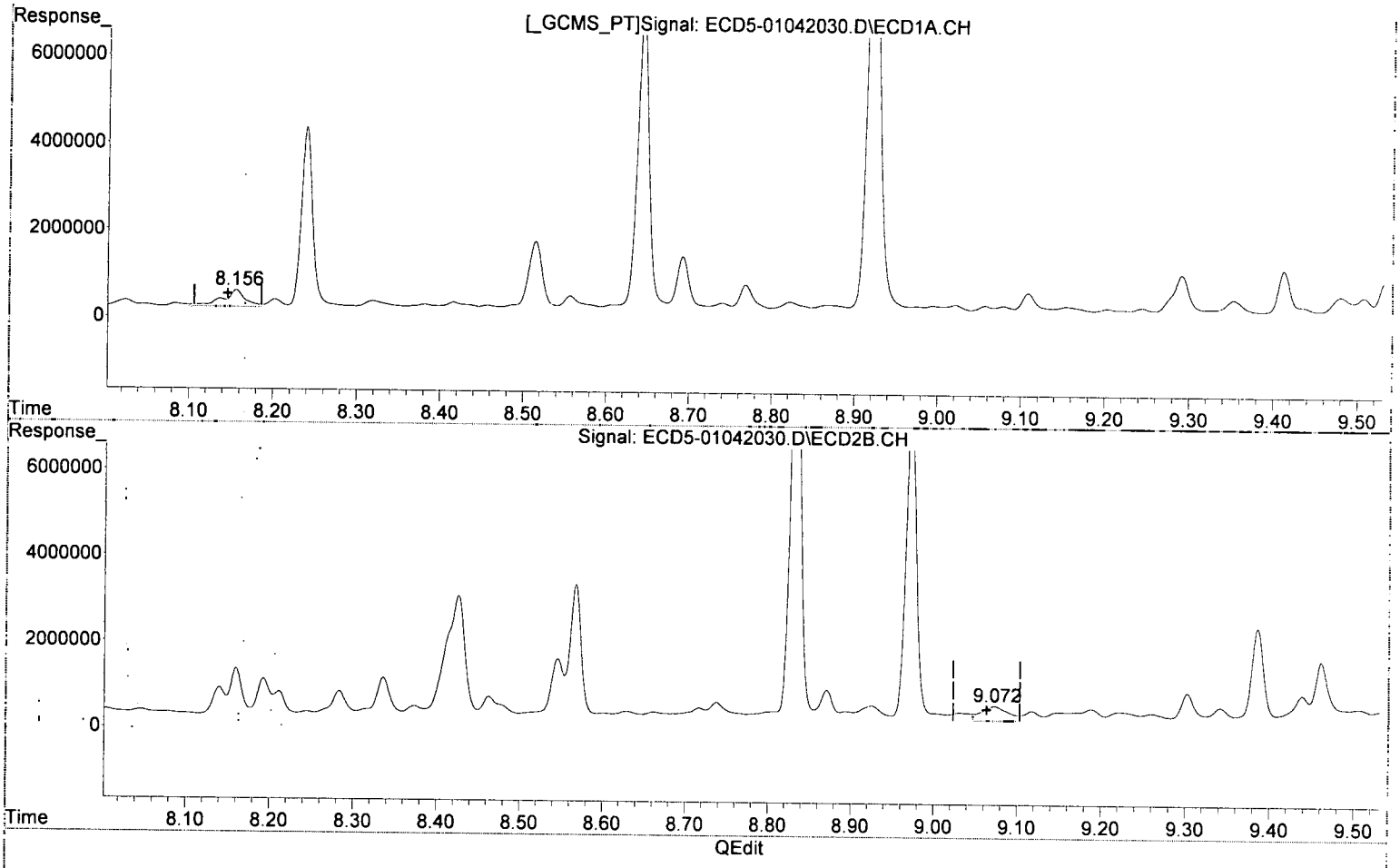

(17) 4,4'-DDT

8.156min 4.135 ng/mL

response 382981

MJB 1/6/20

(17) 4,4'-DDT #2

9.073min 2.522 ng/mL R-02

response 335478

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 0:37
Operator : MJB
Sample : A9J0514-28RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
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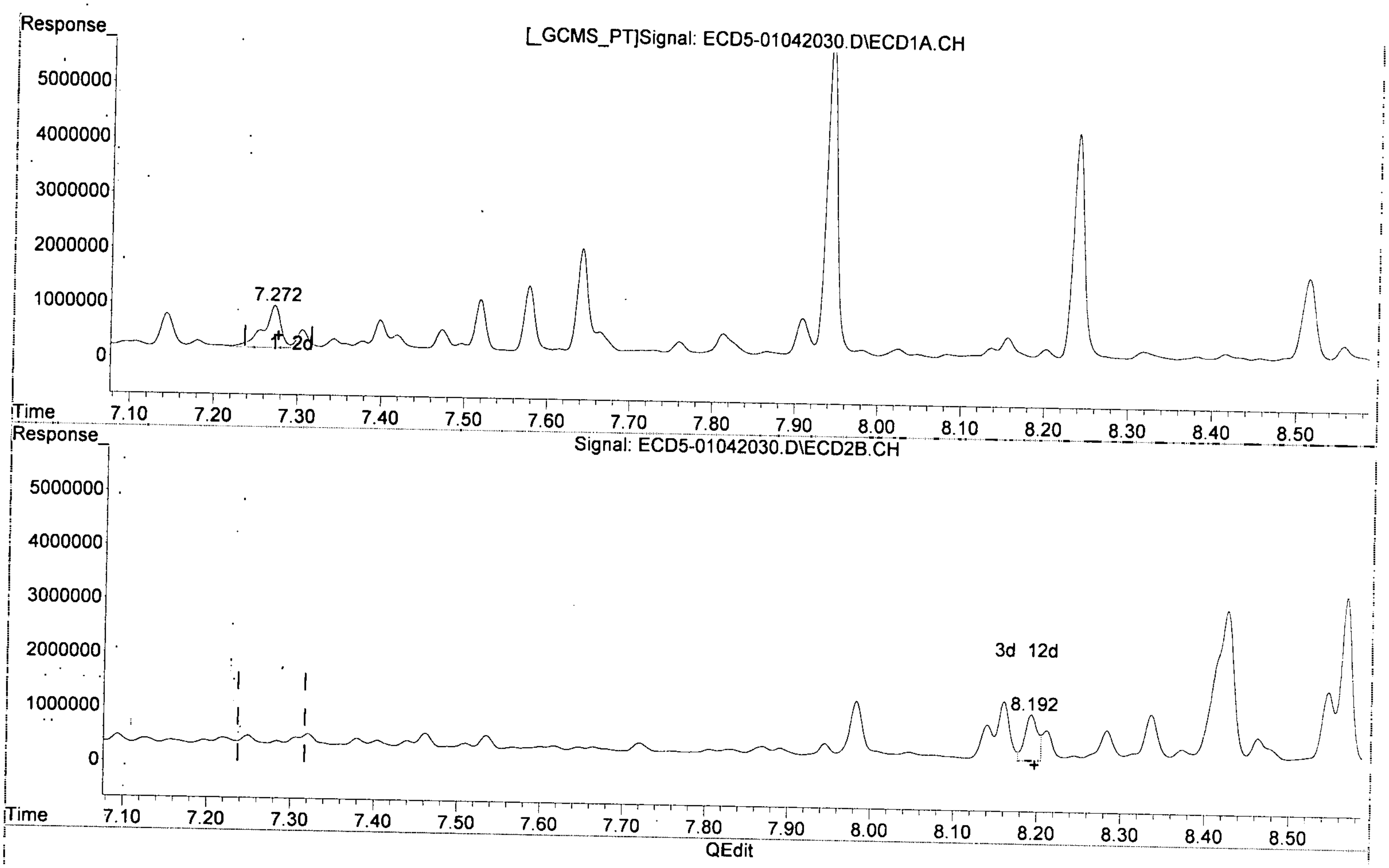
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.272min 7.111 ng/mL

response 766667

MJB 1/6/20

(26) 2,4'-DDE #2

8.193min 4.469 ng/mL R.02

response 849856

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 0:37
Operator : MJB
Sample : A9J0514-28RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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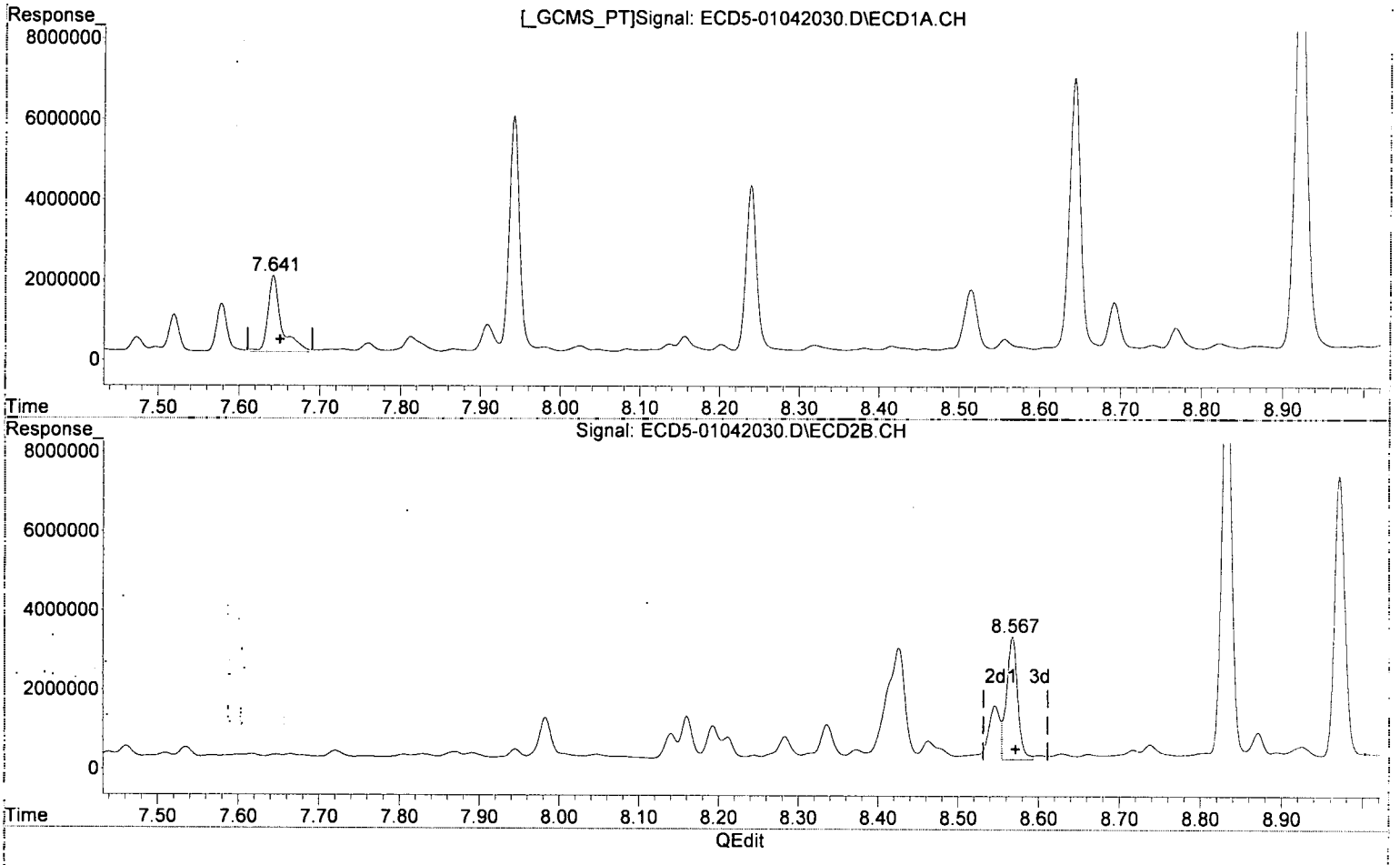
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.642min 19.228 ng/mL

response 1890551

MJB 1/6/20

(28) 2,4'-DDD #2

8.568min 18.253 ng/mL

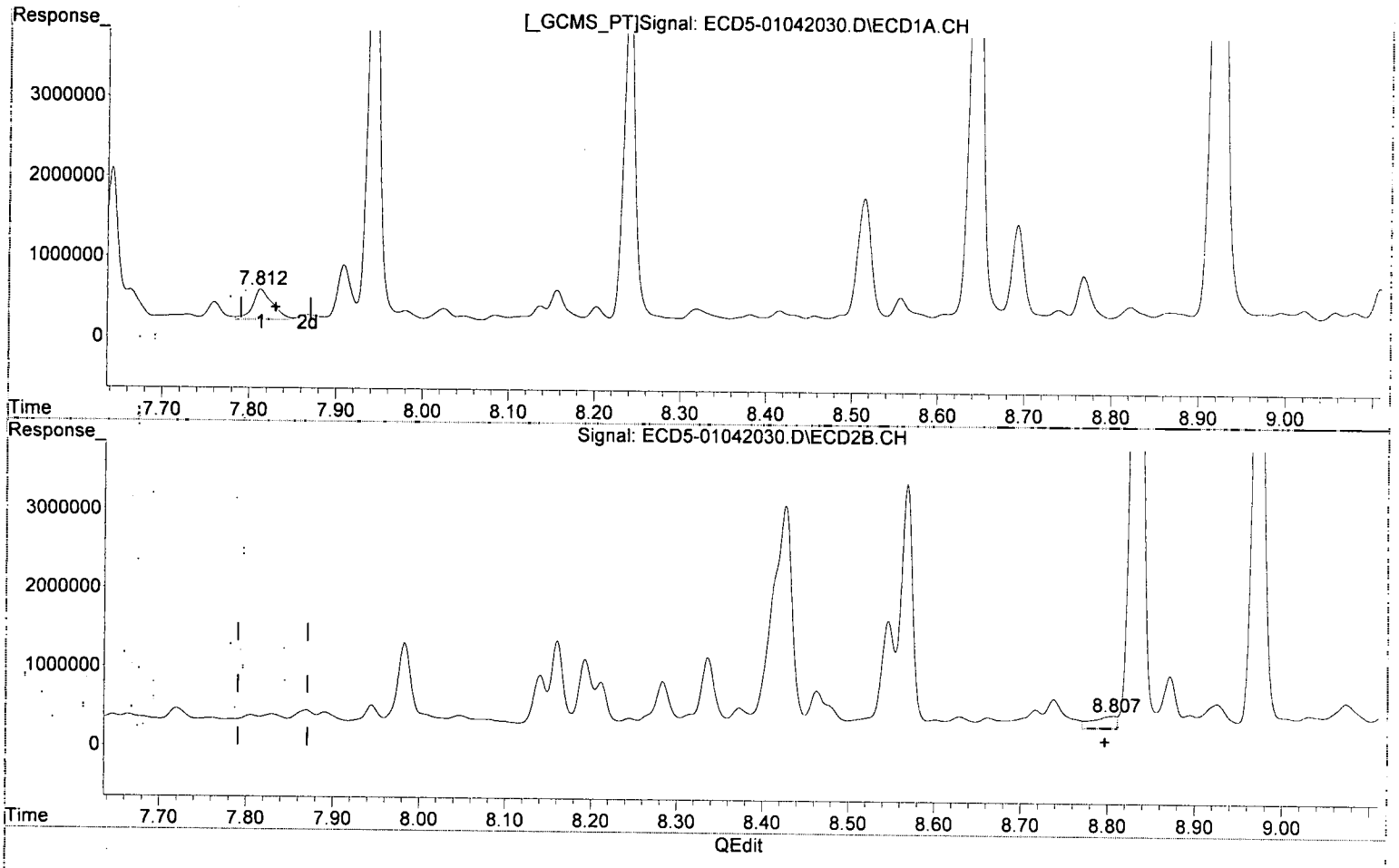
response 3094544

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 0:37
Operator : MJB
Sample : A9J0514-28RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.813min 3.844 ng/mL

response 371921

MJB 1/6/20

(29) 2,4'-DDT #2

8.807min 1.098 ng/mL (m) MDL-MRL

response 156763

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 0:37
Operator : MJB
Sample : A9J0514-28RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

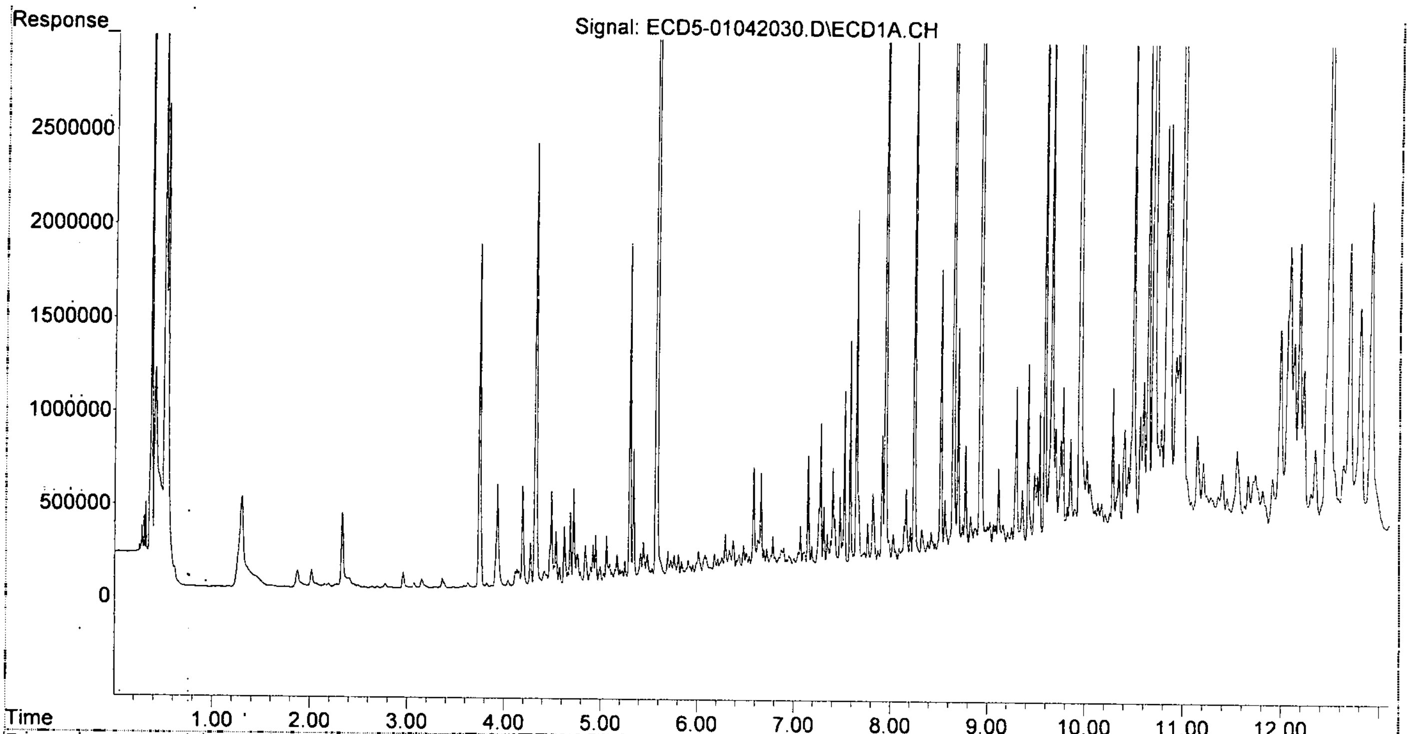
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.335	6.053	698343	1111325	3.915	3.743	
22)	S DCBP (S)	9.532	10.649	751667	1555159	5.459	9.133	#
	Target Compounds							
2)	a-BHC	5.902f	6.650	78041	112291	0.325	0.282	
3)	g-BHC	6.175	7.000	102552	141327	0.504	0.417	
4)	b-BHC	6.251	7.030	81168	153938	1.145	1.111	
5)	Heptachlor	6.580	7.379f	552770	219136	3.006	0.732	#
6)	d-BHC	6.367	7.284	164979	153214	1.163	0.501	#
7)	Aldrin	6.778f	7.617	175367	138145	0.924	0.445	#
8)	Heptachlo...	7.272	8.078	766667	79212	4.267	0.277	#
9)	trans-Chl...	7.343f	8.211	168790	561065	0.936	1.923	#
10)	cis-Chlor...	7.473	8.336f	364074	886789	2.009	3.160	#
11)	Endosulfa...	7.578	8.373	1196455	244390	6.808	0.930	#
12)	4,4'-DDE	7.519	8.426	929605	2814861	6.051	10.850	#
13)	Dieldrin	7.729	8.568	59704	3094544	0.304	10.418	#
14)	Endrin	7.909	8.832f	678850	10326625	4.443	47.570	#
15)	4,4'-DDD	7.942	8.832	5854000	10326625	45.798	46.308	
16)	Endosulfa...	8.024f	8.925	146828	324636	0.961	1.371	#
17)	4,4'-DDT	8.156	9.073	382981	335478	4.135	2.522	
18)	Endrin Al...	8.319f	9.188	161406	279858	1.350	1.426	
19)	Endosulfa...	8.643	9.385	6768904	2164887	48.039	10.926	#
20)	Methoxychlor	8.457f	9.534	80239	245656	1.739	3.474	#
21)	Endrin Ke...	8.823	9.766	215616	1098132	1.127	5.055	#
23)	Hexachlor...	3.148	3.716f	48522	129626	0.134	0.358	#
24)	Hexachlor...	5.722	6.503f	86145	199486	0.366	0.681	#
25)	Oxychlordane	7.181	7.983	110361	1054080	0.587	4.166	#
26)	2,4'-DDE	7.272	8.193	766667	849856	7.111	4.469	
27)	trans-Non...	7.473f	8.283	364074	577654	2.025	2.048	
28)	2,4'-DDD	7.642	8.568	1890551	3094544	19.228	18.253	
29)	2,4'-DDT	7.813	8.832f	371921	10326625	3.844	67.736	#
30)	cis-Nonac...	7.909	8.832	678850	10326625	3.297	32.250	#
31)	Mirex	8.557f	9.766	308425	1098132	2.369	6.859	#
32)	Chlordane...	7.399	8.211	522200	561065	27.331	16.521	
33)	Chlordane...	7.473	8.336	364074	886789	16.161	30.699	#
34)	Chlordane...	8.024	8.971f	146828	7141033	25.723	855.684	#
35)	Chlordane...	3.738	3.716	1835337	129626	NoCal	NoCal	
36)	Toxaphene...	7.473	8.568	364074	3094544	435.872	1307.894	#
37)	Toxaphene...	7.760	8.925	212723	324636	129.811	109.606	
38)	Toxaphene...	8.085	8.971	66745	7141033	17.524	1473.566	#
39)	Toxaphene...	8.319	9.031	161406	170635	45.085	16.055	#
40)	Toxaphene...	8.557	9.188	308425	279858	121.734	66.406	#
41)	Toxaphene...	8.643f	9.595	6768904	1315091	1990.424	286.782	#
42)	Toxaphene...	3.738	3.716	1835337	129626	NoCal	NoCal	

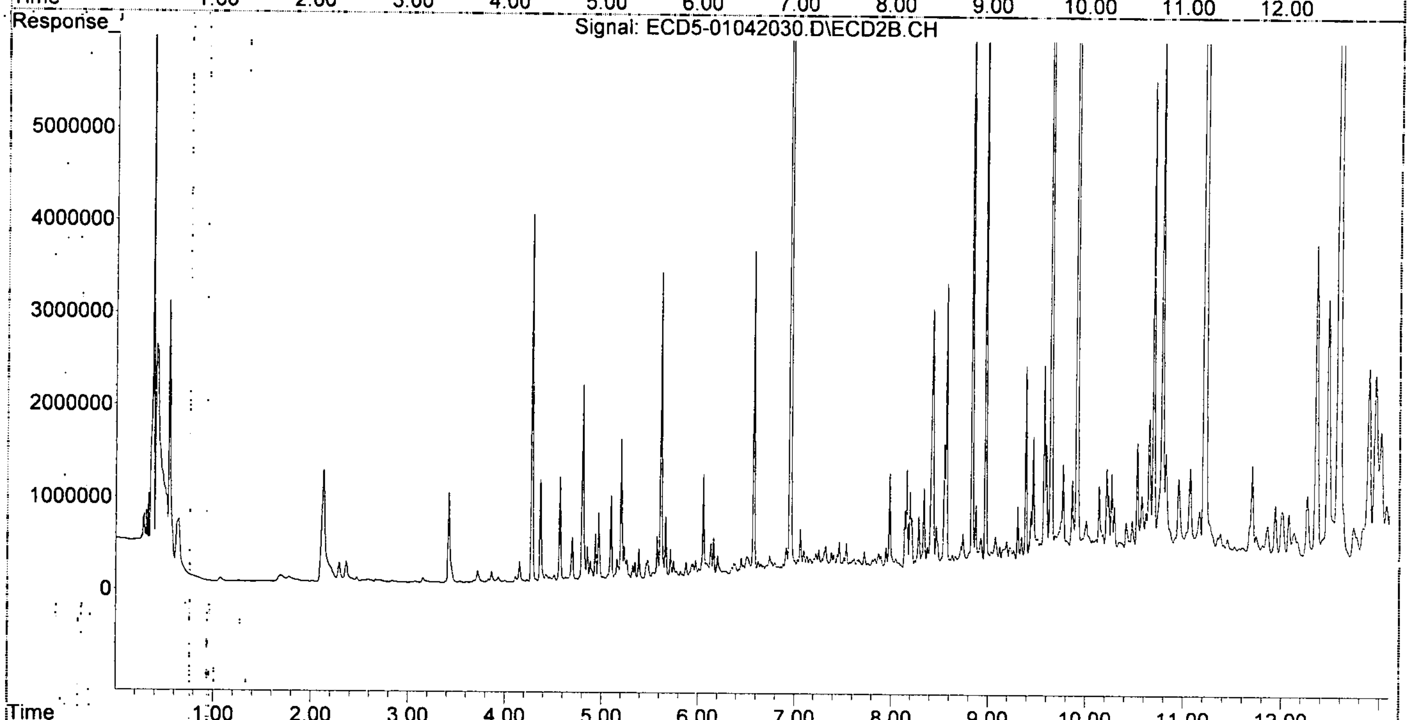
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 0:37
Operator : MJB
Sample : A9J0514-28RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:15
Operator : MJB
Sample : A9J0514-29RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 15:10:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB HC 1/6/20 MJP 1/6/20

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.335	6.054	740321	1059090	4.150	~~3.568~~
22)	S	DCBP (S)	9.532	10.652	775029	2408276	5.635	14.143 # S-04
		Target Compounds						
2)		a-BHC	5.902f	6.646	252176	332747	1.050	0.836
3)		g-BHC	6.177	6.983	286994	352067	1.411	1.040
4)		b-BHC	6.253	7.059	236429	981961	3.335	7.086 #
5)		Heptachlor	6.577	7.378	753522	762520	4.098	2.549
6)		d-BHC	6.401	7.320	293631	957899	2.093	3.357 #
7)		Aldrin	6.777f	7.616	451953	370181	2.380	1.193 #
8)		Heptachlo...	7.254	8.049	992548	228097	5.524	0.796 #
9)		trans-Chl...	7.345f	8.214	406687	959896	2.256	3.291 #
10)		cis-Chlor...	7.474	8.337f	1125065	1388495	6.585	4.947
11)		Endosulfa...	7.578	8.373	455363	291834	2.591	1.110 #
12)		4,4'-DDE	7.519	8.430	432781	2585233	2.817 R-02	9.977 # R-01
13)		Dieldrin	7.732	8.567	108792	2414748	0.554	8.129 #
14)		Endrin	7.909	8.808	723325	360330	~~4.734~~	1.735 #
15)		4,4'-DDD	7.941	8.831	3795501	6636849	30.293	30.527
16)		Endosulfa...	8.047	8.926	139684	594204	0.914	2.510 #
17)		4,4'-DDT	8.156	9.072	688164	609778	7.379	4.383 # R-02
18)		Endrin Al...	8.320f	9.188	286985	558510	2.401	2.845
19)		Endosulfa...	8.645	9.385	12758028	3598583	88.175	18.116 #
20)		Methoxychlor	8.457f	9.532	190970	476882	4.031	6.569 #
21)		Endrin Ke...	8.822	9.765	364405	1753059	2.064	8.144 #
23)		Hexachlor...	3.148	3.755	43208	22920	0.100	0.063
24)		Hexachlor...	5.723	6.510	195785	559023	1.077	1.908 #
25)		Oxychlordane	7.181	7.983	207496	2652257	1.273	10.483 #
26)		2,4'-DDE	7.273	8.205	492725	562754	4.570m	2.959m R-02
27)		trans-Non...	7.474f	8.283	1125065	1799517	6.259	6.378
28)		2,4'-DDD	7.642	8.567	1540987	2414748	15.672	14.243
29)		2,4'-DDT	7.822	8.808	421688	360330	4.358m	2.635 R-02
30)		cis-Nonac...	7.909	8.831	723325	6636849	3.513	20.727 #
31)		Mirex	8.558f	9.765	552603	1753059	4.446	11.115 #
32)		Chlordane...	7.399	8.214	516831	959896	27.050	28.265
33)		Chlordane...	7.474	8.337	1125065	1388495	49.940	48.067
34)		Chlordane...	8.021	8.970f	285514	9747583	50.020	1148.952 #
35)		Chlordane...	3.738	3.716	1532098	153804	NoCal	NoCal
36)		Toxaphene...	7.474	8.567	1125065	2414748	1331.220	1020.582
37)		Toxaphene...	7.759	8.926	433218	594204	268.610	200.621
38)		Toxaphene...	8.087	8.970	136812	9747583	39.123	2011.433 #
39)		Toxaphene...	8.320	9.037	286985	287703	84.989	32.948 #
40)		Toxaphene...	8.558	9.188	552603	558510	218.109	135.064
41)		Toxaphene...	8.645f	9.596	12758028	2400139	3751.551	523.398 #
42)		Toxaphene...	3.738	3.716	1532098	153804	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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Operator : MJB
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Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
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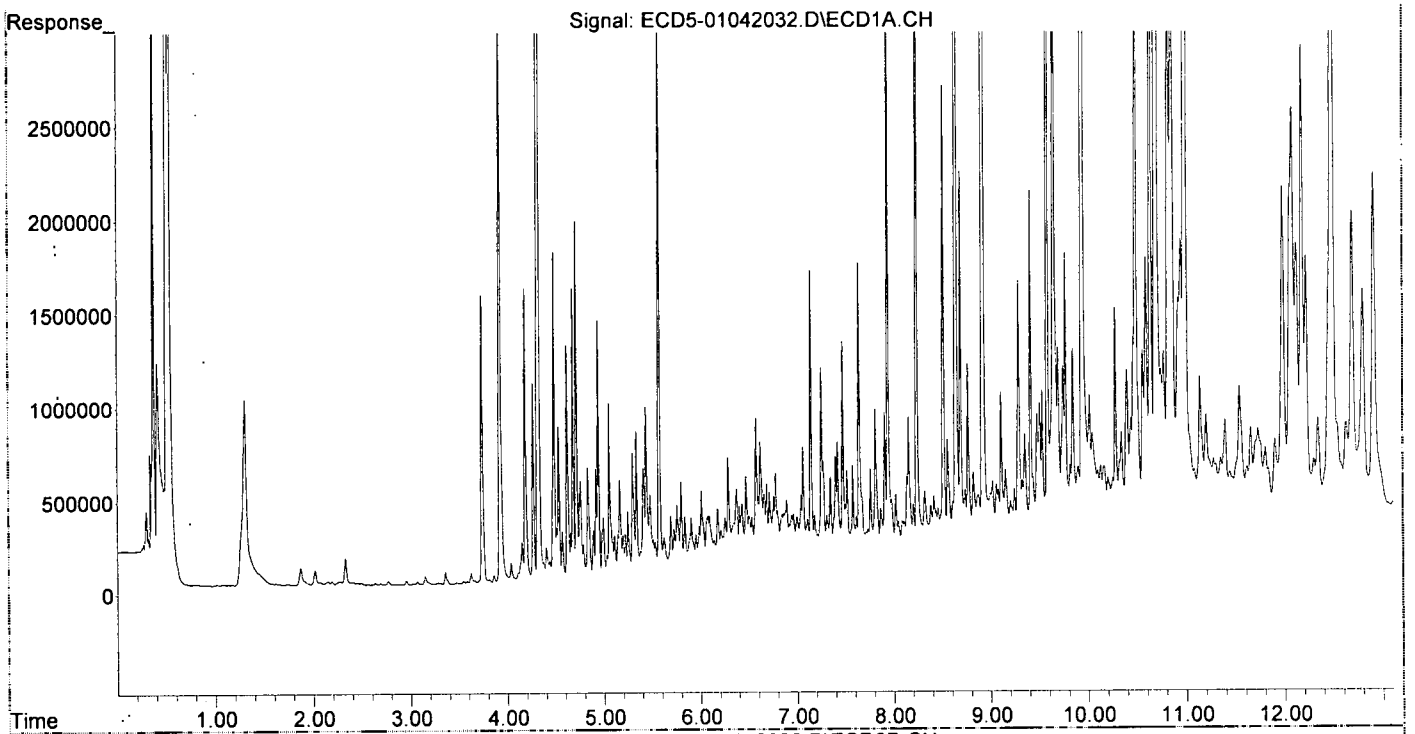
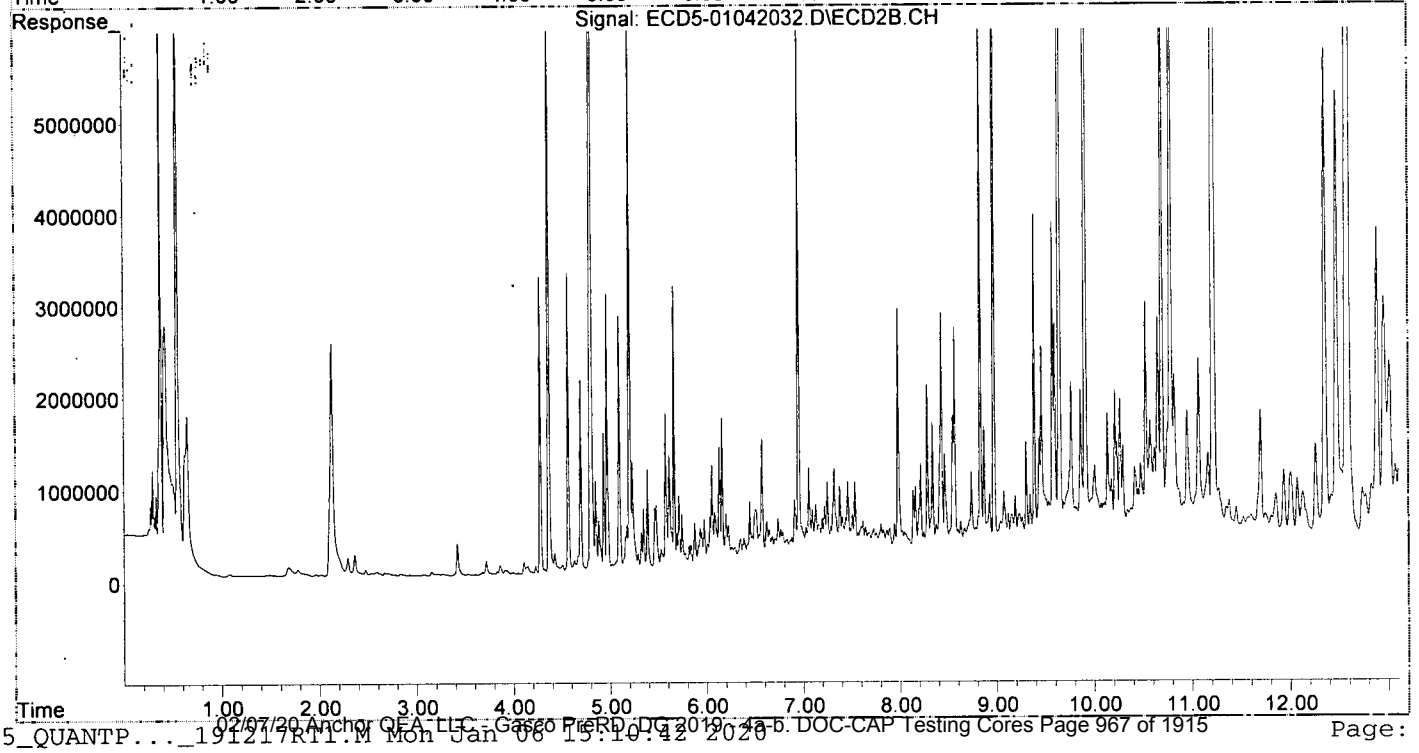
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:15
Operator : MJB
Sample : A9J0514-29RE1@5
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Integration File signal 1: PEST1.e
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Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
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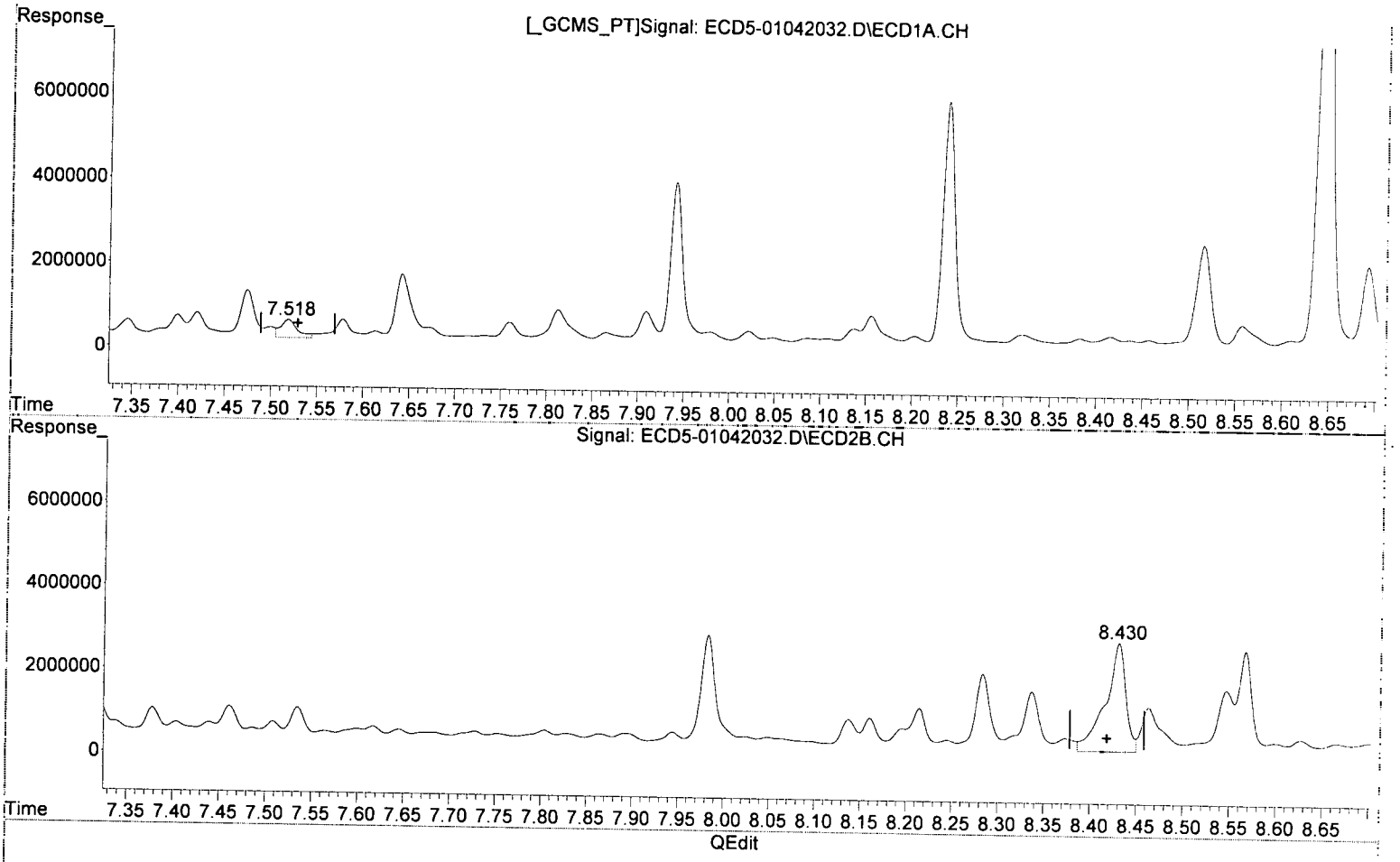
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.519min 2.817 ng/mL Q-02

response 432781

WD 1/16/20

(12) 4,4'-DDE #2

8.430min 9.977 ng/mL Q01

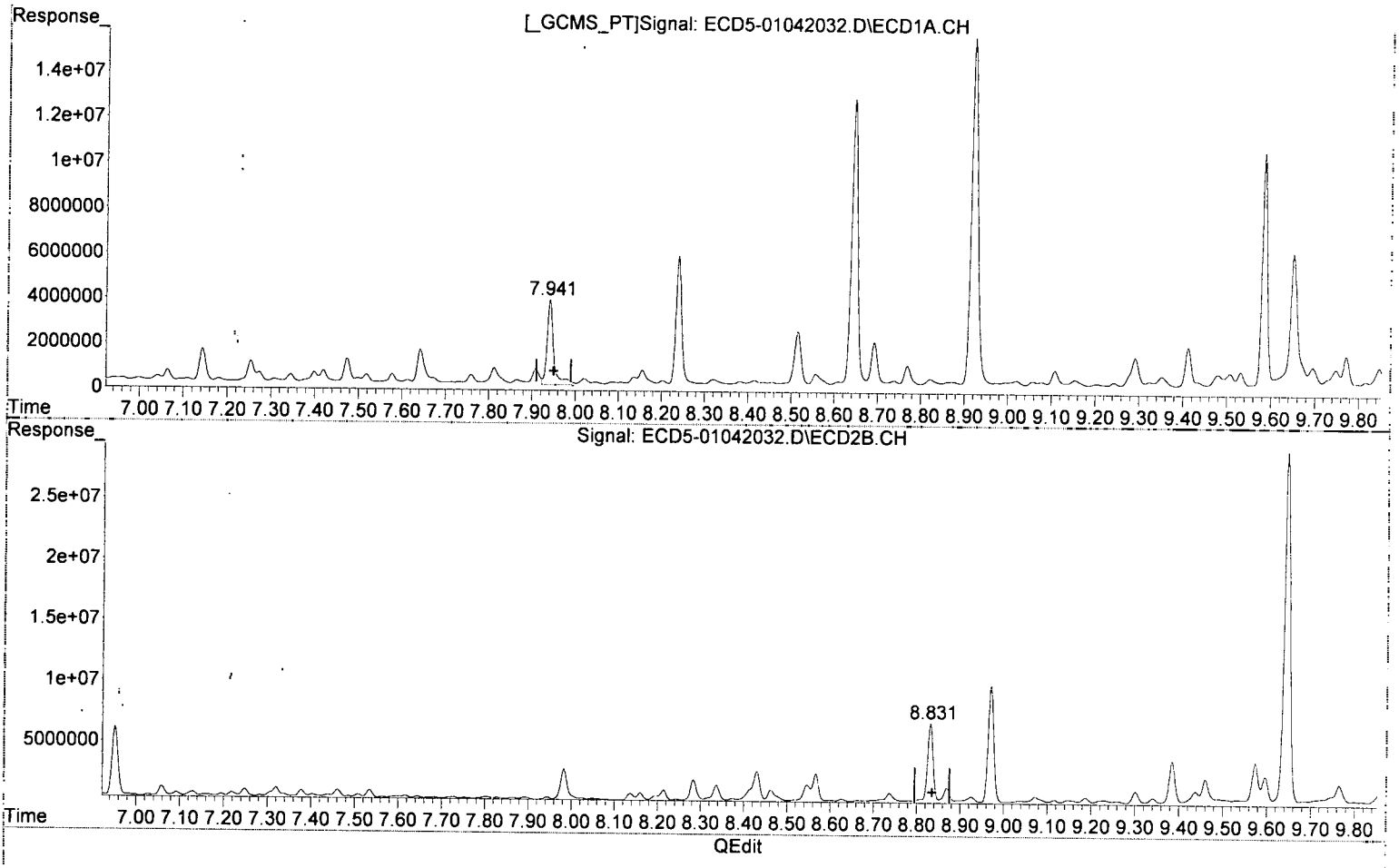
response 2585233

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:15
Operator : MJB
Sample : A9J0514-29RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.941min 30.293 ng/mL

response 3795501

MJB 1/6/20

(15) 4,4'-DDD #2

8.831min 30.527 ng/mL

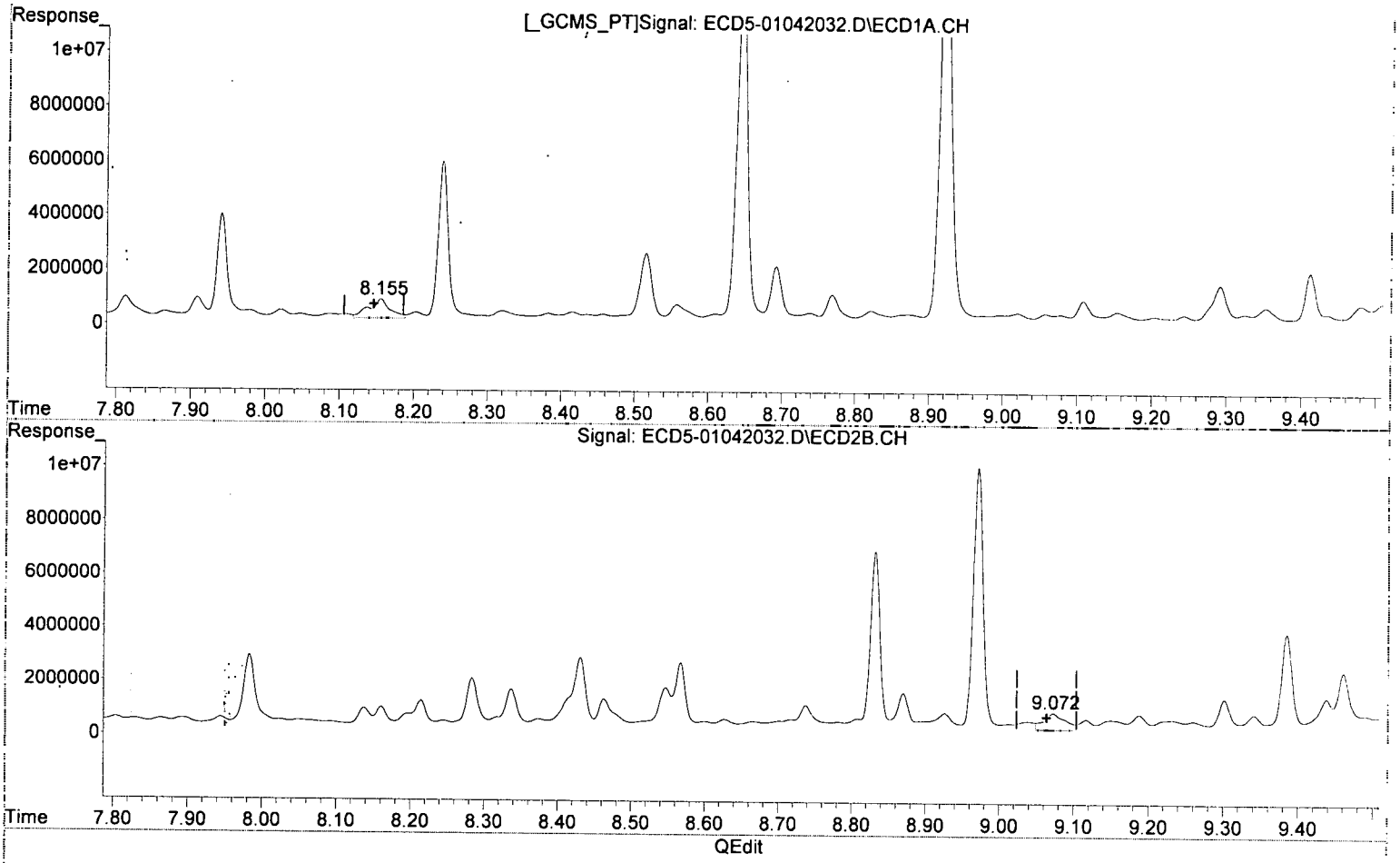
response 6636849

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:15
Operator : MJB
Sample : A9J0514-29RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.156min 7.379 ng/mL

response 688164

MJB 1/6/20

(17) 4,4'-DDT #2

9.072min 4.383 ng/mL R-02

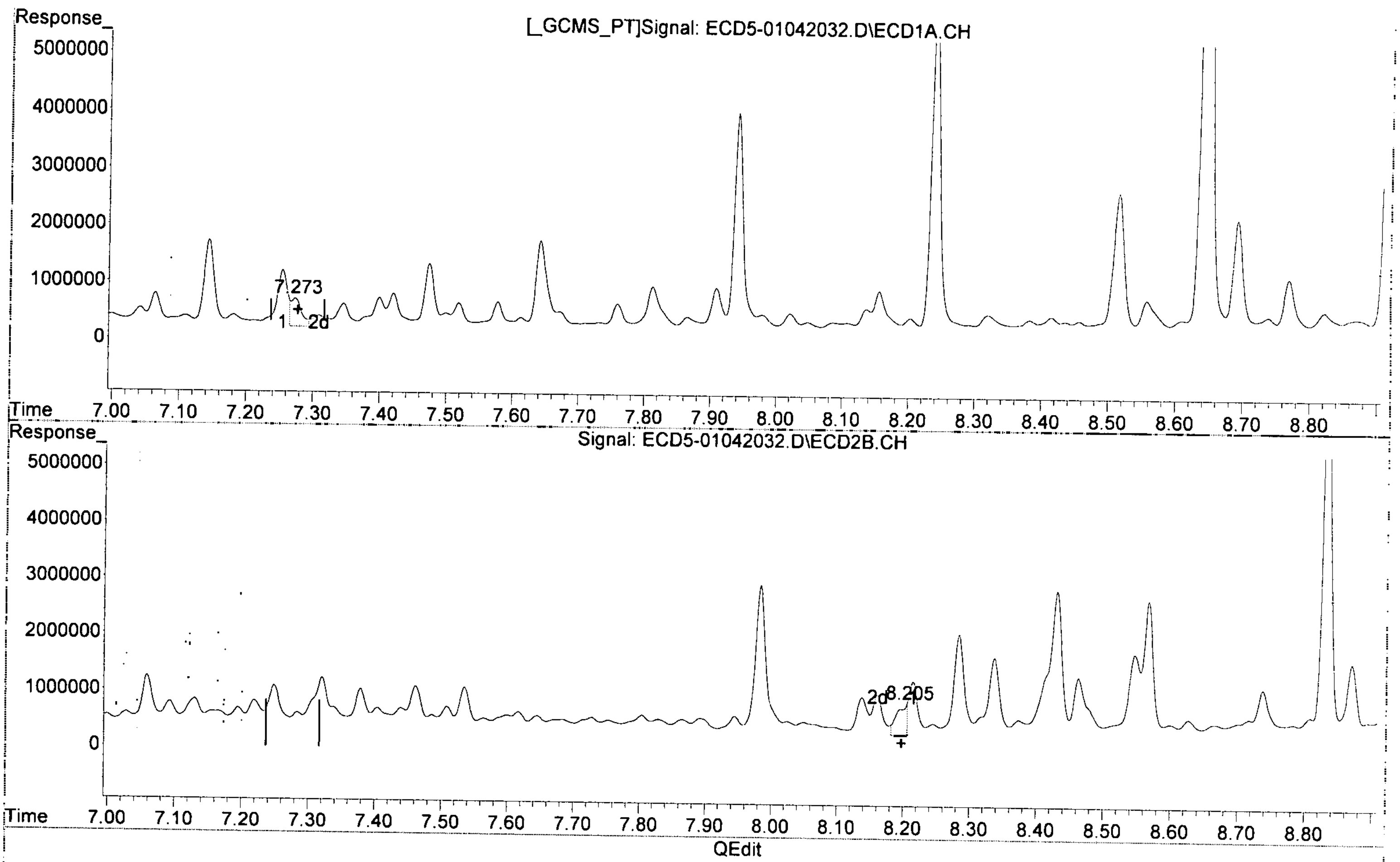
response 609778

(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042032.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 05 Jan 2020   1:15
Operator  : MJB
Sample    : A9J0514-29RE1@5
Misc      : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title  : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped
```



(26) 2,4'-DDE

7.273min 4.570 ng/mL(m)

response 492725

MJB 1/6/20

(26) 2,4'-DDE #2

8.205min 2.959 ng/mL(m) R.02

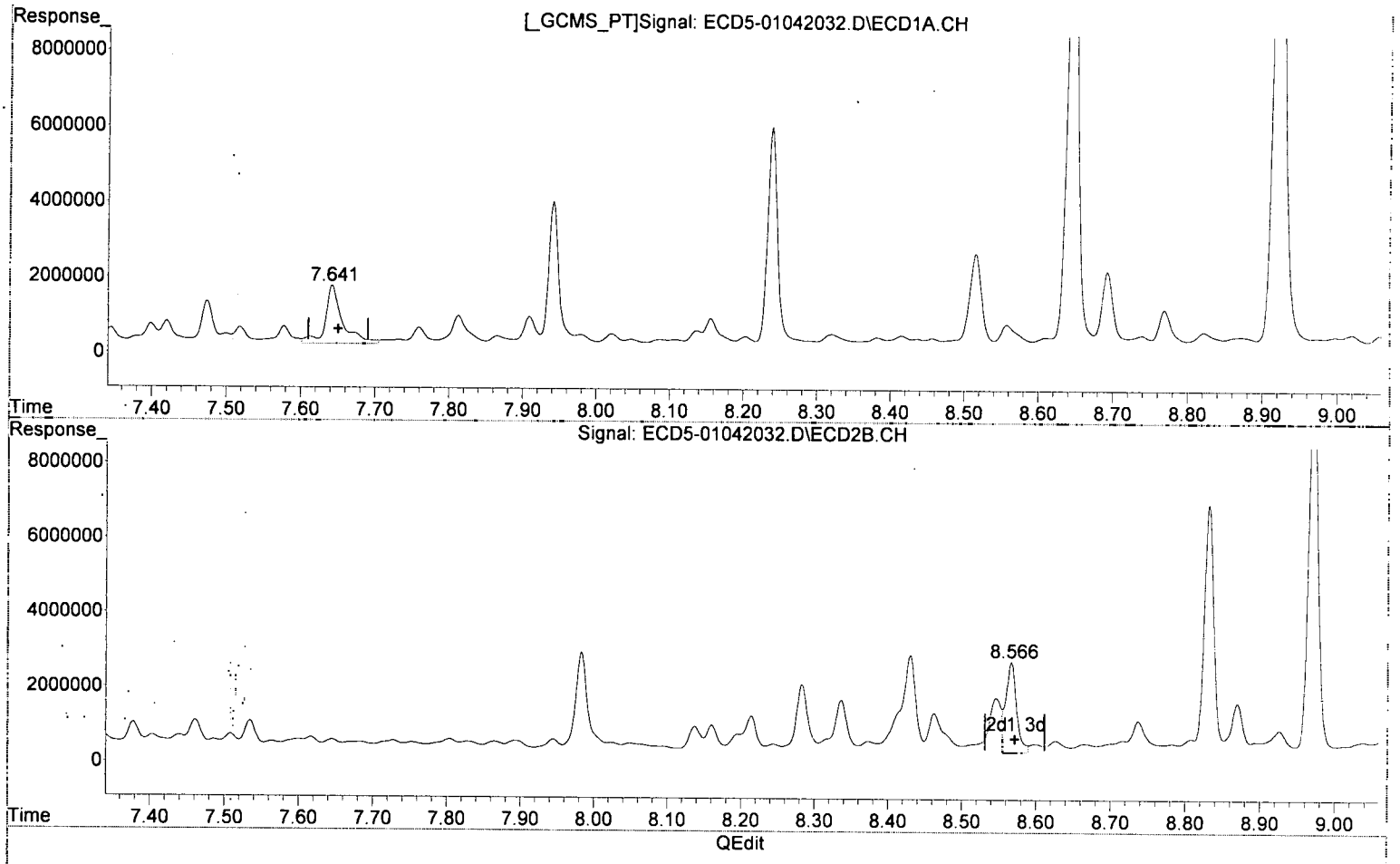
response 562754

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:15
Operator : MJB
Sample : A9J0514-29RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.642min 15.672 ng/mL

response 1540987

MJB 1/6/20

(28) 2,4'-DDD #2

8.567min 14.243 ng/mL

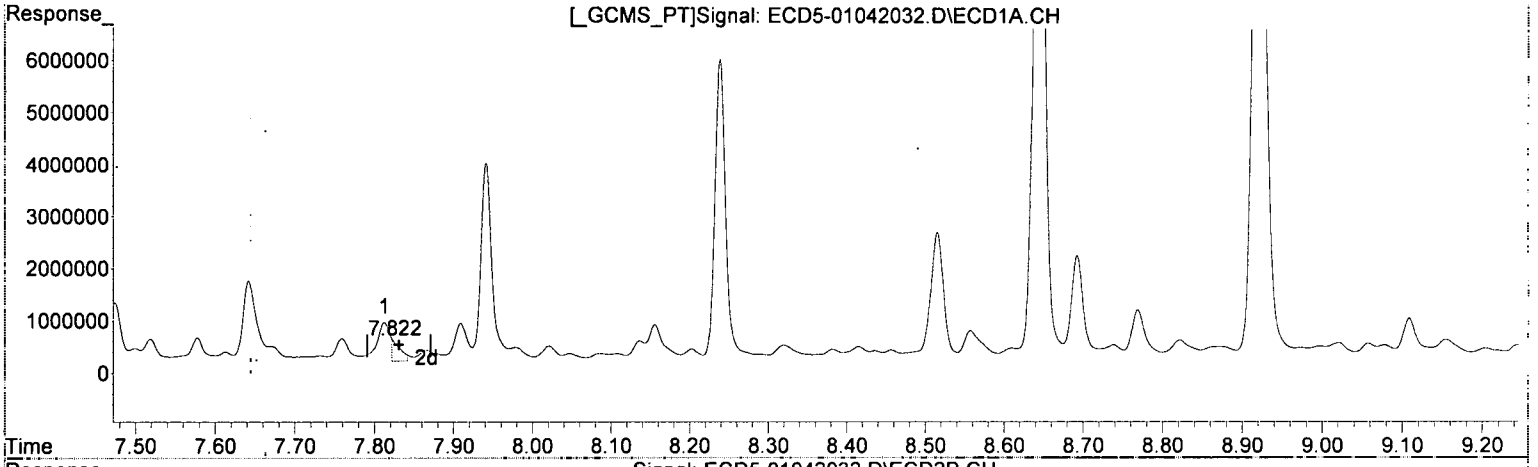
response 2414748

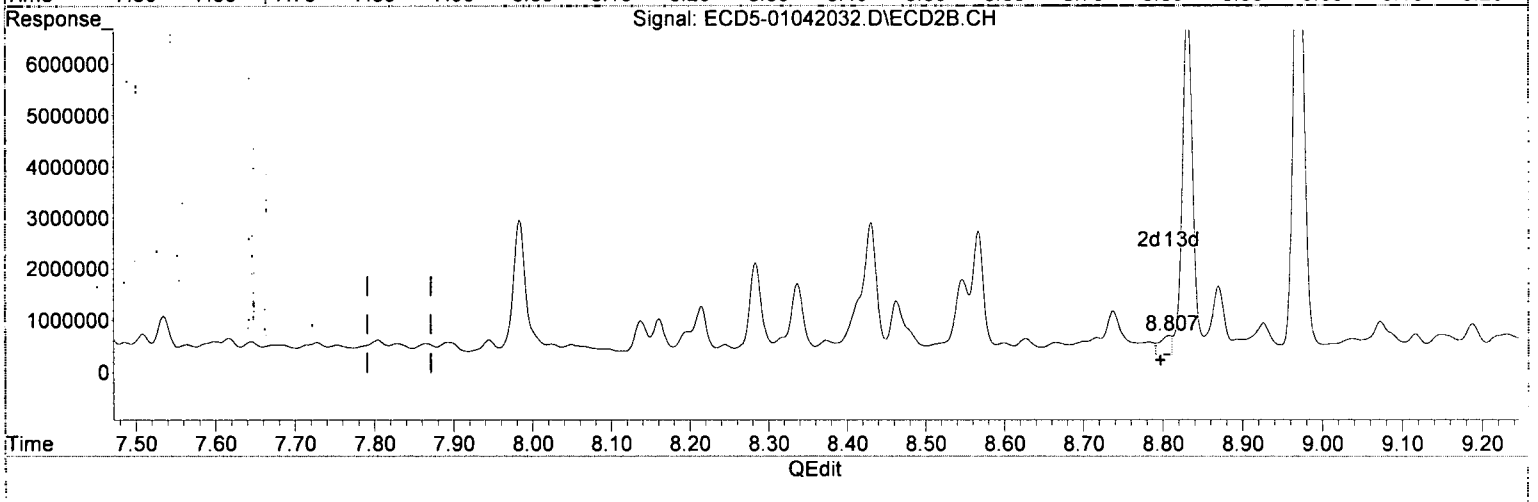
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:15
Operator : MJB
Sample : A9J0514-29RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(29) 2,4'-DDT

7.822min 4.358 ng/mL (m)

response 421688

MJB 1/6/20

(29) 2,4'-DDT #2

8.808min 2.635 ng/mL R-02

response 360330

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:15
Operator : MJB
Sample : A9J0514-29RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

eHT MJB 1/6/20

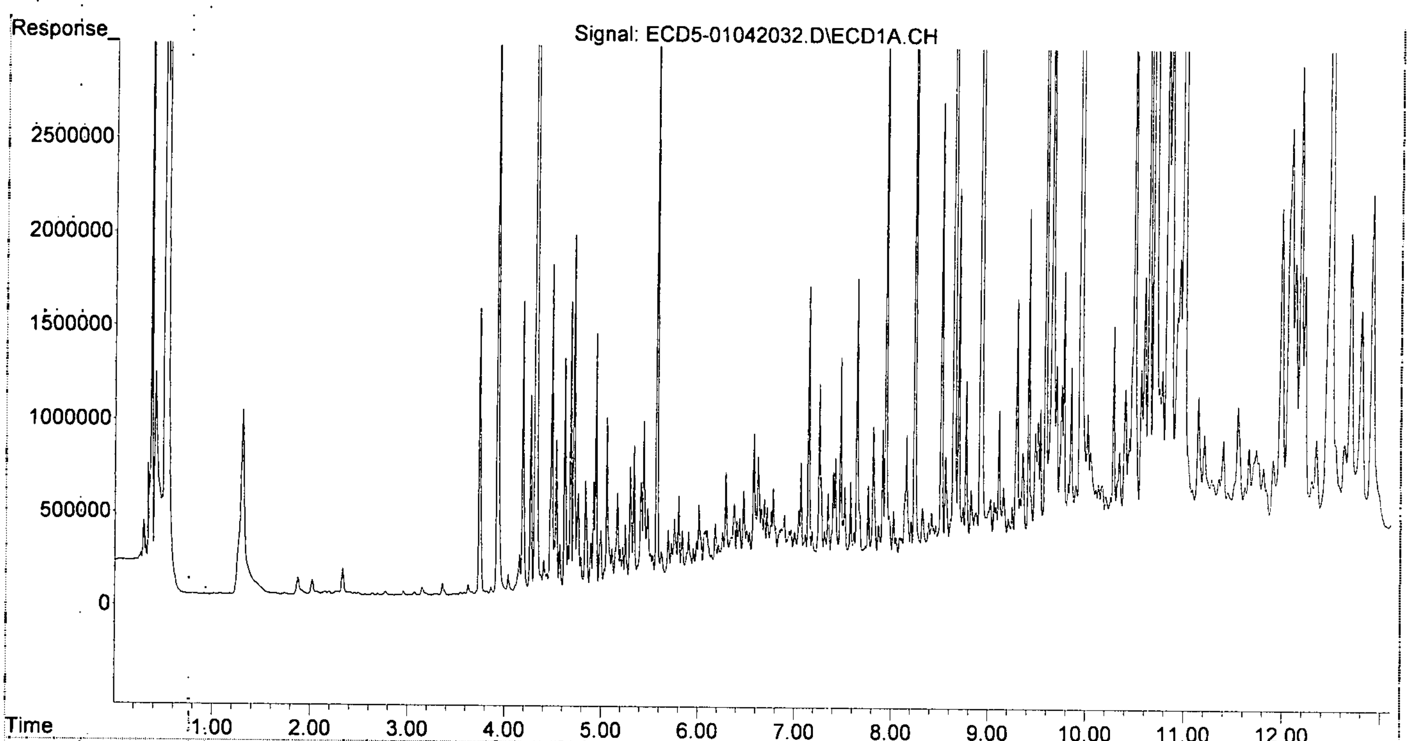
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.335	6.054	740321	1059090	4.150	3.568	
22)	S	DCBP (S)	9.532	10.652	775029	2408276	5.635	14.143	#
		Target Compounds							
2)		a-BHC	5.902f	6.646	252176	332747	1.050	0.836	
3)		g-BHC	6.177	6.983	286994	352067	1.411	1.040	
4)		b-BHC	6.253	7.059	236429	981961	3.335	7.086	#
5)		Heptachlor	6.577	7.378	753522	762520	4.098	2.549	
6)		d-BHC	6.401	7.320	293631	957899	2.093	3.357	#
7)		Aldrin	6.777f	7.616	451953	370181	2.380	1.193	#
8)		Heptachlo...	7.254	8.049	992548	228097	5.524	0.796	#
9)		trans-Chl...	7.345f	8.214	406687	959896	2.256	3.291	#
10)		cis-Chlor...	7.474	8.337f	1125065	1388495	6.585	4.947	
11)		Endosulfa...	7.578	8.373	455363	291834	2.591	1.110	#
12)		4,4'-DDE	7.519	8.430	432781	2585233	2.817	9.977	#
13)		Dieldrin	7.732	8.567	108792	2414748	0.554	8.129	#
14)		Endrin	7.909	8.808	723325	360330	4.734	1.735	#
15)		4,4'-DDD	7.941	8.831	3795501	6636849	30.293	30.527	
16)		Endosulfa...	8.047	8.926	139684	594204	0.914	2.510	#
17)		4,4'-DDT	8.156	9.072	688164	609778	7.379	4.383	#
18)		Endrin Al...	8.320f	9.188	286985	558510	2.401	2.845	
19)		Endosulfa...	8.645	9.385	12758028	3598583	88.175	18.116	#
20)		Methoxychlor	8.457f	9.532	190970	476882	4.031	6.569	#
21)		Endrin Ke...	8.822	9.765	364405	1753059	2.064	8.144	#
23)		Hexachlor...	3.148	3.755	43208	22920	0.100	0.063	
24)		Hexachlor...	5.723	6.510	195785	559023	1.077	1.908	#
25)		Oxychlordane	7.181	7.983	207496	2652257	1.273	10.483	#
26)		2,4'-DDE	7.254f	8.214	992548	959896	9.206	5.047	#
27)		trans-Non...	7.474f	8.283	1125065	1799517	6.259	6.378	
28)		2,4'-DDD	7.642	8.567	1540987	2414748	15.672	14.243	
29)		2,4'-DDT	7.813	8.808	743530	360330	7.684	2.635	#
30)		cis-Nonac...	7.909	8.831	723325	6636849	3.513	20.727	#
31)		Mirex	8.558f	9.765	552603	1753059	4.446	11.115	#
32)		Chlordane...	7.399	8.214	516831	959896	27.050	28.265	
33)		Chlordane...	7.474	8.337	1125065	1388495	49.940	48.067	
34)		Chlordane...	8.021	8.970f	285514	9747583	50.020	1148.952	#
35)		Chlordane...	3.738	3.716	1532098	153804	NoCal	NoCal	
36)		Toxaphene...	7.474	8.567	1125065	2414748	1331.220	1020.582	
37)		Toxaphene...	7.759	8.926	433218	594204	268.610	200.621	
38)		Toxaphene...	8.087	8.970	136812	9747583	39.123	2011.433	#
39)		Toxaphene...	8.320	9.037	286985	287703	84.989	32.948	#
40)		Toxaphene...	8.558	9.188	552603	558510	218.109	135.064	
41)		Toxaphene...	8.645f	9.596	12758028	2400139	3751.551	523.398	#
42)		Toxaphene...	3.738	3.716	1532098	153804	NoCal	NoCal	

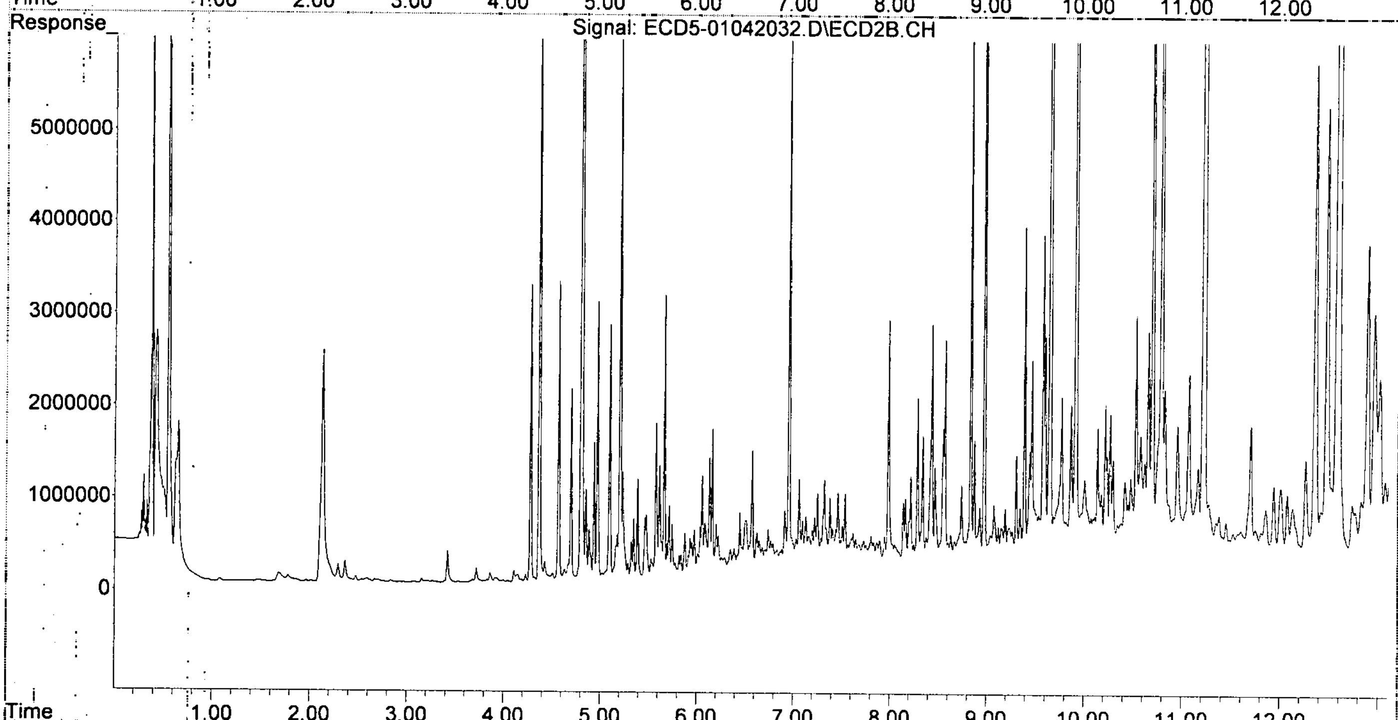
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

```
Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042032.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 05 Jan 2020   1:15
Operator  : MJB
Sample    : A9J0514-29RE1@5
Misc      : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title  : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation    6890 Scale Mode: Small noise peaks clipped
```





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:52
Operator : MJB
Sample : A9J0514-30RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 15:15:10 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

R-04

MJB 1/16/20

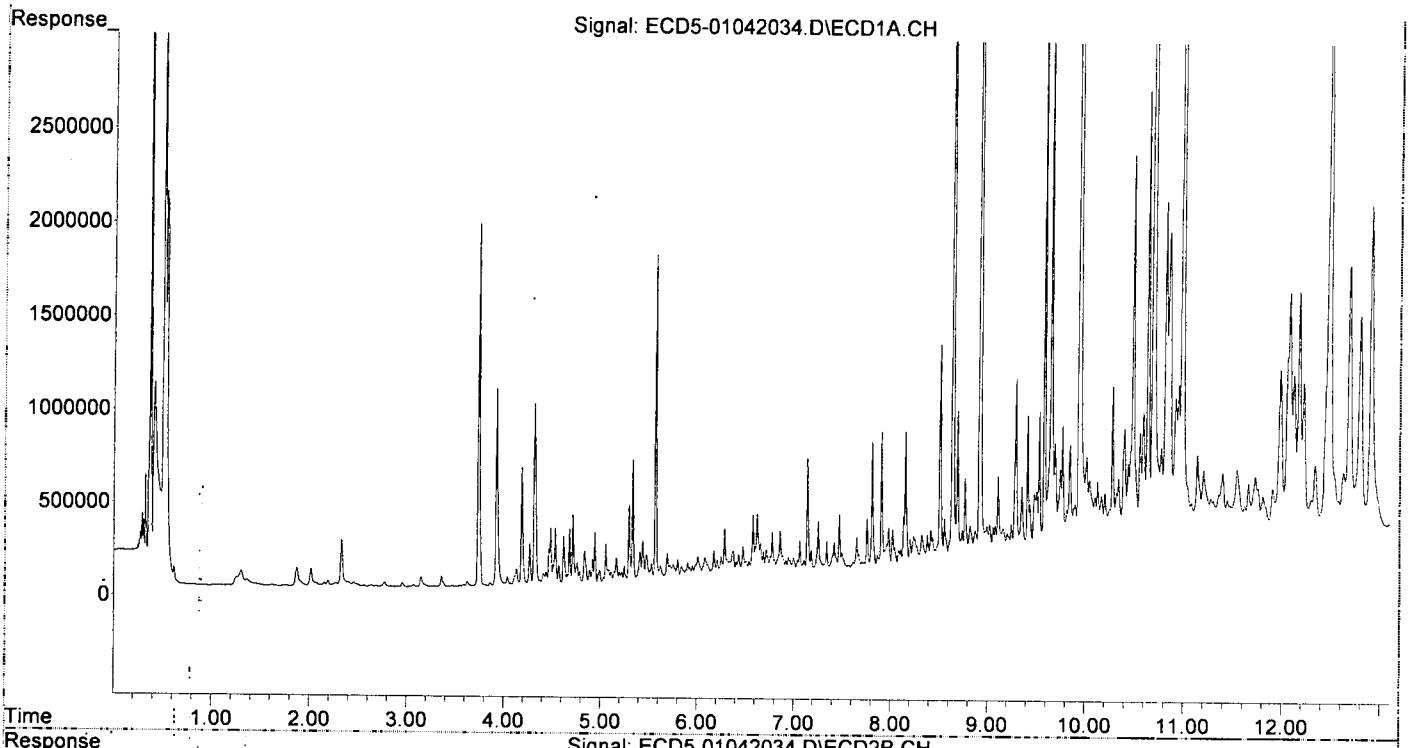
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.333	6.051	638732	1029885	3.581	3.469
22)	S	DCBP (S)	9.531	10.646	750477	1551996	5.450	9.114 # S-04
		Target Compounds						
2)		a-BHC	5.902f	6.651	73621	94048	0.307	0.236
3)		g-BHC	6.173	6.998	128902	96424	0.634	0.285 #
4)		b-BHC	6.247	7.056	96197	301704	1.357	2.177 #
5)		Heptachlor	6.577	7.378	306864	296737	1.669	0.992 #
6)		d-BHC	6.374	7.320	124710	422988	0.871	1.462 #
7)		Aldrin	6.777f	7.616	211088	92179	1.112	0.297 #
8)		Heptachlo...	7.252	8.048	253889	69190	1.413	0.242 #
9)		trans-Chl...	7.341f	8.210	145177	351134	0.805	1.204 #
10)		cis-Chlor...	7.471	8.316	288038	84234	1.551	0.300 #
11)		Endosulfa...	7.572	8.336f	11024	227279	0.063	0.865 #
12)		4,4'-DDE	0.000	8.426	0	399481	N.D.	1.519m# R-01
13)		Dieldrin	7.729	8.544f	20283	1344685	0.103	4.527 #
14)		Endrin	7.907	8.805	710845	123642	4.653	0.554 #
15)		4,4'-DDD	7.958	8.831	113052	387716	0.772m	1.728 # R-01
16)		Endosulfa...	8.044	8.925	87212	263368	0.571	1.112 #
17)		4,4'-DDT	8.155	9.072	699053	501138	7.494	3.649 # R-02
18)		Endrin Al...	8.323f	9.188	145295	445405	1.215	2.269 #
19)		Endosulfa...	8.642	9.384	7251230	1473668	51.356	7.394 #
20)		Methoxychlor	8.513f	9.534	1151790	415640	23.053	5.754 #
21)		Endrin Ke...	8.819	9.765	172078	759576	0.852	3.444 #
23)		Hexachlor...	3.147	3.715f	55078	133303	0.175	0.368 #
24)		Hexachlor...	5.719	6.511	64355	150507	0.225	0.514 #
25)		Oxychlordane	7.179	7.981	100991	753731	0.520	2.979 #
26)		2,4'-DDE	7.264	8.210	70903	351134	0.658m	1.846 # R-01
27)		trans-Non...	7.471	8.282	288038	340886	1.602	1.208
28)		2,4'-DDD	7.650	8.562	156895	162438	1.596	0.958m
29)		2,4'-DDT	7.820	8.805	263842	123642	2.727m	0.847 #
30)		cis-Nonac...	7.907	8.831	710845	387716	3.452	1.211 #
31)		Mirex	8.555f	9.765	217726	759576	1.598	4.642 #
32)		Chlordane...	7.418f	8.210	137547	351134	7.199	10.340 #
33)		Chlordane...	7.471	8.336	288038	227279	12.786	7.868
34)		Chlordane...	8.022	8.971f	182761	223838	32.018	15.198 #
35)		Chlordane...	3.737	3.715	1938108	133303	NoCal	NoCal
36)		Toxaphene...	7.471	8.544	288038	1344685	344.798	568.325 #
37)		Toxaphene...	7.757	8.925	254276	263368	155.931	88.921 #
38)		Toxaphene...	8.084	8.971	67200	223838	17.664	46.189 #
39)		Toxaphene...	8.323	9.038	145295	141663	39.955	11.864 #
40)		Toxaphene...	8.555	9.188	217726	445405	85.935	107.289
41)		Toxaphene...	8.642f	9.593	7251230	1056497	2132.254	230.390 #
42)		Toxaphene...	3.737	3.715	1938108	133303	NoCal	NoCal

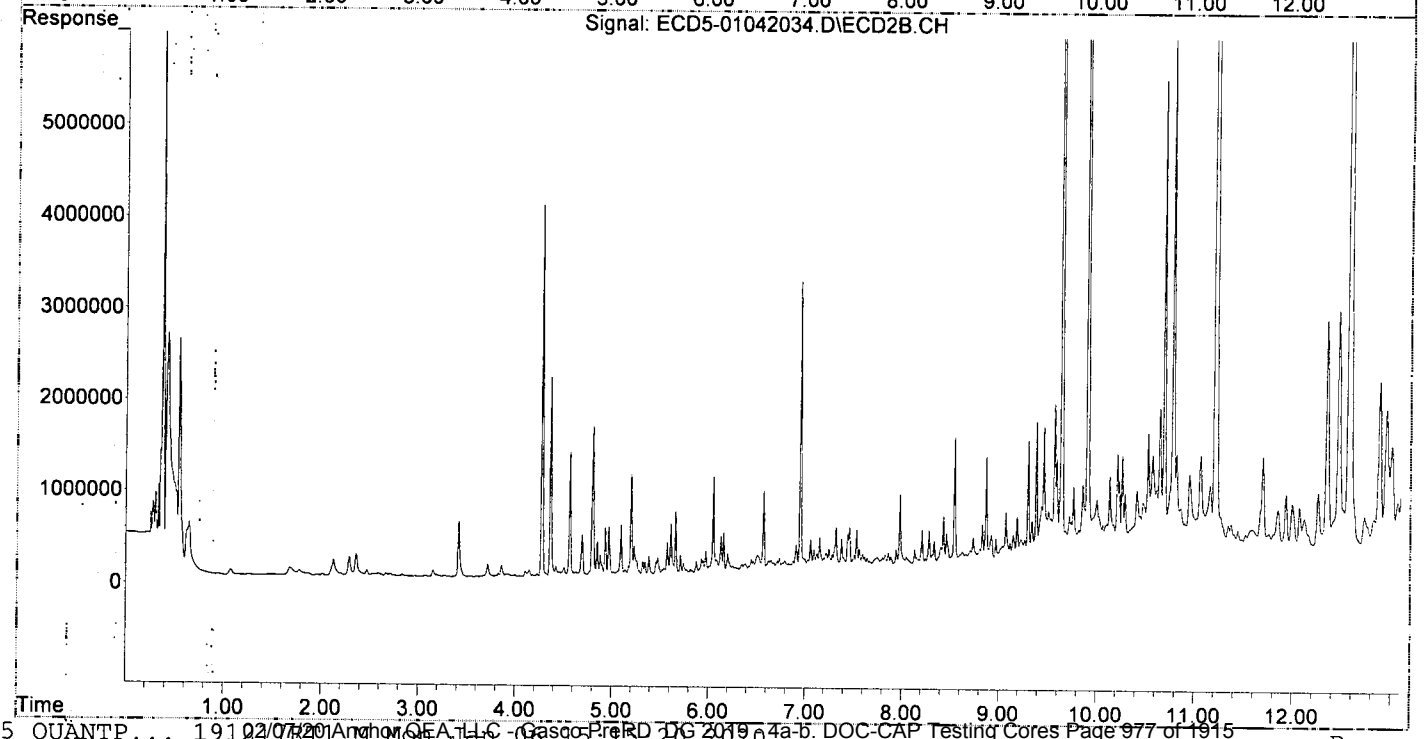
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:52
Operator : MJB
Sample : A9J0514-30RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 15:15:10 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

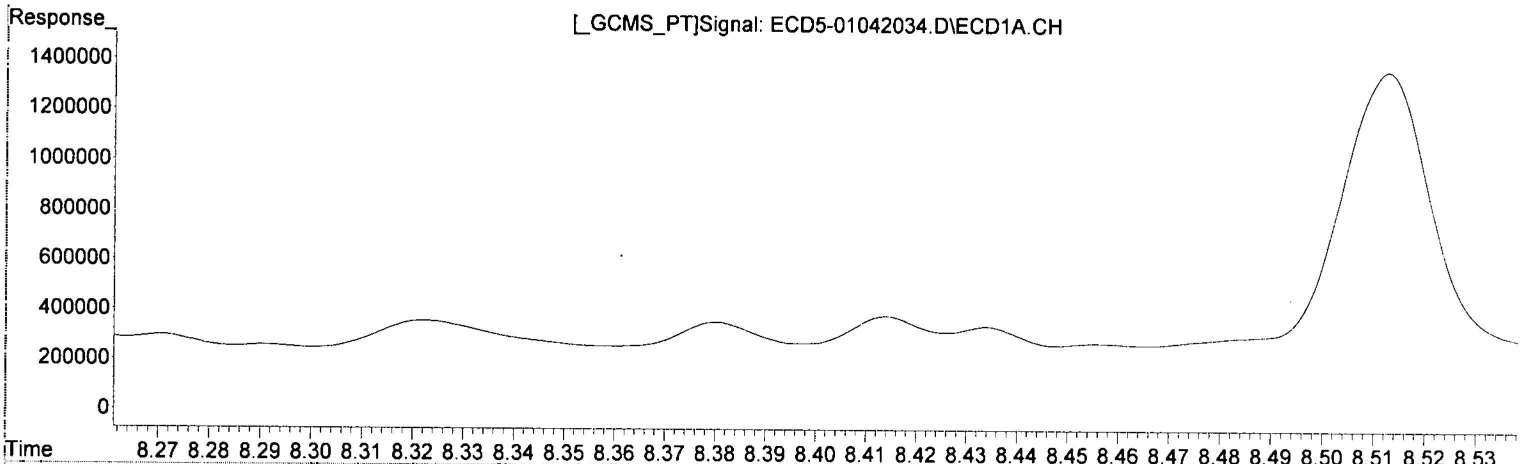


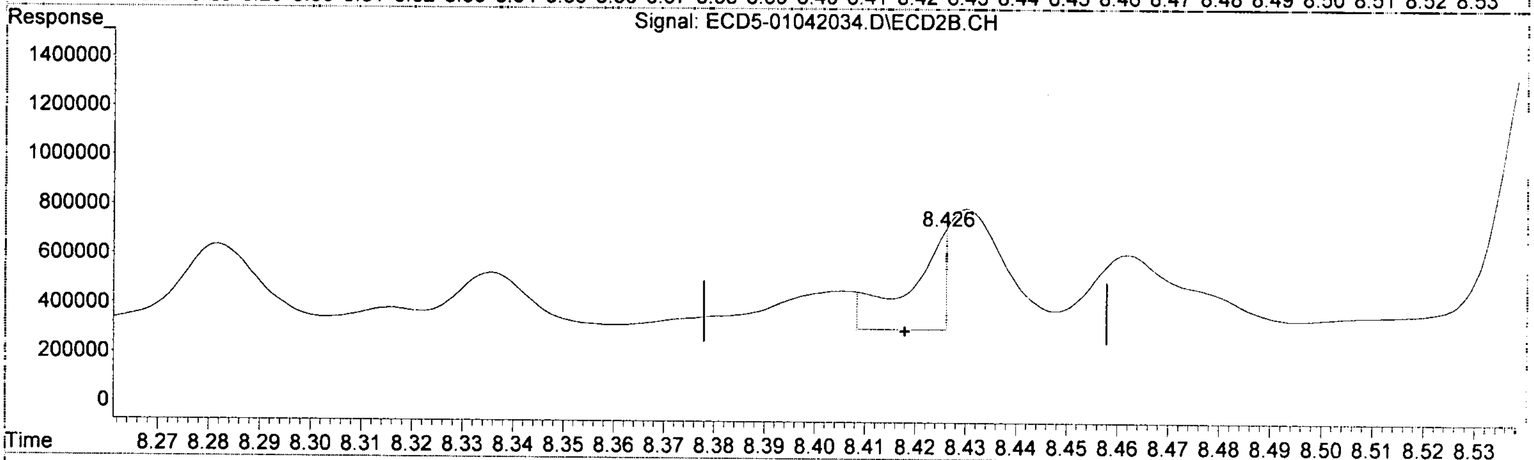


Quantitation Report (Qedit)

```
Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042034.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 05 Jan 2020   1:52
Operator  : MJB
Sample    : A9J0514-30RE1@5
Misc      : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:38 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title  : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation     6890 Scale Mode: Small noise peaks clipped
```





QEdit

(12) 4,4'-DDE

0.000min 0.000 ng/mL

response 0

WJB 1/6/20

(12) 4,4'-DDE #2

8.426min 1.519 ng/mL (m) P-01

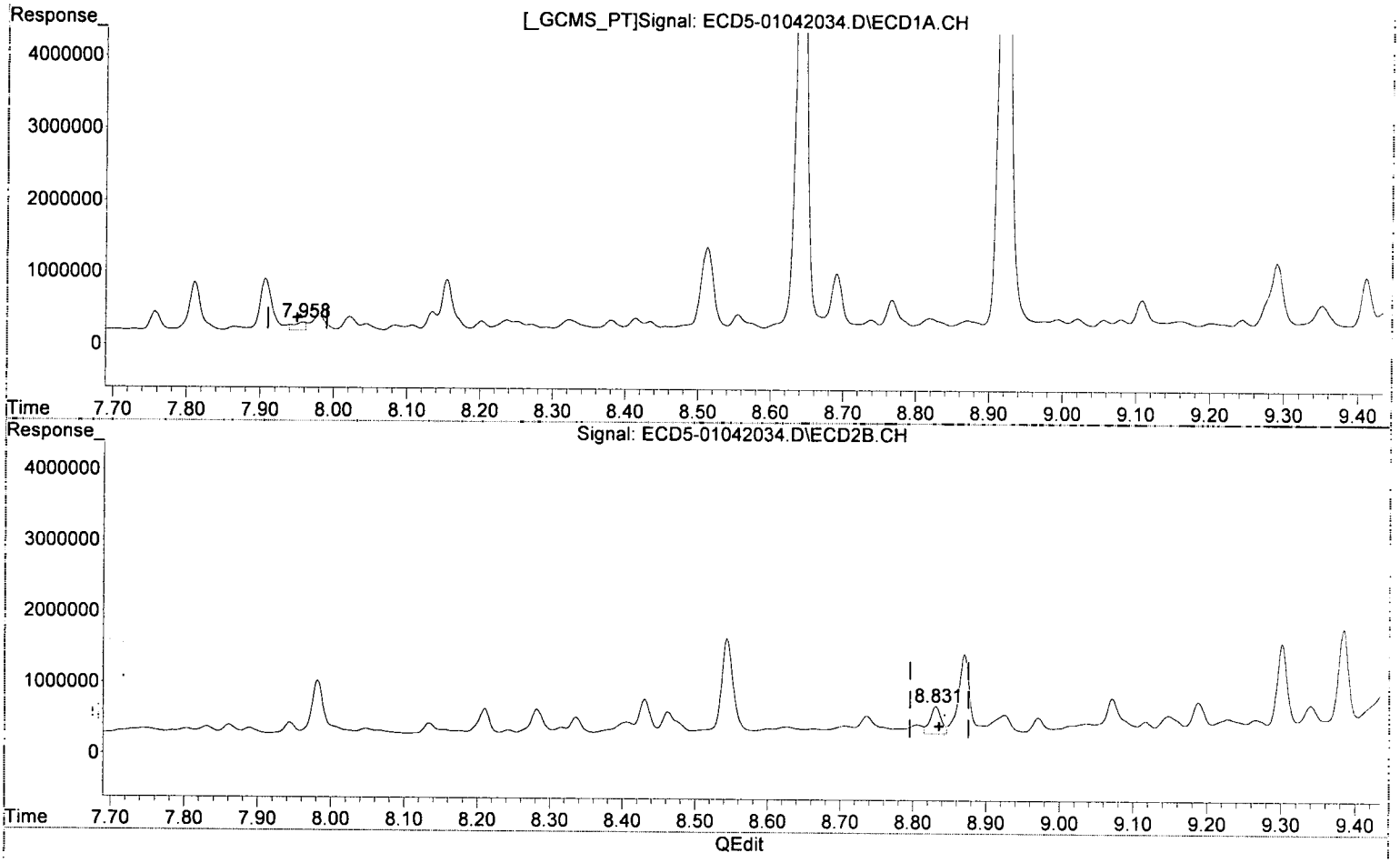
response 399481

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:52
Operator : MJB
Sample : A9J0514-30RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:38 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.958min 0.772 ng/mL m

response 113052

MJB 1/6/20

(15) 4,4'-DDD #2

8.831min 1.728 ng/mL P-01

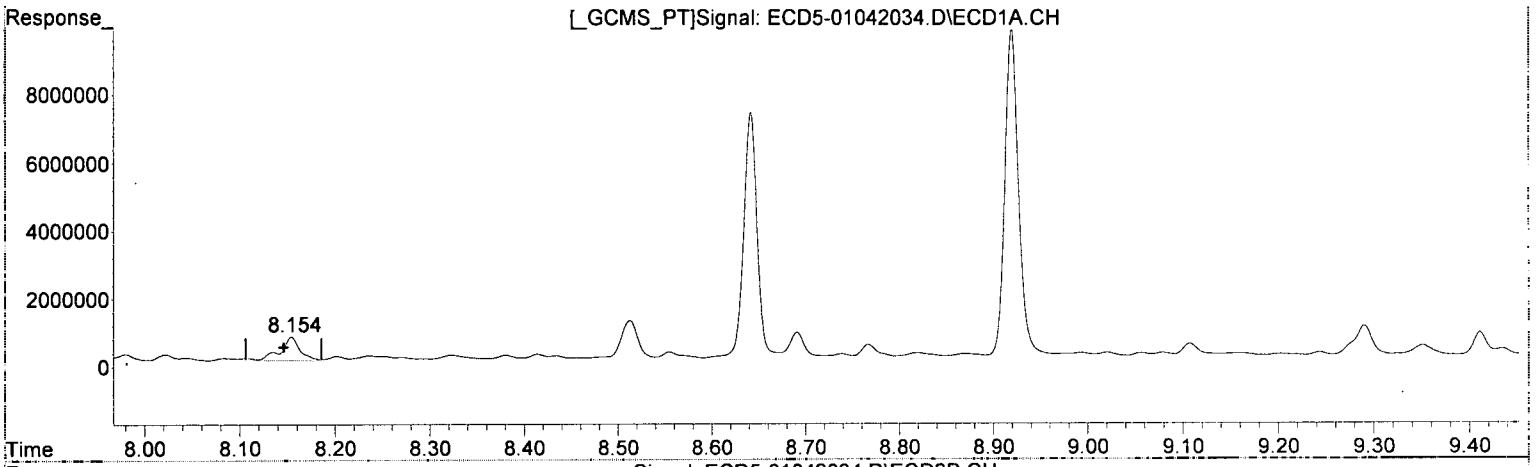
response 387716

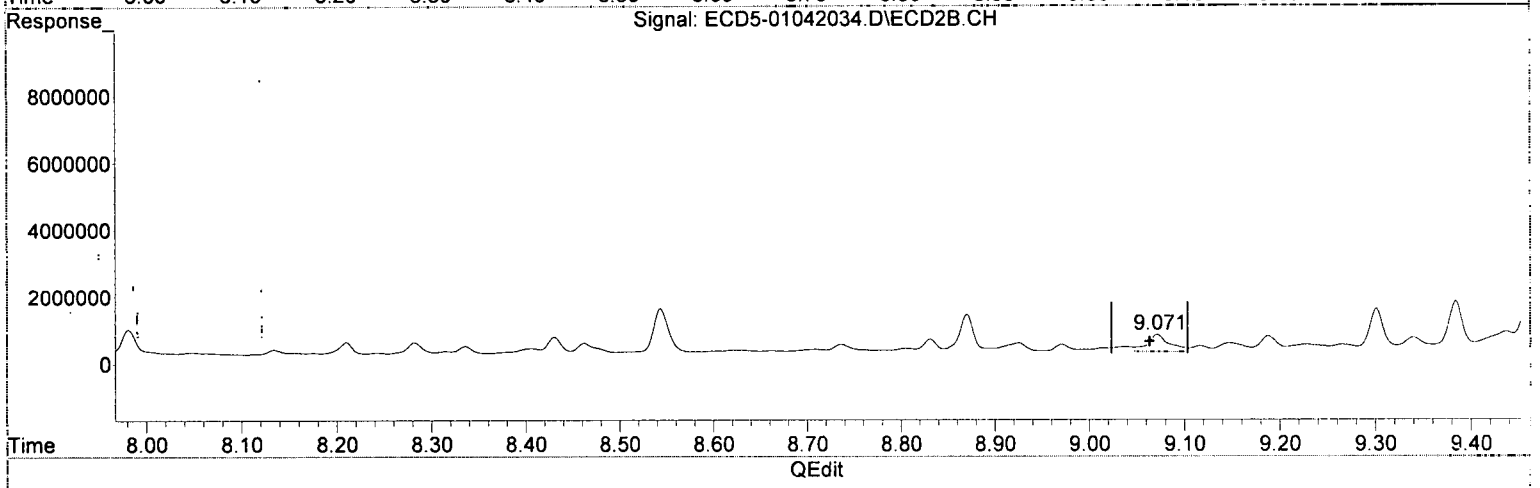
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:52
Operator : MJB
Sample : A9J0514-30RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:38 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(17) 4,4'-DDT

8.155min 7.494 ng/mL

response 699053

MJB 1/6/20

(17) 4,4'-DDT #2

9.072min 3.649 ng/mL R-32

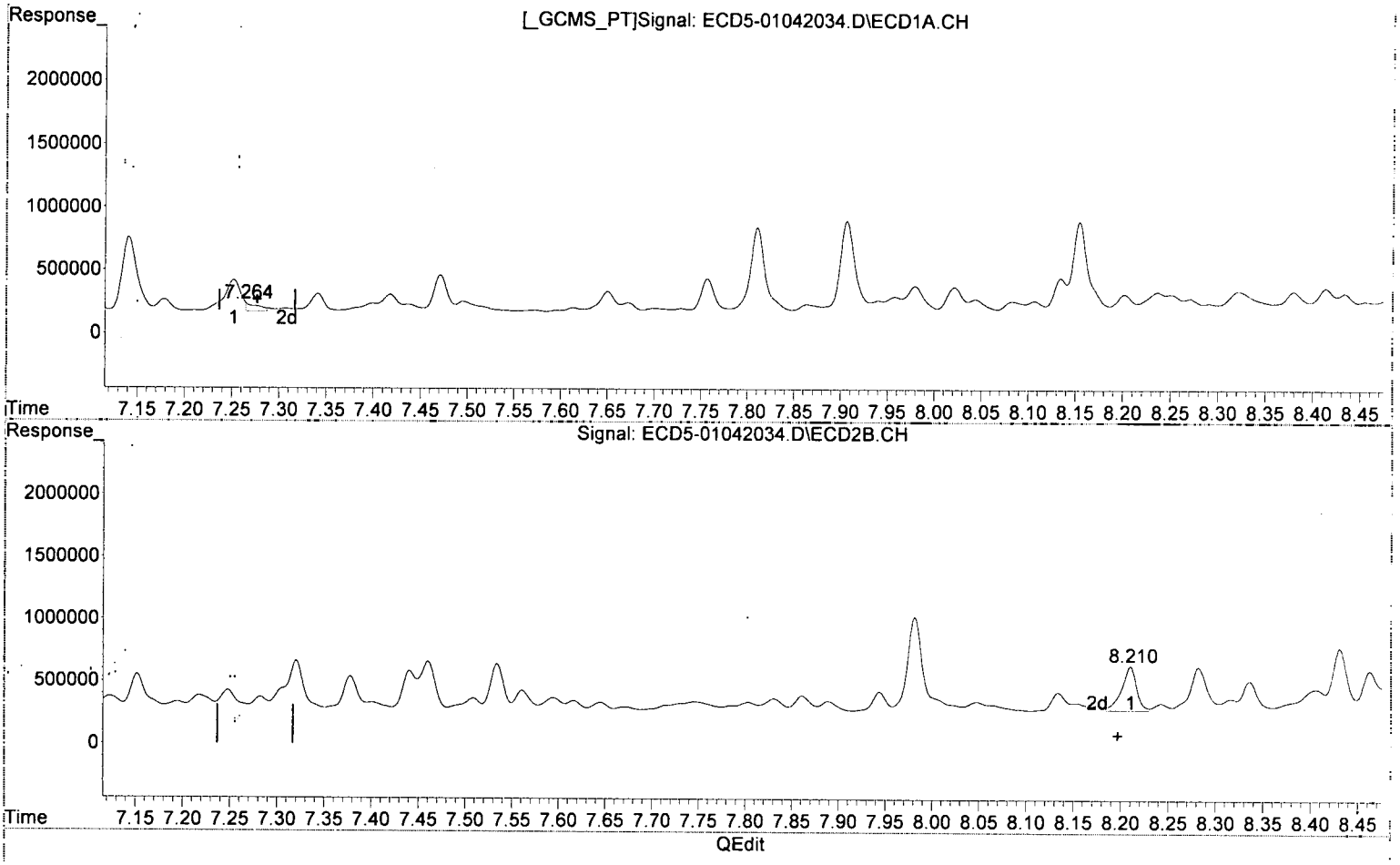
response 501138

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:52
Operator : MJB
Sample : A9J0514-30RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:38 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.264min 0.658 ng/mL (m)

response 70903

MJB 1/6/20

(26) 2,4'-DDE #2

8.210min 1.846 ng/mL P-01

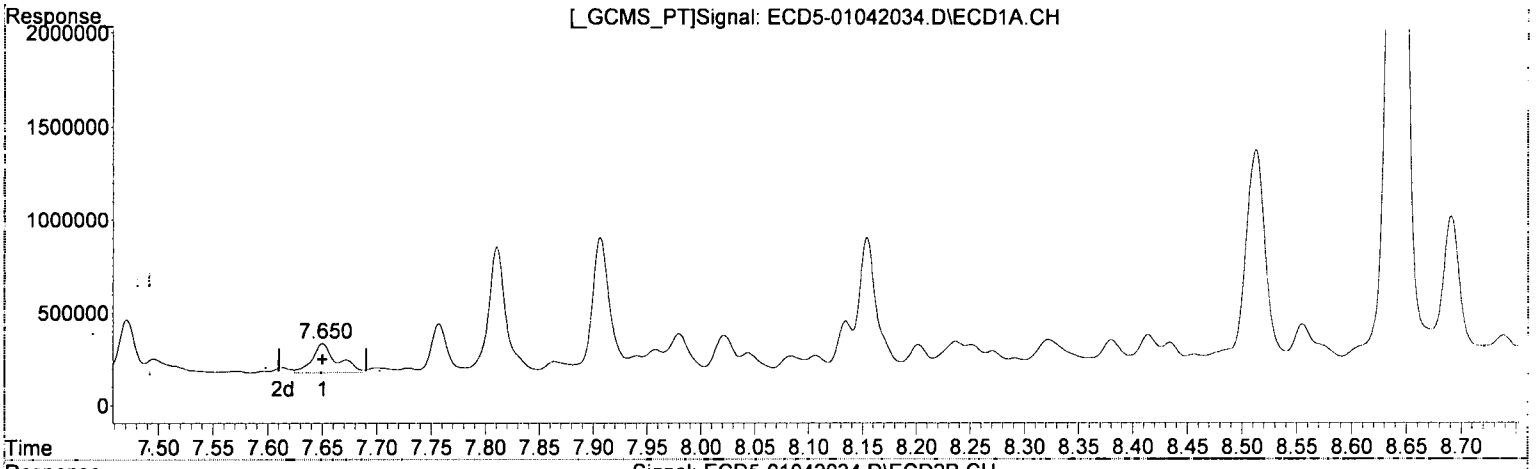
response 351134

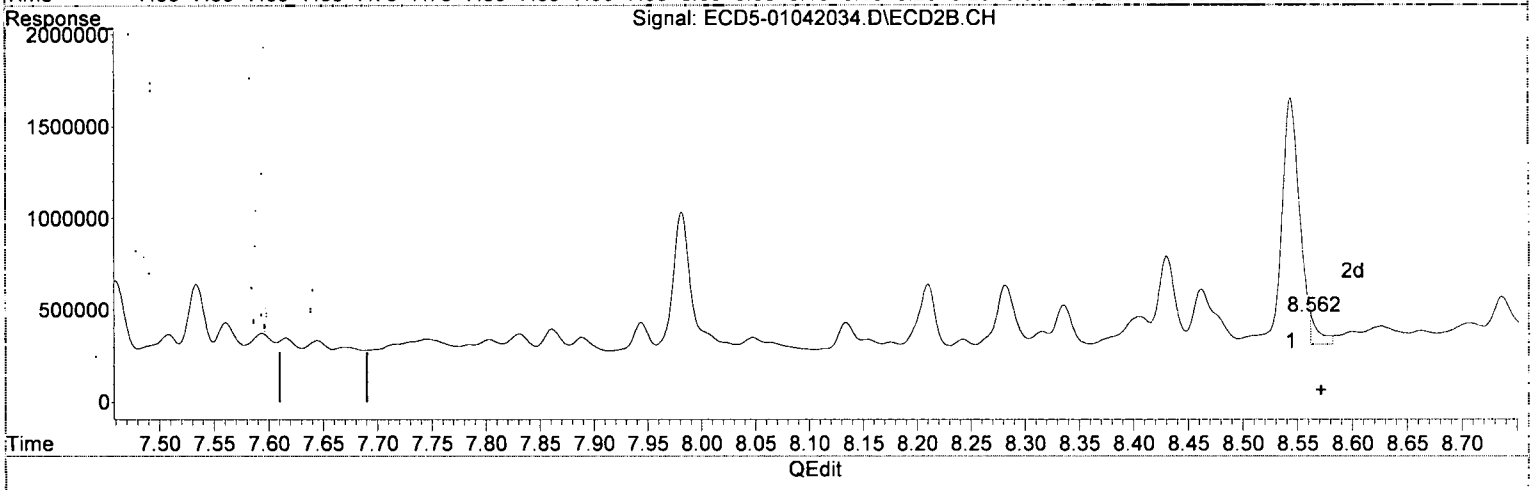
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:52
Operator : MJB
Sample : A9J0514-30RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:38 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(28) 2,4'-DDD

7.650min 1.596 ng/mL

response 156895

MJB 1/6/20

(28) 2,4'-DDD #2

8.562min 0.958 ng/mL (m)

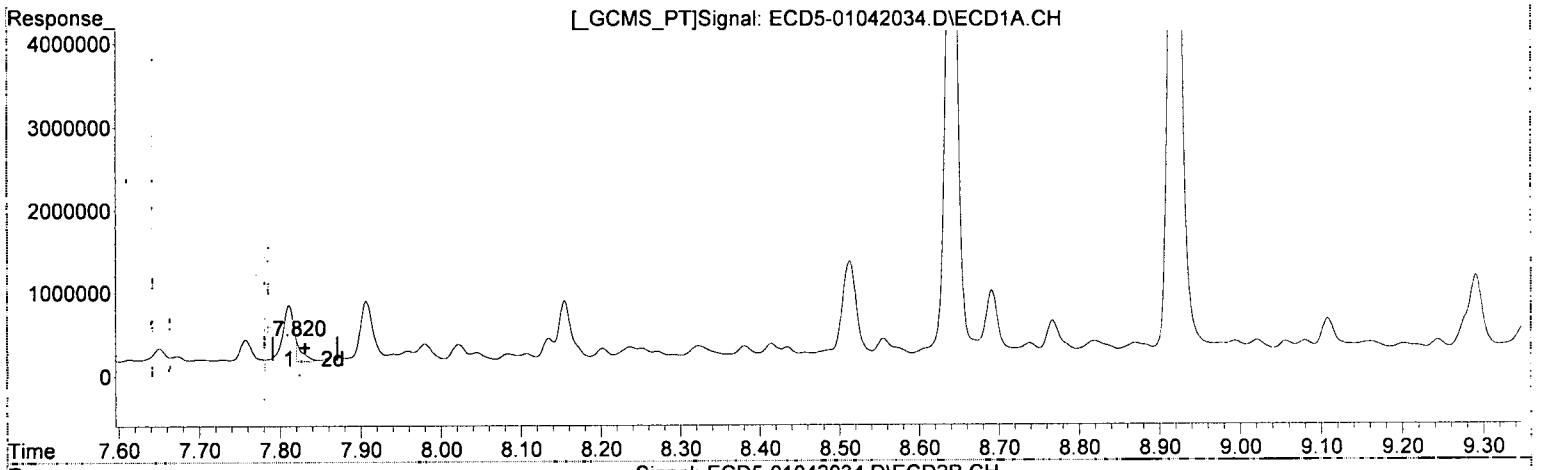
response 162438

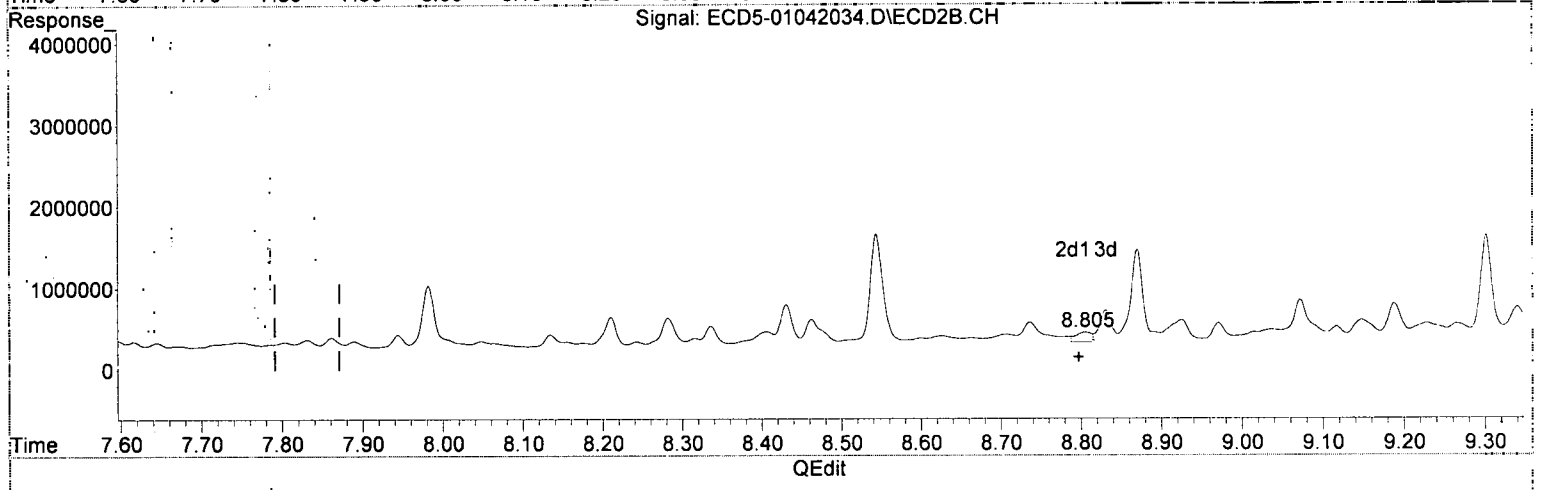
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:52
Operator : MJB
Sample : A9J0514-30RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:38 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(29) 2,4'-DDT

7.820min 2.727 ng/mL (m)

response 263842

MJB 1/6/20

(29) 2,4'-DDT #2

8.805min 0.847 ng/mL

response 123642

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:52
Operator : MJB
Sample : A9J0514-30RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:38 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MI MJB 1/6/20

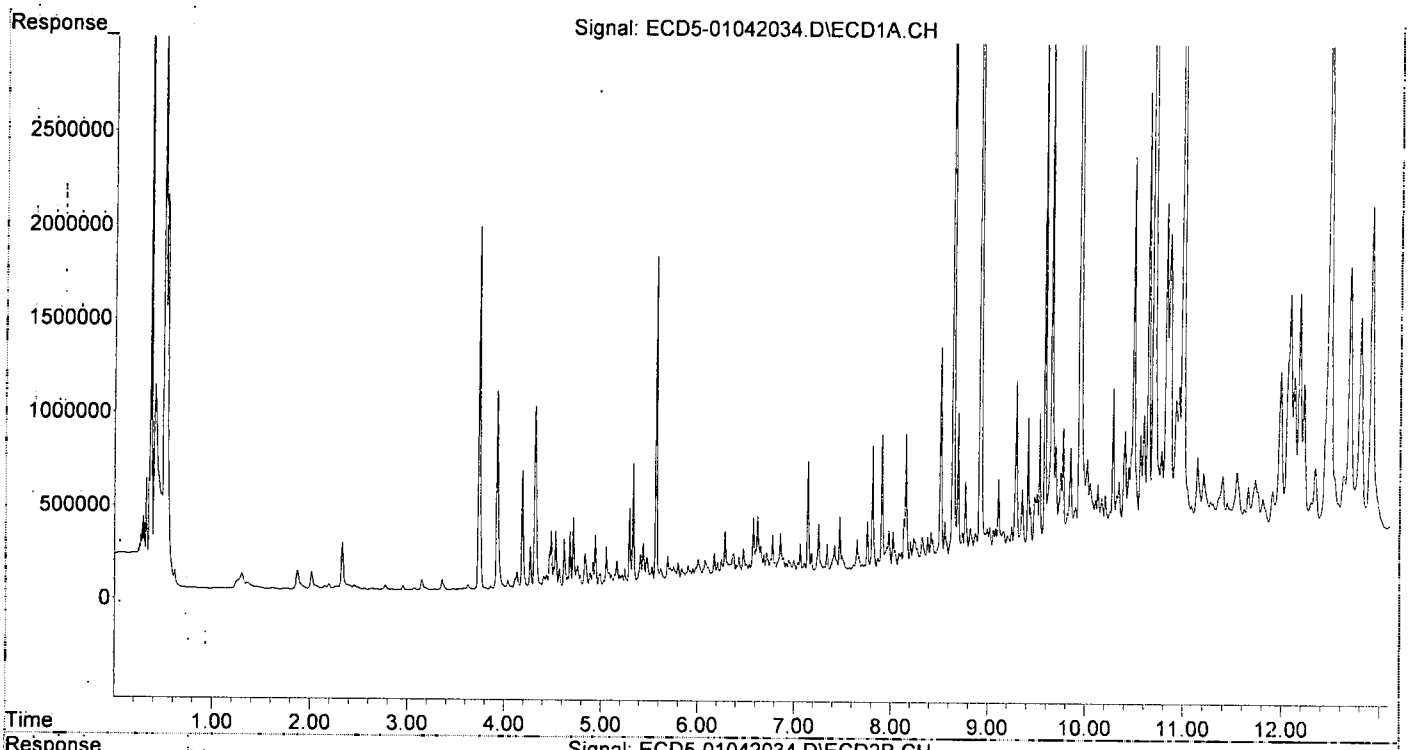
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.333	6.051	638732	1029885	3.581	3.469	
22)	S	DCBP (S)	9.531	10.646	750477	1551996	5.450	9.114	#
		Target Compounds							
2)		a-BHC	5.902f	6.651	73621	94048	0.307	0.236	
3)		g-BHC	6.173	6.998	128902	96424	0.634	0.285	#
4)		b-BHC	6.247	7.056	96197	301704	1.357	2.177	#
5)		Heptachlor	6.577	7.378	306864	296737	1.669	0.992	#
6)		d-BHC	6.374	7.320	124710	422988	0.871	1.462	#
7)		Aldrin	6.777f	7.616	211088	92179	1.112	0.297	#
8)		Heptachlo...	7.252	8.048	253889	69190	1.413	0.242	#
9)		trans-Chl...	7.341f	8.210	145177	351134	0.805	1.204	#
10)		cis-Chlor...	7.471	8.316	288038	84234	1.551	0.300	#
11)		Endosulfa...	7.572	8.336f	11024	227279	0.063	0.865	#
12)		4,4'-DDE	0.000	8.406	0	157436	N.D.	0.566	#
13)		Dieldrin	7.729	8.544f	20283	1344685	0.103	4.527	#
14)		Endrin	7.907	8.805	710845	123642	4.653	0.554	#
15)		4,4'-DDD	7.980f	8.831	192649	387716	1.438	1.728	
16)		Endosulfa...	8.044	8.925	87212	263368	0.571	1.112	#
17)		4,4'-DDT	8.155	9.072	699053	501138	7.494	3.649	#
18)		Endrin Al...	8.323f	9.188	145295	445405	1.215	2.269	#
19)		Endosulfa...	8.642	9.384	7251230	1473668	51.356	7.394	#
20)		Methoxychlor	8.513f	9.534	1151790	415640	23.053	5.754	#
21)		Endrin Ke...	8.819	9.765	172078	759576	0.852	3.444	#
23)		Hexachlor...	3.147	3.715f	55078	133303	0.175	0.368	#
24)		Hexachlor...	5.719	6.511	64355	150507	0.225	0.514	#
25)		Oxychlordane	7.179	7.981	100991	753731	0.520	2.979	#
26)		2,4'-DDE	7.252f	8.210	253889	351134	2.355	1.846	
27)		trans-Non...	7.471	8.282	288038	340886	1.602	1.208	
28)		2,4'-DDD	7.650	8.544f	156895	1344685	1.596	7.932	#
29)		2,4'-DDT	7.811	8.805	659561	123642	6.816	0.847	#
30)		cis-Nonac...	7.907	8.831	710845	387716	3.452	1.211	#
31)		Mirex	8.555f	9.765	217726	759576	1.598	4.642	#
32)		Chlordane...	7.418f	8.210	137547	351134	7.199	10.340	#
33)		Chlordane...	7.471	8.336	288038	227279	12.786	7.868	
34)		Chlordane...	8.022	8.971f	182761	223838	32.018	15.198	#
35)		Chlordane...	3.737	3.715	1938108	133303	NoCal	NoCal	
36)		Toxaphene...	7.471	8.544	288038	1344685	344.798	568.325	#
37)		Toxaphene...	7.757	8.925	254276	263368	155.931	88.921	#
38)		Toxaphene...	8.084	8.971	67200	223838	17.664	46.189	#
39)		Toxaphene...	8.323	9.038	145295	141663	39.955	11.864	#
40)		Toxaphene...	8.555	9.188	217726	445405	85.935	107.289	
41)		Toxaphene...	8.642f	9.593	7251230	1056497	2132.254	230.390	#
42)		Toxaphene...	3.737	3.715	1938108	133303	NoCal	NoCal	

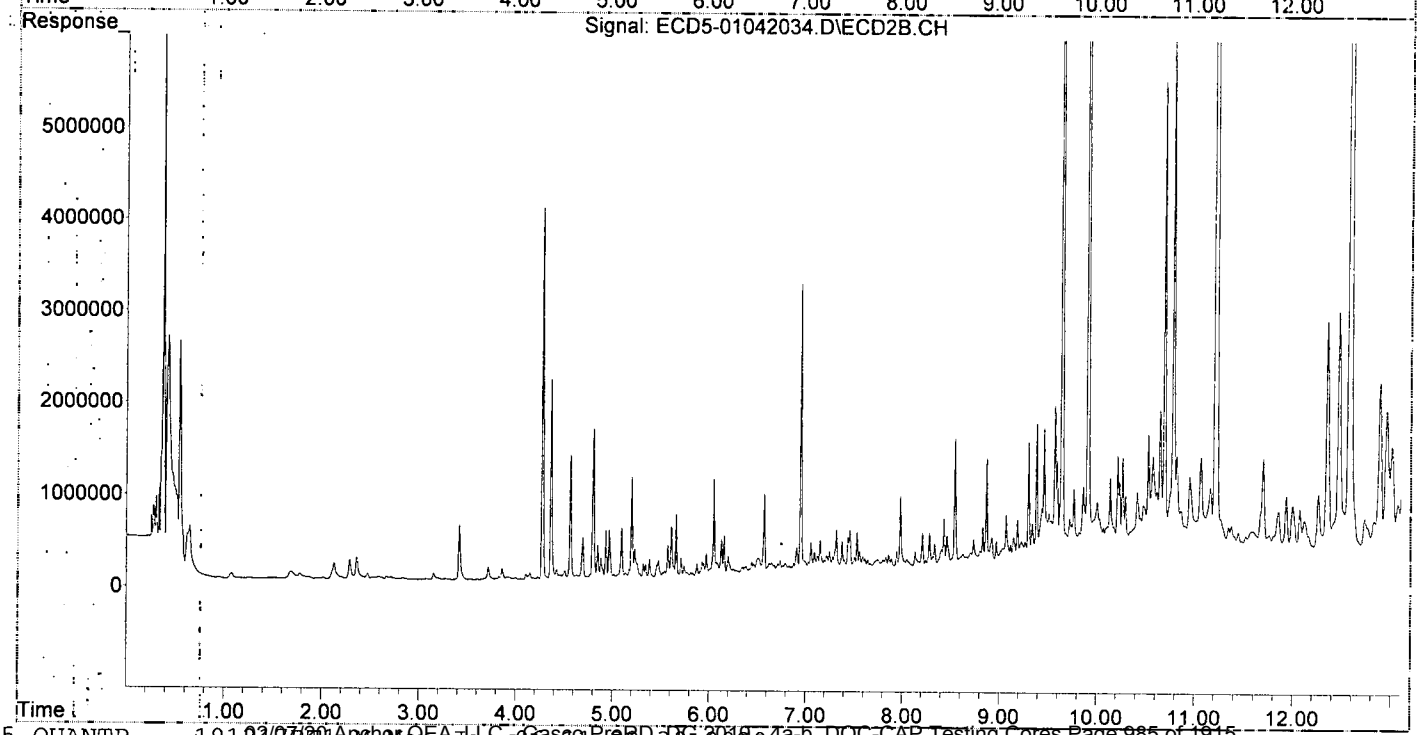
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 1:52
Operator : MJB
Sample : A9J0514-30RE1@5
Misc : : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:38 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 2:30
Operator : MJB
Sample : A9J0514-31RE1(5)
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 15:20:52 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

R-04

MJB 1/6/20

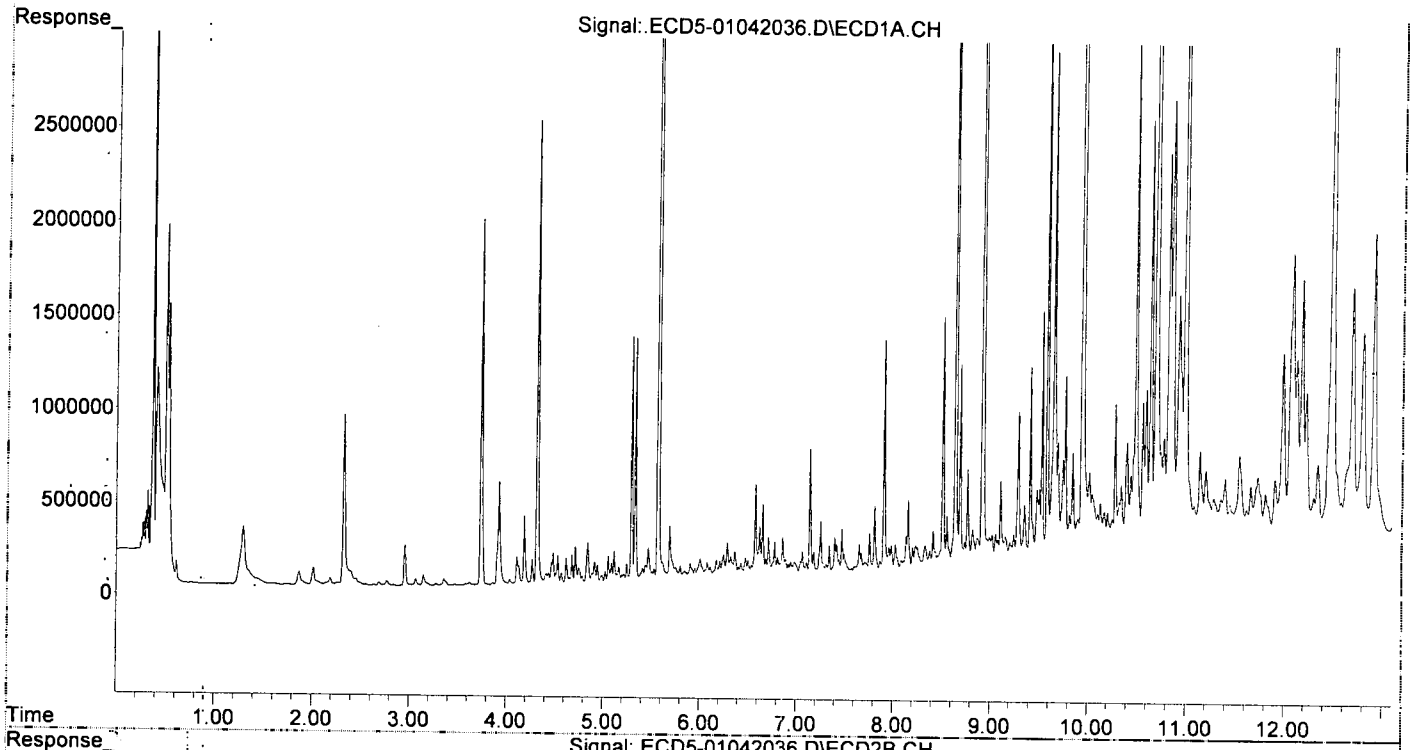
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.333	6.051	1280435	2182103	7.179	7.350	
22)	S DCBP (S)	9.531	10.644	1315636	2296369	9.703	13.486	S-04
	Target Compounds							
2)	a-BHC	5.903f	6.655	73295	73408	0.305	0.184	
3)	g-BHC	6.173	6.951f	86667	22986826	0.426	67.884	#
4)	b-BHC	6.245	7.056	113500	275761	1.601	1.990	
5)	Heptachlor	6.578	7.378	480549	210810	2.614	0.705	#
6)	d-BHC	6.401	7.320	43822	372228	0.284	1.282	#
7)	Aldrin	6.806	7.616	84917	80210	0.447	0.259	#
8)	Heptachlo...	7.251	8.079	269310	26815	1.499	0.094	#
9)	trans-Chl...	7.341f	8.210	138017	330460	0.766	1.133	#
10)	cis-Chlor...	7.471	8.334f	225242	495150	1.172	1.764	#
11)	Endosulfa...	7.571	8.334f	9756	495150	0.056	1.884	#
12)	4,4'-DDE	7.495f	8.424	91444	272175	0.595	1.018m	# P-01
13)	Dieldrin	7.711f	8.543f	38304	2279732	0.195	7.675	#
14)	Endrin	7.906	8.804	1223923	100227	8.011	0.437	#
15)	4,4'-DDD	7.956	8.831	109487	162964	0.742	0.635	
16)	Endosulfa...	8.024f	8.922f	123430	196736	0.808	0.831	
17)	4,4'-DDT	8.155	9.071	354368	317114	3.827	2.397	R-02
18)	Endrin Al...	8.331	9.187	104655	259993	0.875	1.324	#
19)	Endosulfa...	8.642	9.384	6252773	1799044	44.472	9.062	#
20)	Methoxychlor	8.514f	9.530	1323635	309022	26.307	4.327	#
21)	Endrin Ke...	8.820	9.765	171689	901797	0.849	4.122	#
23)	Hexachlor...	3.146	3.715f	56593	91837	0.184	0.254	
24)	Hexachlor...	5.690f	6.523	278507	105697	1.613	0.361	#
25)	Oxychlordane	7.179	7.980	106940	830754	0.563	3.284	#
26)	2,4'-DDE	7.267	8.210	51318	330460	0.476m	1.738	# P-01
27)	trans-Non...	7.471	8.282	225242	296340	1.253	1.050	
28)	2,4'-DDD	7.650	8.562	134187	193863	1.365	1.143m	MDL-MRL
29)	2,4'-DDT	7.821	8.804	103357	100227	1.068m	0.669	
30)	cis-Nonac...	7.906	8.831	1223923	162964	5.944	0.509	#
31)	Mirex	8.555f	9.765	254803	901797	1.913	5.574	#
32)	Chlordane...	7.398	8.210	176633	330460	9.245	9.731	
33)	Chlordane...	7.471	8.334	225242	495150	9.998	17.141	#
34)	Chlordane...	8.024	8.999	123430	76211	21.624	BelowCal	#
35)	Chlordane...	3.737	3.715	1957174	91837	NoCal	NoCal	
36)	Toxaphene...	7.471	8.543	225242	2279732	269.351	963.518	#
37)	Toxaphene...	7.758	8.922	190667	196736	115.955	66.424	#
38)	Toxaphene...	8.085	8.970	32446	139669	6.931	28.821	#
39)	Toxaphene...	8.331	9.028	104655	125006	27.000	9.452	#
40)	Toxaphene...	8.555	9.187	254803	259993	100.569	61.482	
41)	Toxaphene...	8.642f	9.594	6252773	1156882	1838.654	252.281	#
42)	Toxaphene...	3.737	3.715	1957174	91837	NoCal	NoCal	

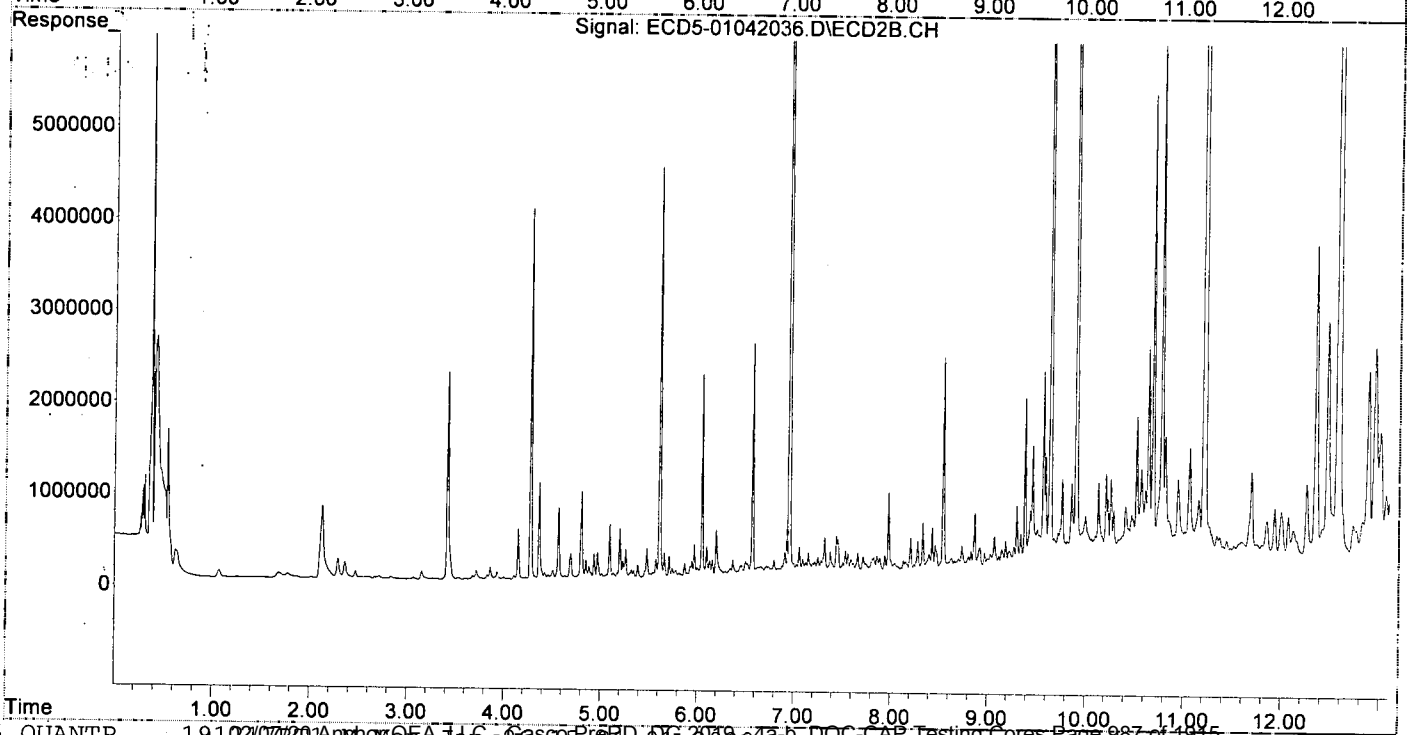
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 2:30
Operator : MJB
Sample : A9J0514-31RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 15:20:52 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

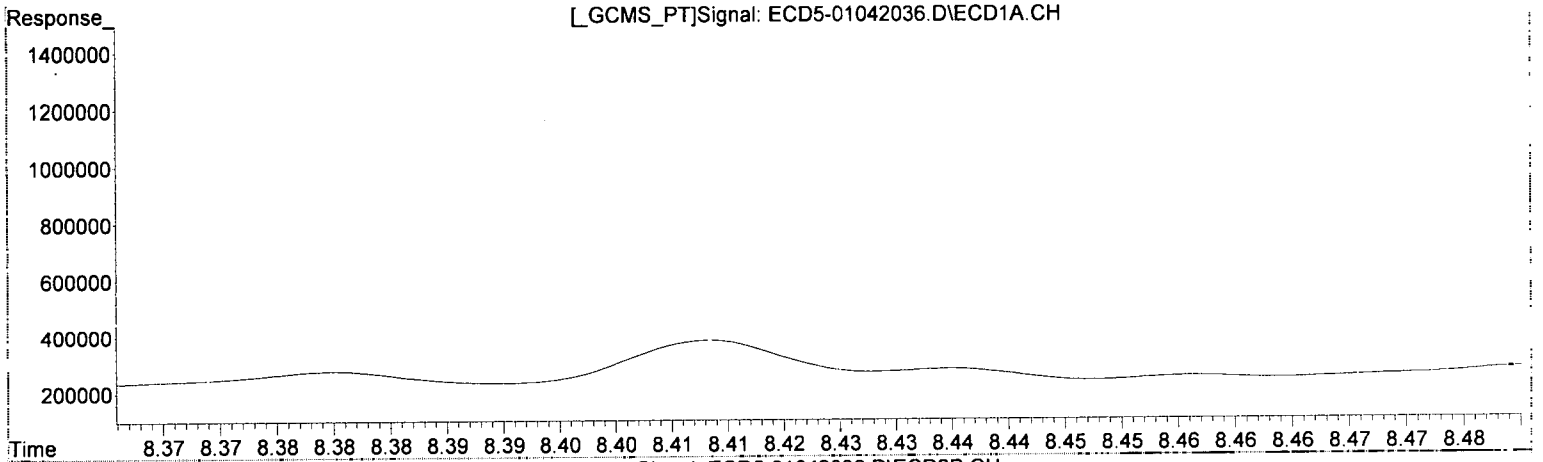


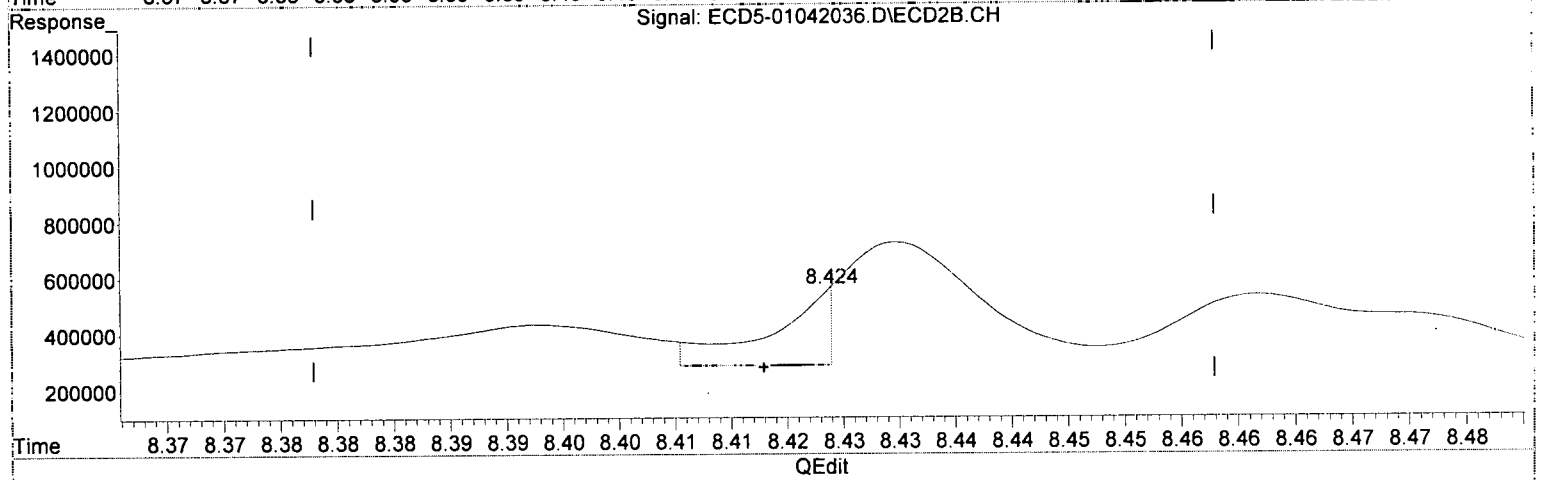


Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 2:30
Operator : MJB
Sample : A9J0514-31RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:44 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(12) 4,4'-DDE

7.495min 0.595 ng/mL

response 91444

MJB 1/6/20

(12) 4,4'-DDE #2

8.424min 1.018 ng/mL m P-01

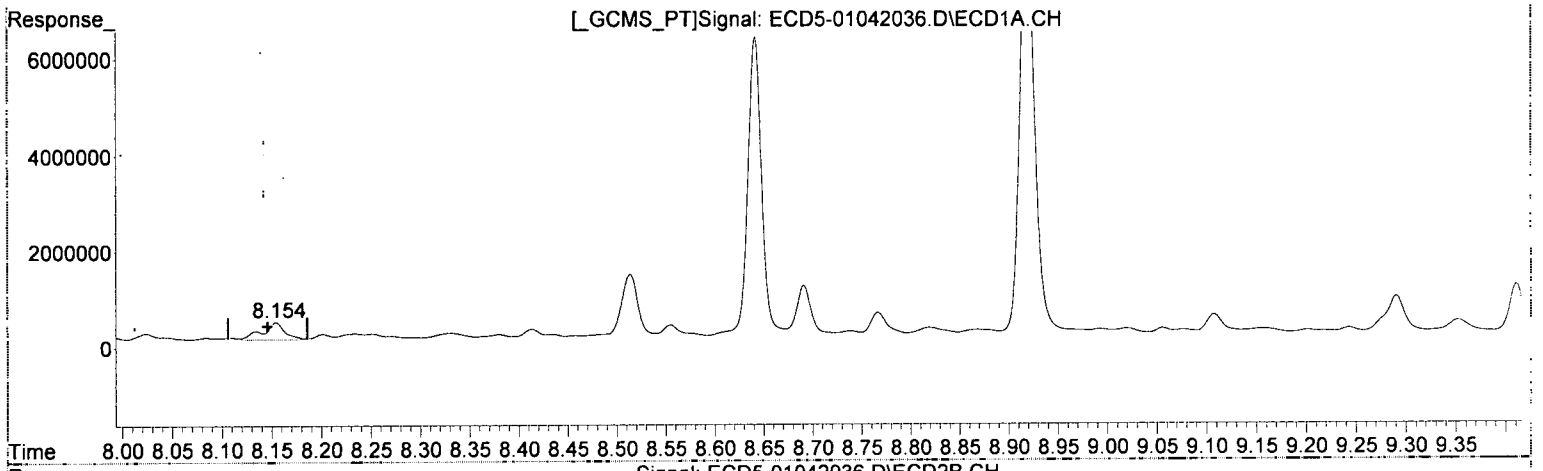
response 272175

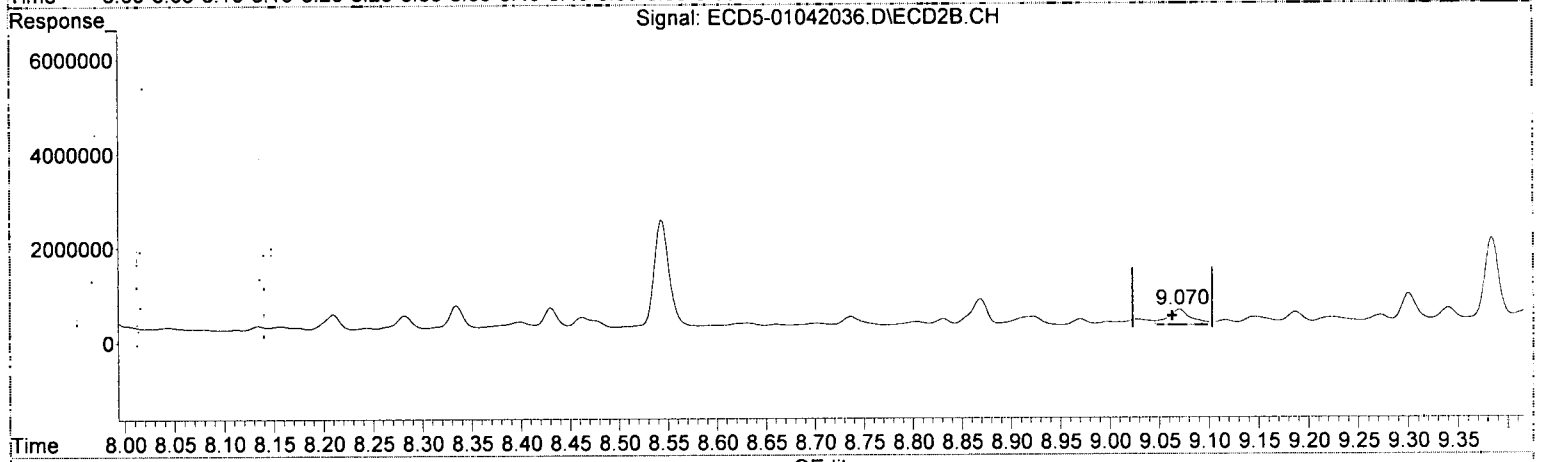
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 2:30
Operator : MJB
Sample : A9J0514-31RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:44 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(17) 4,4'-DDT

8.155min 3.827 ng/mL

response 354368

MB 1/6/20

(17) 4,4'-DDT #2

9.071min 2.397 ng/mL R-02

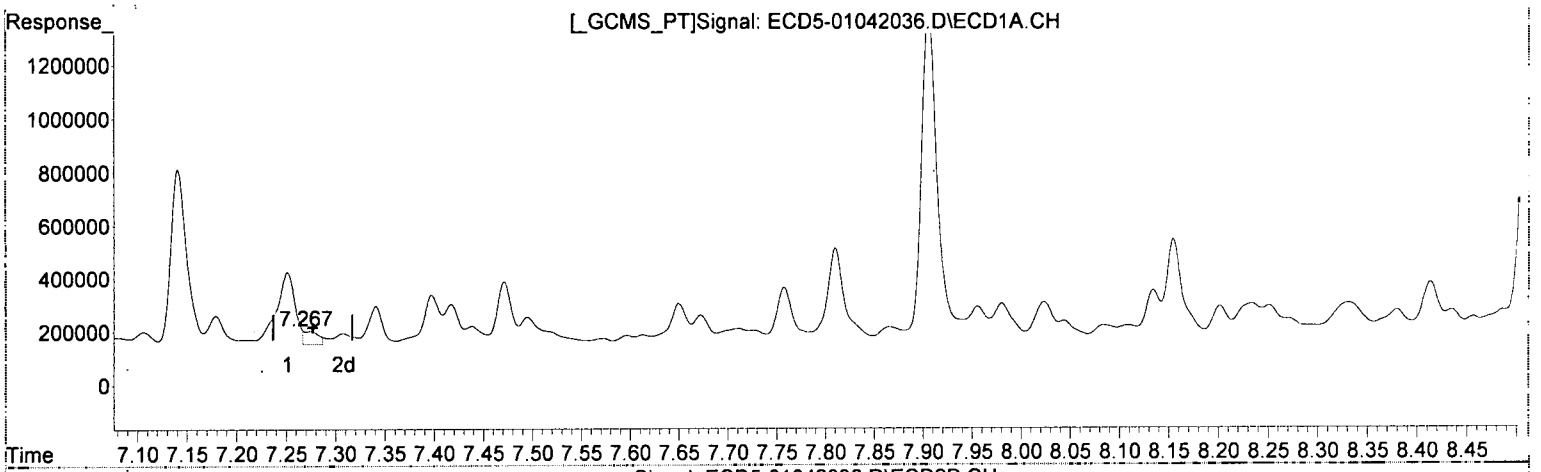
response 317114

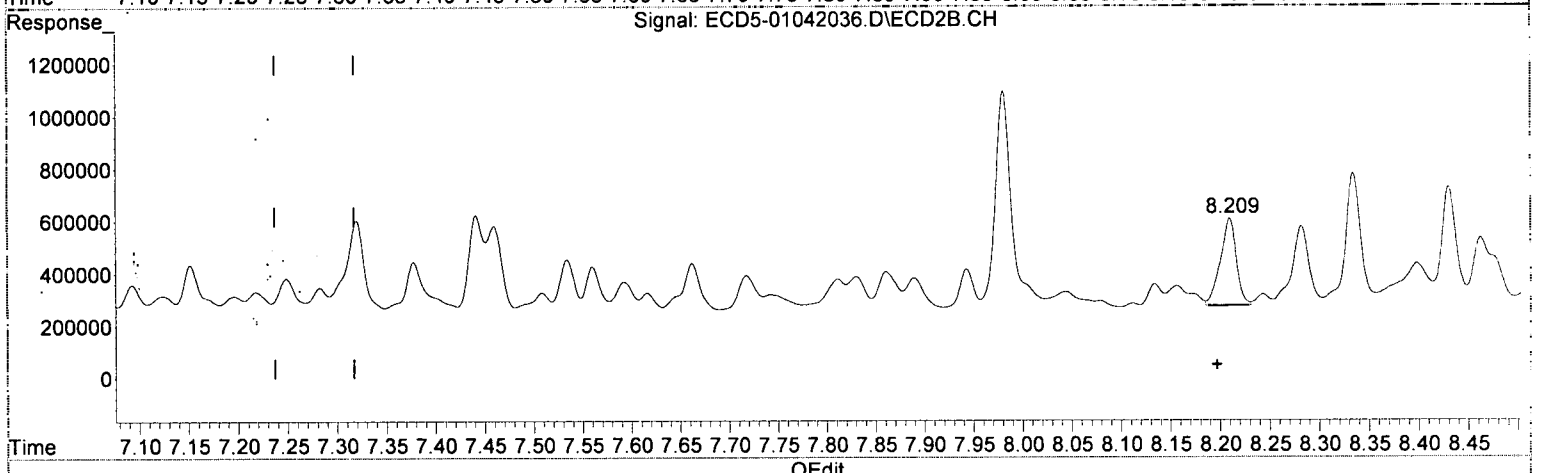
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 2:30
Operator : MJB
Sample : A9J0514-31RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:44 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(26) 2,4'-DDE

7.267min 0.476 ng/mL (m)

response 51318

MJB 1/6/20

(26) 2,4'-DDE #2

8.210min 1.738 ng/mL P-01

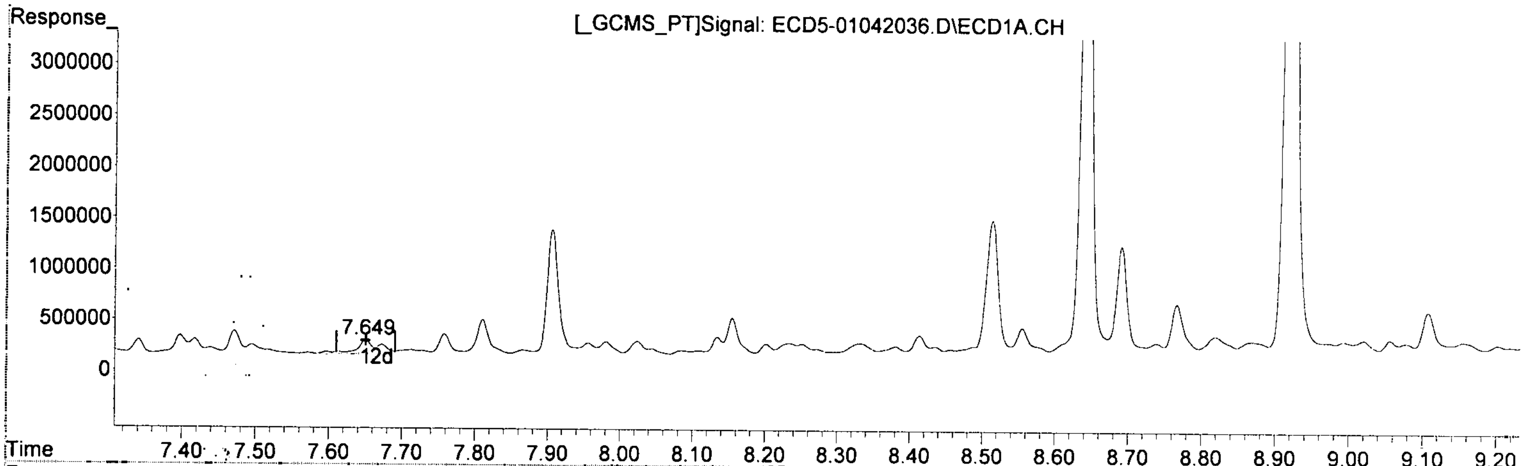
response 330460

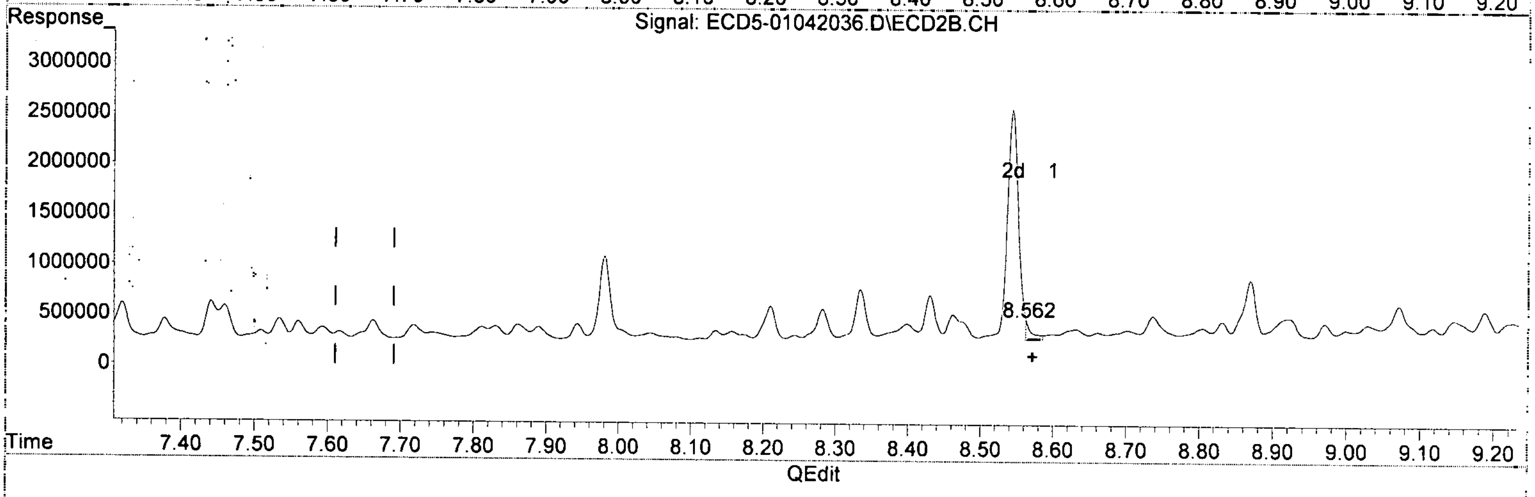
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 2:30
Operator : MJB
Sample : A9J0514-31RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:44 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(28) 2,4'-DDD

7.650min 1.365 ng/mL

response 134187

MJB 1/6/20

(28) 2,4'-DDD #2

8.562min 1.143 ng/mL(m) MDL<MRL

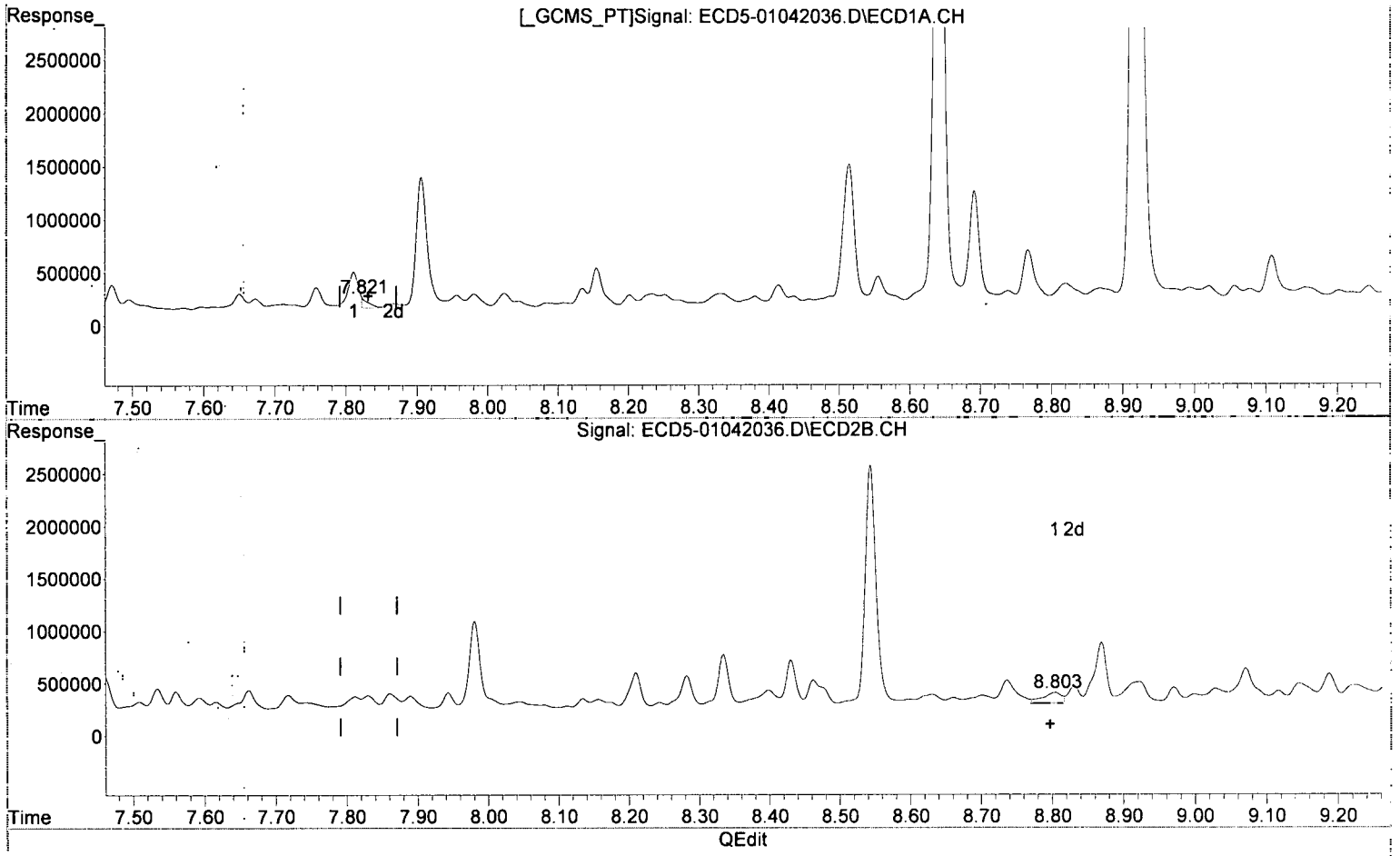
response 193863

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 2:30
Operator : MJB
Sample : A9J0514-31RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:44 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.821min 1.068 ng/mL (+)

response 103357

MJB 1/6/20

(29) 2,4'-DDT #2

8.804min 0.669 ng/mL

response 100227

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 2:30
Operator : MJB
Sample : A9J0514-31RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:44 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MI MJB 1/6/20

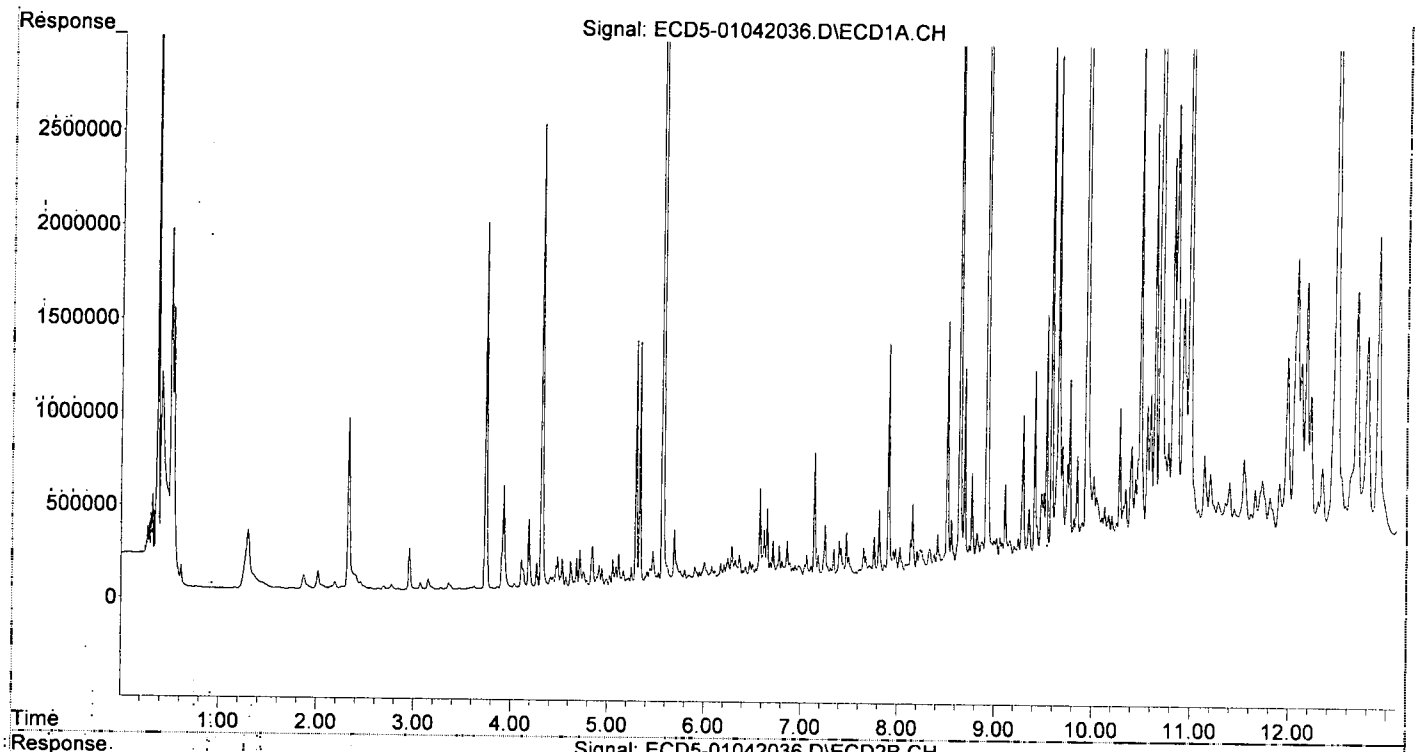
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.333	6.051	1280435	2182103	7.179	7.350	
22)	S	DCBP (S)	9.531	10.644	1315636	2296369	9.703	13.486	
		Target Compounds							
2)		a-BHC	5.903f	6.655	73295	73408	0.305	0.184	
3)		g-BHC	6.173	6.951f	86667	2986826	0.426	67.884	#
4)		b-BHC	6.245	7.056	113500	275761	1.601	1.990	
5)		Heptachlor	6.578	7.378	480549	210810	2.614	0.705	#
6)		d-BHC	6.401	7.320	43822	372228	0.284	1.282	#
7)		Aldrin	6.806	7.616	84917	80210	0.447	0.259	#
8)		Heptachlo...	7.251	8.079	269310	26815	1.499	0.094	#
9)		trans-Chl...	7.341f	8.210	138017	330460	0.766	1.133	#
10)		cis-Chlor...	7.471	8.334f	225242	495150	1.172	1.764	#
11)		Endosulfa...	7.571	8.334f	9756	495150	0.056	1.884	#
12)		4,4'-DDE	7.495f	8.430	91444	436544	0.595	1.664	#
13)		Dieldrin	7.711f	8.543f	38304	2279732	0.195	7.675	#
14)		Endrin	7.906	8.804	1223923	100227	8.011	0.437	#
15)		4,4'-DDD	7.956	8.831	109487	162964	0.742	0.635	
16)		Endosulfa...	8.024f	8.922f	123430	196736	0.808	0.831	
17)		4,4'-DDT	8.155	9.071	354368	317114	3.827	2.397	
18)		Endrin Al...	8.331	9.187	104655	259993	0.875	1.324	#
19)		Endosulfa...	8.642	9.384	6252773	1799044	44.472	9.062	#
20)		Methoxychlor	8.514f	9.530	1323635	309022	26.307	4.327	#
21)		Endrin Ke...	8.820	9.765	171689	901797	0.849	4.122	#
23)		Hexachlor...	3.146	3.715f	56593	91837	0.184	0.254	
24)		Hexachlor...	5.690f	6.523	278507	105697	1.613	0.361	#
25)		Oxychlordane	7.179	7.980	106940	830754	0.563	3.284	#
26)		2,4'-DDE	7.251f	8.210	269310	330460	2.498	1.738	
27)		trans-Non...	7.471	8.282	225242	296340	1.253	1.050	
28)		2,4'-DDD	7.650	8.599f	134187	49154	1.365	0.290	#
29)		2,4'-DDT	7.810f	8.804	333986	100227	3.452	0.669	#
30)		cis-Nonac...	7.906	8.831	1223923	162964	5.944	0.509	#
31)		Mirex	8.555f	9.765	254803	901797	1.913	5.574	#
32)		Chlordane...	7.398	8.210	176633	330460	9.245	9.731	
33)		Chlordane...	7.471	8.334	225242	495150	9.998	17.141	#
34)		Chlordane...	8.024	8.999	123430	76211	21.624	BelowCal	#
35)		Chlordane...	3.737	3.715	1957174	91837	NoCal	NoCal	
36)		Toxaphene...	7.471	8.543	225242	2279732	269.351	963.518	#
37)		Toxaphene...	7.758	8.922	190667	196736	115.955	66.424	#
38)		Toxaphene...	8.085	8.970	32446	139669	6.931	28.821	#
39)		Toxaphene...	8.331	9.028	104655	125006	27.000	9.452	#
40)		Toxaphene...	8.555	9.187	254803	259993	100.569	61.482	
41)		Toxaphene...	8.642f	9.594	6252773	1156882	1838.654	252.281	#
42)		Toxaphene...	3.737	3.715	1957174	91837	NoCal	NoCal	

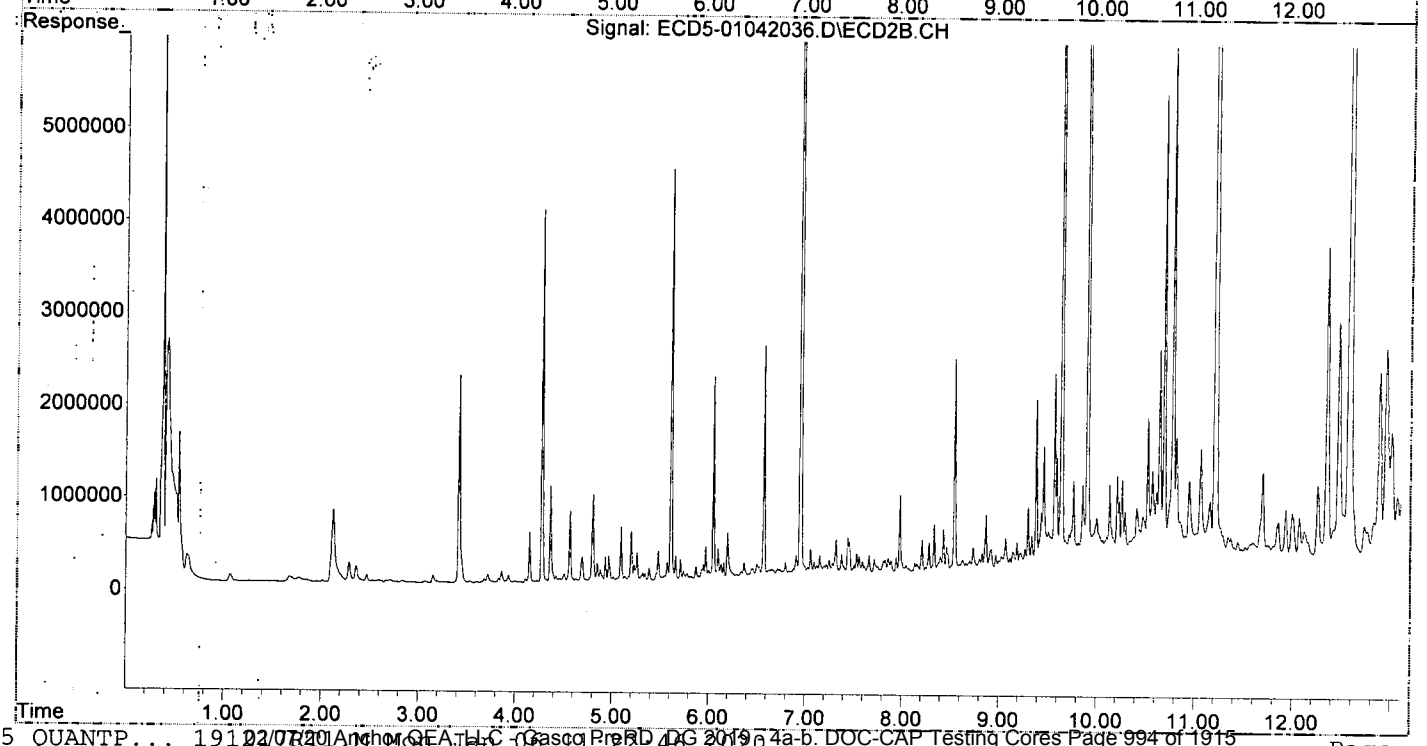
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 2:30
Operator : MJB
Sample : A9J0514-31RE1@5
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:44 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:07
Operator : MJB
Sample : A9J0514-37RE1(2)
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 15:25:47 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.334	6.052	3158937	5539713	17.710	18.661	
22)	S	DCBP (S)	9.531	10.643	3159258	5108008	23.494	29.998	
		Target Compounds							
2)		a-BHC	5.863	6.660	42887	196688	0.179	0.494	#
3)		g-BHC	6.170	6.952f	108092	54730873	0.532	161.629	#
4)		b-BHC	6.248	7.061	122909	761801	1.733	5.497	#
5)		Heptachlor	6.578	7.380f	1070031	255257	5.820	0.853	#
6)		d-BHC	6.401	7.319	82632	291834	0.566	0.996	#
7)		Aldrin	6.808	7.615	917855	200097	4.834	0.645	#
8)		Heptachlo...	7.271	8.035f	557913	431122	3.105	1.505	#
9)		trans-Chl...	7.340f	8.209	181806	477763	1.008	1.638	#
10)		cis-Chlor...	7.472	8.335f	399703	523268	2.224	1.864	
11)		Endosulfa...	7.576	8.335f	850115	523268	4.837	1.991	#
12)		4,4'-DDE	7.518	8.426	411828	2129554	2.681	8.235	#
13)		Dieldrin	7.712	8.566	135488	1227563	0.690	4.133	#
14)		Endrin	7.906	8.801	1428060	196111	9.347	0.916	#
15)		4,4'-DDD	7.940	8.830	1566834	2563359	12.727	12.086	
16)		Endosulfa...	8.027f	8.970f	261074	12278562	1.709	51.863	#
17)		4,4'-DDT	8.155	9.070	333341	469105	3.601	3.432	
18)		Endrin Al...	8.318f	9.186	183090	326084	1.532	1.661	
19)		Endosulfa...	8.641	9.384	5904908	1605631	42.057	8.072	#
20)		Methoxychlor	8.513f	9.533	1252558	380357	24.966	5.283	#
21)		Endrin Ke...	8.820	9.764	179295	762674	0.897	3.458	#
23)		Hexachlor...	3.146	3.716f	119247	252975	0.576	0.698	
24)		Hexachlor...	5.720	6.527	191871	179259	1.052	0.612	#
25)		Oxychlordane	7.179	7.981	273297	995169	1.737	3.934	#
26)		2,4'-DDE	7.271	8.191	557913	632438	5.174	3.325	
27)		trans-Non...	7.472	8.281	399703	360672	2.224	1.278	#
28)		2,4'-DDD	7.640	8.566	722225	1227563	7.345m	7.241	
29)		2,4'-DDT	7.820	8.801	150402	196111	1.554m	1.396	
30)		cis-Nonac...	7.940	8.830	1566834	2563359	7.609	8.005	
31)		Mirex	8.555f	9.764	250200	762674	1.874	4.662	#
32)		Chlordane...	7.397	8.209	475422	477763	24.882	14.068	#
33)		Chlordane...	7.472	8.335	399703	523268	17.742	18.114	
34)		Chlordane...	8.027	8.970f	261074	12278562	45.738	1423.538	#
35)		Chlordane...	3.737	3.716	3826251	252975	NoCal	NoCal	
36)		Toxaphene...	7.472	8.566	399703	1227563	478.444	518.824	
37)		Toxaphene...	7.757	8.916	237547	452375	145.413	152.735	
38)		Toxaphene...	8.082	8.970	76447	12278562	20.518	2533.706	#
39)		Toxaphene...	8.318	9.036	183090	199667	51.987	20.251	#
40)		Toxaphene...	8.555	9.186	250200	326084	98.753	77.850	
41)		Toxaphene...	8.641f	9.594	5904908	870051	1736.363	189.732	#
42)		Toxaphene...	3.737	3.716	3826251	252975	NoCal	NoCal	

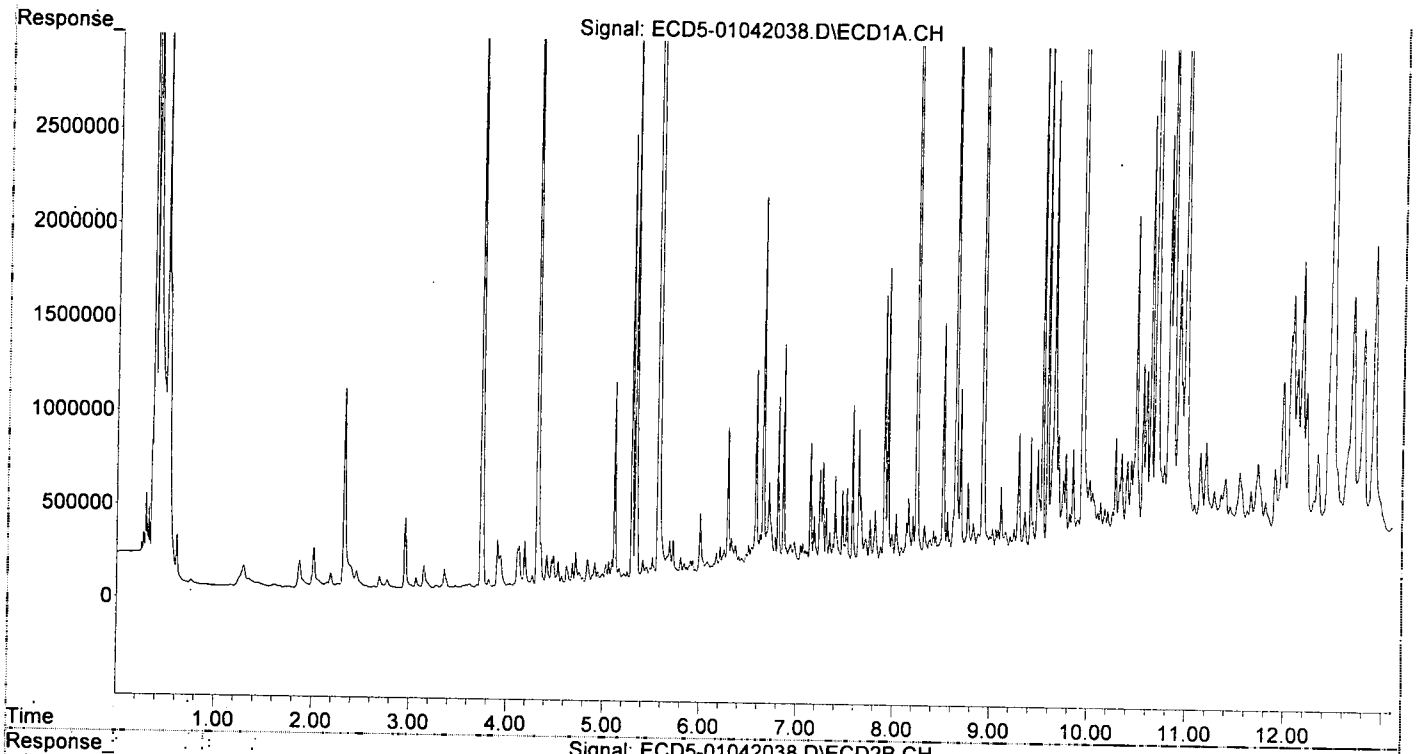
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

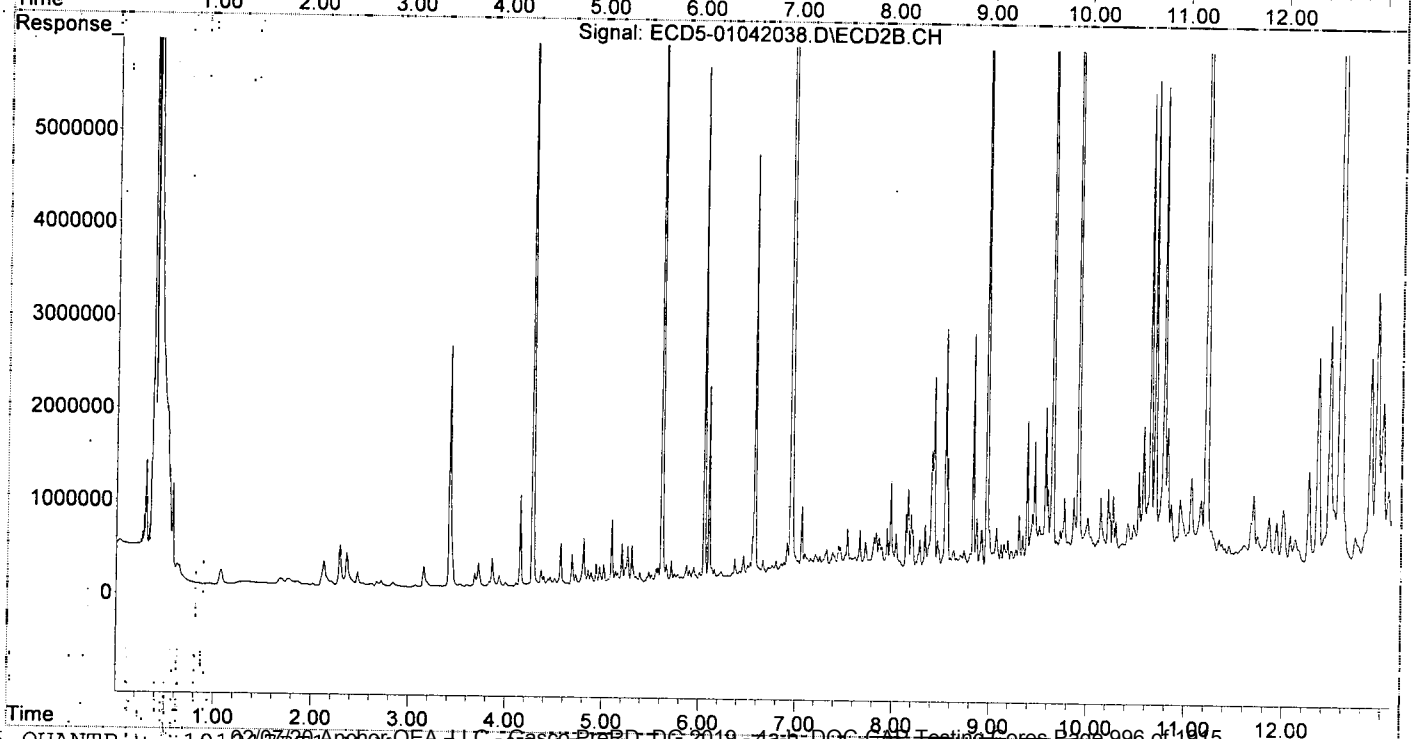
R-02
P-01
R-02
R-02
MDL=MRL

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:07
Operator : MJB
Sample : A9J0514-37RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 15:25:47 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

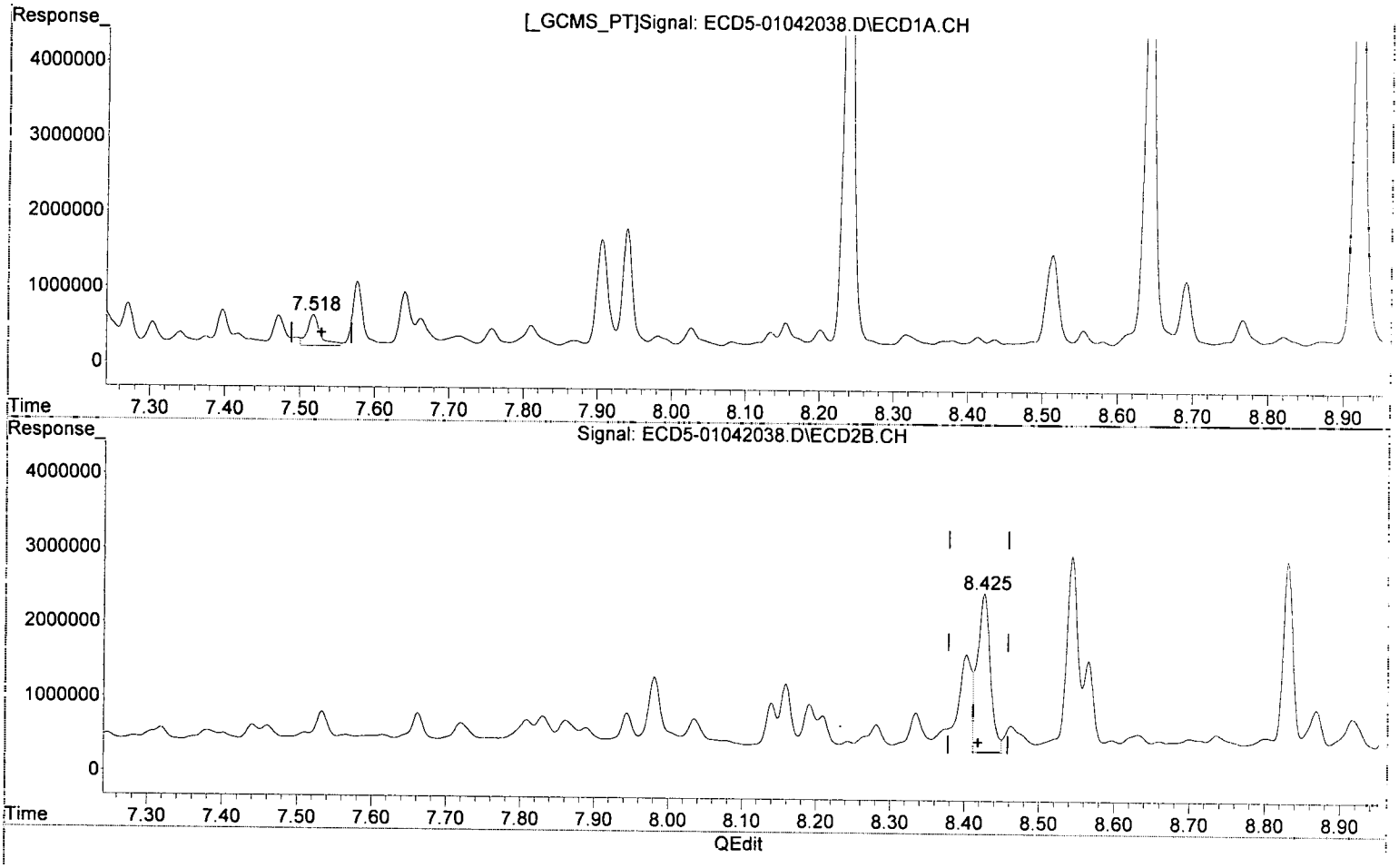




Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:07
Operator : MJB
Sample : A9J0514-37RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:51 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.518min 2.681 ng/mL R-02

response 411828

MJB 1/6/20

(12) 4,4'-DDE #2

8.426min 8.235 ng/mL R-11

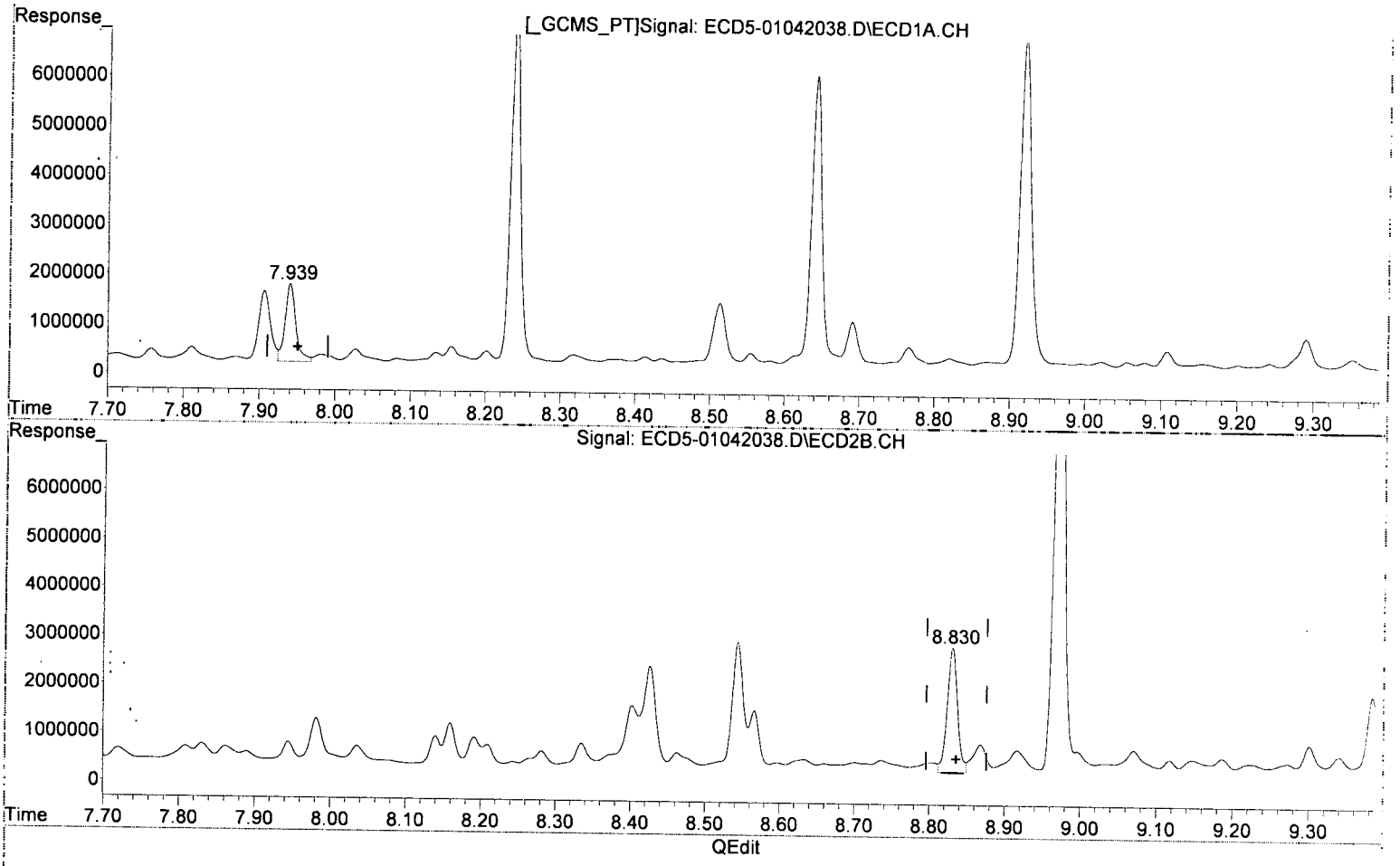
response 2129554

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:07
Operator : MJB
Sample : A9J0514-37RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:51 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.940min 12.727 ng/mL

response 1566834

MJB 1/6/20

(15) 4,4'-DDD #2

8.830min 12.086 ng/mL

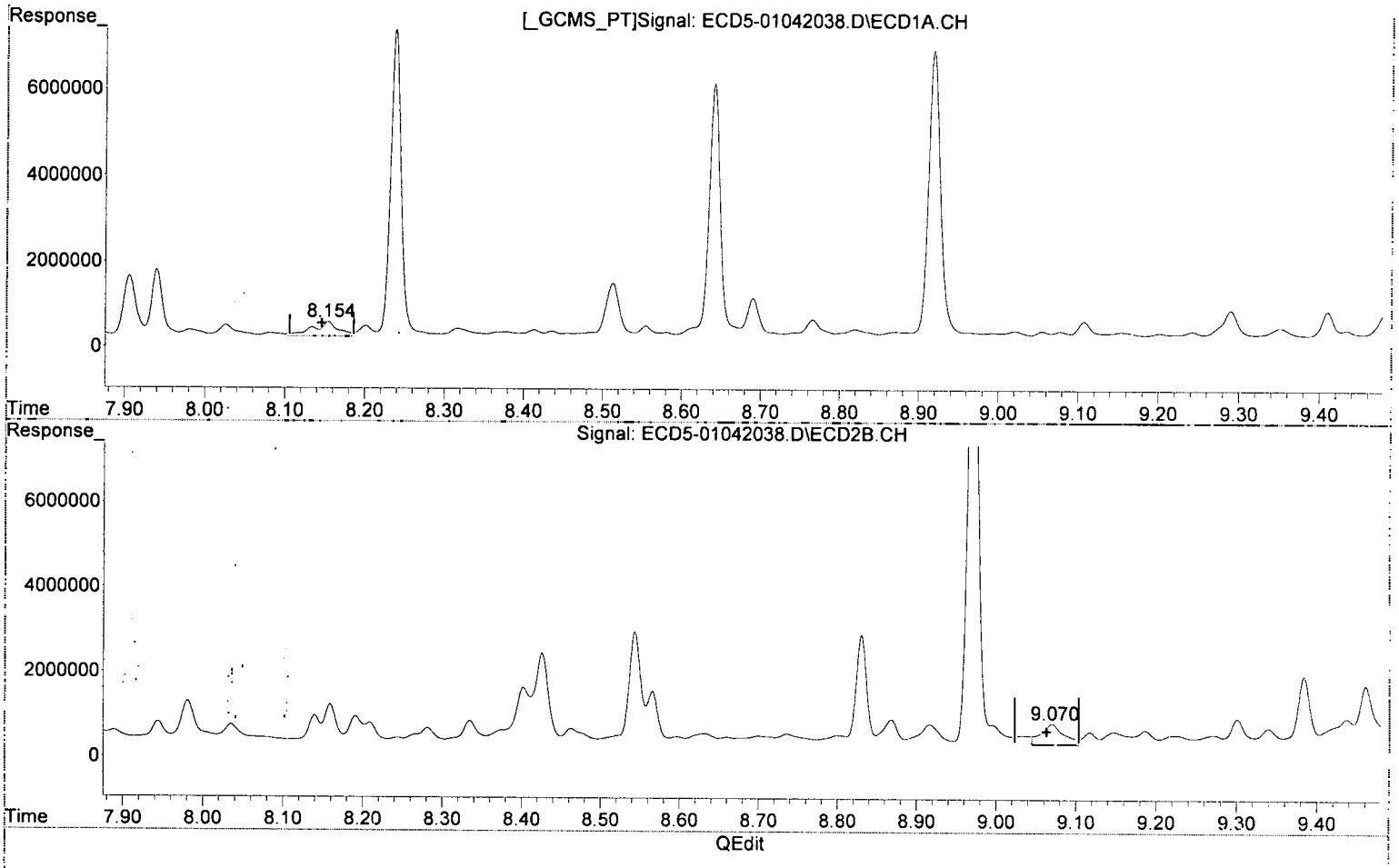
response 2563359

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:07
Operator : MJB
Sample : A9J0514-37RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:51 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.155min 3.601 ng/mL

response 333341

WB 1/6/20

(17) 4,4'-DDT #2

9.070min 3.432 ng/mL R-0X2

response 469105

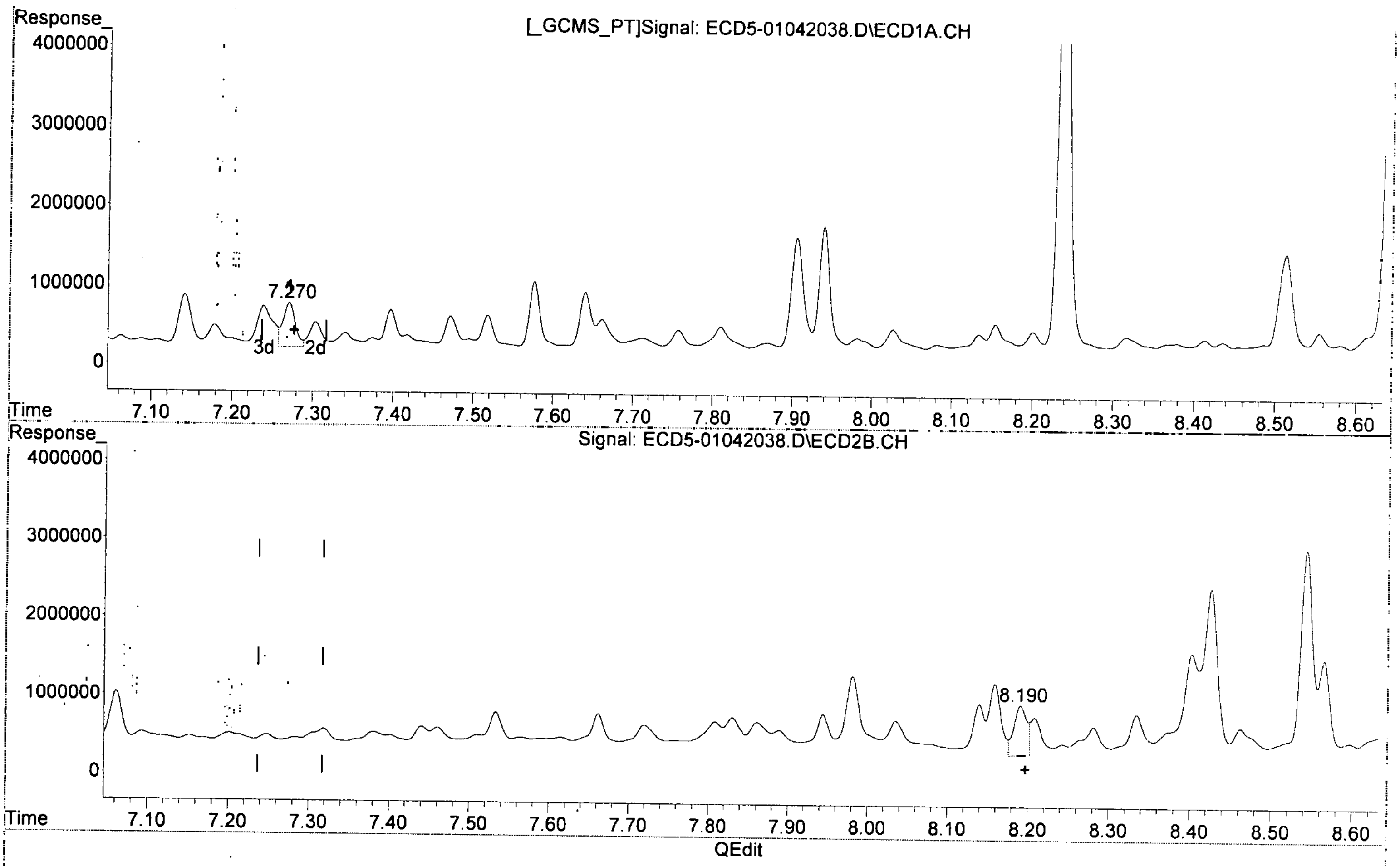
MJB 1/6/20

(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042038.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 05 Jan 2020   3:07
Operator  : MJB
Sample    : A9J0514-37RE1@2
Misc      : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:51 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title  : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation    6890 Scale Mode: Small noise peaks clipped
```



(26) 2,4'-DDE

7.271min 5.174 ng/mL

response 557913

MJB 1/6/20

(26) 2,4'-DDE #2

8.191min 3.325 ng/mL 2.01

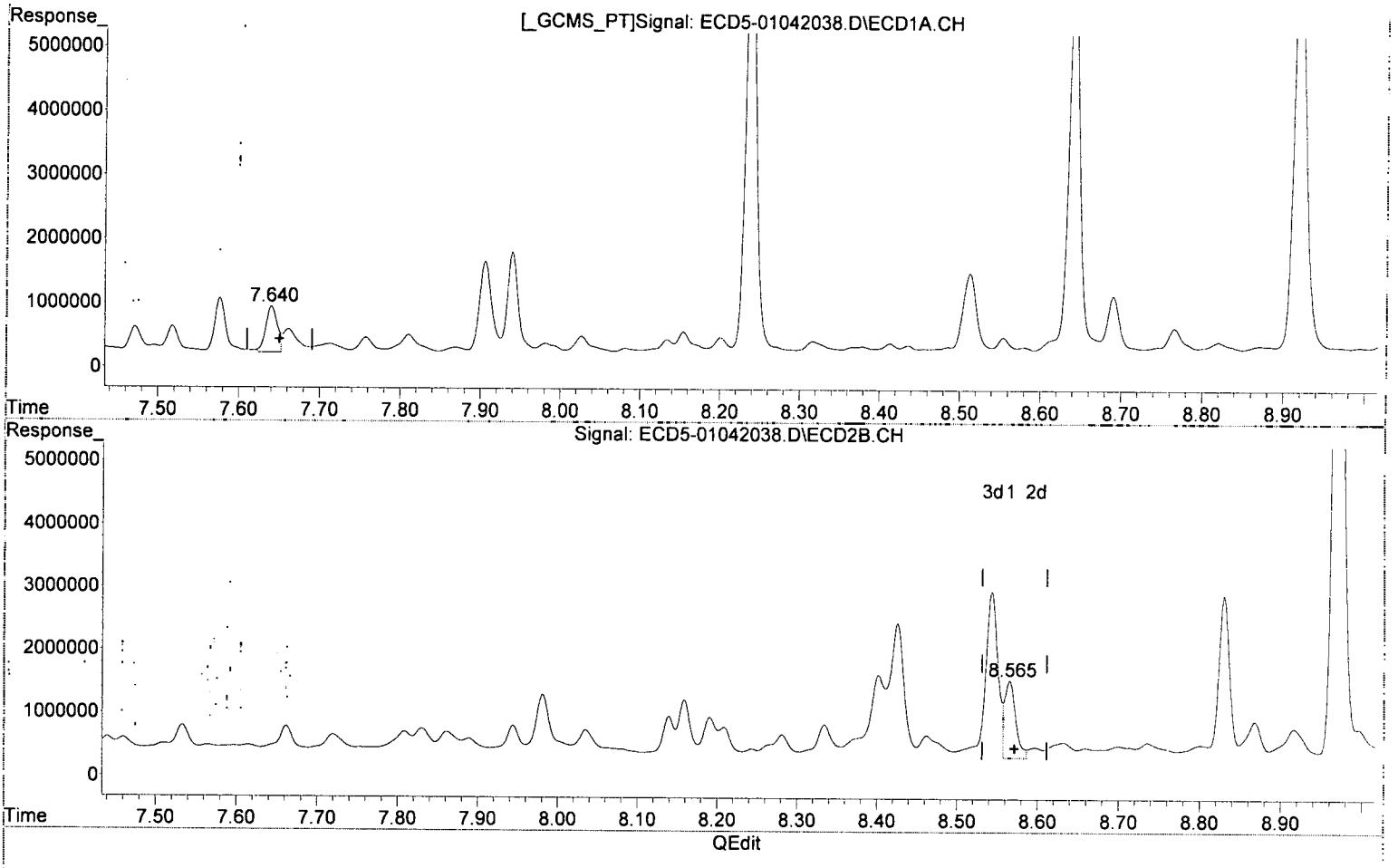
response 632438

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:07
Operator : MJB
Sample : A9J0514-37RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:51 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.640min 7.345 ng/mL (m)

response 722225

MJB 1/6/20

(28) 2,4'-DDD #2

8.566min 7.241 ng/mL

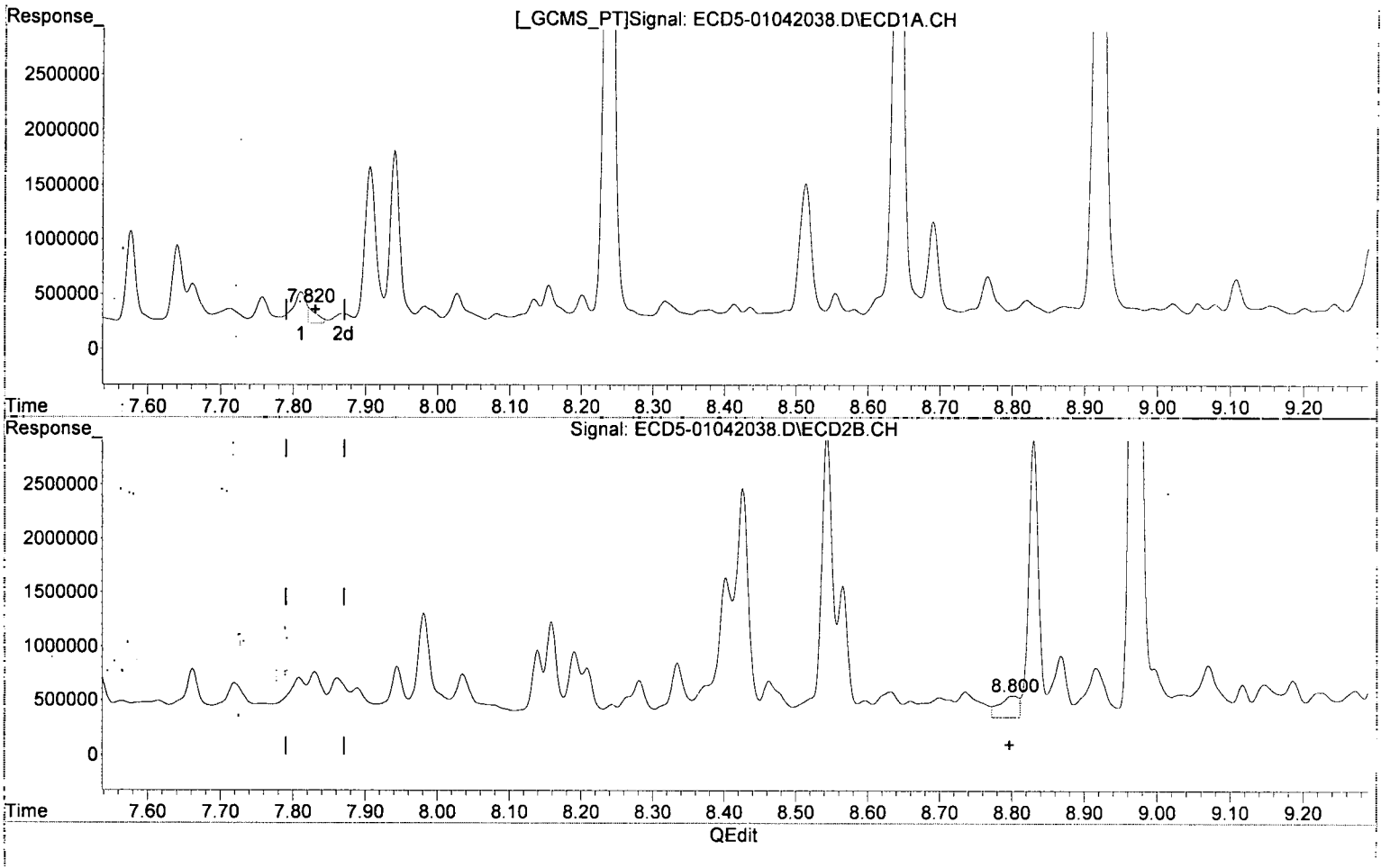
response 1227563

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:07
Operator : MJB
Sample : A9J0514-37RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:51 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.820min 1.554 ng/mL (m)

response 150402

MJB 1/6/20

(29) 2,4'-DDT #2

8.801min 1.396 ng/mL MDL-MRL

response 196111

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:07
Operator : MJB
Sample : A9J0514-37RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:51 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MI 1/6/20

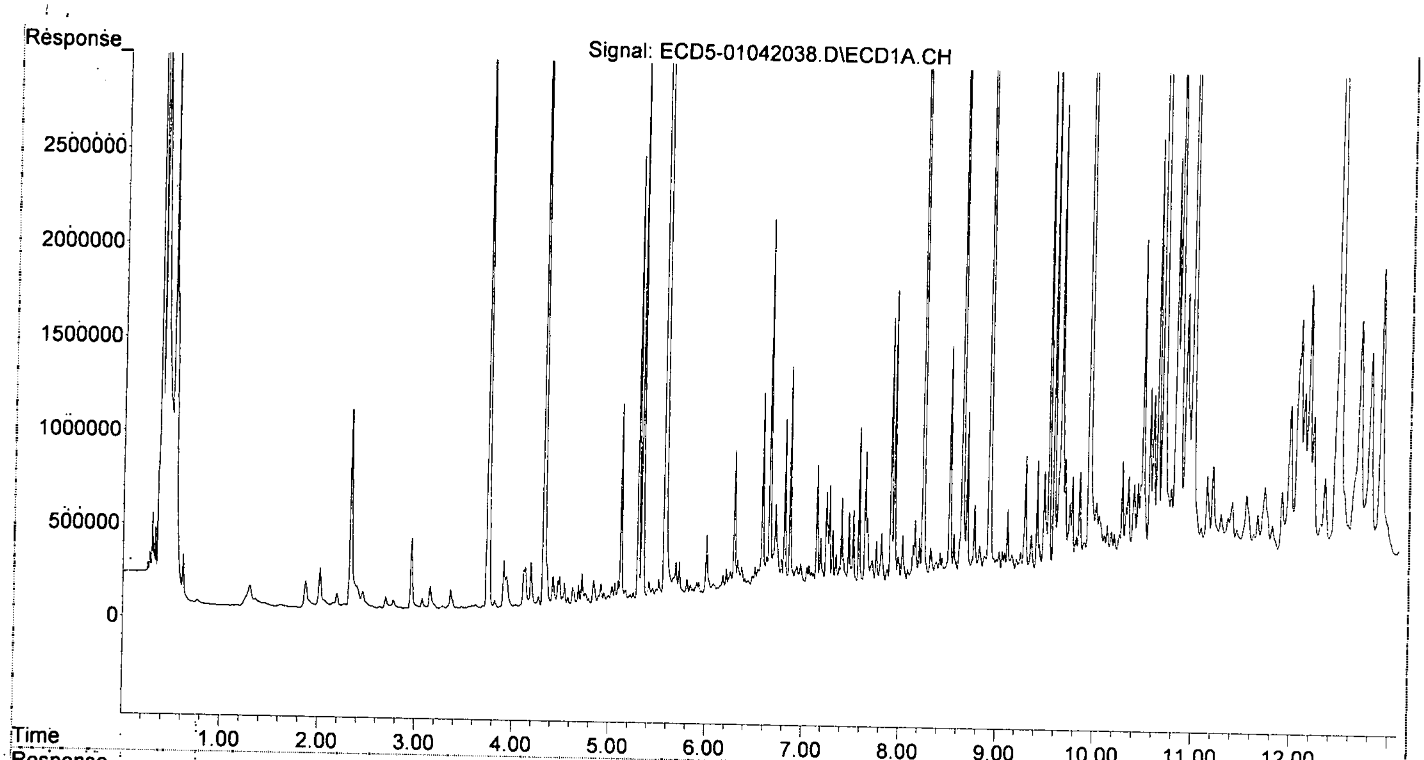
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.334	6.052	3158937	5539713	17.710	18.661	
22)	S	DCBP (S)	9.531	10.643	3159258	5108008	23.494	29.998	
		Target Compounds							
2)		a-BHC	5.863	6.660	42887	196688	0.179	0.494	#
3)		g-BHC	6.170	6.952f	108092	54730873	0.532	161.629	#
4)		b-BHC	6.248	7.061	122909	761801	1.733	5.497	#
5)		Heptachlor	6.578	7.380f	1070031	255257	5.820	0.853	#
6)		d-BHC	6.401	7.319	82632	291834	0.566	0.996	#
7)		Aldrin	6.808	7.615	917855	200097	4.834	0.645	#
8)		Heptachlo...	7.271	8.035f	557913	431122	3.105	1.505	#
9)		trans-Chl...	7.340f	8.209	181806	477763	1.008	1.638	#
10)		cis-Chlor...	7.472	8.335f	399703	523268	2.224	1.864	
11)		Endosulfa...	7.576	8.335f	850115	523268	4.837	1.991	#
12)		4,4'-DDE	7.518	8.426	411828	2129554	2.681	8.235	#
13)		Dieldrin	7.712	8.566	135488	1227563	0.690	4.133	#
14)		Endrin	7.906	8.801	1428060	196111	9.347	0.916	#
15)		4,4'-DDD	7.940	8.830	1566834	2563359	12.727	12.086	
16)		Endosulfa...	8.027f	8.970f	261074	12278562	1.709	51.863	#
17)		4,4'-DDT	8.155	9.070	333341	469105	3.601	3.432	
18)		Endrin Al...	8.318f	9.186	183090	326084	1.532	1.661	
19)		Endosulfa...	8.641	9.384	5904908	1605631	42.057	8.072	#
20)		Methoxychlor	8.513f	9.533	1252558	380357	24.966	5.283	#
21)		Endrin Ke...	8.820	9.764	179295	762674	0.897	3.458	#
23)		Hexachlor...	3.146	3.716f	119247	252975	0.576	0.698	
24)		Hexachlor...	5.720	6.527	191871	179259	1.052	0.612	#
25)		Oxychlordane	7.179	7.981	273297	995169	1.737	3.934	#
26)		2,4'-DDE	7.271	8.191	557913	632438	5.174	3.325	
27)		trans-Non...	7.472	8.281	399703	360672	2.224	1.278	#
28)		2,4'-DDD	7.640	8.566	709536	1227563	7.216	7.241	
29)		2,4'-DDT	7.811f	8.801	283466	196111	2.930	1.396	#
30)		cis-Nonac...	7.940	8.830	1566834	2563359	7.609	8.005	
31)		Mirex	8.555f	9.764	250200	762674	1.874	4.662	#
32)		Chlordane...	7.397	8.209	475422	477763	24.882	14.068	#
33)		Chlordane...	7.472	8.335	399703	523268	17.742	18.114	
34)		Chlordane...	8.027	8.970f	261074	12278562	45.738	1423.538	#
35)		Chlordane...	3.737	3.716	3826251	252975	NoCal	NoCal	
36)		Toxaphene...	7.472	8.566	399703	1227563	478.444	518.824	
37)		Toxaphene...	7.757	8.916	237547	452375	145.413	152.735	
38)		Toxaphene...	8.082	8.970	76447	12278562	20.518	2533.706	#
39)		Toxaphene...	8.318	9.036	183090	199667	51.987	20.251	#
40)		Toxaphene...	8.555	9.186	250200	326084	98.753	77.850	
41)		Toxaphene...	8.641f	9.594	5904908	870051	1736.363	189.732	#
42)		Toxaphene...	3.737	3.716	3826251	252975	NoCal	NoCal	

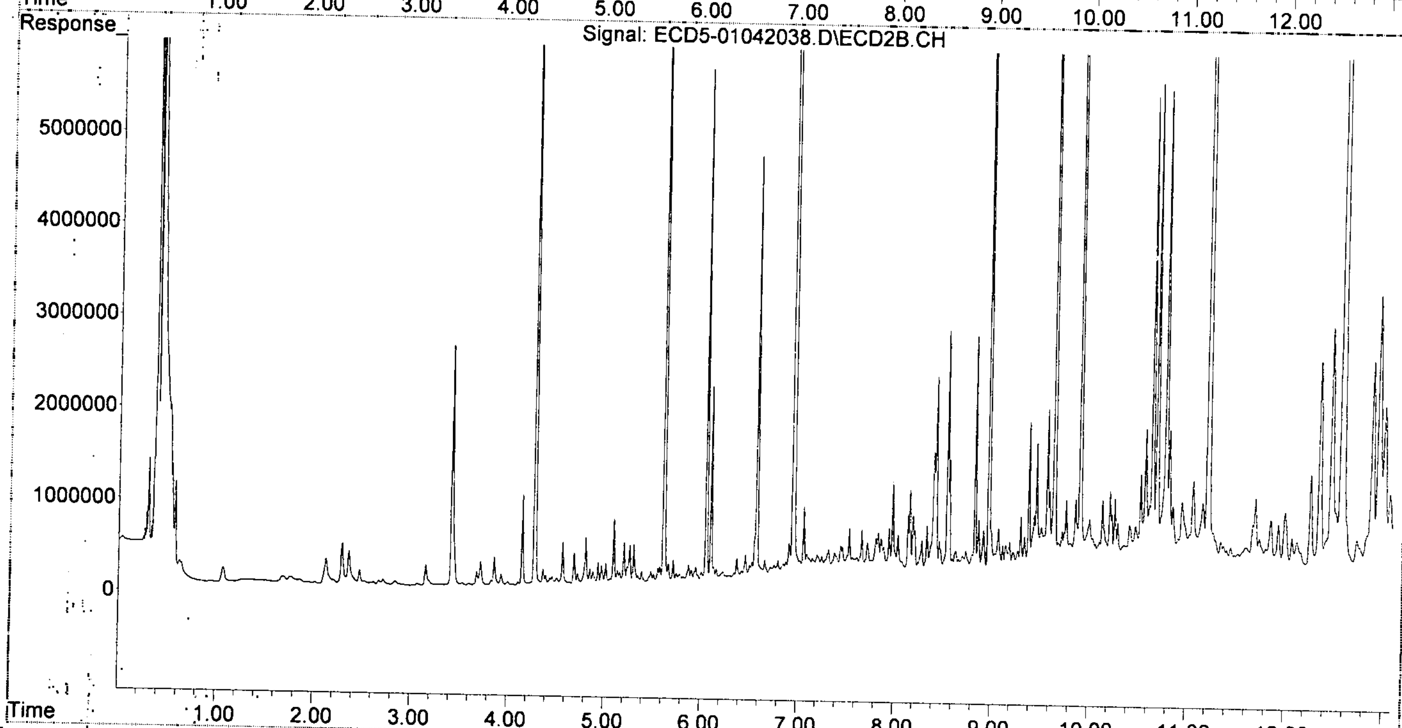
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:07
Operator : MJB
Sample : A9J0514-37RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 06 11:22:51 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:45
Operator : MJB
Sample : 0A04013-CCV5
Misc : A19K133, 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: Jan 06 15:29:34 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

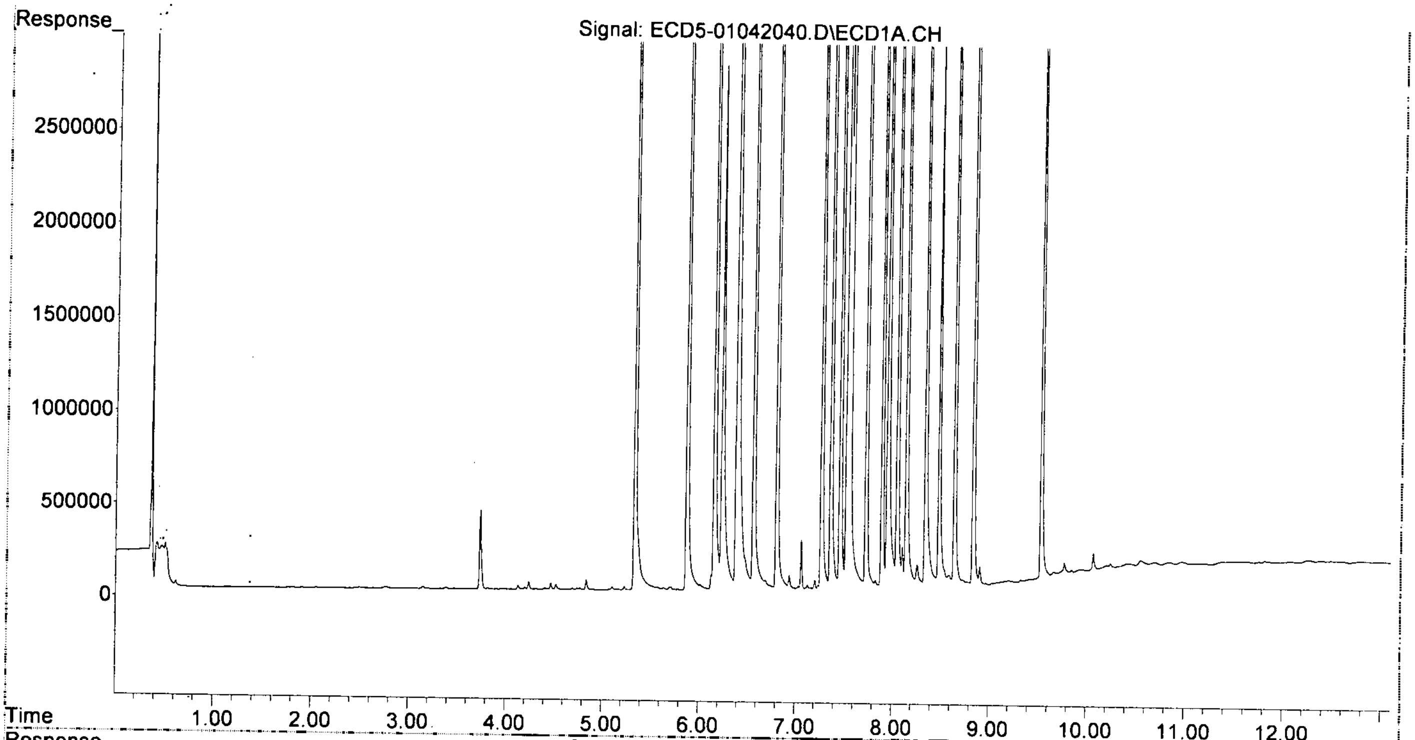
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.332	6.051	8159512	15194377	45.745	51.182	
22)	S	DCBP (S)	9.533	10.642	6617746	9236939	49.045	54.246	
		Target Compounds							
2)		a-BHC	5.872	6.659	12262883	23529503	51.082	59.127	
3)		g-BHC	6.155	6.979	9981646	19203206	49.084	56.710	
4)		b-BHC	6.234	7.042	2784097	6454805	39.267	46.577	
5)		Heptachlor	6.563	7.356	10062216	18759301	54.728	62.700	
6)		d-BHC	6.385	7.300	5890645	16010933	39.587	51.883	
7)		Aldrin	6.803	7.624	10175772	18021357	53.588	58.081	
8)		Heptachlo...	7.266	8.063	9046484	16140914	50.352	56.361	
9)		trans-Chl...	7.361	8.204	9158665	16155807	50.800	55.387	
10)		cis-Chlor...	7.458	8.311	9148753	15276688	53.408	54.433	
11)		Endosulfa...	7.555	8.363	9214914	14776089	52.434	56.217	
12)		4,4'-DDE	7.525	8.416	7031708	14190714	45.768m	51.115	
13)		Dieldrin	7.727	8.564	10397793	17226904	52.974	57.993	
14)		Endrin	7.892	8.794	8430857	13439692	55.182	60.609	
15)		4,4'-DDD	7.948	8.833	6038104	12325592	47.154	54.539	
16)		Endosulfa...	8.049	8.940	7677540	13622265	50.249	57.539	
17)		4,4'-DDT	8.143	9.061	6261703	11145792	58.073	64.207	a-41
18)		Endrin Al...	8.340	9.177	5941142	10870138	49.701	55.376	
19)		Endosulfa...	8.641	9.369	7893767	12736537	55.750	60.385	
20)		Methoxychlor	8.481	9.539	2874280	5769105	53.994	67.447	
21)		Endrin Ke...	8.835	9.773	9301119	15241249	56.015	65.168	
23)		Hexachlor...	3.146	0.000	11320	0	BelowCal	N.D.	
24)		Hexachlor...	5.703	6.535	17071	7317	BelowCal	0.025	
25)		Oxychlordane	7.201	7.978	44706	14959	0.123	0.059	#
26)		2,4'-DDE	7.266	8.204	9046484	16155807	83.904	84.951	
27)		trans-Non...	7.458	8.257	9148753	76407	50.897	0.271	#
28)		2,4'-DDD	0.000	8.564	0	17226904	N.D.	101.611	#
29)		2,4'-DDT	0.000	8.794	0	13439692	N.D.	85.158	#
30)		cis-Nonac...	7.948f	8.833	6038104	12325592	29.322	38.492	
31)		Mirex	8.587	9.773	56419	15241249	0.225	90.920	#
32)		Chlordane...	7.361f	8.204f	9158665	16155807	479.342	475.730	
33)		Chlordane...	7.458	8.311f	9148753	15276688	406.098	528.846	
34)		Chlordane...	8.049f	9.016	7677540	117167	1345.043	1.406	#
35)		Chlordane...	3.736	0.000	420106	0	NoCal	N.D.	
36)		Toxaphene...	7.458	8.564	9148753	17226904	9455.076	7280.868	
37)		Toxaphene...	7.727f	8.940	10397793	13622265	7159.256	4599.270	
38)		Toxaphene...	8.049f	8.975	7677540	179167	2112.426	36.971	#
39)		Toxaphene...	8.340f	9.016	5941142	117167	1741.449	8.317	#
40)		Toxaphene...	0.000	9.177f	0	10870138	N.D.	2285.093	#
41)		Toxaphene...	8.587f	9.620f	56419	144330	16.590	31.474	#
42)		Toxaphene...	3.736	0.000	420106	0	NoCal	N.D.	

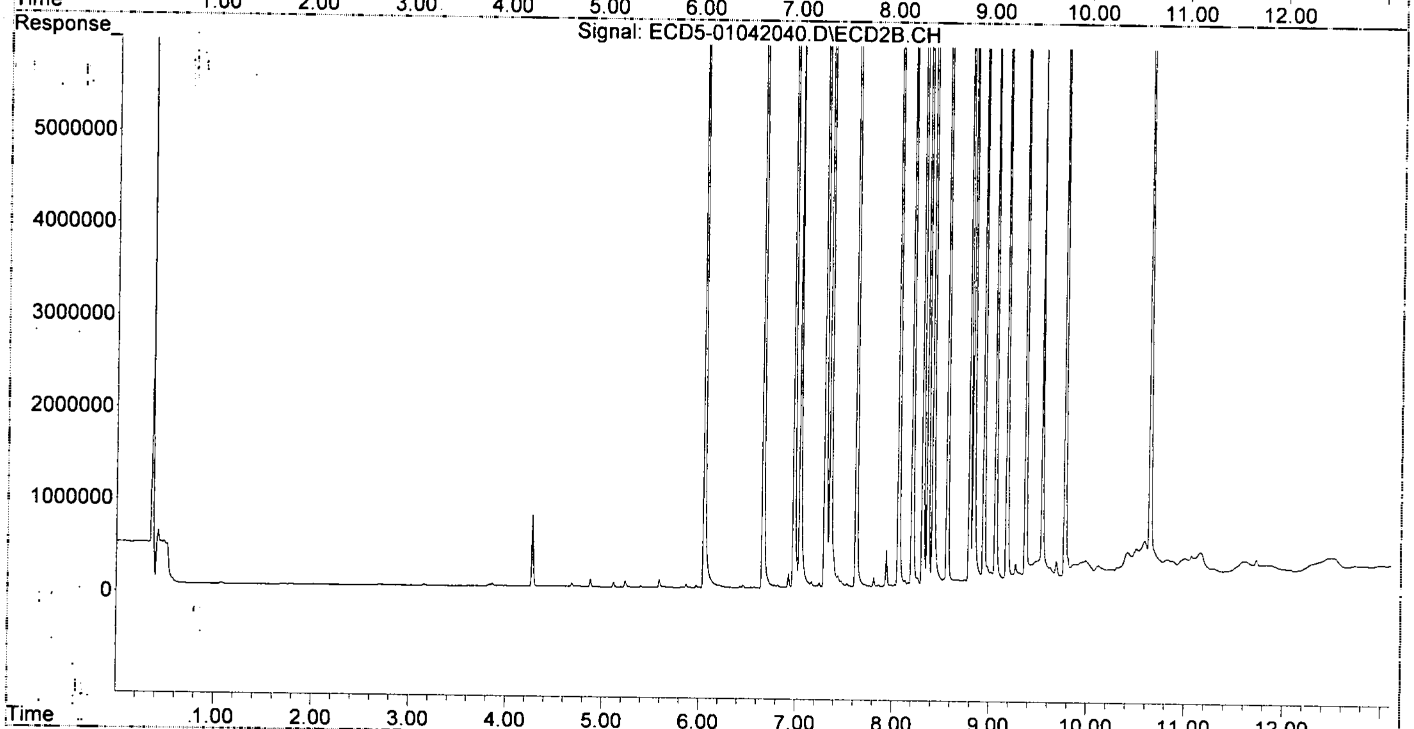
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:45
Operator : MJB
Sample : 0A04013-CCV5
Misc : A19K133, 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: Jan 06 15:29:34 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

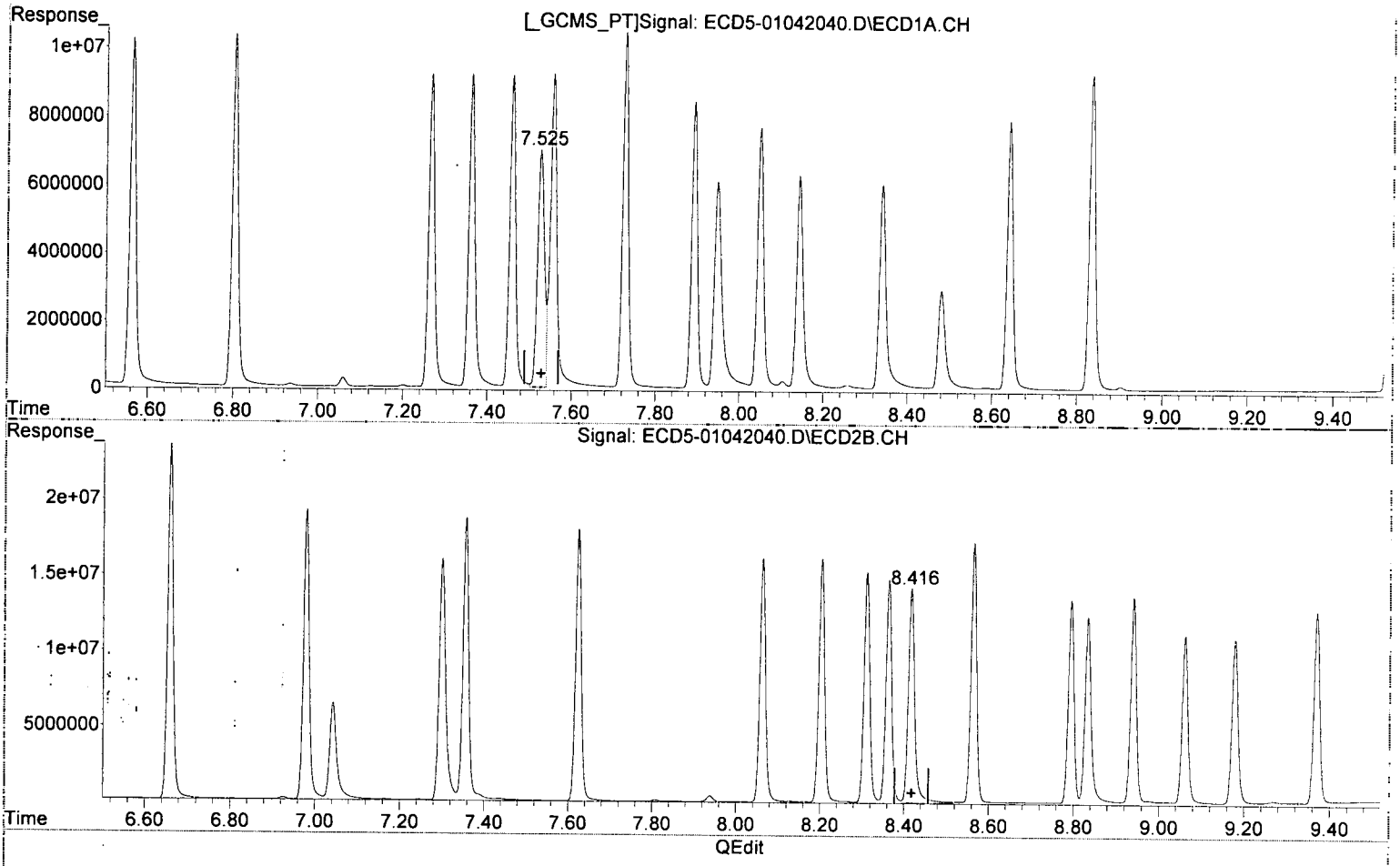




Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:45
Operator : MJB
Sample : 0A04013-CCV5
Misc : A19K133, 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: Jan 06 11:22:57 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.525min 45.768 ng/mL (m)

response 7031708

MJB 1/6/20

(12) 4,4'-DDE #2

8.416min 51.115 ng/mL

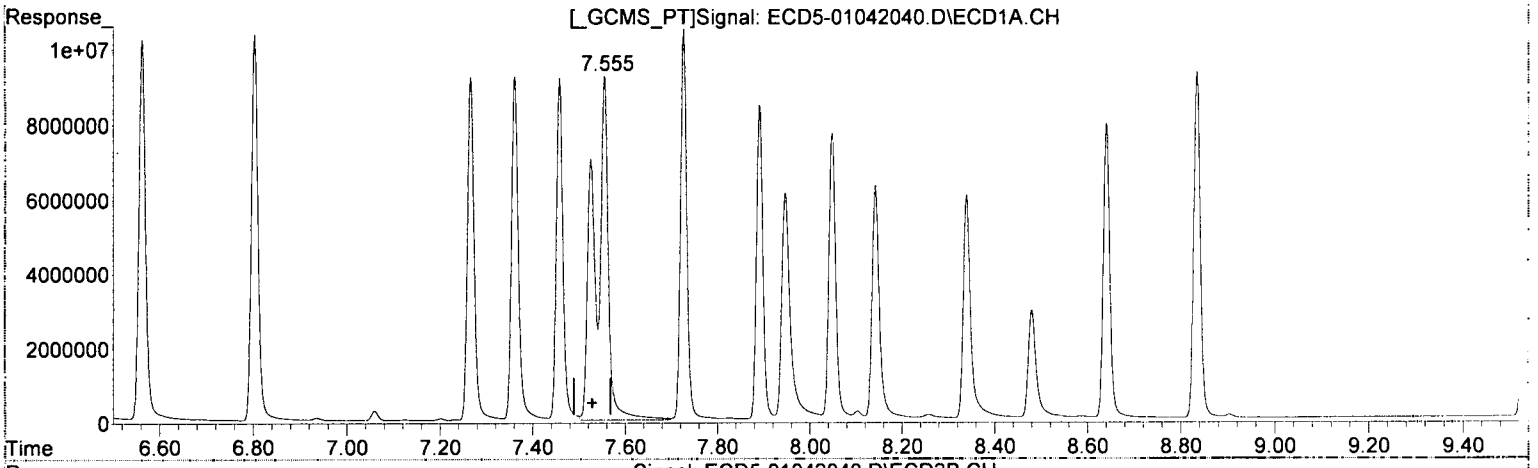
response 14190714

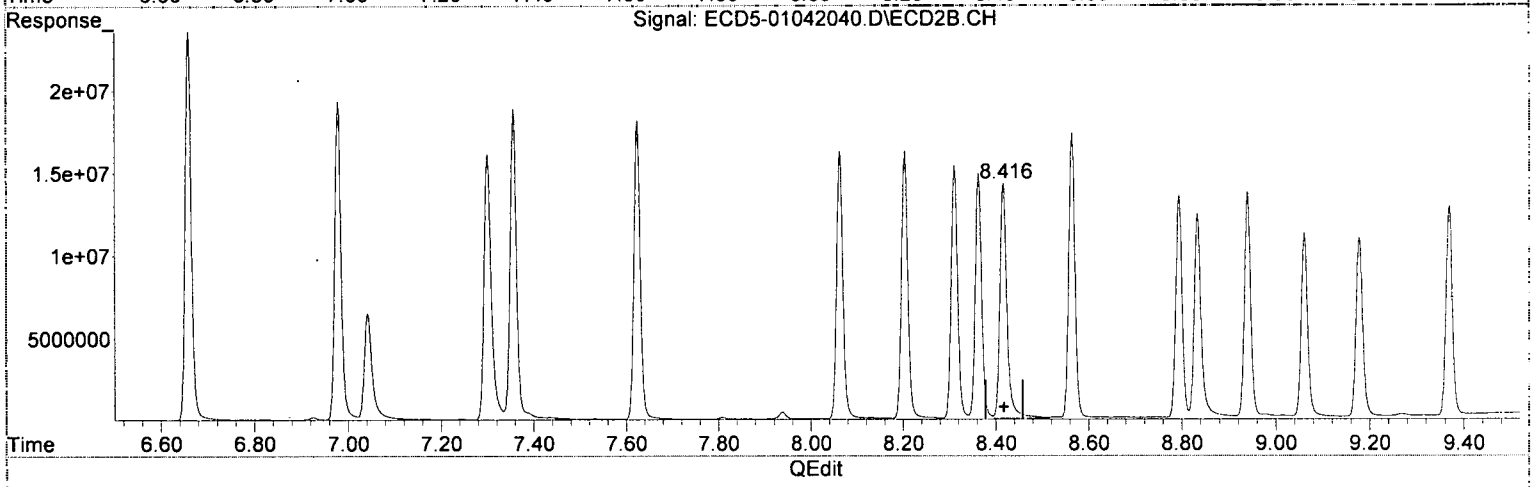
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:45
Operator : MJB
Sample : 0A04013-CCV5
Misc : A19K133, 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: Jan 06 11:22:57 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(12) 4,4'-DDE

7.555min 59.978 ng/mL

response 9214914

MJB 1/6/20

(12) 4,4'-DDE #2

8.416min 51.115 ng/mL

response 14190714

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 3:45
Operator : MJB
Sample : 0A04013-CCV5
Misc : A19K133, 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: Jan 06 11:22:57 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJ MJB 1/6/20

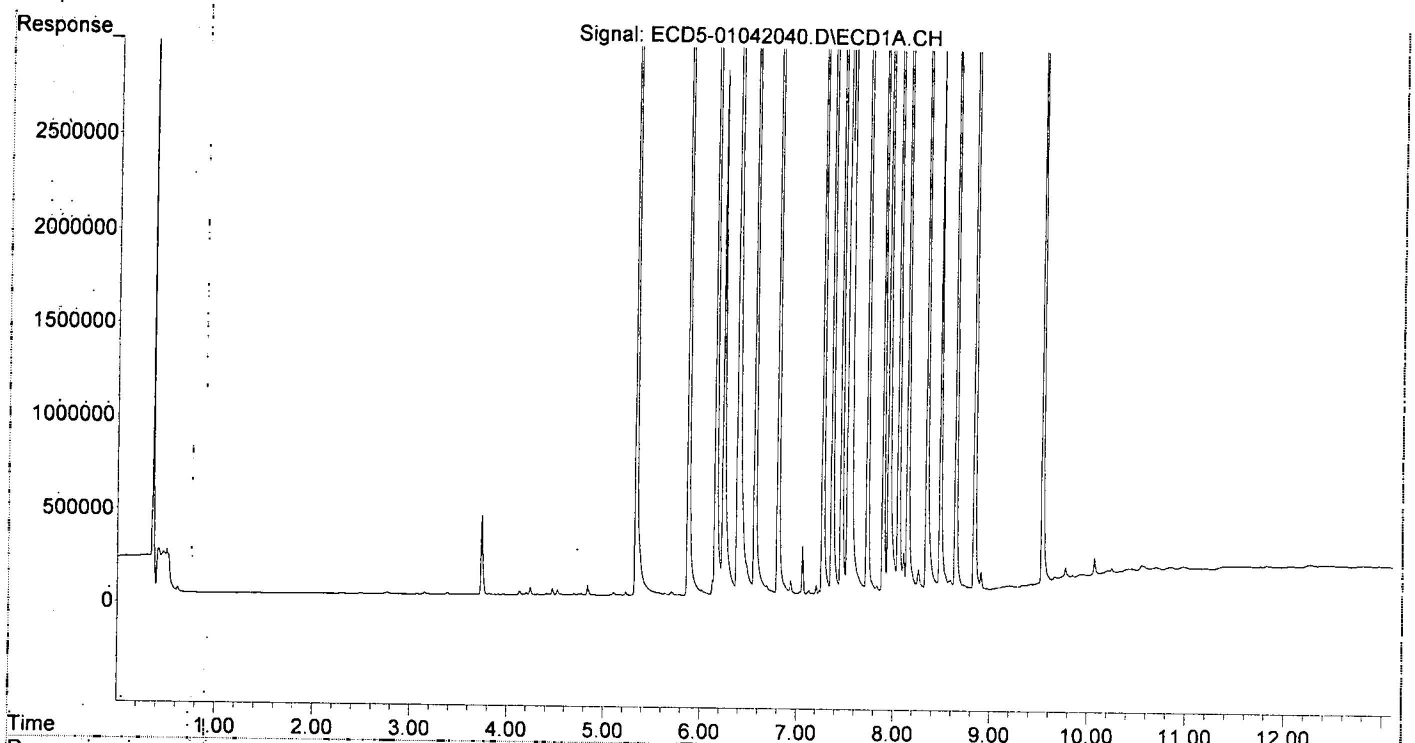
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.332	6.051	8159512	15194377	45.745	51.182	
22) S	DCBP (S)	9.533	10.642	6617746	9236939	49.045	54.246	
	Target Compounds							
2)	a-BHC	5.872	6.659	12262883	23529503	51.082	59.127	
3)	g-BHC	6.155	6.979	9981646	19203206	49.084	56.710	
4)	b-BHC	6.234	7.042	2784097	6454805	39.267	46.577	
5)	Heptachlor	6.563	7.356	10062216	18759301	54.728	62.700	
6)	d-BHC	6.385	7.300	5890645	16010933	39.587	51.883	
7)	Aldrin	6.803	7.624	10175772	18021357	53.588	58.081	
8)	Heptachlo...	7.266	8.063	9046484	16140914	50.352	56.361	
9)	trans-Chl...	7.361	8.204	9158665	16155807	50.800	55.387	
10)	cis-Chlor...	7.458	8.311	9148753	15276688	53.408	54.433	
11)	Endosulfa...	7.555	8.363	9214914	14776089	52.434	56.217	
12)	4,4'-DDE	7.555f	8.416	9214914	14190714	59.978	51.115	
13)	Dieldrin	7.727	8.564	10397793	17226904	52.974	57.993	
14)	Endrin	7.892	8.794	8430857	13439692	55.182	60.609	
15)	4,4'-DDD	7.948	8.833	6038104	12325592	47.154	54.539	
16)	Endosulfa...	8.049	8.940	7677540	13622265	50.249	57.539	
17)	4,4'-DDT	8.143	9.061	6261703	11145792	58.073	64.207	
18)	Endrin Al...	8.340	9.177	5941142	10870138	49.701	55.376	
19)	Endosulfa...	8.641	9.369	7893767	12736537	55.750	60.385	
20)	Methoxychlor	8.481	9.539	2874280	5769105	53.994	67.447	
21)	Endrin Ke...	8.835	9.773	9301119	15241249	56.015	65.168	
23)	Hexachlor...	3.146	0.000	11320	0	BelowCal	N.D.	
24)	Hexachlor...	5.703	6.535	17071	7317	BelowCal	0.025	
25)	Oxychlordane	7.201	7.978	44706	14959	0.123	0.059	#
26)	2,4'-DDE	7.266	8.204	9046484	16155807	83.904	84.951	
27)	trans-Non...	7.458	8.257	9148753	76407	50.897	0.271	#
28)	2,4'-DDD	0.000	8.564	0	17226904	N.D.	101.611	#
29)	2,4'-DDT	0.000	8.794	0	13439692	N.D.	85.158	#
30)	cis-Nonac...	7.948f	8.833	6038104	12325592	29.322	38.492	
31)	Mirex	8.587	9.773	56419	15241249	0.225	90.920	#
32)	Chlordane...	7.361f	8.204f	9158665	16155807	479.342	475.730	
33)	Chlordane...	7.458	8.311f	9148753	15276688	406.098	528.846	
34)	Chlordane...	8.049f	9.016	7677540	117167	1345.043	1.406	#
35)	Chlordane...	3.736	0.000	420106	0	NoCal	N.D.	
36)	Toxaphene...	7.458	8.564	9148753	17226904	9455.076	7280.868	
37)	Toxaphene...	7.727f	8.940	10397793	13622265	7159.256	4599.270	
38)	Toxaphene...	8.049f	8.975	7677540	179167	2112.426	36.971	#
39)	Toxaphene...	8.340f	9.016	5941142	117167	1741.449	8.317	#
40)	Toxaphene...	0.000	9.177f	0	10870138	N.D.	2285.093	#
41)	Toxaphene...	8.587f	9.620f	56419	144330	16.590	31.474	#
42)	Toxaphene...	3.736	0.000	420106	0	NoCal	N.D.	

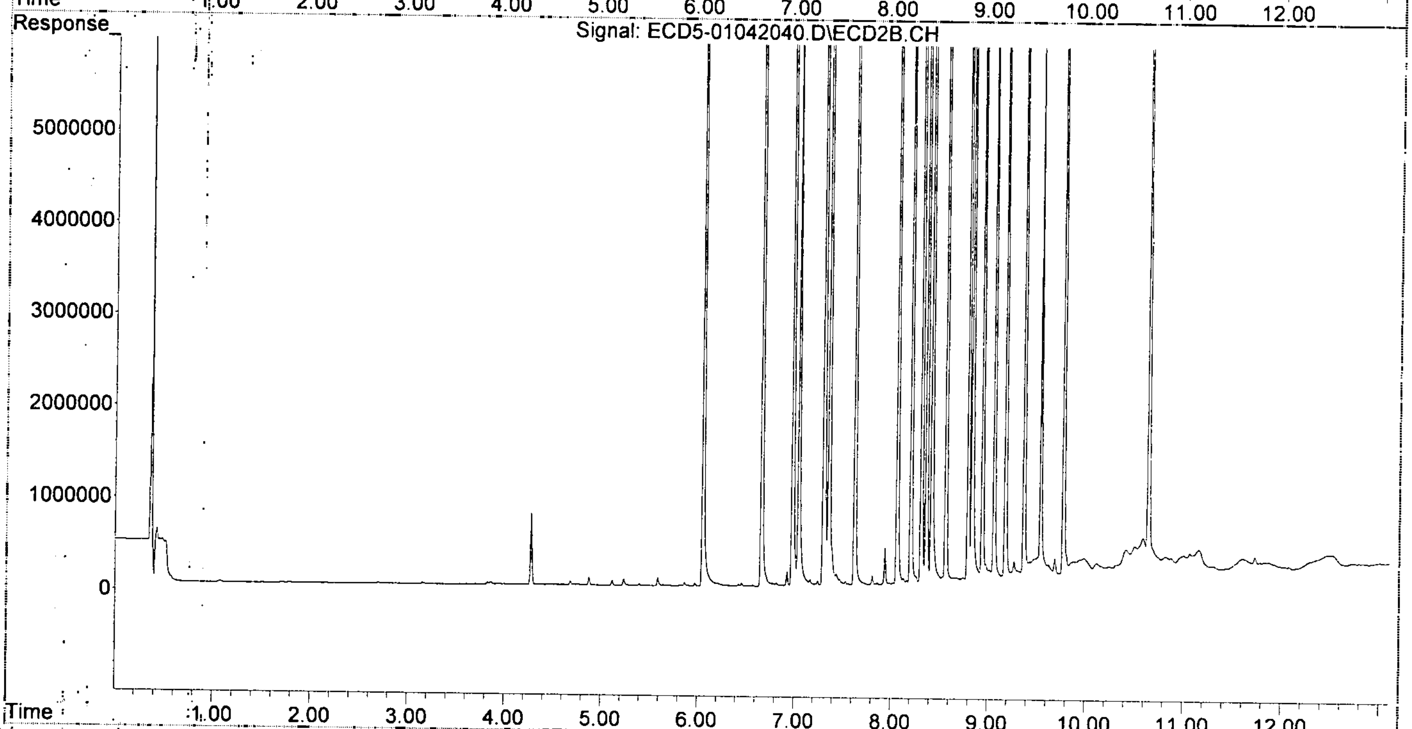
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

```
Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042040.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 05 Jan 2020   3:45
Operator  : MJB
Sample    : 0A04013-CCV5
Misc      : A19K133, 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: Jan 06 11:22:57 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title  : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped
```





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 4:02
Operator : MJB
Sample : 0A04013-CCV6
Misc : A19J408, 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: Jan 06 11:23:03 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation : 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

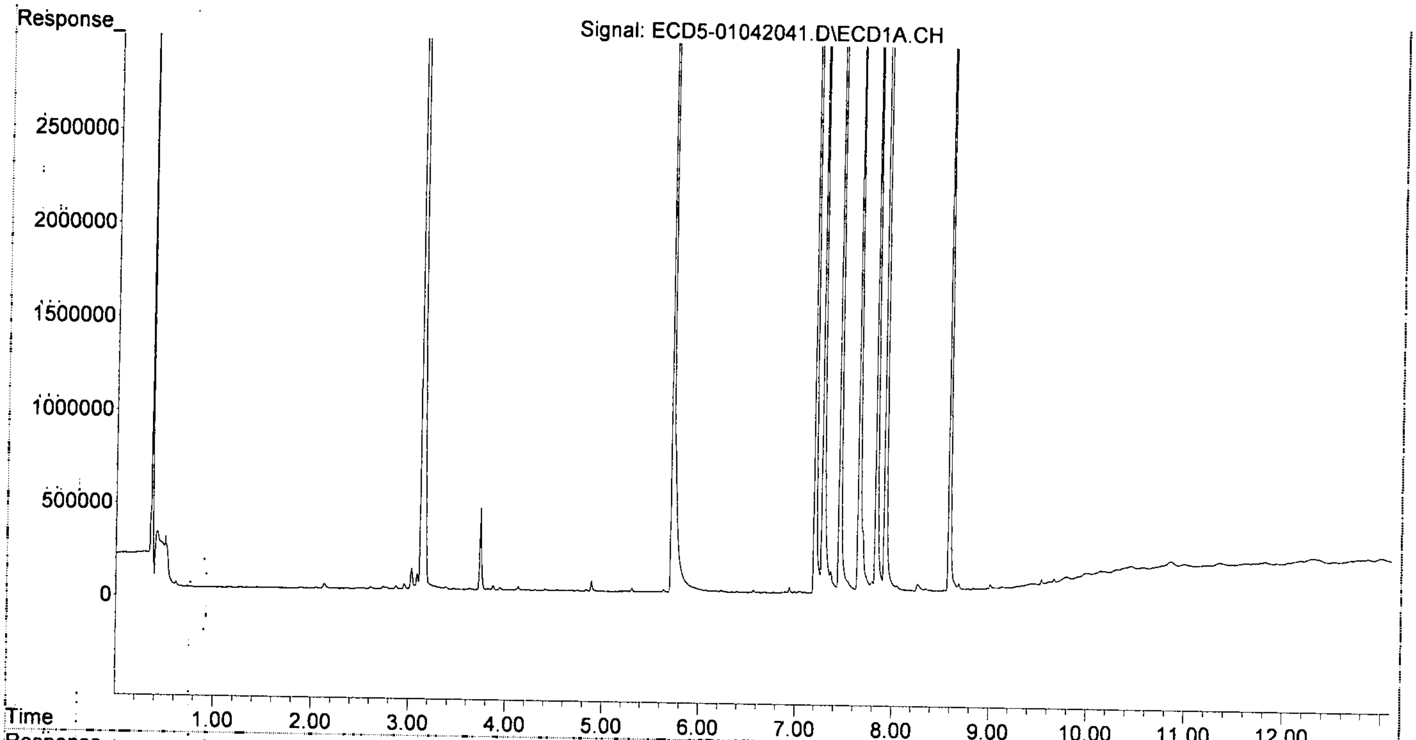
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.305f	6.057	19968	10676	0.112	0.036	#
22)	S	DCBP (S)	9.536	10.641	36416	252443	0.061	1.483	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.180	0.000	6451	0	0.032	N.D.	#
4)		b-BHC	6.226	7.048	10458	3125	0.147	0.023	#
5)		Heptachlor	6.564	7.355	13196	20830	0.072	0.070	
6)		d-BHC	0.000	7.303	0	6822	N.D.	BelowCal	
7)		Aldrin	0.000	7.631	0	7176	N.D.	0.023	#
8)		Heptachlo...	7.275	8.059	4432153	69137	24.669	0.241	#
9)		trans-Chl...	7.361	8.195	119154	9363039	0.661	32.099	#
10)		cis-Chlor...	7.451	0.000	8423444	0	49.276	N.D.	#
11)		Endosulfa...	0.000	8.371	0	44279	N.D.	0.168	#
12)		4,4'-DDE	0.000	8.395f	0	21688	N.D.	0.030	#
13)		Dieldrin	0.000	8.569	0	8277838	N.D.	27.867	#
14)		Endrin	7.921f	8.795	9931572	9532400	65.005	44.158	
15)		4,4'-DDD	7.921f	8.835	9931572	17585993	74.780	75.267	
16)		Endosulfa...	8.046	8.922f	31224	115804	0.204	0.489	#
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.345	0.000	13575	0	0.114	N.D.	#
19)		Endosulfa...	0.000	9.371	0	49711	N.D.	BelowCal	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.838	9.767	5963	9628117	BelowCal	42.774	
23)		Hexachlor...	3.129	3.736	8381375	19106844	51.414	52.753	
24)		Hexachlor...	5.714	6.520	6803425	13579184	41.991	46.342	
25)		Oxychlordane	7.195	7.992	7255408	13339626	49.162	52.726	
26)		2,4'-DDE	7.275	8.195	4432153	9363039	41.107	49.233	
27)		trans-Non...	7.451	8.267	8423444	14926596	46.862	52.908	
28)		2,4'-DDD	7.648	8.569	3948257	8277838	40.155	48.826	
29)		2,4'-DDT	7.829	8.795	5044361	9532400	52.132	63.114	Q 41
30)		cis-Nonac...	7.921	8.835	9931572	17585993	48.230	54.920	
31)		Mirex	8.585	9.767	6027340	9628117	50.543	59.333	
32)		Chlordane...	7.361f	8.195f	119154	9363039	6.236	275.708	#
33)		Chlordane...	7.451f	8.371f	8423444	44279	373.903	1.533	#
34)		Chlordane...	8.046f	8.982	31224	207366	5.470	13.070	#
35)		Chlordane...	3.736	3.736	441423	19106844	NoCal	NoCal	
36)		Toxaphene...	7.451	8.569	8423444	8277838	8796.706	3498.588	#
37)		Toxaphene...	7.792f	8.922	59005	115804	33.338	39.099	
38)		Toxaphene...	8.046f	8.982f	31224	207366	6.554	42.790	#
39)		Toxaphene...	8.345f	0.000	13575	0	BelowCal	N.D.	
40)		Toxaphene...	0.000	9.230f	0	98183	N.D.	21.221	#
41)		Toxaphene...	8.585f	0.000	6027340	0	1772.364	N.D.	#
42)		Toxaphene...	3.736	3.736	441423	19106844	NoCal	NoCal	

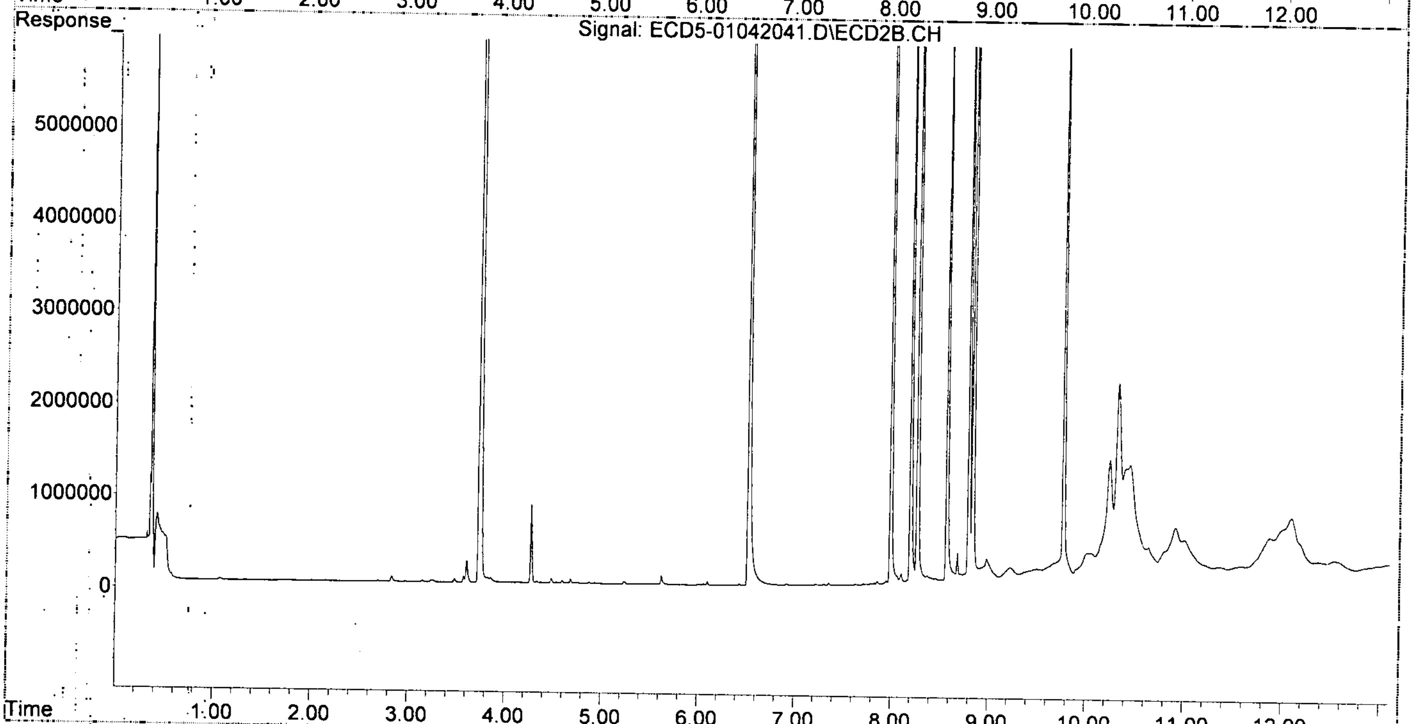
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 4:02
Operator : MJB
Sample : 0A04013-CCV6
Misc : A19J408, 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: Jan 06 11:23:03 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Jan 2020 4:19
Operator : MJB
Sample : 0A04013-CCB3
Misc : A19L339
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: Jan 06 11:23:10 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/6/20

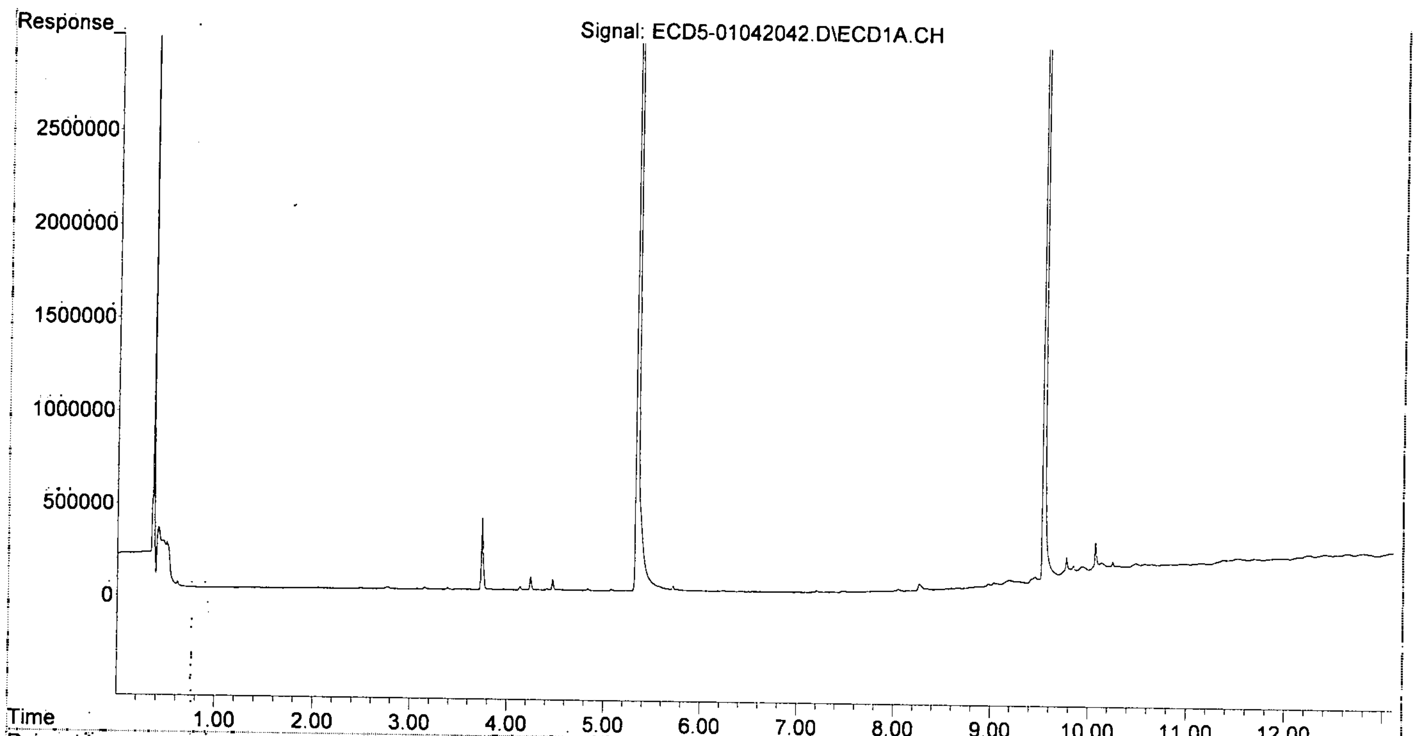
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.333	6.051	15195095	29126997	85.189	98.114	
22)	S	DCBP (S)	9.536	10.645	11695177	16698874	85.833	98.067	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.230	0.000	5090	0	N.D.	N.D.	
5)		Heptachlor	0.000	0.000	0	0	0.072	N.D.	#
6)		d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)		Aldrin	0.000	7.307	0	6140	N.D.	BelowCal	
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...	7.356	8.228f	3821	52206	0.021	0.179	#
11)		Endosulfa...	7.471	0.000	5370	0	BelowCal	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	7.731	8.538f	783	72155	0.004	0.243	#
15)		4,4'-DDD	7.924f	0.000	1675	0	0.011	N.D.	#
16)		Endosulfa...	7.962	8.837	1126	52690	BelowCal	0.097	
17)		4,4'-DDT	8.046	8.923f	9436	65446	0.062	0.276	#
18)		Endrin Al...	0.000	9.060	0	45722	N.D.	0.533	#
19)		Endosulfa...	8.343	9.176	7059	51608	0.059	0.263	#
20)		Methoxychlor	8.646	0.000	4884	0	BelowCal	N.D.	
21)		Endrin Ke...	0.000	0.000	0	0	N.D.	N.D.	
23)		Hexachlor...	8.841	0.000	3838	0	BelowCal	N.D.	
24)		Hexachlor...	3.145	0.000	10450	0	BelowCal	N.D.	
25)		Oxychlordane	5.714	0.000	22647	0	BelowCal	N.D.	
26)		2,4'-DDE	7.199	0.000	8503	0	BelowCal	N.D.	
27)		trans-Non...	0.000	8.228f	0	52206	N.D.	0.275	#
28)		2,4'-DDD	7.471	0.000	5370	0	0.030	N.D.	#
29)		2,4'-DDT	0.000	8.538f	0	72155	N.D.	0.426	#
30)		cis-Nonac...	7.798f	8.837f	1564	52690	0.016	0.308	#
31)		Mirex	7.924	8.837	1675	52690	0.008	0.165	#
32)		Chlordane...	8.590	0.000	3715	0	BelowCal	N.D.	
33)		Chlordane...	7.356f	8.228	3821	52206	0.200	1.537	#
34)		Chlordane...	7.471	0.000	5370	0	0.238	N.D.	#
35)		Chlordane...	8.016	8.983	3730	118879	0.653	1.628	#
36)		Toxaphene...	3.736	0.000	389269	0	NoCal	N.D.	
37)		Toxaphene...	7.471	8.538f	5370	72155	3.523	30.496	#
38)		Toxaphene...	7.731f	8.923	783	65446	78765.204	22.096	#
39)		Toxaphene...	8.046f	8.983f	9436	118879	BelowCal	24.531	
40)		Toxaphene...	8.343f	9.060f	7059	45722	BelowCal	BelowCal	
41)		Toxaphene...	0.000	9.176f	0	51608	N.D.	9.583	#
42)		Toxaphene...	8.590	0.000	3715	0	1.092	N.D.	#
		Toxaphene...	3.736	0.000	389269	0	NoCal	N.D.	

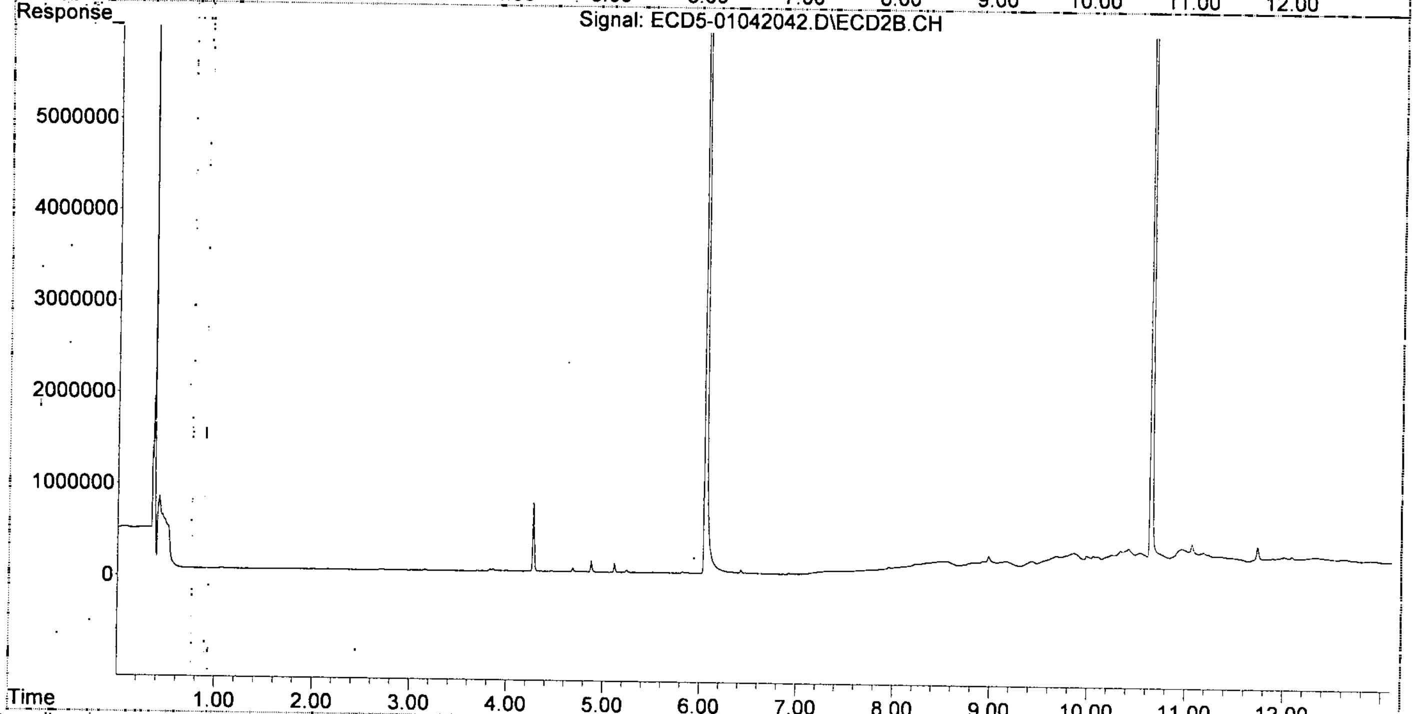
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

```
Data Path : R:\data\2020-01\0A04013\
Data File : ECD5-01042042.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 05 Jan 2020   4:19
Operator  : MJB
Sample    : 0A04013-CCB3
Misc      : A19L339
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: Jan 06 11:23:10 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT1.M
Quant Title  : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
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
Benchsheet & Analysis Sequence Data

Sequence 0A07035 (A9J0514-33RE2,35RE1,38RE1,39RE1)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0A07035** Instrument: **DUALECD5**

Date: **01/07/20 10:41** Calibration: **A9L1807**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A07035-BKD1	Water	QC	QC				A20A019
2	0A07035-CCV1	Water	QC	QC				A19K133
3	0A07035-CCB1	Water	QC	QC				A19L339
4	A9L0847-01RE1	Water	608 Pesticides (SW)		01/07/20	0010067		
5	A9L0847-02RE1	Water	608 Pesticides (SW)		01/07/20	0010067		
6	A9L0847-03RE1	Water	608 Pesticides (SW)		01/07/20	0010067		
7	A9L0847-04RE1	Water	608 Pesticides (SW)		01/07/20	0010067		
8	A9L0847-05RE1	Water	608 Pesticides (SW)		01/07/20	0010067		
9	A9L0847-06RE1	Water	608 Pesticides (SW)		01/07/20	0010067		
10	A9L0851-01RE1	Water	608 Pesticides (SW)		01/07/20	0010067		
11	0A07035-CCV2	Water	QC	QC				A19K134
12	0A07035-CCV3	Water	QC	QC				A19J409
13	0A07035-CCB2	Water	QC	QC				A19L339
14	A9J0514-38RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
15	0A07035-IBL1	Water	QC	QC				
16	A9J0514-39RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
17	0A07035-IBL2	Water	QC	QC				
18	A9J0514-40RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
19	0A07035-IBL3	Water	QC	QC				
20	A9J0553-39RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
21	0A07035-IBL4	Water	QC	QC				
22	A9J0553-40RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
23	0A07035-IBL5	Water	QC	QC				
24	A9J0553-41RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
25	0A07035-IBL6	Water	QC	QC				
26	A9J0553-42RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
27	0A07035-IBL7	Water	QC	QC				
28	A9J0514-35RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
29	0A07035-IBL8	Water	QC	QC				
30	A9J0514-33RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
31	0A07035-IBL9	Water	QC	QC				
32	A9J0553-44RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
33	0A07035-IBLA	Water	QC	QC				
34	0A07035-CCV4	Water	QC	QC				A19K133
35	0A07035-CCV5	Water	QC	QC				A19J408
36	0A07035-CCB3	Water	QC	QC				A19L339

new 1/8/20

MP 1/13/20

Data Entered By: MB 1/8/20

Data Reviewed By: DJ 1/8/20 (008s only) MP 1/13/20

Comments:

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0A07035 BKD1
Data File: ECD5-01072003.D

First Column Area Counts		Percent Breakdown	
DDE	892748		
DDD	10296199		
DDT	134528983	**7.68**	**PASS**
Endrin	81774787	**10.61**	**PASS**
Endrin Aldehyde	3313042		
Endrin Ketone	6393711		

Second Column Area Counts		Percent Breakdown	
DDE	1476626		
DDD	16723082		
DDT	216273588	**7.76**	**PASS**
Endrin	130683110	**7.04**	**PASS**
Endrin Aldehyde	2792346		
Endrin Ketone	7099690		

Breakdown must be less than 15% to accept sample data.

MJB 1/7/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2020-01\0A07035\
Data File : ECD5-01072003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 11:40
Operator : MJB
Sample : 0A07035-BKD1
Misc : A20A019
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: Jan 07 15:21:02 2020
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_191217RT2.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
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	7.516	892748	NoCal	ng/mL
2)	Endrin	7.880	81774787	NoCal	ng/mL
3)	4,4'-DDD	7.937	10296199	NoCal	ng/mL
4)	4,4'-DDT	8.132	134528983	NoCal	ng/mL
5)	Endrin Aldehyde	8.329	3313042	NoCal	ng/mL
6)	Endrin Ketone	8.822	6393711	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.407	1476626	NoCal	ng/mL
9)	Endrin [2C]	8.784	130683110	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.825	16723082	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.168	2792346	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.052	216273588	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.763	7099690	NoCal	ng/mL

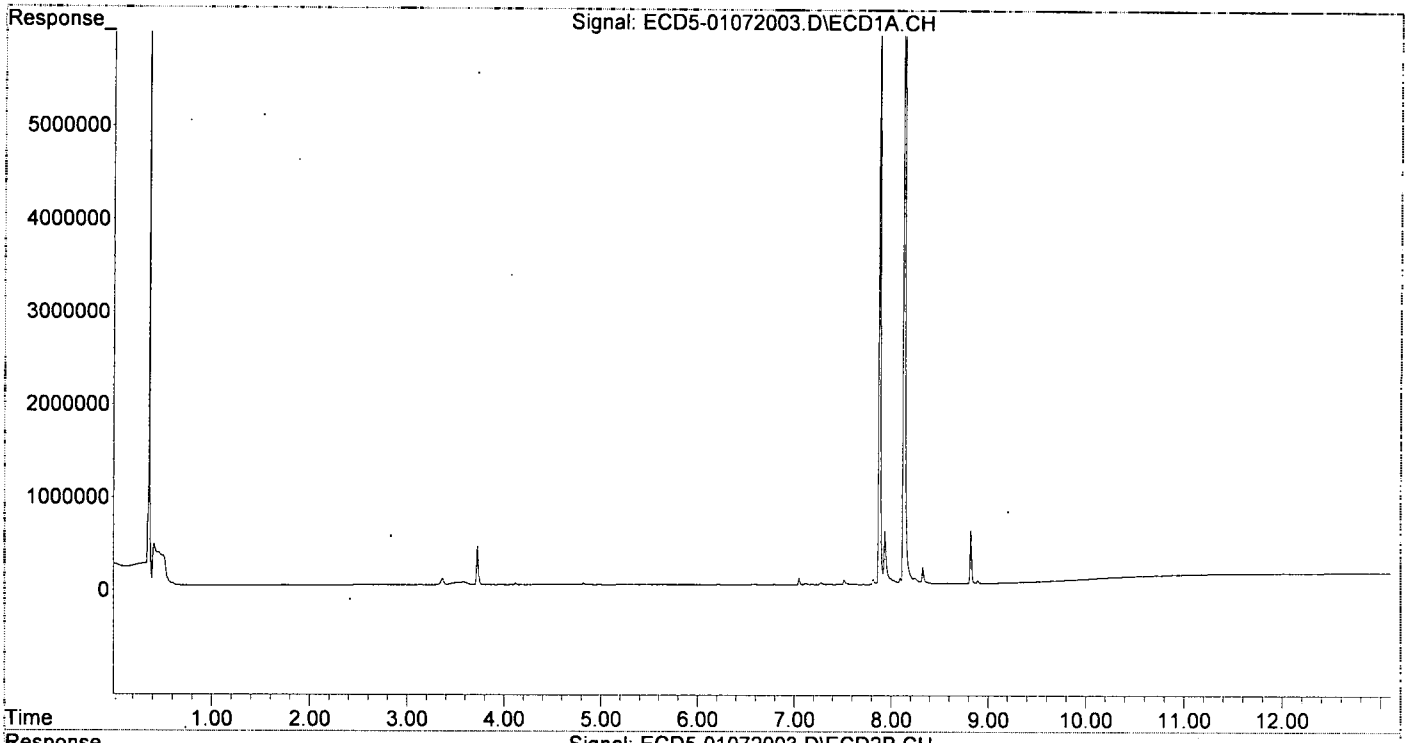
(f)=RT Delta > 1/2 Window (m)=manual int.

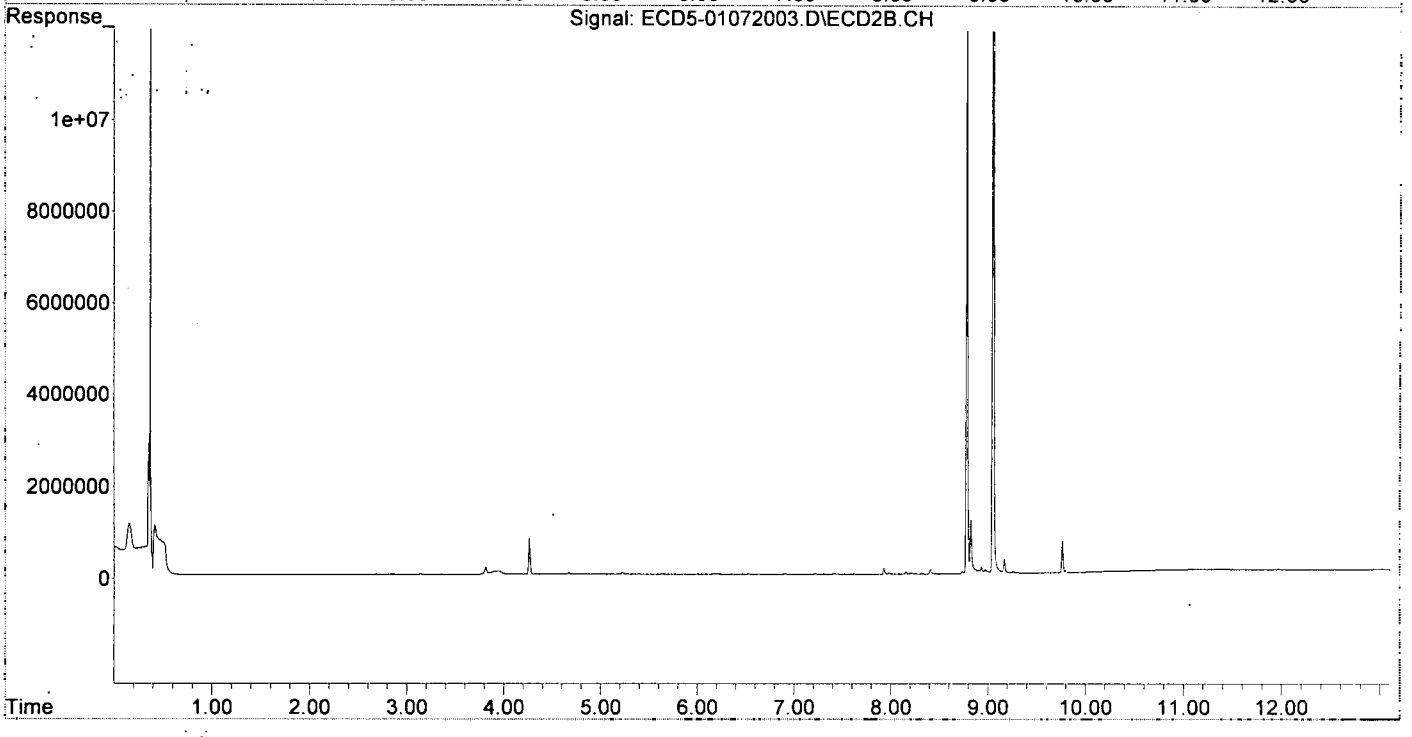
MJB 1/7/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2020-01\0A07035\
Data File : ECD5-01072003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 11:40
Operator : MJB
Sample : 0A07035-BKD1
Misc : A20A019
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: Jan 07 15:21:02 2020
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_191217RT2.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 11:57
Operator : MJB
Sample : 0A07035-CCV1
Misc : A19K133, 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: Jan 07 15:26:51 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/7/20

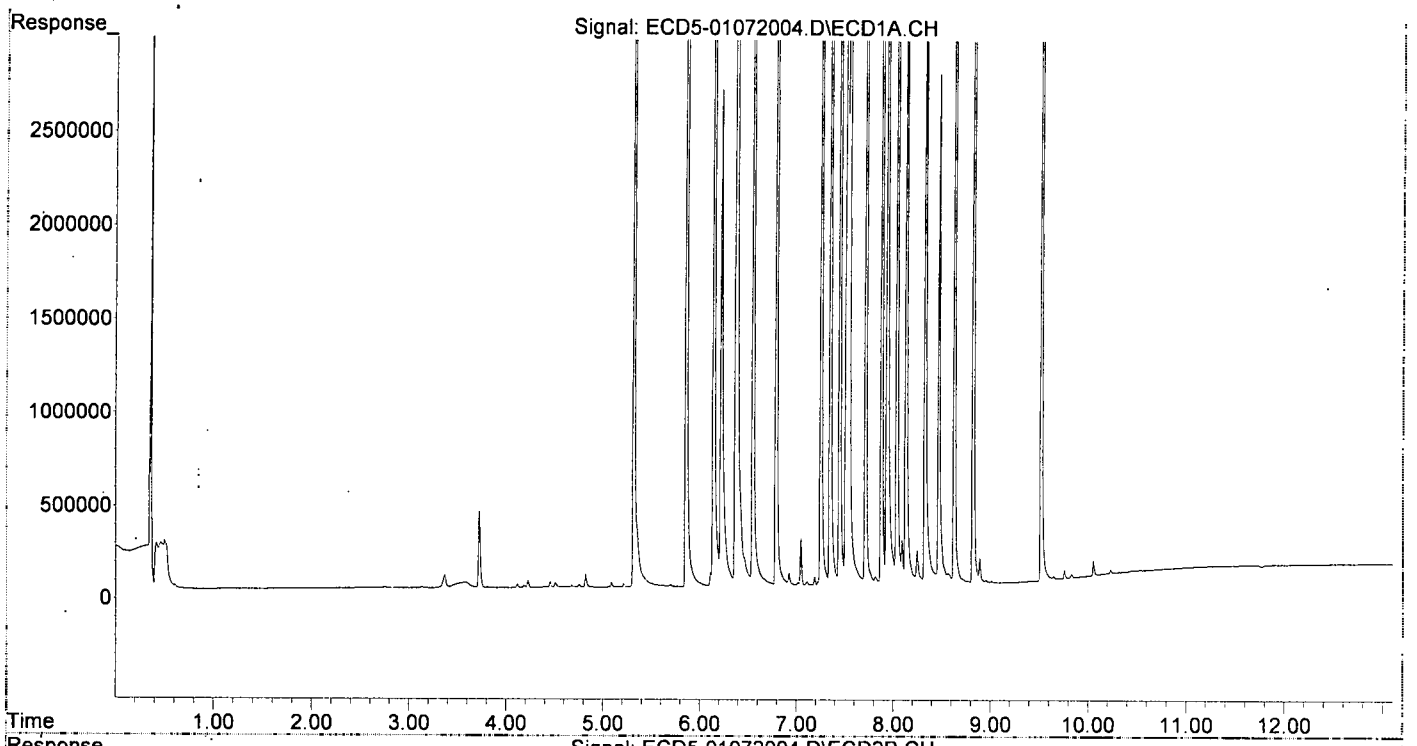
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.319	6.039	7851572	14671065	44.018	49.419	
22)	S	DCBP (S)	9.522	10.633	6447460	8559192	47.796	50.265	
		Target Compounds							
2)		a-BHC	5.858	6.648	11708297	22347258	48.772	56.157	
3)		g-BHC	6.142	6.968	9254994	18924995	45.510	55.889	
4)		b-BHC	6.221	7.031	2632447	6695605	37.128	48.315	
5)		Heptachlor	6.549	7.345	9684672	18447295	52.674	61.658	
6)		d-BHC	6.373	7.289	5627323	16192252	37.936	52.420	
7)		Aldrin	6.790	7.613	9619438	17508358	50.658	56.428	
8)		Heptachlo...	7.253	8.052	8710067	15614445	48.480	54.523	
9)		trans-Chl...	7.348	8.193	8766460	16373401	48.624	56.133	
10)		cis-Chlor...	7.445	8.301	8773460	15868492	51.272	56.542	
11)		Endosulfa...	7.542	8.352	8722353	14354319	49.631	54.612	
12)		4,4'-DDE	7.513	8.406	6845104	14742836	44.554	52.939	
13)		Dieldrin	7.714	8.554	9878205	16973020	50.327	57.139	
14)		Endrin	7.878	8.784	8215963	13649603	53.776	61.470	
15)		4,4'-DDD	7.935	8.824	5943638	12370943	46.459	54.723	
16)		Endosulfa...	8.036	8.931	7373189	13323784	48.257	56.278	
17)		4,4'-DDT	8.131	9.052	5829916	10630020	54.587	61.664	
18)		Endrin Al...	8.327	9.168	5813939	10935319	48.637	55.708	
19)		Endosulfa...	8.629	9.360	7104269	12375120	50.347	58.814	
20)		Methoxychlor	8.469	9.531	2722965	5286422	51.412	62.502	
21)		Endrin Ke...	8.822	9.764	8648206	13907810	52.220	59.993	
23)		Hexachlor...	3.130	0.000	7149	0	BelowCal	N.D.	
24)		Hexachlor...	5.700	6.526f	12617	6407	BelowCal	0.022	
25)		Oxychlordane	7.188	7.977	45311	15525	0.127	0.061	#
26)		2,4'-DDE	7.253	8.193	8710067	16373401	80.784	86.095	
27)		trans-Non...	7.445	8.251	8773460	79227	48.809	0.281	#
28)		2,4'-DDD	0.000	8.554	0	16973020	N.D.	100.114	#
29)		2,4'-DDT	7.817	8.784	40373	13649603	0.417	86.296	#
30)		cis-Nonac...	7.878f	8.824	8215963	12370943	39.899	38.634	
31)		Mirex	8.571	9.764	52068	13907810	0.188	83.596	#
32)		Chlordane...	7.348f	8.193	8766460	16373401	458.815	482.138	
33)		Chlordane...	7.445	8.301	8773460	15868492	389.439	549.333	#
34)		Chlordane...	8.036f	9.007	7373189	84809	1291.724	BelowCal	#
35)		Chlordane...	3.722	0.000	411312	0	NoCal	N.D.	
36)		Toxaphene...	7.445	8.554	8773460	16973020	9115.920	7173.564	
37)		Toxaphene...	7.714f	8.931f	9878205	13323784	6763.959	4498.495	
38)		Toxaphene...	8.036f	8.931	7373189	13323784	2036.563	2749.390	
39)		Toxaphene...	8.327f	9.007	5813939	84809	1706.770	3.627	#
40)		Toxaphene...	0.000	9.168f	0	10935319	N.D.	2296.912	#
41)		Toxaphene...	8.571f	9.614f	52068	41955	15.311	9.149	#
42)		Toxaphene...	3.722	0.000	411312	0	NoCal	N.D.	

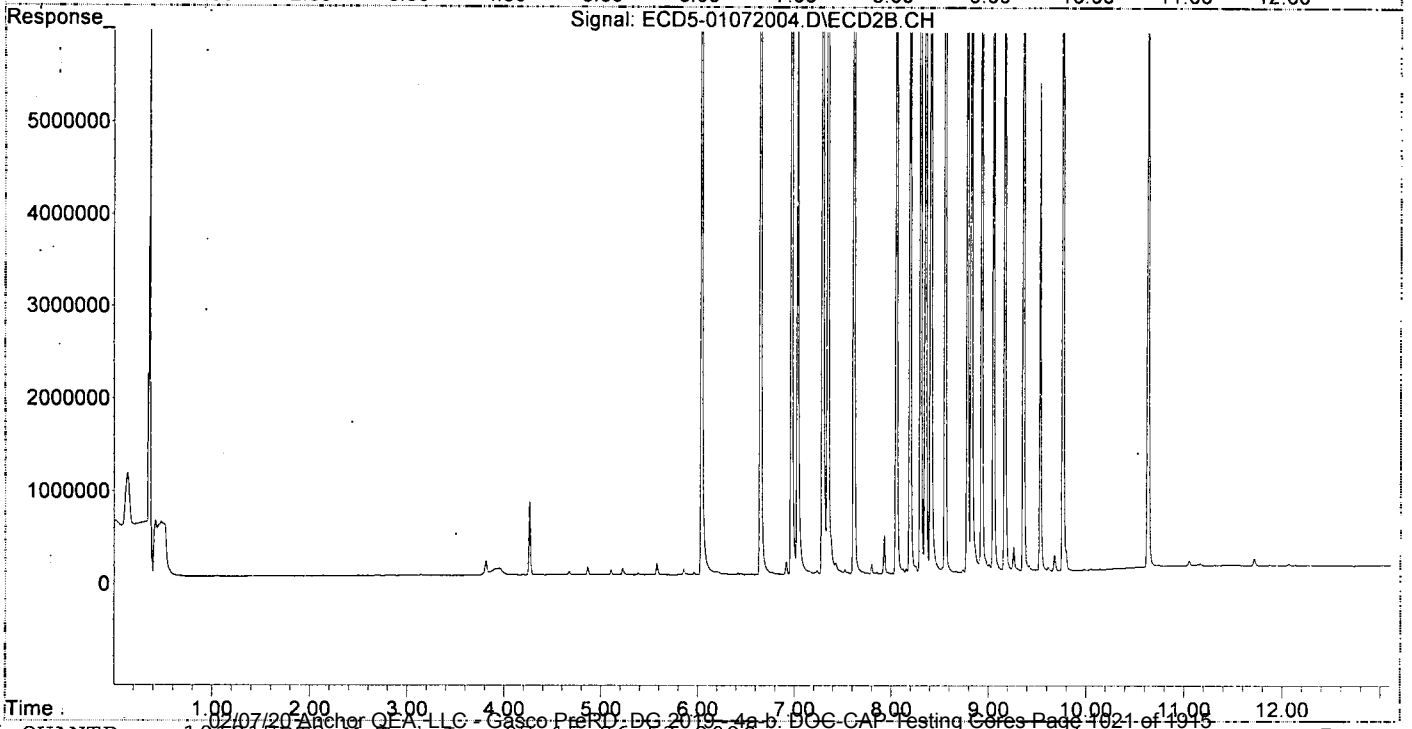
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 11:57
Operator : MJB
Sample : 0A07035-CCV1
Misc : A19K133, 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: Jan 07 15:26:51 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 12:14
Operator : MJB
Sample : 0A07035-CCB1
Misc : A19L339
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: Jan 07 15:26:58 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/7/20

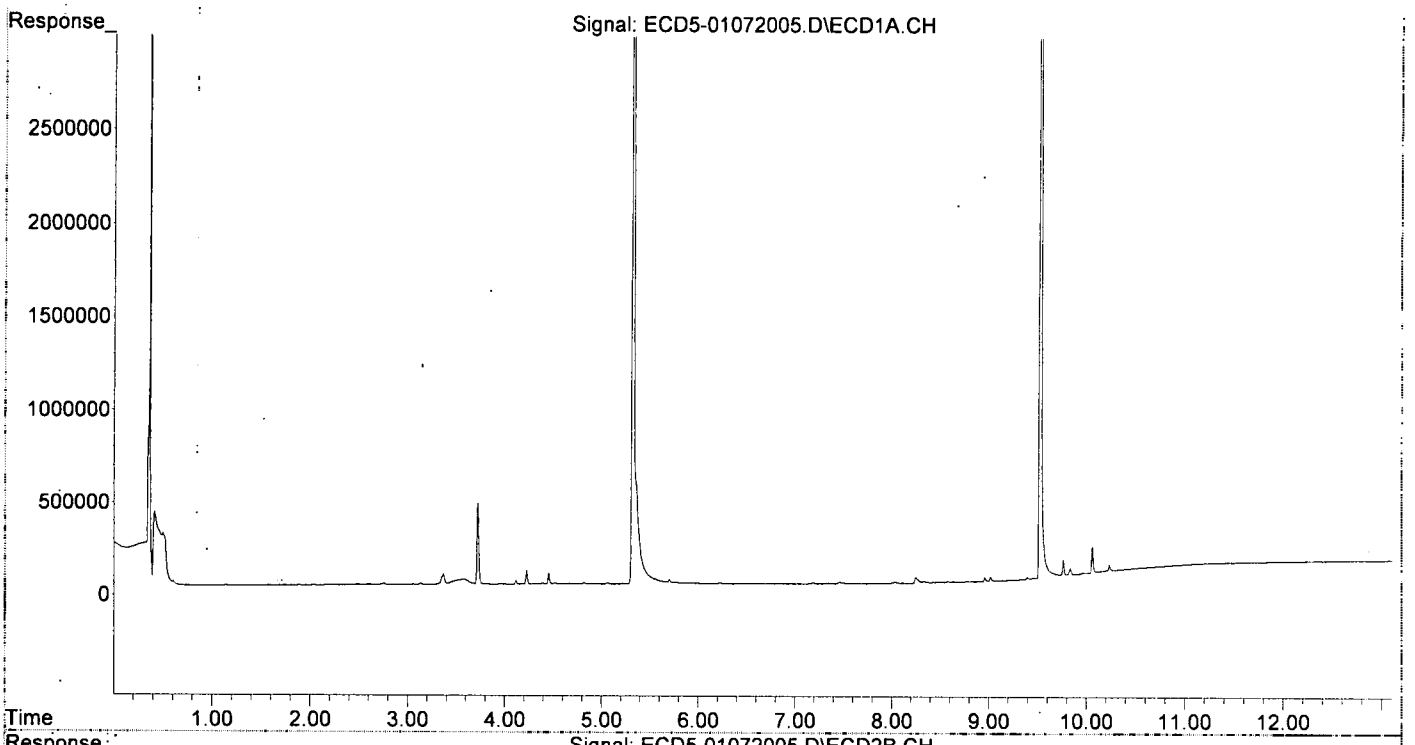
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.320	6.040	15178607	29443373	85.096	99.180	
22)	S DCBP (S)	9.523	10.634	12383733	17826865	90.758	104.691	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.217	0.000	5054	0	0.071	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	7.623	0	8772	N.D.	0.028	#
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	7.344	8.214f	3459	22019	0.019	0.075	#
10)	cis-Chlor...	7.464	0.000	7309	0	BelowCal	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	8.760f	0	4690	N.D.	BelowCal	
15)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
16)	Endosulfa...	8.032	8.912	8915	15544	0.058	0.066	
17)	4,4'-DDT	0.000	9.076f	0	3229	N.D.	0.239	#
18)	Endrin Al...	8.331	9.170	9239	8290	0.077	0.042	#
19)	Endosulfa...	8.633	9.361	4413	8032	BelowCal	BelowCal	
20)	Methoxychlor	8.468	0.000	2861	0	0.124	N.D.	#
21)	Endrin Ke...	8.827	9.765	2684	6607	BelowCal	BelowCal	
23)	Hexachlor...	3.131f	0.000	8141	0	BelowCal	N.D.	
24)	Hexachlor...	5.702	0.000	22005	0	BelowCal	N.D.	
25)	Oxychlordane	7.186	7.943f	7521	19301	BelowCal	0.076	
26)	2,4'-DDE	0.000	8.214f	0	22019	N.D.	0.116	#
27)	trans-Non...	7.464f	8.214f	7309	22019	0.041	0.078	#
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)	2,4'-DDT	0.000	8.760f	0	4690	N.D.	BelowCal	
30)	cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.	
31)	Mirex	8.579	9.765	5740	6607	BelowCal	BelowCal	
32)	Chlordane...	7.344f	8.214	3459	22019	0.181	0.648	#
33)	Chlordane...	7.464	0.000	7309	0	0.324	N.D.	#
34)	Chlordane...	8.032f	8.973	8915	67190	1.562	BelowCal	#
35)	Chlordane...	3.722	0.000	442608	0	NoCal	N.D.	
36)	Toxaphene...	7.464	0.000	7309	0	5.879	N.D.	#
37)	Toxaphene...	0.000	8.912	0	15544	N.D.	5.248	#
38)	Toxaphene...	8.032f	8.973f	8915	67190	BelowCal	13.865	
39)	Toxaphene...	8.331f	0.000	9239	0	BelowCal	N.D.	
40)	Toxaphene...	8.506f	9.170f	2481	8290	0.979	BelowCal	#
41)	Toxaphene...	8.579	9.611f	5740	9305	1.688	2.029	
42)	Toxaphene...	3.722	0.000	442608	0	NoCal	N.D.	

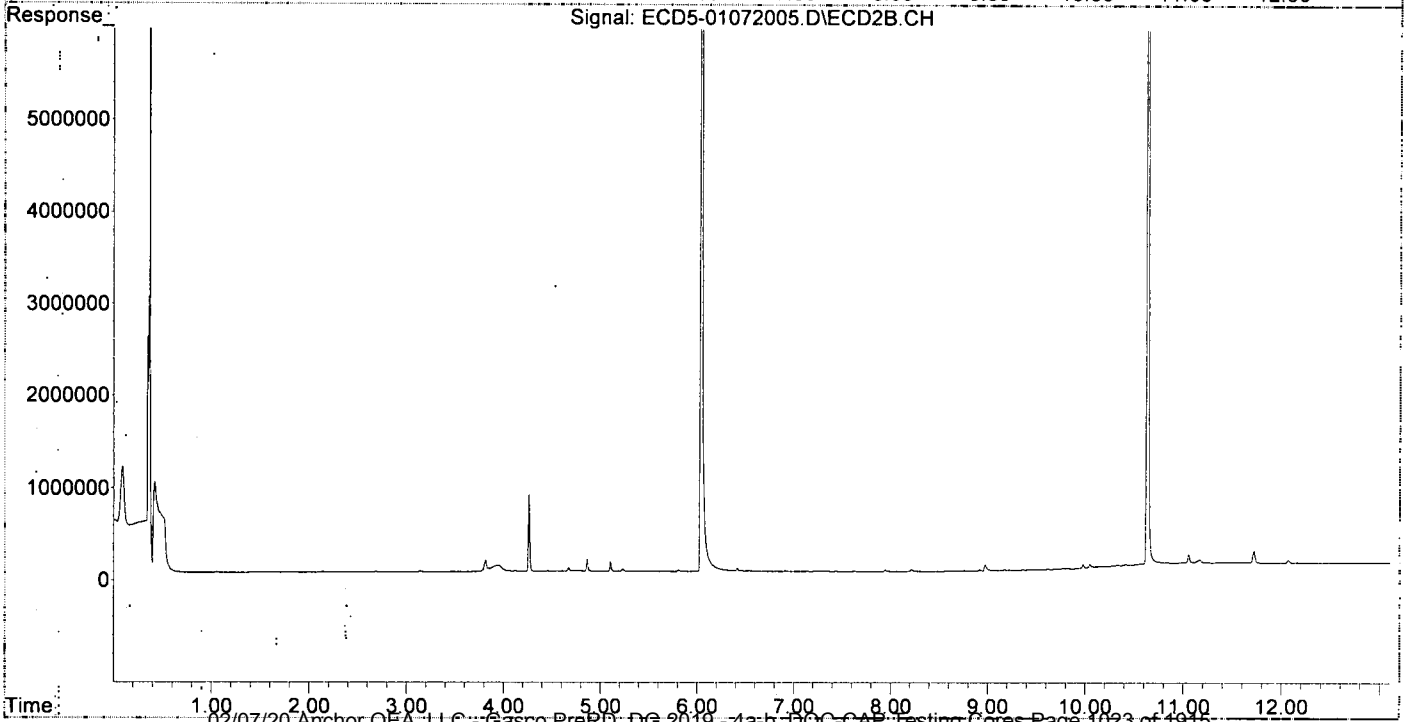
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 12:14
Operator : MJB
Sample : 0A07035-CCB1
Misc : A19L339
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: Jan 07 15:26:58 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 14:32
Operator : MJB
Sample : 0A07035-CCV2
Misc : A19K134, 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: Jan 07 15:27:54 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/7/20

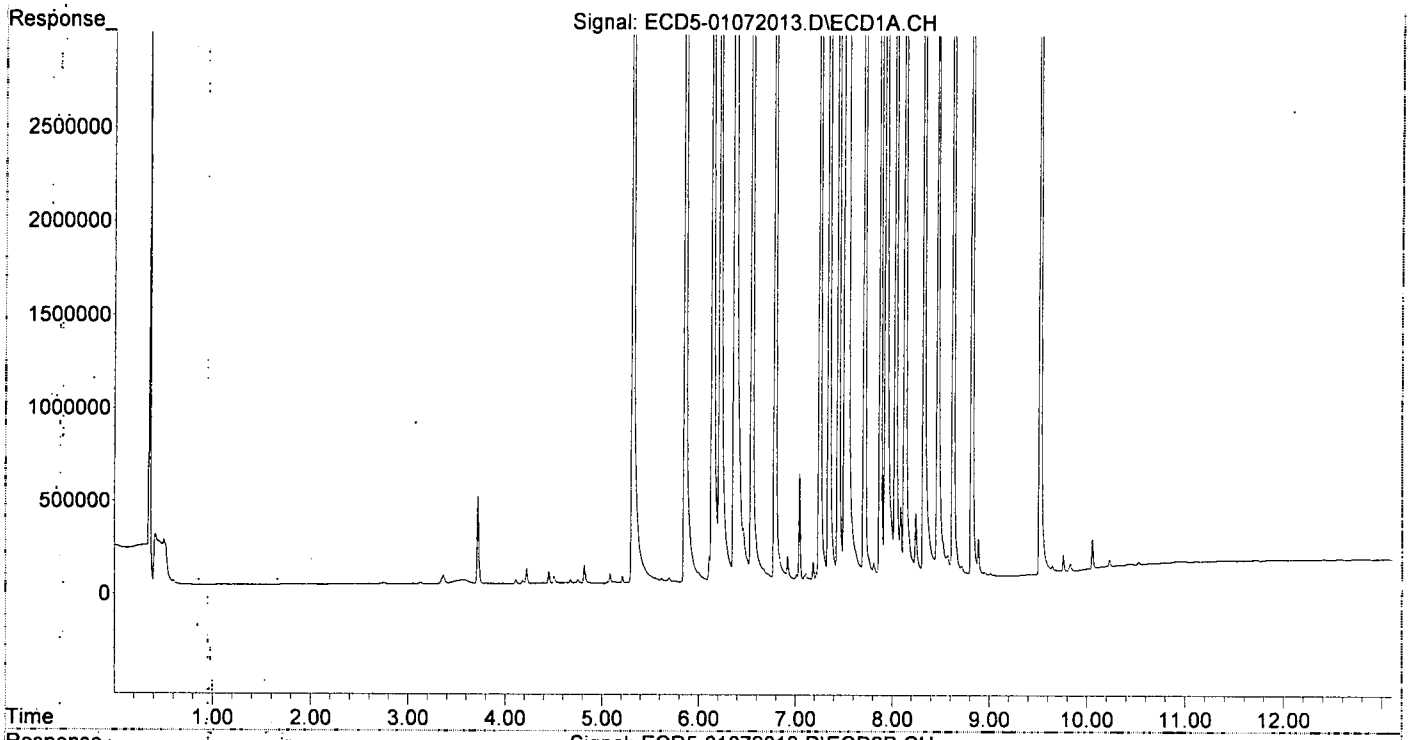
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.316	6.036	17327137	33689019	97.142	113.481	
22)	S	DCBP (S)	9.520	10.630	14001288	20044466	102.271	117.715	
		Target Compounds							
2)		a-BHC	5.856	6.645	25491416	52545359	106.186	132.041	
3)		g-BHC	6.139	6.965	21282096	43406101	104.652	128.186	
4)		b-BHC	6.216	7.028	6670708	15579170	94.083	112.418	
5)		Heptachlor	6.547	7.342	22122431	42561120	120.322	142.255	
6)		d-BHC	6.367	7.286	14058119	39912798	86.692	116.052	
7)		Aldrin	6.787	7.611	22000451	41391814	115.859	133.402	Q-41
8)		Heptachlo...	7.250	8.050	20421533	37096603	113.665	129.535	
9)		trans-Chl...	7.345	8.191	20195407	38072579	112.017	130.524	Q-41
10)		cis-Chlor...	7.442	8.299	20016484	35191816	113.167	125.394	
11)		Endosulfa...	7.539	8.350	19736147	33848036	112.302	128.778	
12)		4,4'-DDE	7.509	8.404	16344275	34787790	106.382	113.261	
13)		Dieldrin	7.711	8.552	21657072	39383794	110.337	132.583	Q-41
14)		Endrin	7.876	8.781	17715939	30817707	115.955	125.686	
15)		4,4'-DDD	7.932	8.821	13273527	29254667	97.084	117.321	
16)		Endosulfa...	8.033	8.928	16642338	30871684	108.923	130.398	
17)		4,4'-DDT	8.127	9.049	14069120	26570598	113.391	129.968	Q-41
18)		Endrin Al...	8.324	9.166	13606689	25571110	113.827	130.266	
19)		Endosulfa...	8.626	9.357	16237790	29589597	110.525	126.954	
20)		Methoxychlor	8.467	9.528	5996939	12467482	102.852	128.262	
21)		Endrin Ke...	8.820	9.761	19567136	33950010	113.114	130.489	
23)		Hexachlor...	3.126	0.000	8555	0	BelowCal	N.D.	
24)		Hexachlor...	5.697	6.523	25581	6421	BelowCal	0.022	
25)		Oxychlordane	7.185	7.973	94597	22685	0.475	0.090	#
26)		2,4'-DDE	7.250	8.191	20421533	38072579	189.404	200.194	
27)		trans-Non...	7.442	8.249	20016484	139182	111.356	0.493	#
28)		2,4'-DDD	0.000	8.552	0	39383794	N.D.	232.302	#
29)		2,4'-DDT	7.811	8.781	83306	30817707	0.861	168.000	#
30)		cis-Nonac...	7.876f	8.821	17715939	29254667	86.033	91.361	
31)		Mirex	0.000	9.761	0	33950010	N.D.	184.348	#
32)		Chlordane...	7.345f	8.191f	20195407	38072579	1056.977	1121.100	
33)		Chlordane...	7.442f	8.299f	20016484	35191816	888.499	1218.264	
34)		Chlordane...	8.033f	9.004	16642338	157140	2915.604	6.578	#
35)		Chlordane...	3.718	0.000	466779	0	NoCal	N.D.	
36)		Toxaphene...	7.442	8.552	20016484	39383794	18183.992	16645.369	
37)		Toxaphene...	7.711f	8.928	21657072	30871684	17407.452	10423.172	#
38)		Toxaphene...	8.088f	8.928	382499	30871684	114.437	6370.434	#
39)		Toxaphene...	8.324f	9.004	13606689	157140	3669.369	14.103	#
40)		Toxaphene...	0.000	9.166f	0	25571110	N.D.	4623.085	#
41)		Toxaphene...	8.626f	9.613f	16237790	102333	4774.789	22.316	#
42)		Toxaphene...	3.718	0.000	466779	0	NoCal	N.D.	

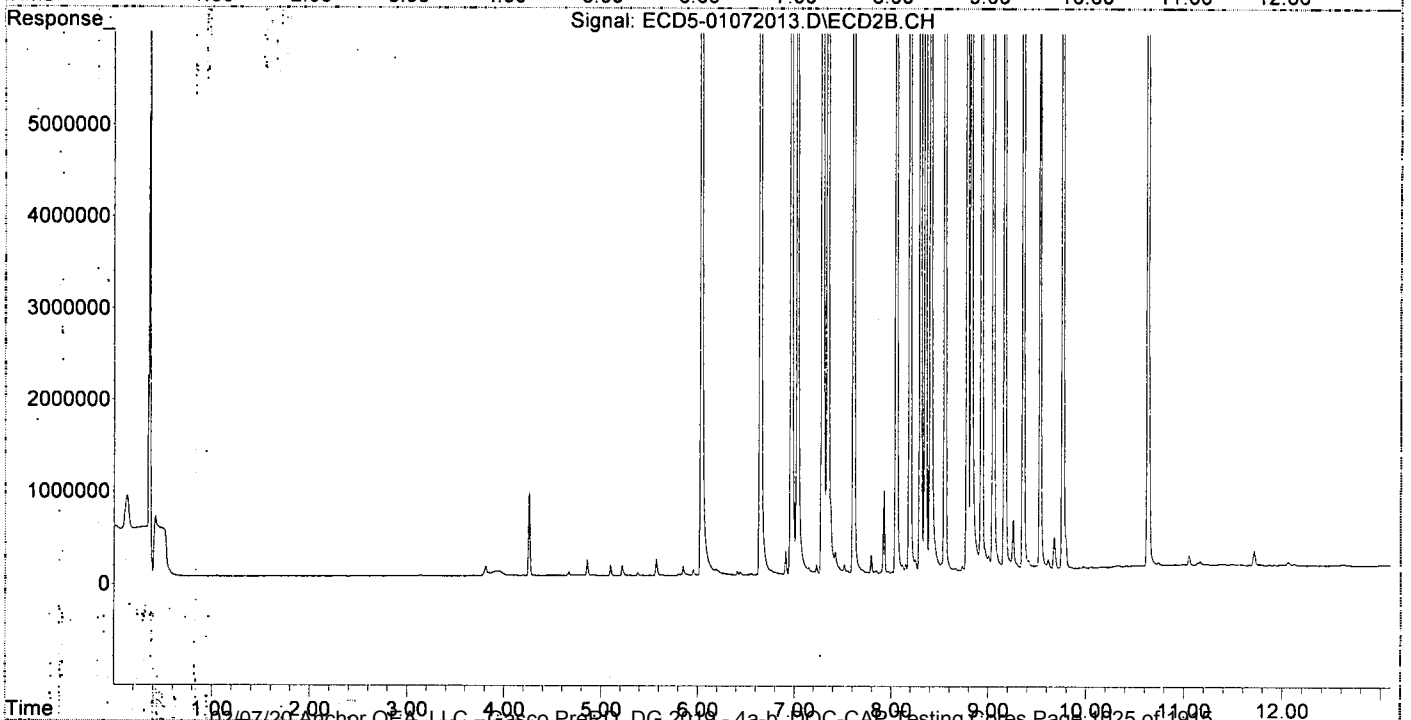
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 14:32
Operator : MJB
Sample : 0A07035-CCV2
Misc : A19K134, 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: Jan 07 15:27:54 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 14:49
Operator : MJB
Sample : 0A07035-CCV3
Misc : A19J409, 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: Jan 07 15:28:01 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/7/20

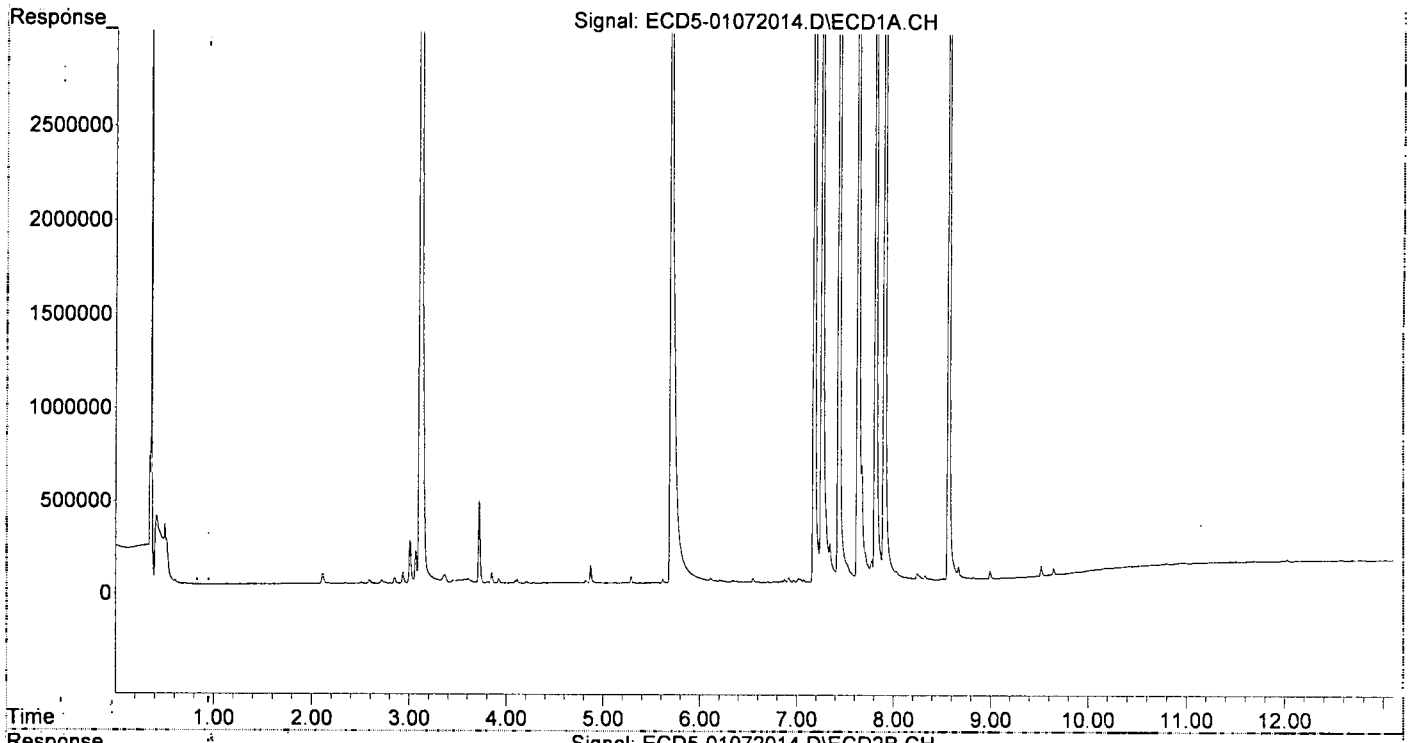
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.289f	6.042	35436	13181	0.199	0.044	#
22)	S	DCBP (S)	9.521	10.629	56219	62790	0.211	0.369	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.111f	0.000	24459	0	0.120	N.D.	#
4)		b-BHC	6.208	0.000	13426	0	0.189	N.D.	#
5)		Heptachlor	6.548	7.342	24215	44838	0.132	0.150	
6)		d-BHC	6.342f	7.289	10262	11108	0.040	BelowCal	#
7)		Aldrin	0.000	7.617	0	10424	N.D.	0.034	#
8)		Heptachlo...	7.258	8.046	8860997	127951	49.320	0.447	#
9)		trans-Chl...	7.344	8.182	206767	18940132	1.147	64.932	#
10)		cis-Chlor...	7.433	0.000	16637810	0	94.997	N.D.	#
11)		Endosulfa...	0.000	8.358	0	82460	N.D.	0.314	#
12)		4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)		Dieldrin	0.000	8.556	0	16871517	N.D.	56.797	#
14)		Endrin	7.904f	8.782	19501255	19663341	127.641	85.266	
15)		4,4'-DDD	7.904f	8.823	19501255	35854957	135.834	139.206	
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...	8.330	9.166	22868	18032	0.191	0.092	#
19)		Endosulfa...	0.000	9.357	0	12989	N.D.	BelowCal	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.820	9.755	8586	18388855	BelowCal	77.063	
23)		Hexachlor...	3.111	3.720	17772586	40890002	107.379	112.895	
24)		Hexachlor...	5.697	6.506	12848495	27268521	76.603	93.060	
25)		Oxychlordane	7.178	7.978	14776440	27057239	96.730	106.947	
26)		2,4'-DDE	7.258	8.182	8860997	18940132	82.183	99.591	
27)		trans-Non...	7.433	8.253	16637810	31312445	92.560	110.988	
28)		2,4'-DDD	7.631	8.556	7680686	16871517	78.116	99.515	
29)		2,4'-DDT	7.811	8.782	10178268	19663341	105.190	117.234	
30)		cis-Nonac...	7.904	8.823	19501255	35854957	94.703	111.974	
31)		Mirex	8.568	9.755	11214823	18388855	93.441	107.802	
32)		Chlordane...	7.344f	8.182f	206767	18940132	10.822	557.719	#
33)		Chlordane...	7.433f	8.358f	16637810	82460	738.525	2.855	#
34)		Chlordane...	0.000	8.970	0	68767	N.D.	BelowCal	
35)		Chlordane...	3.718	3.720	446723	40890002	NoCal	NoCal	
36)		Toxaphene...	7.433f	8.556	16637810	16871517	15662.246	7130.665	#
37)		Toxaphene...	7.775f	0.000	109219	0	64.826	N.D.	#
38)		Toxaphene...	0.000	8.970f	0	68767	N.D.	14.190	#
39)		Toxaphene...	8.330f	0.000	22868	0	0.879	N.D.	#
40)		Toxaphene...	0.000	9.166f	0	18032	N.D.	1.179	#
41)		Toxaphene...	8.568f	0.000	11214823	0	3297.765	N.D.	#
42)		Toxaphene...	3.718	3.720	446723	40890002	NoCal	NoCal	

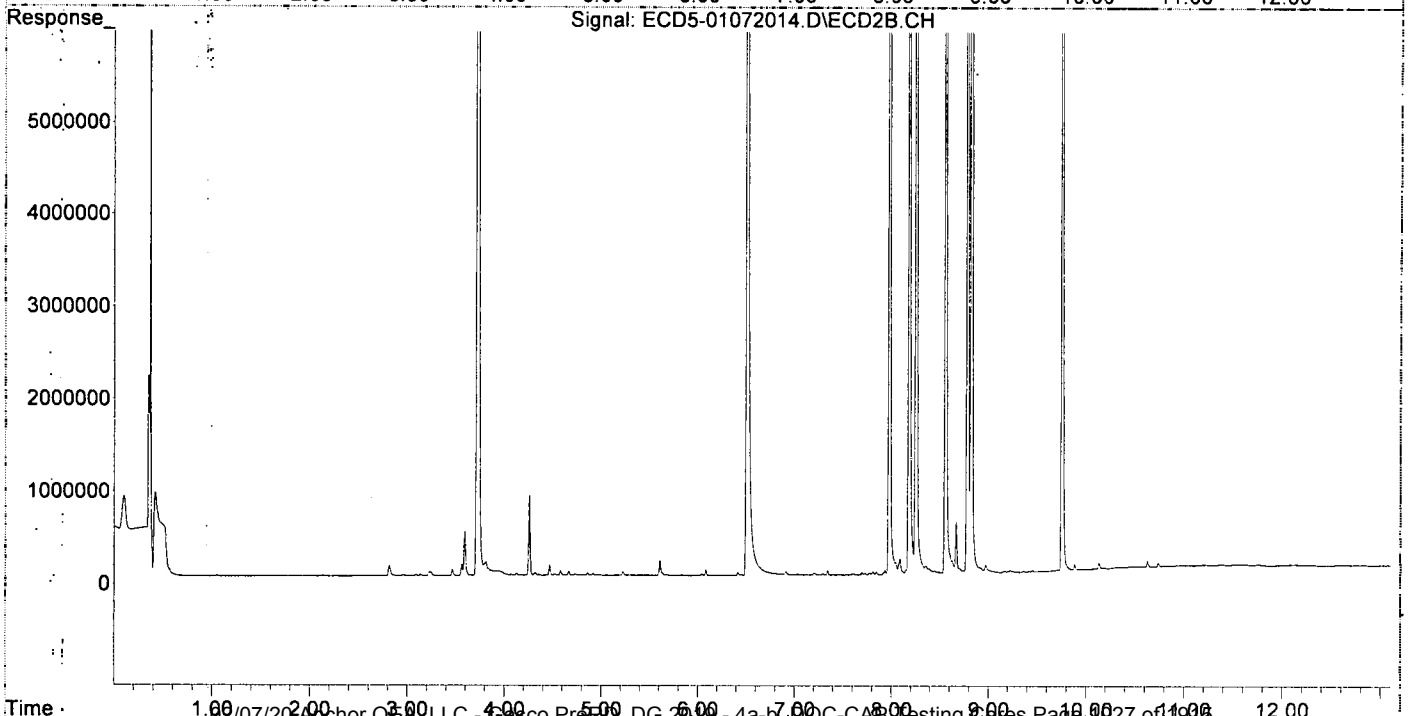
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 14:49
Operator : MJB
Sample : 0A07035-CCV3
Misc : A19J409, 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: Jan 07 15:28:01 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 15:07
Operator : MJB
Sample : 0A07035-CCB2
Misc : A19L339
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: Jan 07 15:28:07 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1720

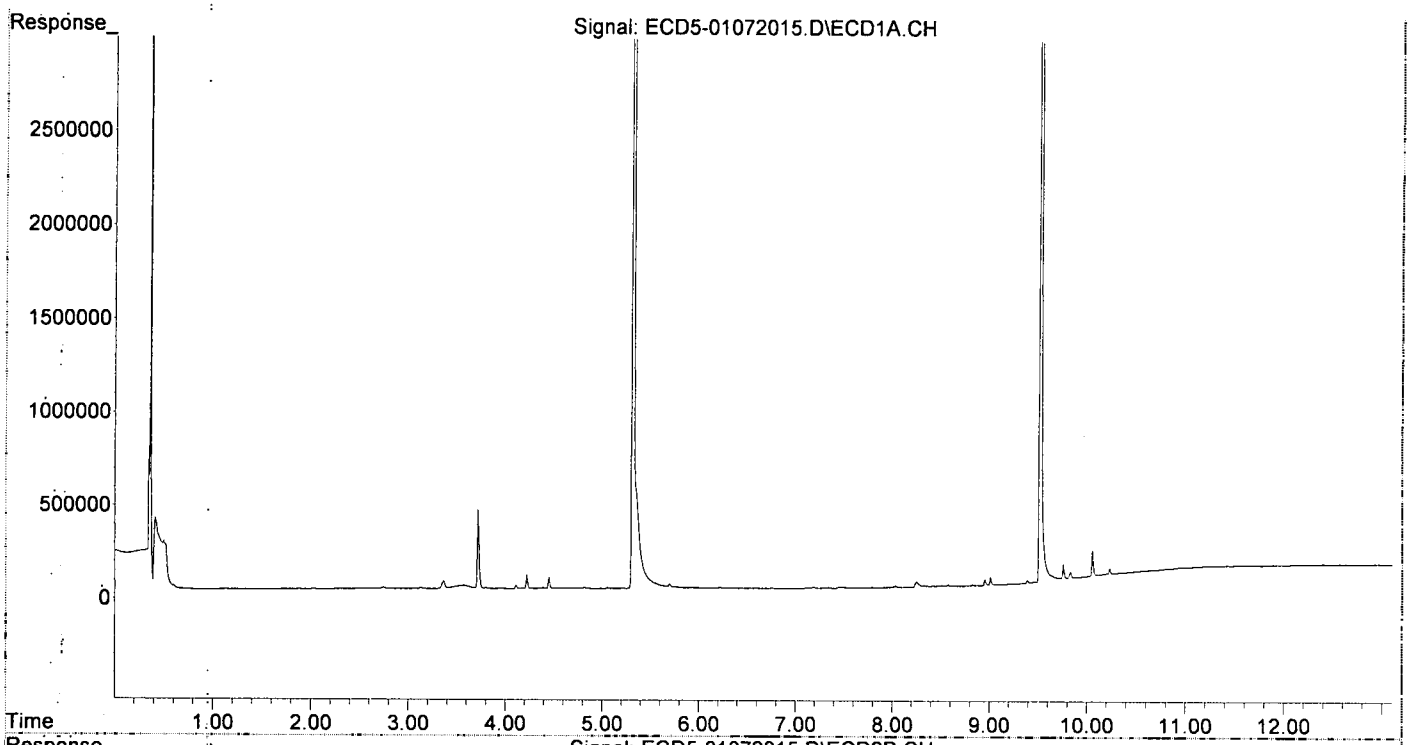
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.316	6.036	14697705	28842561	82.400	97.156	
22)	S DCBP (S)	9.521	10.630	11835569	16780288	86.838	98.545	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.215	0.000	4528	0	0.064	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	7.620	0	7882	N.D.	0.025	#
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	7.341	8.212	3927	17618	0.022	0.060	#
10)	cis-Chlor...	7.467f	0.000	5817	0	BelowCal	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	8.758f	0	3986	N.D.	BelowCal	
15)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
16)	Endosulfa...	8.031	8.909f	8066	12940	0.053	0.055	
17)	4,4'-DDT	0.000	9.074f	0	3359	N.D.	0.240	#
18)	Endrin Al...	8.328	9.167	8188	9579	0.068	0.049	
19)	Endosulfa...	8.631	9.358	4115	8010	BelowCal	BelowCal	
20)	Methoxychlor	8.470	0.000	5173	0	0.172	N.D.	#
21)	Endrin Ke...	8.828	9.759	4693	12843	BelowCal	BelowCal	
23)	Hexachlor...	3.127	0.000	7774	0	BelowCal	N.D.	
24)	Hexachlor...	5.698	6.506	22321	3143	BelowCal	0.011	
25)	Oxychlordane	7.183	7.939f	7281	17296	BelowCal	0.068	
26)	2,4'-DDE	0.000	8.212f	0	17618	N.D.	0.093	#
27)	trans-Non...	7.467f	0.000	5817	0	0.032	N.D.	#
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)	2,4'-DDT	0.000	8.758f	0	3986	N.D.	BelowCal	
30)	cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.	
31)	Mirex	8.576	9.759	8247	12843	BelowCal	BelowCal	
32)	Chlordane...	7.341f	8.212	3927	17618	0.206	0.519	#
33)	Chlordane...	7.467	0.000	5817	0	0.258	N.D.	#
34)	Chlordane...	8.031	8.971	8066	68213	1.413	BelowCal	#
35)	Chlordane...	3.718	0.000	421899	0	NoCal	N.D.	
36)	Toxaphene...	7.467	0.000	5817	0	4.067	N.D.	#
37)	Toxaphene...	0.000	8.909	0	12940	N.D.	4.369	#
38)	Toxaphene...	8.031f	8.971f	8066	68213	BelowCal	14.076	
39)	Toxaphene...	8.328f	0.000	8188	0	BelowCal	N.D.	
40)	Toxaphene...	8.512	9.199	4842	9286	1.911	BelowCal	#
41)	Toxaphene...	8.576f	9.608f	8247	11097	2.425	2.420	
42)	Toxaphene...	3.718	0.000	421899	0	NoCal	N.D.	

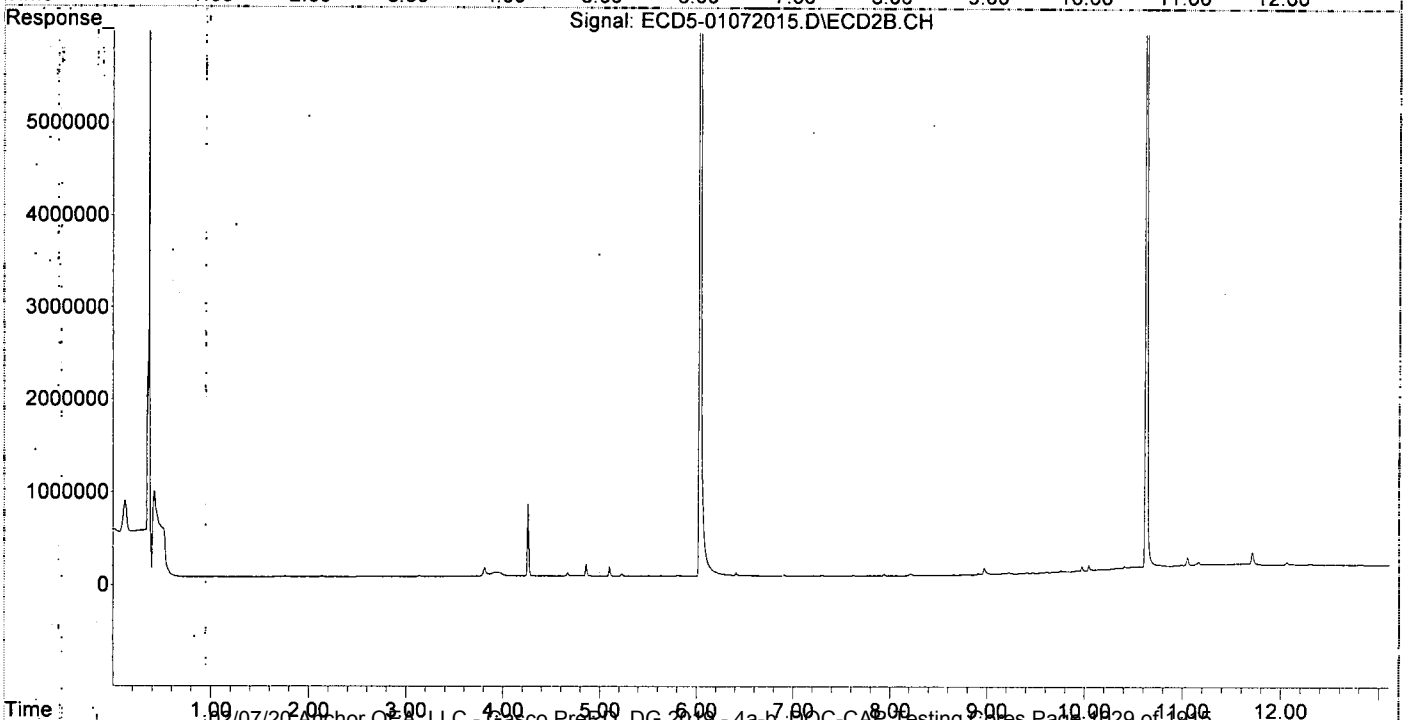
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 15:07
Operator : MJB
Sample : 0A07035-CCB2
Misc : A19L339
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: Jan 07 15:28:07 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 15:24
Operator : MJB
Sample : A9J0514-38RE1(2)
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:05:35 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

R-04

MJB 1/7/20

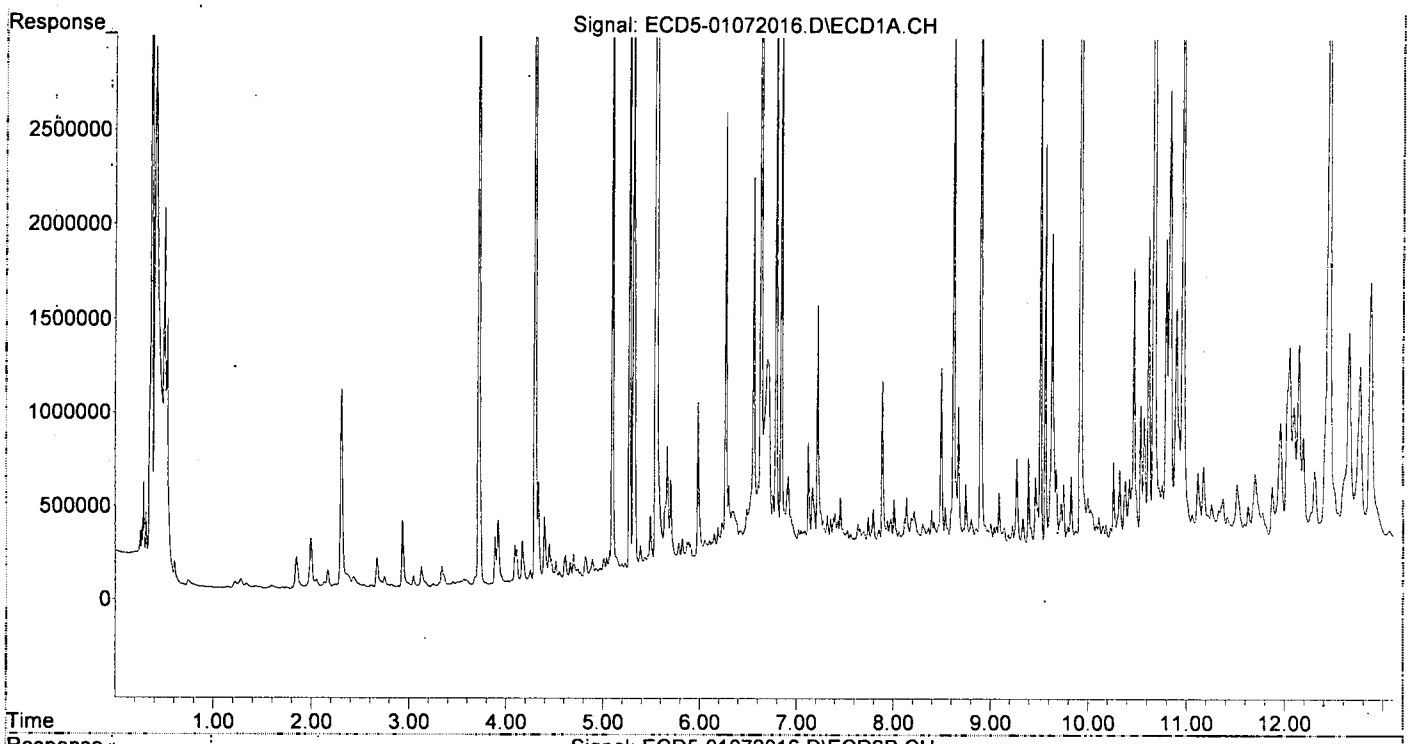
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.317	6.036	3269164	5535914	18.328	18.648	
22)	S DCBP (S)	9.516	10.629	3283841	4829581	24.422	28.363	
	Target Compounds							
2)	a-BHC	5.870	6.644	168261	481414	0.701	1.210	#
3)	g-BHC	6.152	6.938f	203178	77562113	0.999	229.054	#
4)	b-BHC	6.233	7.049	260299	2215553	3.671	15.987	#
5)	Heptachlor	6.561	7.349	2089248	581688	11.363	1.944	#
6)	d-BHC	6.346f	7.305	316703	662635	2.260	2.313	
7)	Aldrin	6.792	7.604	3740004	609558	19.696	1.965	#
8)	Heptachlo...	7.277f	8.047	240649	551293	1.339	1.925	#
9)	trans-Chl...	7.355	8.194	246774	581984	1.369	1.995	#
10)	cis-Chlor...	7.457	8.321	355510	533038	1.958	1.899	
11)	Endosulfa...	7.528	8.321f	180944	533038	1.030	2.028	#
12)	4,4'-DDE	7.521	8.399	167516	655063	1.090m	2.522m	#
13)	Dieldrin	7.697	8.531f	169226	1818732	0.862	6.123	#
14)	Endrin	7.890	8.788	965555	332174	6.320	1.595	#
15)	4,4'-DDD	7.940	8.818	218374	304684	1.652	1.324	
16)	Endosulfa...	8.011f	8.903f	330071	545186	2.160	2.303	
17)	4,4'-DDT	8.139	9.058	340840	437735	3.682	3.219	
18)	Endrin Al...	8.306f	9.175	192415	339303	1.610	1.729	
19)	Endosulfa...	8.625	9.371	4170745	1273370	29.893	6.363	#
20)	Methoxychlor	8.497f	9.558f	1023242	1311878	20.592	17.360	
21)	Endrin Ke...	8.805	9.752	204312	637646	1.055	2.861	#
23)	Hexachlor...	3.129	3.696f	108573	246915	0.509	0.682	
24)	Hexachlor...	5.703	6.489	497032	303924	3.024	1.037	#
25)	Oxychlordane	7.167	7.967	416312	1243479	2.745	4.915	#
26)	2,4'-DDE	7.249	8.194	287954	581984	2.671m	3.060	
27)	trans-Non...	7.431	8.250	235329	464156	1.309	1.645	
28)	2,4'-DDD	7.636	8.547	214030	456641	2.177	2.693m	
29)	2,4'-DDT	7.801	8.788	237820	332174	2.458m	2.423	
30)	cis-Nonac...	7.890	8.818	965555	304684	4.689	0.952	#
31)	Mirex	8.539f	9.752	273201	637646	2.070	3.840	#
32)	Chlordane...	7.355	8.194	246774	581984	12.916	17.137	
33)	Chlordane...	7.457	8.321	355510	533038	15.780	18.453	
34)	Chlordane...	8.011	8.984	330071	301071	57.826	25.166	#
35)	Chlordane...	3.719	3.696	4386052	246915	NoCal	NoCal	
36)	Toxaphene...	7.457	8.531	355510	1818732	425.629	768.678	#
37)	Toxaphene...	7.743	8.903	243837	545186	149.368	184.070	
38)	Toxaphene...	8.062	8.959	160052	332681	46.275	68.649	#
39)	Toxaphene...	8.306	9.018	192415	248482	54.953	27.296	#
40)	Toxaphene...	8.539	9.175	273201	339303	107.831	81.118	
41)	Toxaphene...	8.625f	9.582	4170745	635937	1226.425	138.679	#
42)	Toxaphene...	3.719	3.696	4386052	246915	NoCal	NoCal	

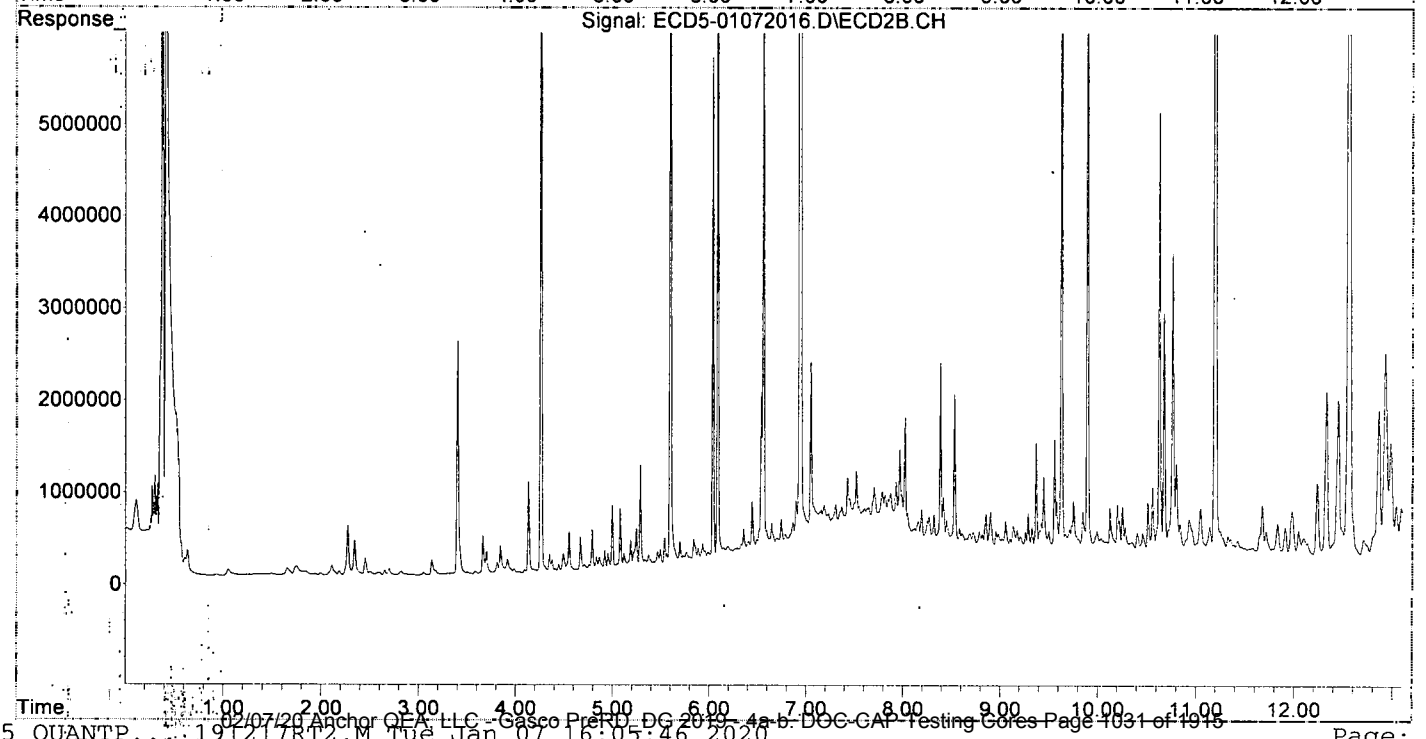
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 15:24
Operator : MJB
Sample : A9J0514-38RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:05:35 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

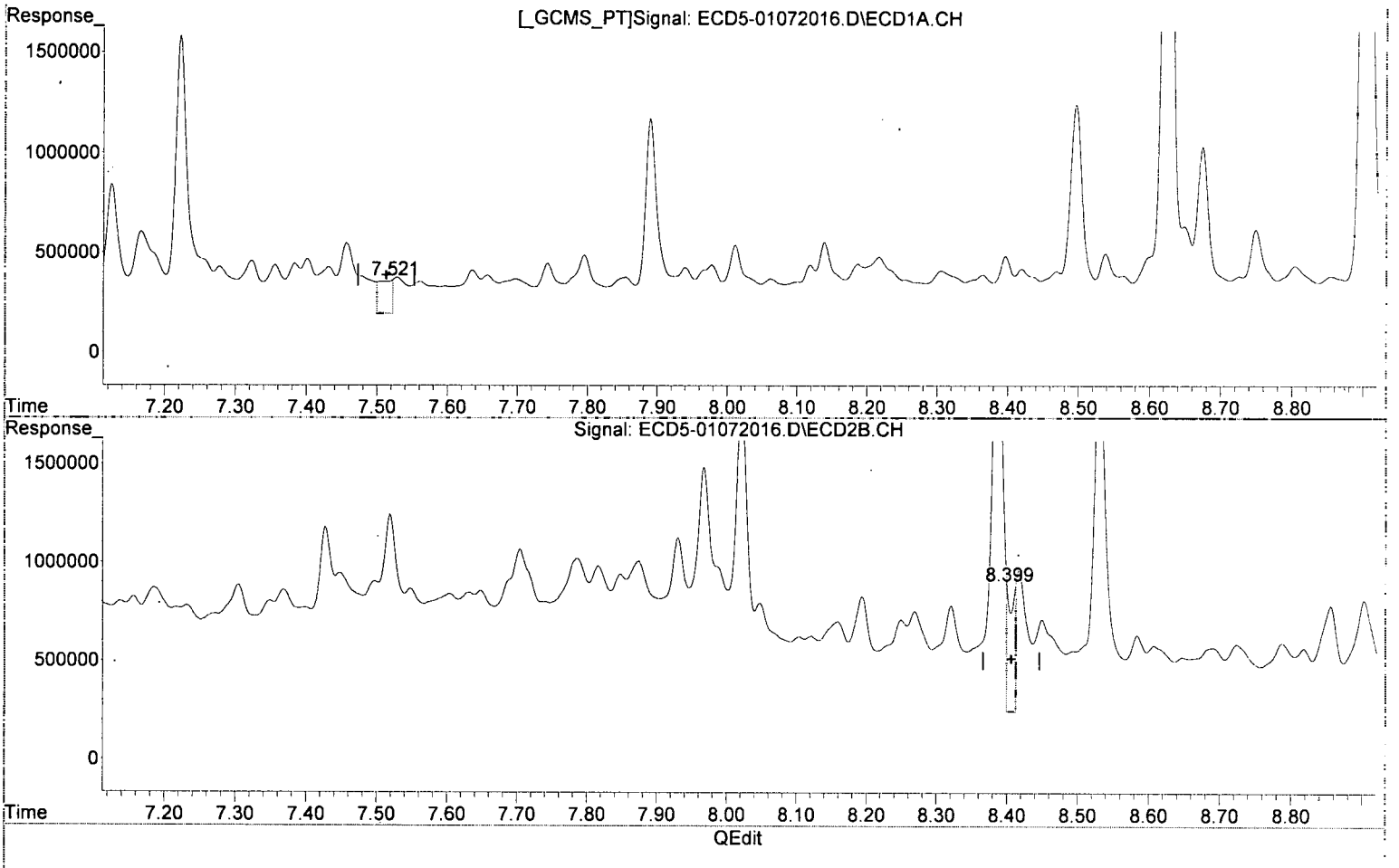




Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 15:24
Operator : MJB
Sample : A9J0514-38RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 15:59:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.521min 1.090 ng/mL (m) ~~MJB MRL~~ Q-2.1

response 167516

MJB 1/8/20

MJB 1/7/20

(12) 4,4'-DDE #2

8.399min 2.522 ng/mL (m) 2 of R-02

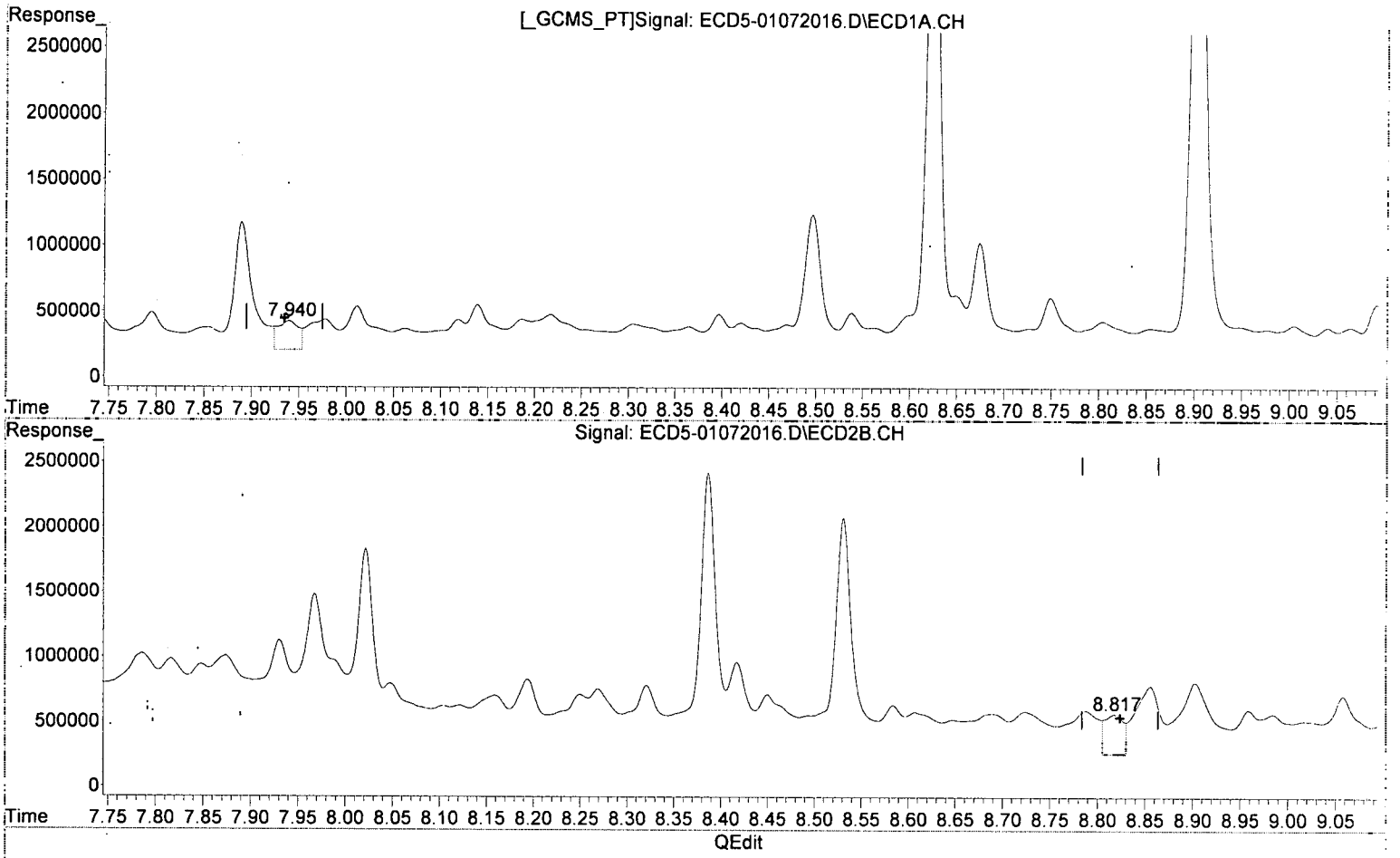
response 655063

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 15:24
Operator : MJB
Sample : A9J0514-38RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 15:59:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.940min 1.652 ng/mL

response 218374

MB 1/7/20

(15) 4,4'-DDD #2

8.818min 1.324 ng/mL MDL-MRL

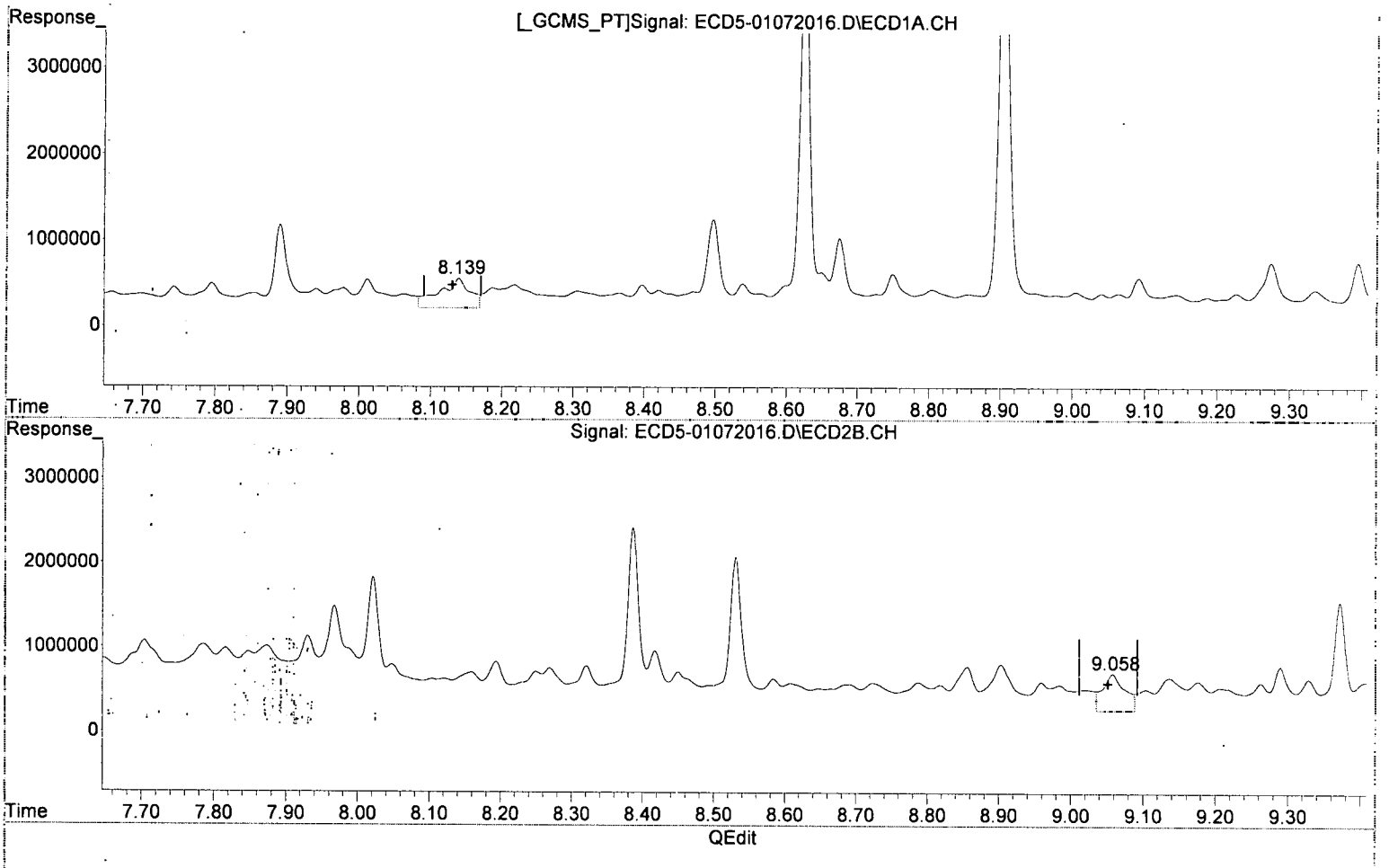
response 304684

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 15:24
Operator : MJB
Sample : A9J0514-38RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 15:59:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.139min 3.682 ng/mL

response 340840

MJB 1/7/20

(17) 4,4'-DDT #2

9.058min 3.219 ng/mL R .02

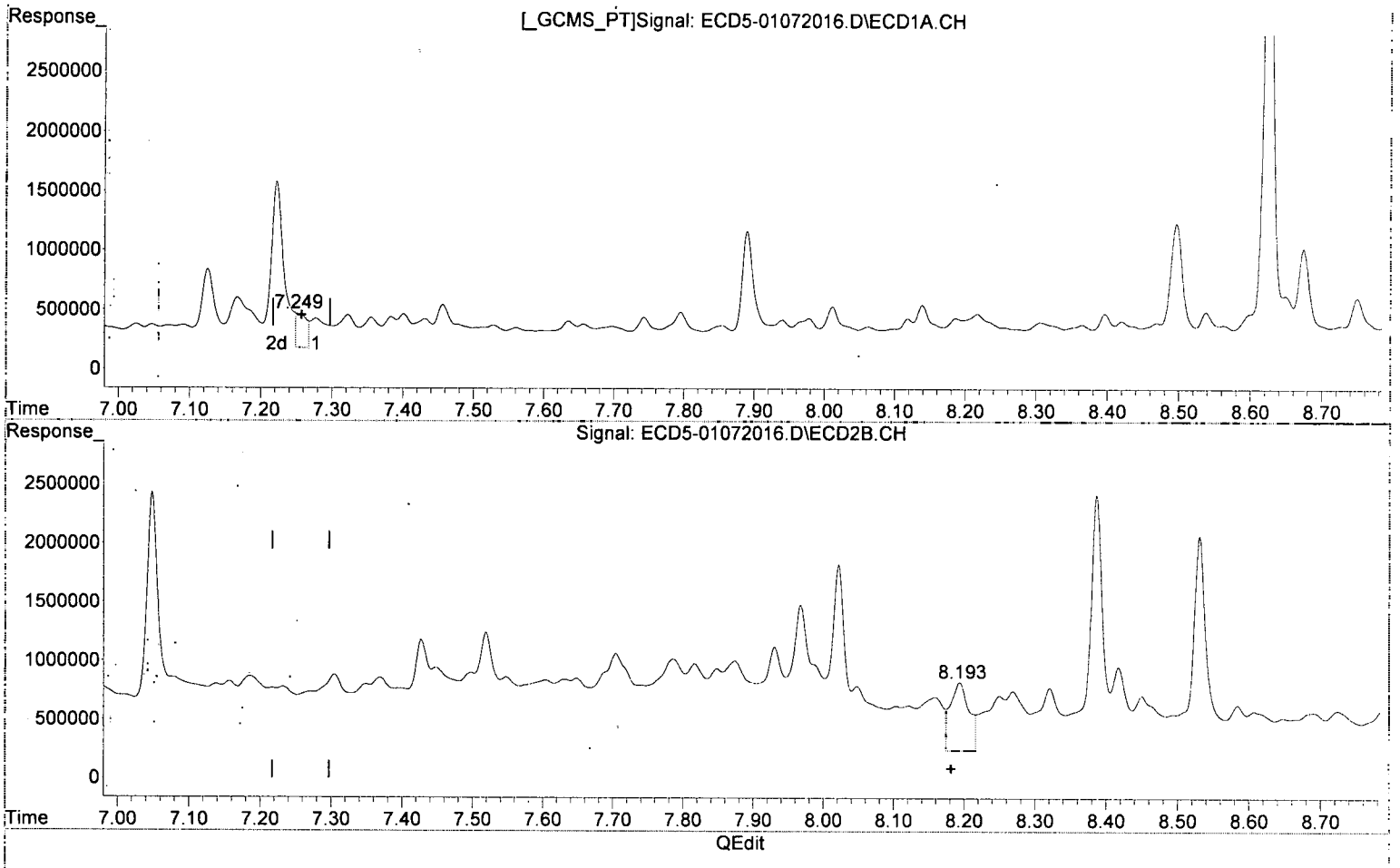
response 437735

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 15:24
Operator : MJB
Sample : A9J0514-38RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 15:59:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.249min 2.671 ng/mL (m) ~~R.02~~ Q.31

response 287954

MJB 1/8/20

WK 1/7/20

(26) 2,4'-DDE #2

8.194min 3.060 ng/mL ~~R.02~~

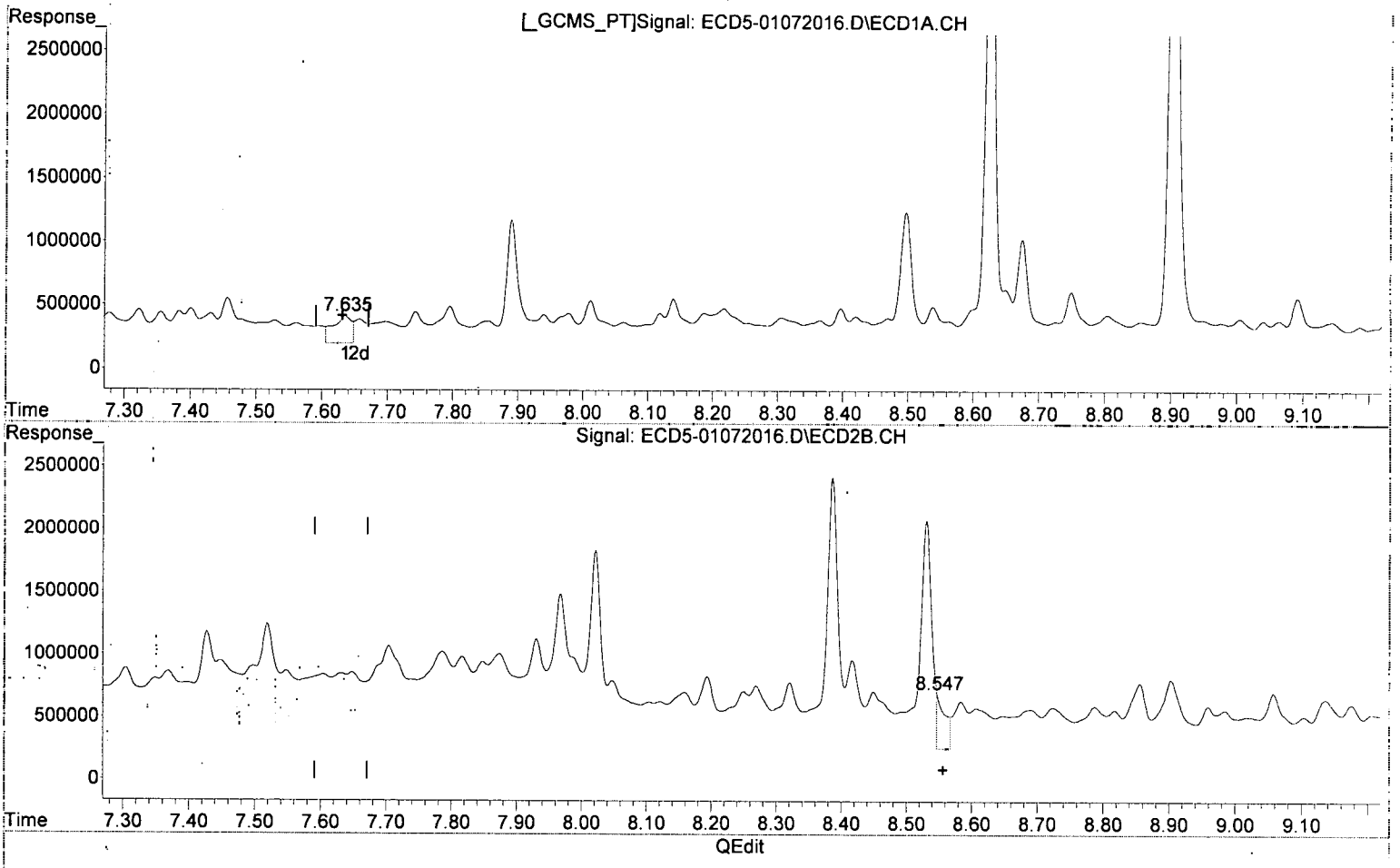
response 581984

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 15:24
Operator : MJB
Sample : A9J0514-38RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 15:59:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.636min 2.177 ng/mL Q-31

response 214030

WB 1/7/20

(28) 2,4'-DDD #2

8.547min 2.693 ng/mL (m) R-02

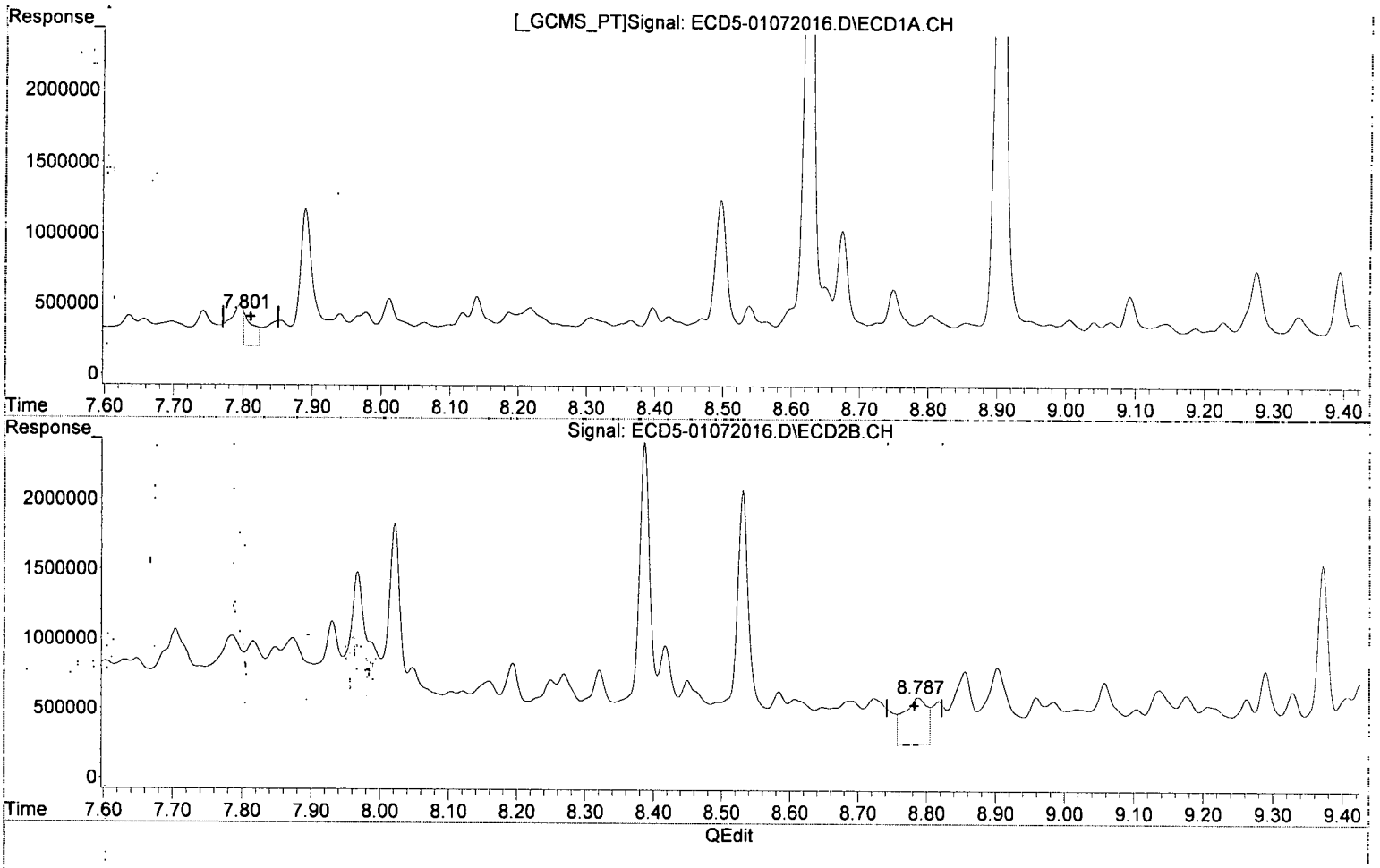
response 456641

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 15:24
Operator : MJB
Sample : A9J0514-38RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 15:59:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.801min 2.458 ng/mL (m)

response 237820

MJB 1/7/20

(29) 2,4'-DDT #2

8.788min 2.423 ng/mL R.02

response 332174

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 15:24
Operator : MJB
Sample : A9J0514-38RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 15:59:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
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)	5.317	6.036	3269164	5535914	18.328	18.648	
22)	S	DCBP (S)	9.516	10.629	3283841	4829581	24.422	28.363	
		Target Compounds							
2)		a-BHC	5.870	6.644	168261	481414	0.701	1.210	#
3)		g-BHC	6.152	6.938f	203178	77562113	0.999	229.054	#
4)		b-BHC	6.233	7.049	260299	2215553	3.671	15.987	#
5)		Heptachlor	6.561	7.349	2089248	581688	11.363	1.944	#
6)		d-BHC	6.346f	7.305	316703	662635	2.260	2.313	
7)		Aldrin	6.792	7.604	3740004	609558	19.696	1.965	#
8)		Heptachlo...	7.277f	8.047	240649	551293	1.339	1.925	#
9)		trans-Chl...	7.355	8.194	246774	581984	1.369	1.995	#
10)		cis-Chlor...	7.457	8.321	355510	533038	1.958	1.899	
11)		Endosulfa...	7.528	8.321f	180944	533038	1.030	2.028	#
12)		4,4'-DDE	7.528	8.417	180944	708382	1.178	2.730	#
13)		Dieldrin	7.697	8.531f	169226	1818732	0.862	6.123	#
14)		Endrin	7.890	8.788	965555	332174	6.320	1.595	#
15)		4,4'-DDD	7.940	8.818	218374	304684	1.652	1.324	
16)		Endosulfa...	8.011f	8.903f	330071	545186	2.160	2.303	
17)		4,4'-DDT	8.139	9.058	340840	437735	3.682	3.219	
18)		Endrin Al...	8.306f	9.175	192415	339303	1.610	1.729	
19)		Endosulfa...	8.625	9.371	4170745	1273370	29.893	6.363	#
20)		Methoxychlor	8.497f	9.558f	1023242	1311878	20.592	17.360	
21)		Endrin Ke...	8.805	9.752	204312	637646	1.055	2.861	#
23)		Hexachlor...	3.129	3.696f	108573	246915	0.509	0.682	
24)		Hexachlor...	5.703	6.489	497032	303924	3.024	1.037	#
25)		Oxychlordane	7.167	7.967	416312	1243479	2.745	4.915	#
26)		2,4'-DDE	7.277f	8.194	240649	581984	2.232	3.060	
27)		trans-Non...	7.431	8.250	235329	464156	1.309	1.645	
28)		2,4'-DDD	7.636	8.531f	214030	1818732	2.177	10.728	#
29)		2,4'-DDT	7.795	8.788	285896	332174	2.955	2.423	
30)		cis-Nonac...	7.890	8.818	965555	304684	4.689	0.952	#
31)		Mirex	8.539f	9.752	273201	637646	2.070	3.840	#
32)		Chlordane...	7.355	8.194	246774	581984	12.916	17.137	
33)		Chlordane...	7.457	8.321	355510	533038	15.780	18.453	
34)		Chlordane...	8.011	8.984	330071	301071	57.826	25.166	#
35)		Chlordane...	3.719	3.696	4386052	246915	NoCal	NoCal	
36)		Toxaphene...	7.457	8.531	355510	1818732	425.629	768.678	#
37)		Toxaphene...	7.743	8.903	243837	545186	149.368	184.070	
38)		Toxaphene...	8.062	8.959	160052	332681	46.275	68.649	#
39)		Toxaphene...	8.306	9.018	192415	248482	54.953	27.296	#
40)		Toxaphene...	8.539	9.175	273201	339303	107.831	81.118	
41)		Toxaphene...	8.625f	9.582	4170745	635937	1226.425	138.679	#
42)		Toxaphene...	3.719	3.696	4386052	246915	NoCal	NoCal	

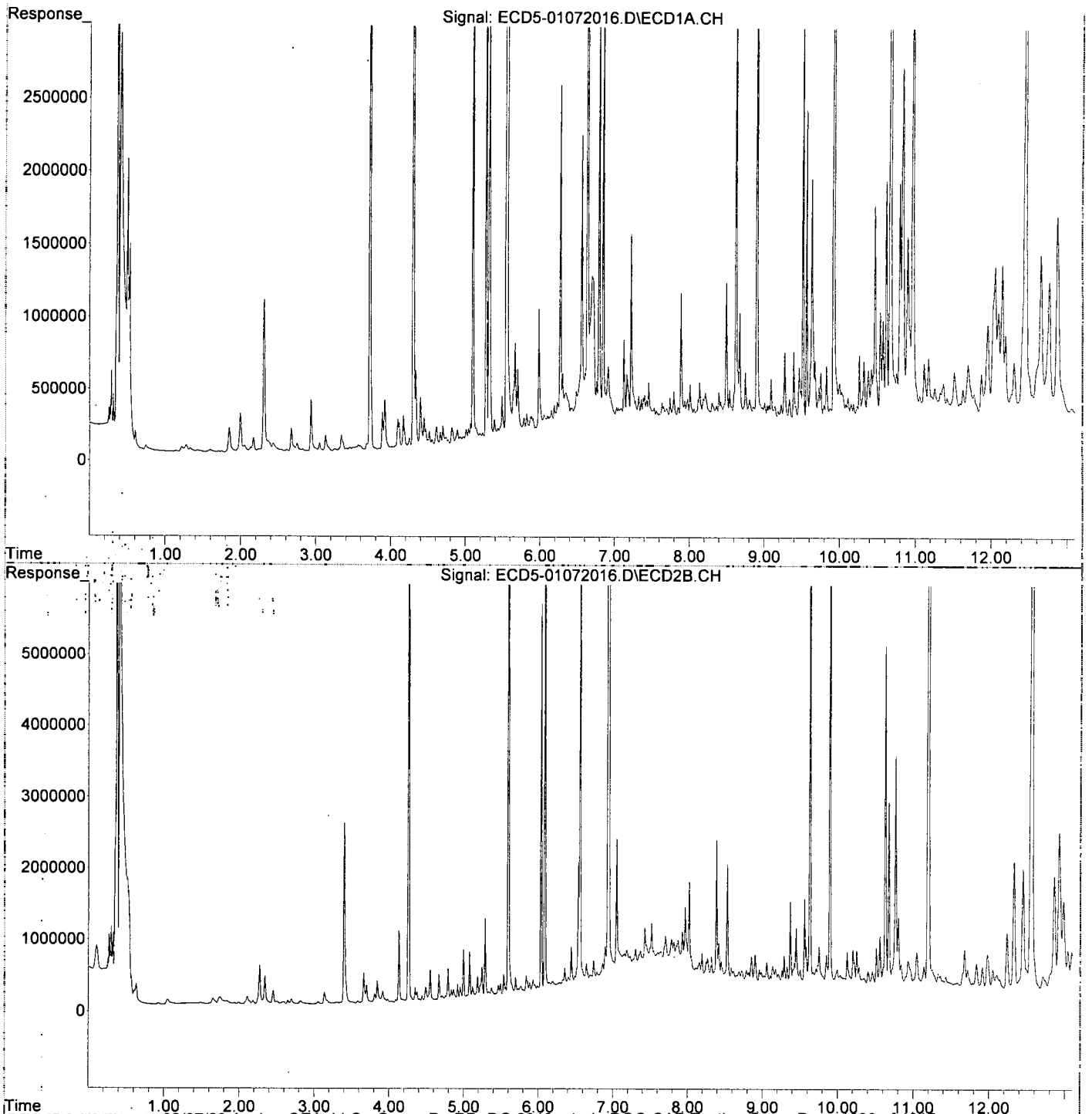
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

MT MJB 1/7/20

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 15:24
Operator : MJB
Sample : A9J0514-38RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 15:59:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:02
Operator : MJB
Sample : A9J0514-39RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:37:51 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

R.04

MJB 1/7/20

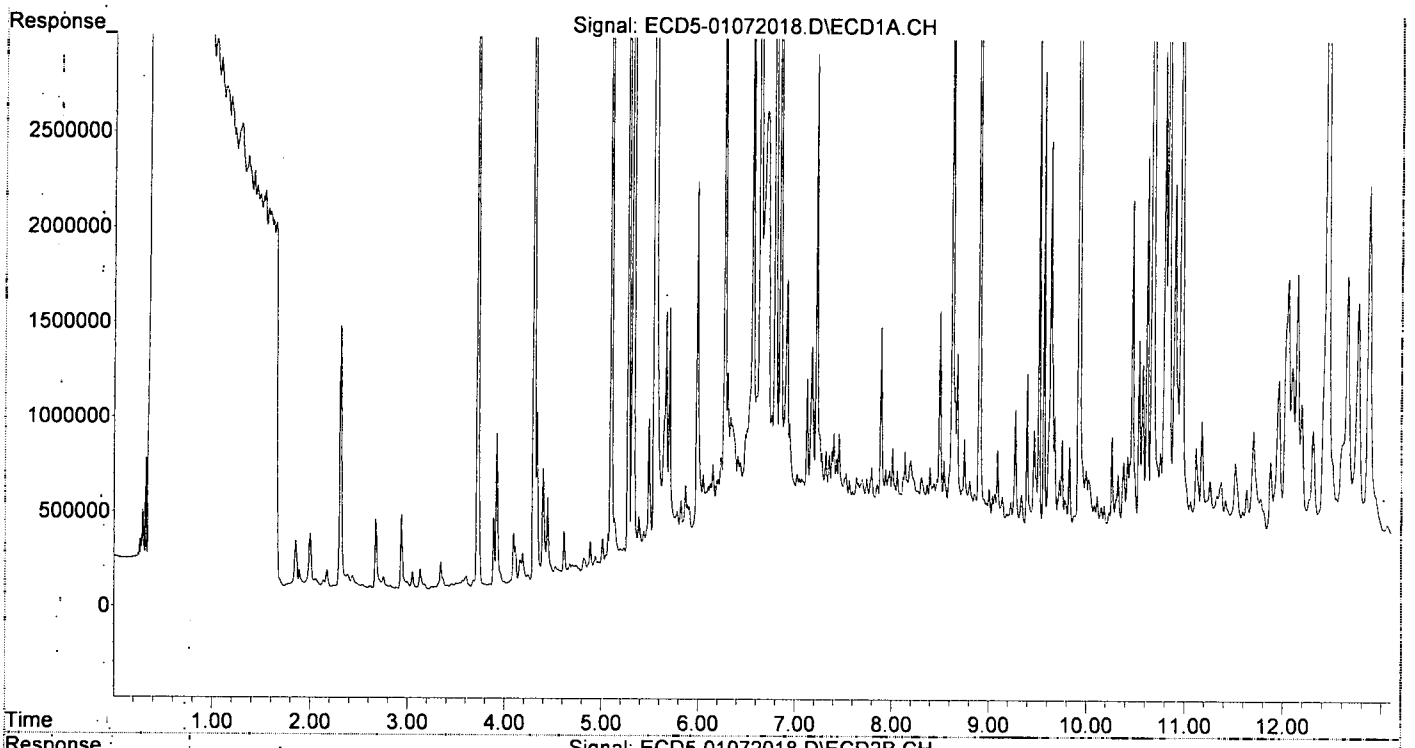
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.317	6.036	3263776	5031800	18.298m	16.950	
22)	S DCBP (S)	9.515	10.627	3058076	4287519	22.740	25.179	
	Target Compounds							
2)	a-BHC	5.869	6.644	515186	898464	2.146	2.258	
3)	g-BHC	6.152	6.939f	624506	126.6E6	3.071	373.884	#
4)	b-BHC	6.236	7.049	661858	4665813	9.335	33.668	#
5)	Heptachlor	6.560	7.348	4222506	1293336	22.966	4.323	#
6)	d-BHC	6.335f	7.301	873063	1442281	6.239	5.060	
7)	Aldrin	6.792	7.608	10552604	1401679	55.572	4.517	#
8)	Heptachlo...	7.221f	8.047	2764638	1283309	15.388	4.481	#
9)	trans-Chl...	7.355	8.194	661309	1144640	3.668	3.924	
10)	cis-Chlor...	7.456	8.321f	770383	1342224	4.456	4.783	
11)	Endosulfa...	7.528	8.321f	564746	1342224	3.213	5.107	#
12)	4,4'-DDE	7.520	8.399	537740	1413744	3.500m	5.476m	#
13)	Dieldrin	7.696	8.530f	529820	2153873	2.699	7.251	#
14)	Endrin	7.890	8.787	1325687	728435	8.677	3.562	#
15)	4,4'-DDD	7.939	8.816	581541	619390	4.671	2.849	
16)	Endosulfa...	8.059f	8.959f	571999	580580	3.744	2.452	
17)	4,4'-DDT	8.138	9.057	672714	654616	7.216	4.685	
18)	Endrin Al...	8.307	9.173	534118	611357	4.468	3.114	
19)	Endosulfa...	8.624	9.370	6396185	1556057	45.465	7.818	#
20)	Methoxychlor	8.496f	9.520	1405679	542644	27.846	7.440	#
21)	Endrin Ke...	8.804	9.751	509961	860659	2.980	3.926	
23)	Hexachlor...	3.129	3.699f	106437	324163	0.496	0.895	#
24)	Hexachlor...	5.703	6.491	1451738	697198	9.139	2.379	#
25)	Oxychlordane	7.172	7.988	1235067	1669641	8.483	6.599	
26)	2,4'-DDE	7.253	8.190	771522	1096801	7.156m	5.767m	
27)	trans-Non...	7.432	8.248	639594	946426	3.558	3.355	
28)	2,4'-DDD	7.637	8.544	541971	941566	5.512	5.554m	
29)	2,4'-DDT	7.795	8.787	589935	728435	6.097	5.387	
30)	cis-Nonac...	7.890	8.816	1325687	619390	6.438	1.934	#
31)	Mirex	8.538f	9.751	616794	860659	4.991	5.305	
32)	Chlordane...	7.383	8.194	682072	1144640	35.698	33.706	
33)	Chlordane...	7.456	8.321	770383	1342224	34.196	46.465	
34)	Chlordane...	8.010	8.982	691338	658958	121.117	71.164	#
35)	Chlordane...	3.720	3.699	5041590	324163	NoCal	NoCal	
36)	Toxaphene...	7.456	8.530	770383	2153873	917.498	910.324	
37)	Toxaphene...	7.743	8.901	532999	868461	331.582	293.218	
38)	Toxaphene...	8.059	8.959	571999	580580	172.086	119.804	
39)	Toxaphene...	8.307	9.017	534118	508466	163.056	64.624	#
40)	Toxaphene...	8.538	9.205	616794	502895	243.445	121.423	#
41)	Toxaphene...	8.624f	9.580	6396185	973867	1880.824	212.371	#
42)	Toxaphene...	3.720	3.699	5041590	324163	NoCal	NoCal	

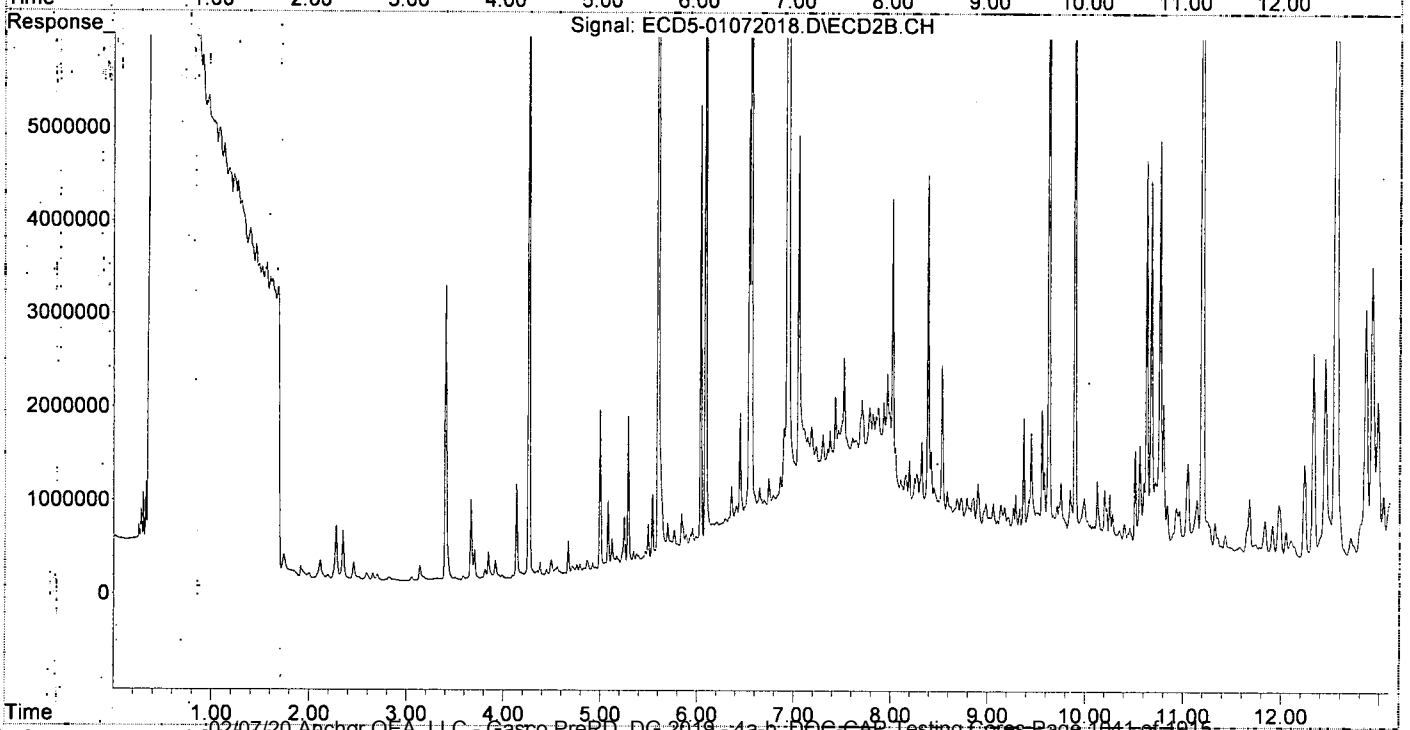
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:02
Operator : MJB
Sample : A9J0514-39RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:37:51 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

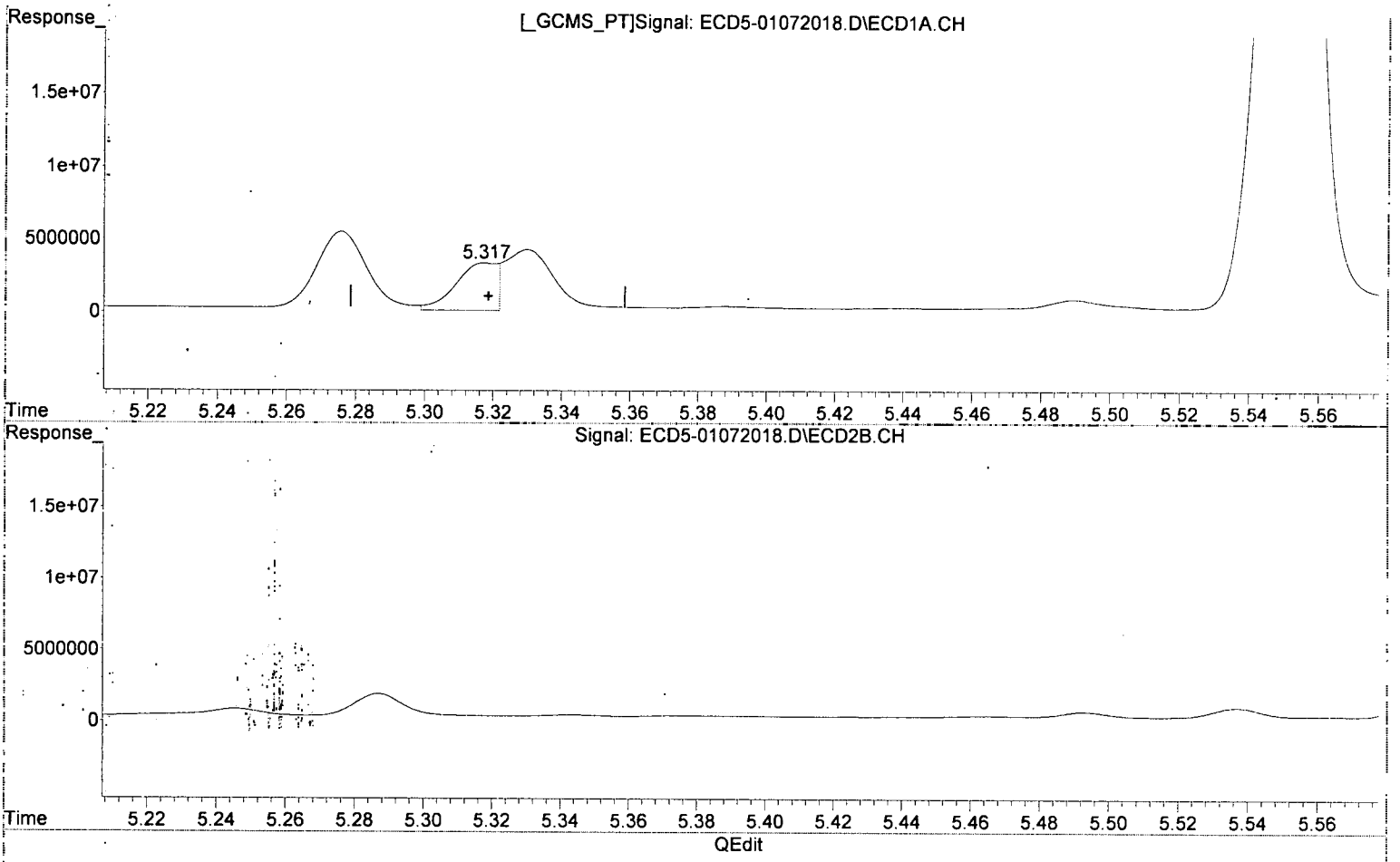




Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:02
Operator : MJB
Sample : A9J0514-39RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:36:14 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(1) TCMX (S) (S)

5.317min 18.298 ng/mL (m)

response 3263776

MJB 1/7/20

(1) TCMX (S) #2 (S)

6.036min 16.950 ng/mL

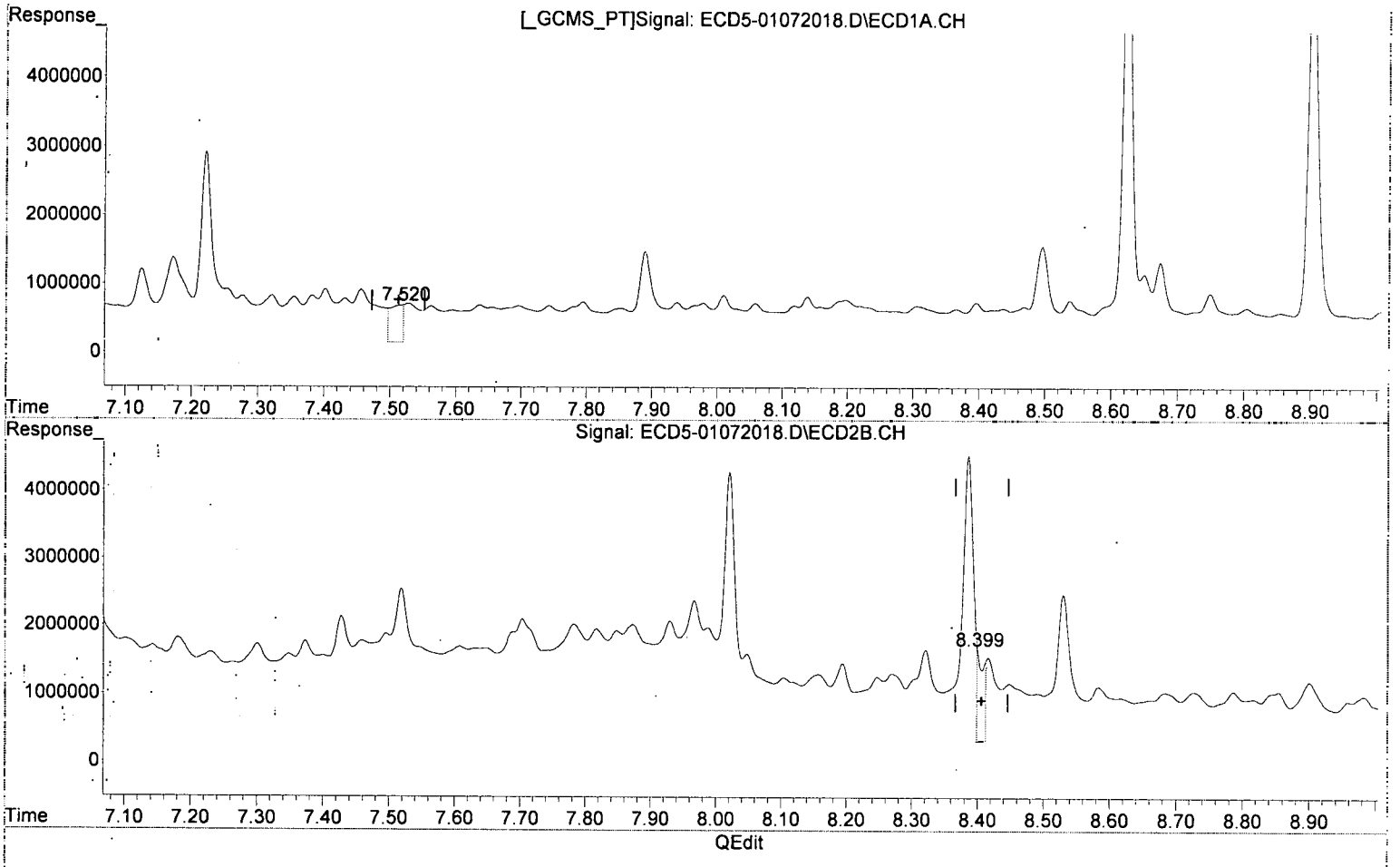
response 5031800

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:02
Operator : MJB
Sample : A9J0514-39RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:36:14 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.520min 3.500 ng/mL (m) R-02 Q-31

response 537740

MJB 1/7/20.

MJB 1/8/20

(12) 4,4'-DDE #2

8.399min 5.476 ng/mL (m) EJ for R-02

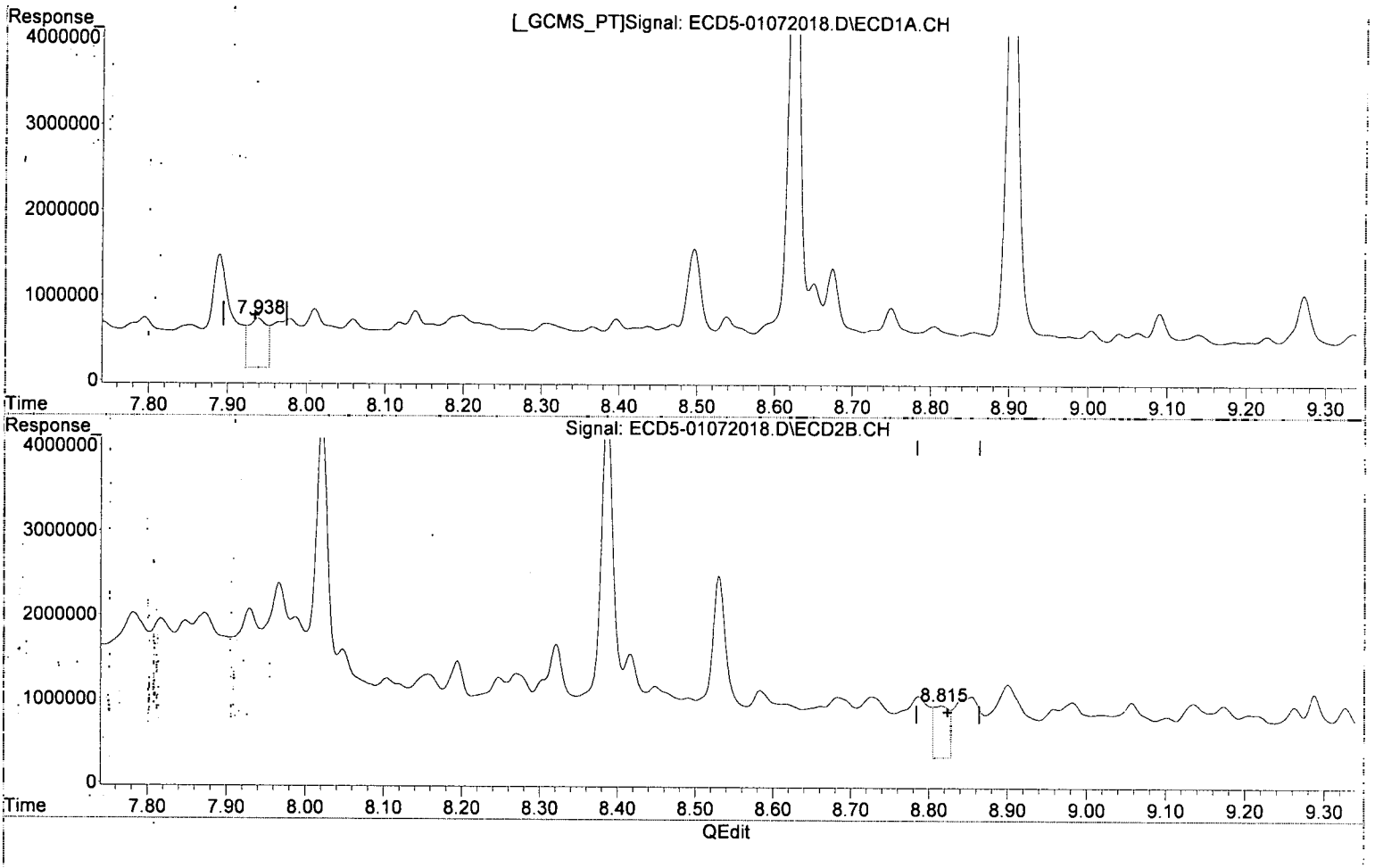
response 1413744

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:02
Operator : MJB
Sample : A9J0514-39RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:36:14 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.939min 4.671 ng/mL

response 581541

WB 1/7/20

(15) 4,4'-DDD #2

8.816min 2.849 ng/mL 2.02

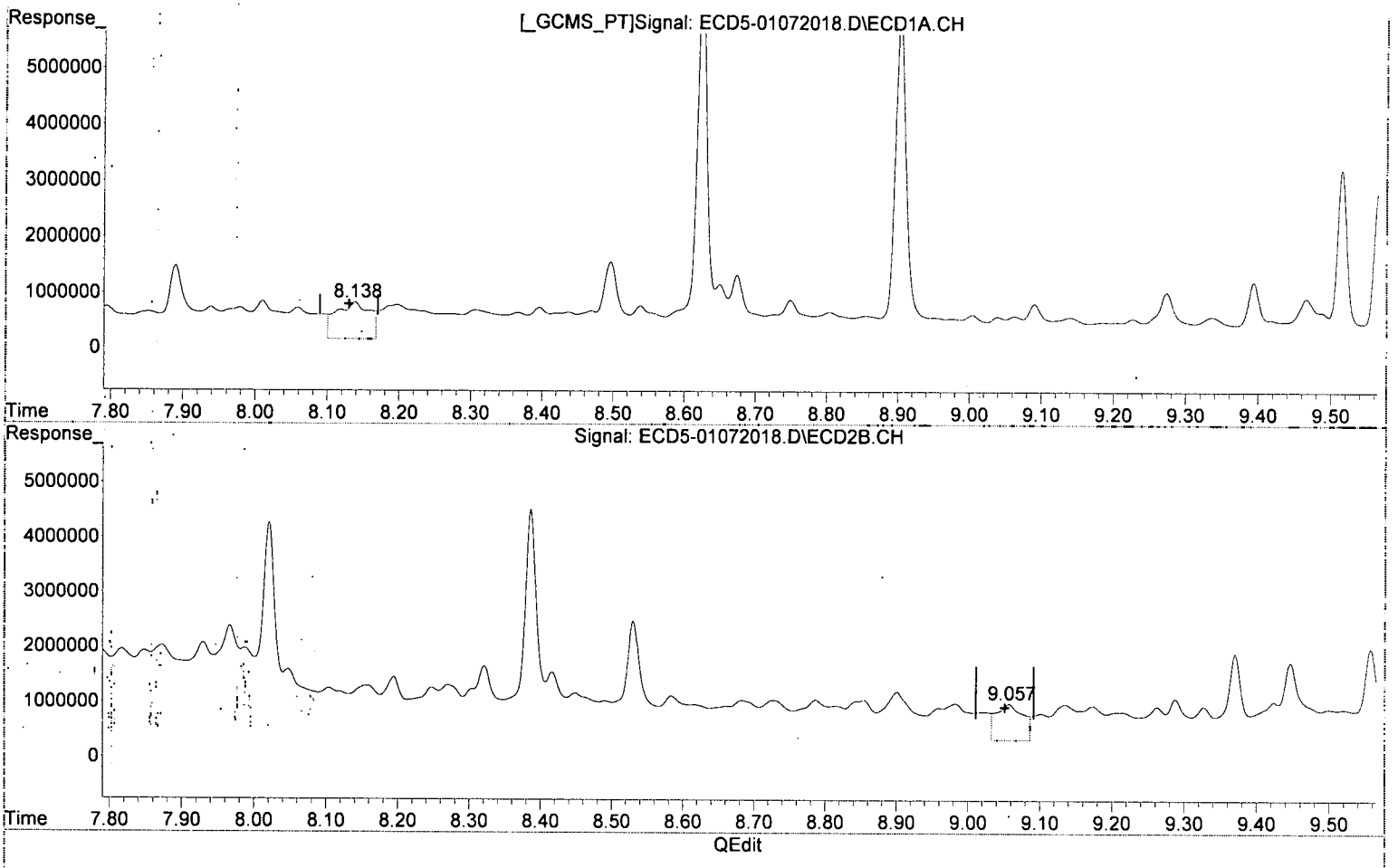
response 619390

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:02
Operator : MJB
Sample : A9J0514-39RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:36:14 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.138min 7.216 ng/mL

response 672714

MJB 1/7/20

(17) 4,4'-DDT #2

9.057min 4.685 ng/mL R.02

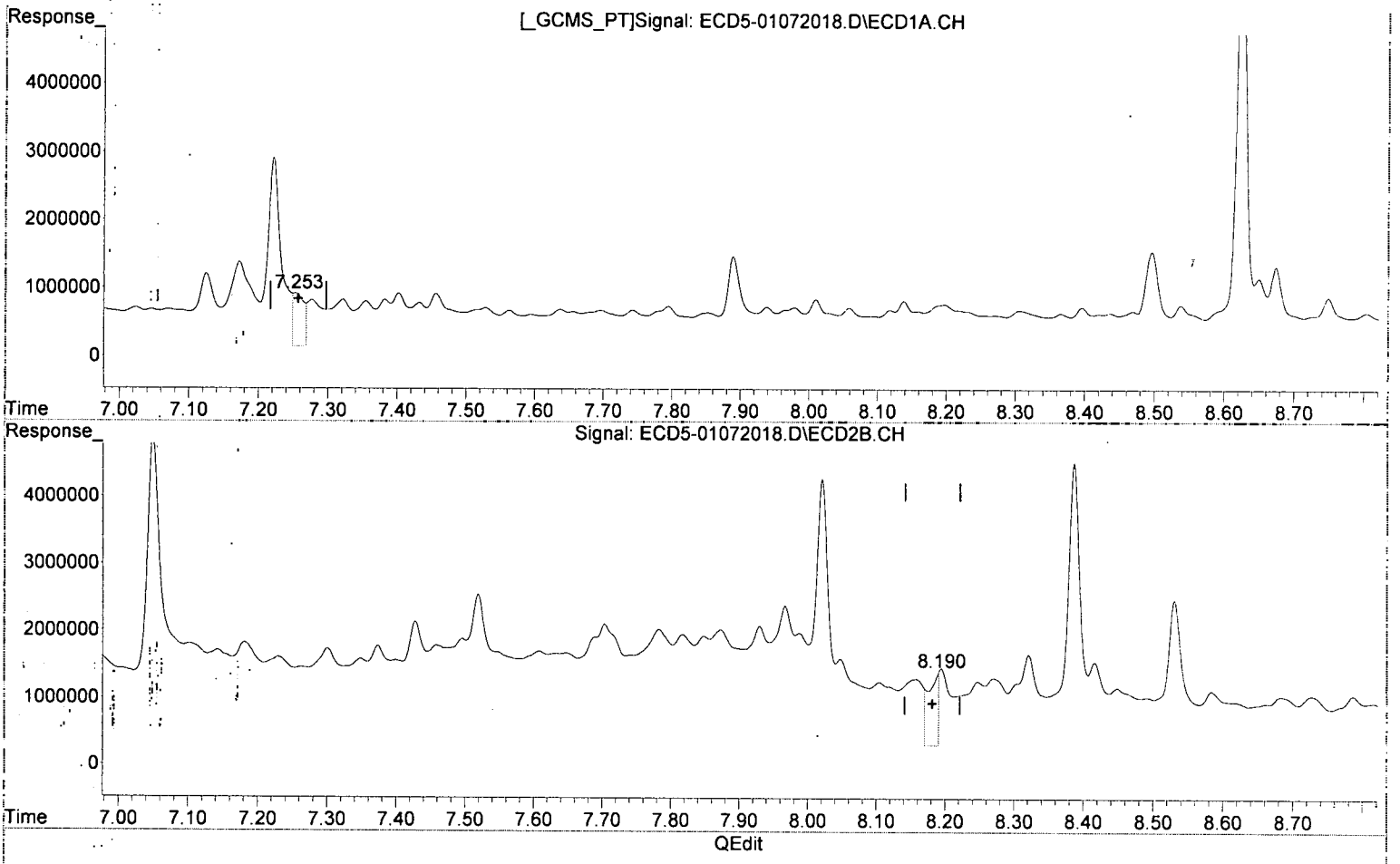
response 654616

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:02
Operator : MJB
Sample : A9J0514-39RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:36:14 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.253min 7.156 ng/mL (m)

response 771522

MJB 1/7/20

(26) 2,4'-DDE #2

8.190min 5.767 ng/mL (m) R.02

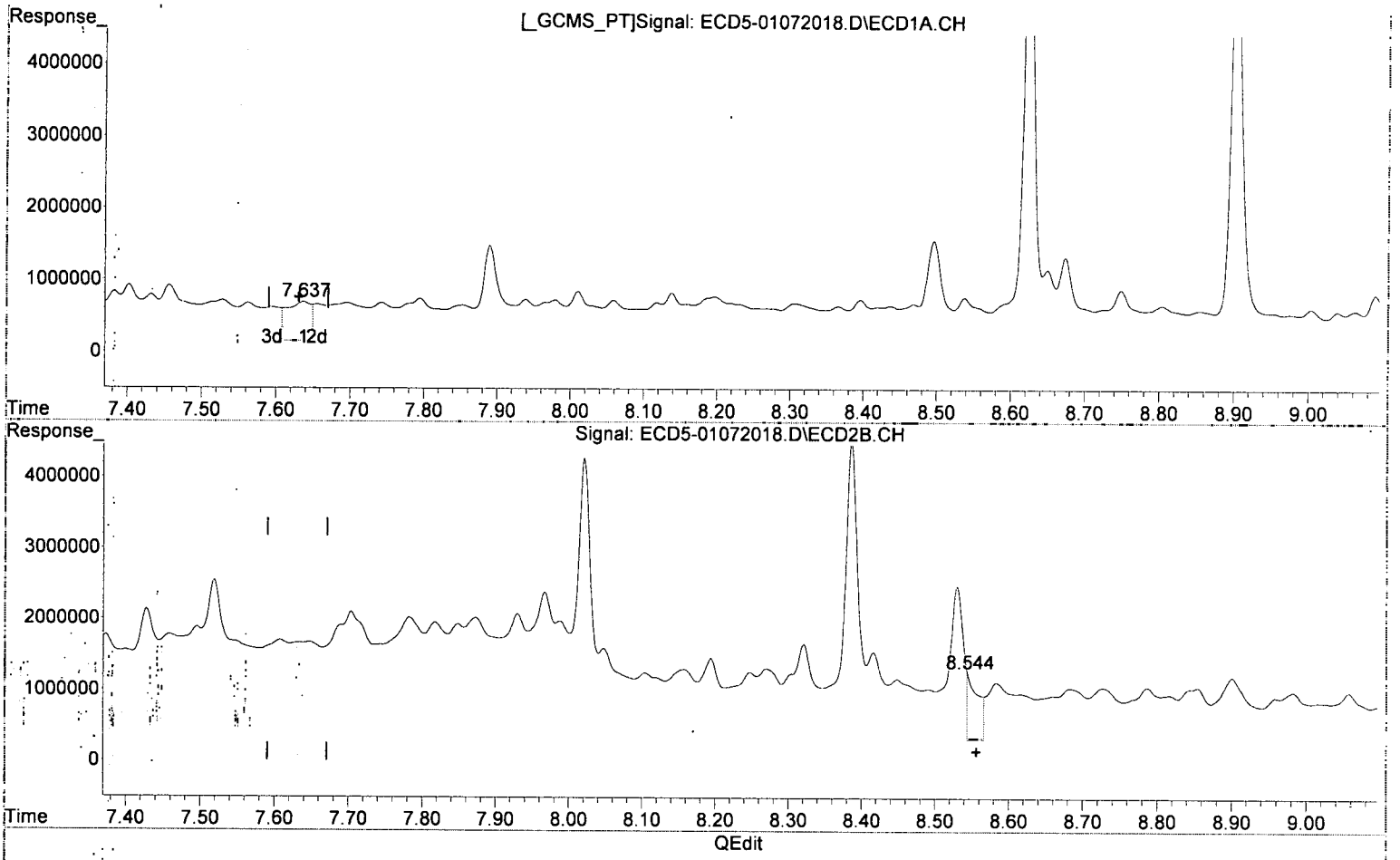
response 1096801

(+) = 'Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:02
Operator : MJB
Sample : A9J0514-39RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:36:14 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.637min 5.512 ng/mL Q-31

response 541971

MJB 1/7/20

(28) 2,4'-DDD #2

8.544min 5.554 ng/mL (m) R..2

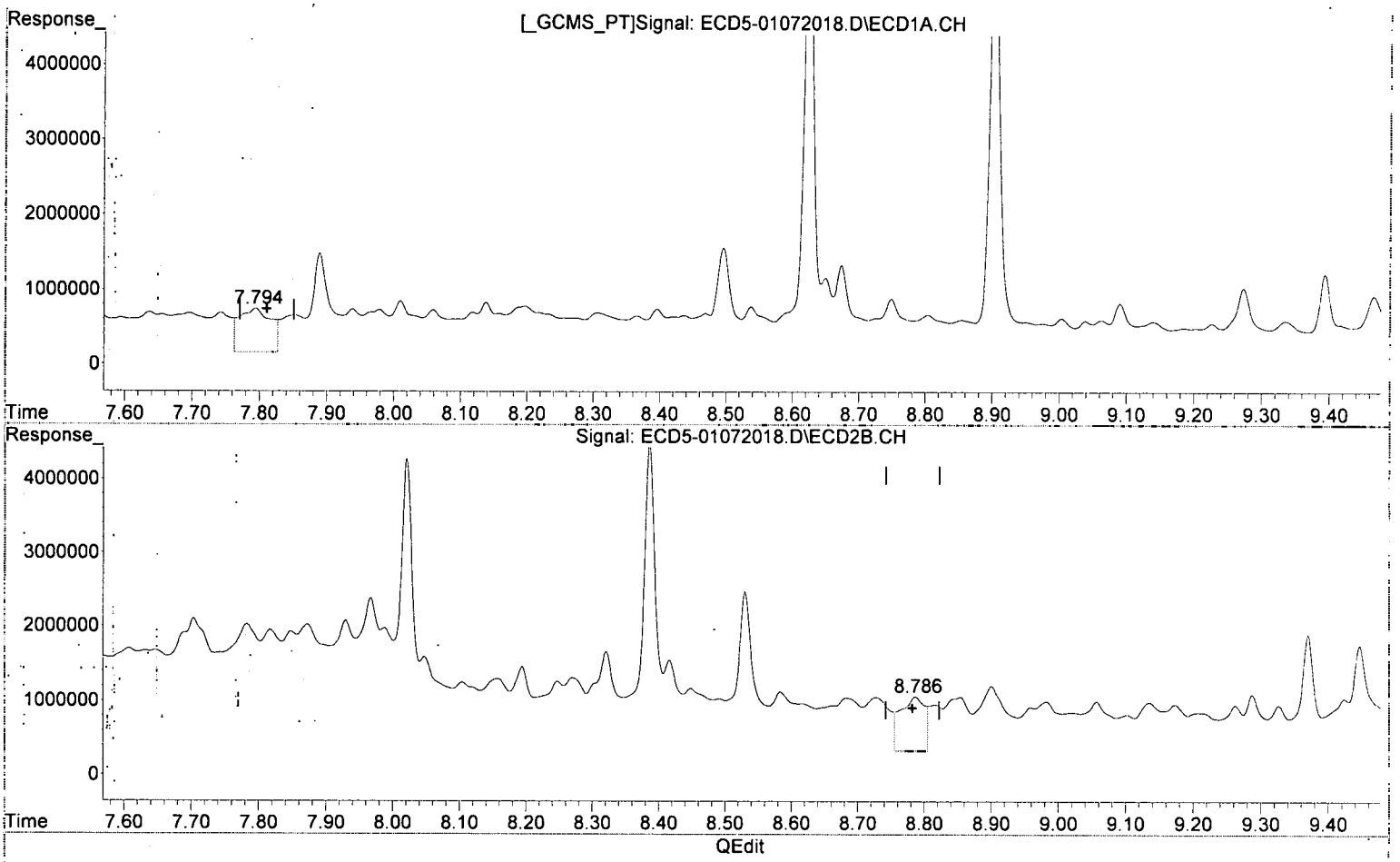
response 941566

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq'On : 07 Jan 2020 16:02
Operator : MJB
Sample : A9J0514-39RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:36:14 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.795min 6.097 ng/mL

response 589935

MJB 1/7/20

(29) 2,4'-DDT #2

8.787min 5.387 ng/mL R.02

response 728435

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:02
Operator : MJB
Sample : A9J0514-39RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:36:14 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MI MJB 1/7/20

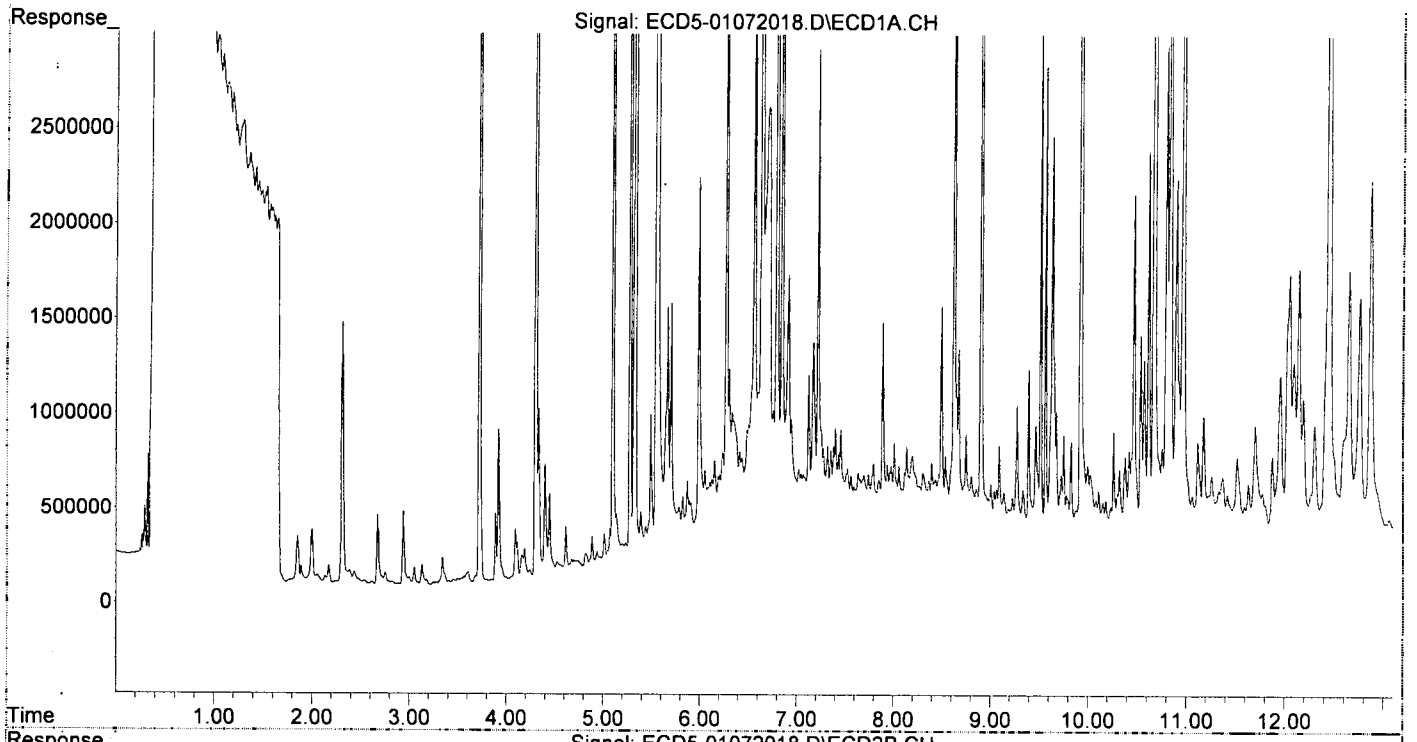
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.330	6.036	4156381	5031800	23.302	16.950	
22)	S	DCBP (S)	9.515	10.627	3058076	4287519	22.740	25.179	
		Target Compounds							
2)		a-BHC	5.869	6.644	515186	898464	2.146	2.258	
3)		g-BHC	6.152	6.939f	624506	126.6E6	3.071	373.884	#
4)		b-BHC	6.236	7.049	661858	4665813	9.335	33.668	#
5)		Heptachlor	6.560	7.348	4222506	1293336	22.966	4.323	#
6)		d-BHC	6.335f	7.301	873063	1442281	6.239	5.060	
7)		Aldrin	6.792	7.608	10552604	1401679	55.572	4.517	#
8)		Heptachlo...	7.221f	8.047	2764638	1283309	15.388	4.481	#
9)		trans-Chl...	7.355	8.194	661309	1144640	3.668	3.924	
10)		cis-Chlor...	7.456	8.321f	770383	1342224	4.456	4.783	
11)		Endosulfa...	7.528	8.321f	564746	1342224	3.213	5.107	#
12)		4,4'-DDE	7.528	8.416	564746	1226975	3.676	4.752	
13)		Dieldrin	7.696	8.530f	529820	2153873	2.699	7.251	#
14)		Endrin	7.890	8.787	1325687	728435	8.677	3.562	#
15)		4,4'-DDD	7.939	8.816	581541	619390	4.671	2.849	
16)		Endosulfa...	8.059f	8.959f	571999	580580	3.744	2.452	
17)		4,4'-DDT	8.138	9.057	672714	654616	7.216	4.685	
18)		Endrin Al...	8.307	9.173	534118	611357	4.468	3.114	
19)		Endosulfa...	8.624	9.370	6396185	1556057	45.465	7.818	#
20)		Methoxychlor	8.496f	9.520	1405679	542644	27.846	7.440	#
21)		Endrin Ke...	8.804	9.751	509961	860659	2.980	3.926	
23)		Hexachlor...	3.129	3.699f	106437	324163	0.496	0.895	#
24)		Hexachlor...	5.703	6.491	1451738	697198	9.139	2.379	#
25)		Oxychlordane	7.172	7.988	1235067	1669641	8.483	6.599	
26)		2,4'-DDE	7.221f	8.194	2764638	1144640	25.641	6.019	#
27)		trans-Non...	7.432	8.248	639594	946426	3.558	3.355	
28)		2,4'-DDD	7.637	8.530f	541971	2153873	5.512	12.704	#
29)		2,4'-DDT	7.795	8.787	589935	728435	6.097	5.387	
30)		cis-Nonac...	7.890	8.816	1325687	619390	6.438	1.934	#
31)		Mirex	8.538f	9.751	616794	860659	4.991	5.305	
32)		Chlordane...	7.383	8.194	682072	1144640	35.698	33.706	
33)		Chlordane...	7.456	8.321	770383	1342224	34.196	46.465	
34)		Chlordane...	8.010	8.982	691338	658958	121.117	71.164	#
35)		Chlordane...	3.720	3.699	5041590	324163	NoCal	NoCal	
36)		Toxaphene...	7.456	8.530	770383	2153873	917.498	910.324	
37)		Toxaphene...	7.743	8.901	532999	868461	331.582	293.218	
38)		Toxaphene...	8.059	8.959	571999	580580	172.086	119.804	
39)		Toxaphene...	8.307	9.017	534118	508466	163.056	64.624	#
40)		Toxaphene...	8.538	9.205	616794	502895	243.445	121.423	#
41)		Toxaphene...	8.624f	9.580	6396185	973867	1880.824	212.371	#
42)		Toxaphene...	3.720	3.699	5041590	324163	NoCal	NoCal	

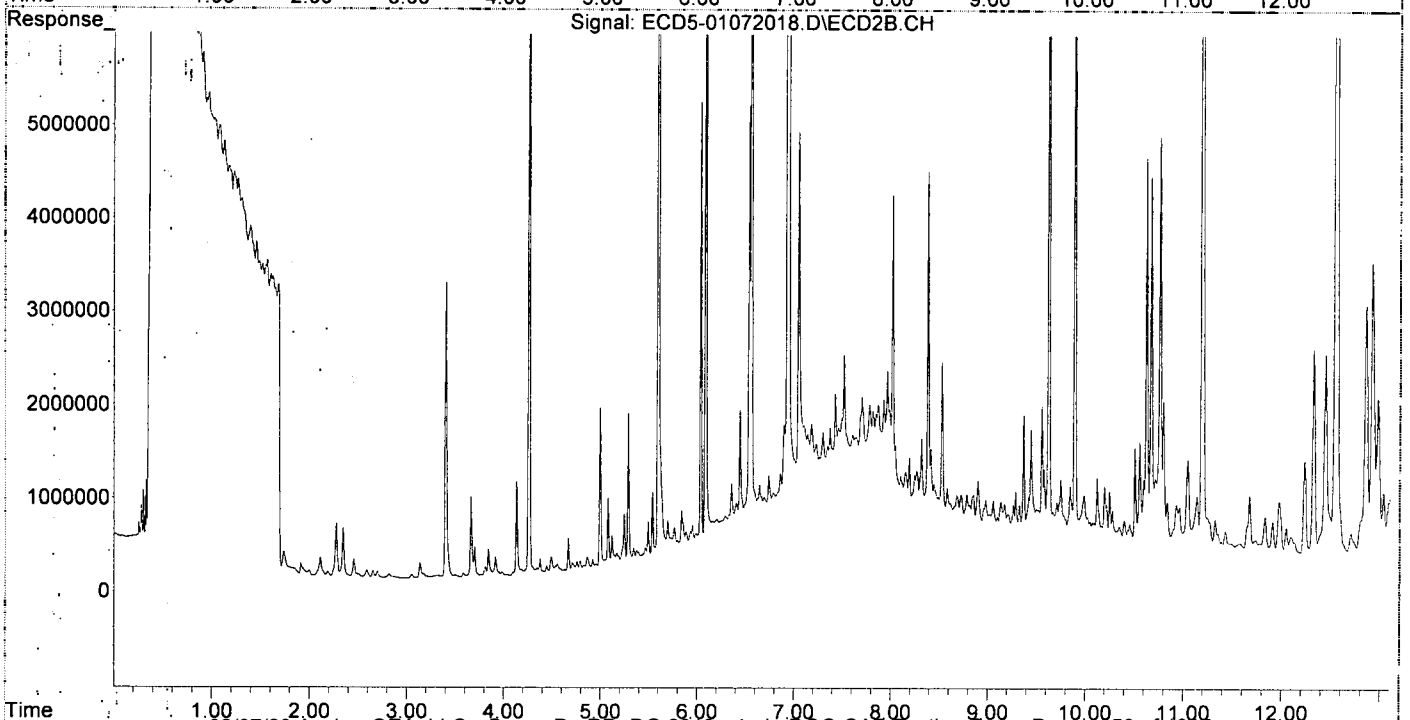
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:02
Operator : MJB
Sample : A9J0514-39RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, 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: Jan 07 16:36:14 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:40
Operator : MJB
Sample : A9J0514-40RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Possible sample switch. Sample is being re-cleaned & re-analyzed.

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 07 16:55:01 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

R-04

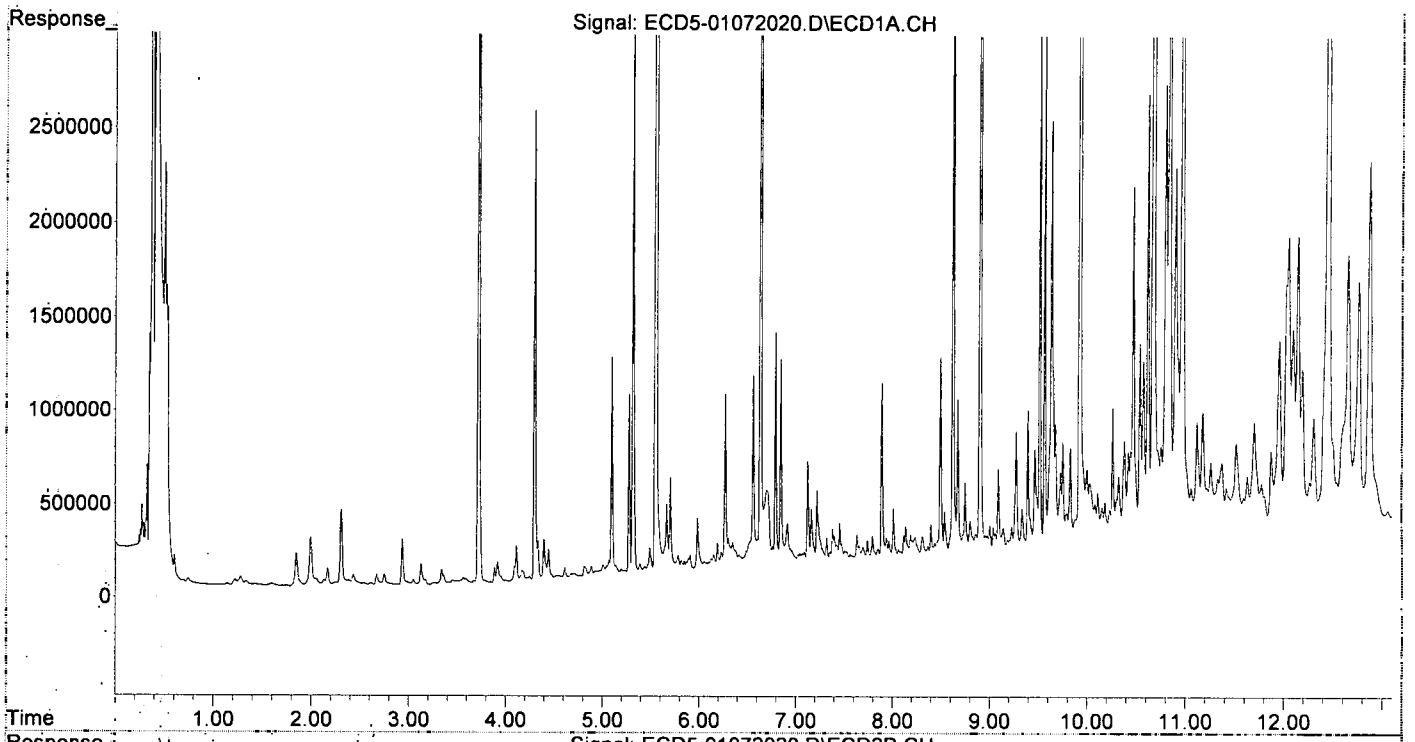
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.316	6.036	3004165	5185156	16.842	17.466	
22)	S	DCBP (S)	9.515	10.628	3117024	4979987	23.180	29.246	
		Target Compounds							
2)		a-BHC	5.847	6.645	44598	109744	0.186	0.276	#
3)		g-BHC	6.152	6.937f	67817	36049323	0.333	106.460	#
4)		b-BHC	6.231	7.018	78768	175154	1.111	1.264	
5)		Heptachlor	6.560	7.349	1006003	189787	5.472	0.634	#
6)		d-BHC	6.347f	7.303	124455	231869	0.870	0.782	
7)		Aldrin	6.792	7.602	1229427	224938	6.474	0.725	#
8)		Heptachlo...	7.222f	8.022f	369934	594184	2.059	2.075	
9)		trans-Chl...	7.357	8.194	37937	353192	0.210	1.211	# NB 1/8/20
10)		cis-Chlor...	7.456	8.320	186556	493046	0.938	1.757	#
11)		Endosulfa...	7.528	8.320f	30853	493046	0.176	1.876	#
12)		4,4'-DDE	7.509	8.412	36482	370301	0.237 - Q-31	1.404m	~~#~~ MDL=MRL
13)		Dieldrin	7.697	8.531f	50710	1727914	0.258	5.817	#
14)		Endrin	7.890	8.789	915249	161731	5.991	0.744	#
15)		4,4'-DDD	7.939	8.816	91747	110044	0.594	0.377	
16)		Endosulfa...	8.011f	8.958f	248108	133765	1.624	0.565	#
17)		4,4'-DDT	8.138	9.058	144751	209943	1.556	1.663	- MDL=MRL
18)		Endrin Al...	8.309	9.174	85604	209286	0.716	1.066	#
19)		Endosulfa...	8.624	9.371	4657757	1354620	33.331	6.782	#
20)		Methoxychlor	8.496f	9.517	1033367	300876	20.786	4.218	#
21)		Endrin Ke...	8.802f	9.752	147164	624314	0.695	2.797	#
23)		Hexachlor...	3.127	3.698f	111154	198169	0.525	0.547	
24)		Hexachlor...	5.703	6.516	494768	186030	3.010	0.635	#
25)		Oxychlordane	7.163	7.968	274616	1024511	1.746	4.050	# - MDL=MRL
26)		2,4'-DDE	7.245	8.194	123865	353192	1.149m	1.857	# - MDL=MRL
27)		trans-Non...	7.421	8.248	72111	256508	0.401	0.909	#
28)		2,4'-DDD	7.634	8.548	117662	277445	1.197 - Q-31	1.636m	- MDL=MRL
29)		2,4'-DDT	7.802	8.789	59792	161731	0.618m	1.136	# - P-31
30)		cis-Nonac...	7.890	8.816	915249	110044	4.445	0.344	#
31)		Mirex	8.538f	9.752	207096	624314	1.507	3.752	#
32)		Chlordane...	7.357	8.194	37937	353192	1.986	10.400	#
33)		Chlordane...	7.456	8.320	186556	493046	8.281	17.068	#
34)		Chlordane...	8.011	8.986	248108	164717	43.466	7.557	#
35)		Chlordane...	3.718	3.698	5186865	198169	NoCal	NoCal	
36)		Toxaphene...	7.456	8.531	186556	1727914	222.768	730.294	#
37)		Toxaphene...	7.743	8.902	83490	398521	48.689	134.552	#
38)		Toxaphene...	8.063	8.958	23872	133765	4.281	27.603	#
39)		Toxaphene...	8.309	9.016	85604	120580	20.922	8.811	#
40)		Toxaphene...	8.538	9.204	207096	155014	81.740	35.393	#
41)		Toxaphene...	8.624f	9.581	4657757	746245	1369.633	162.733	#
42)		Toxaphene...	3.718	3.698	5186865	198169	NoCal	NoCal	

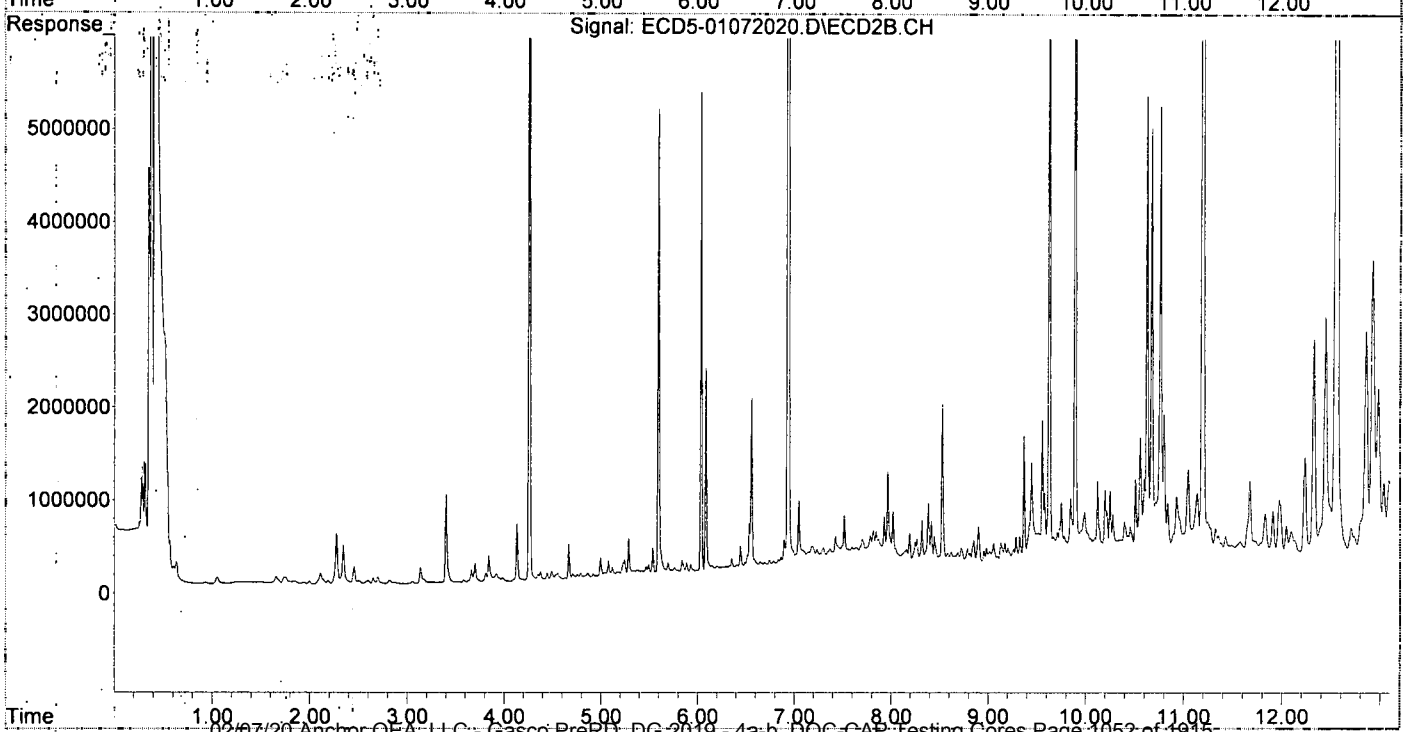
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:40
Operator : MJB
Sample : A9J0514-40RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 07 16:55:01 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

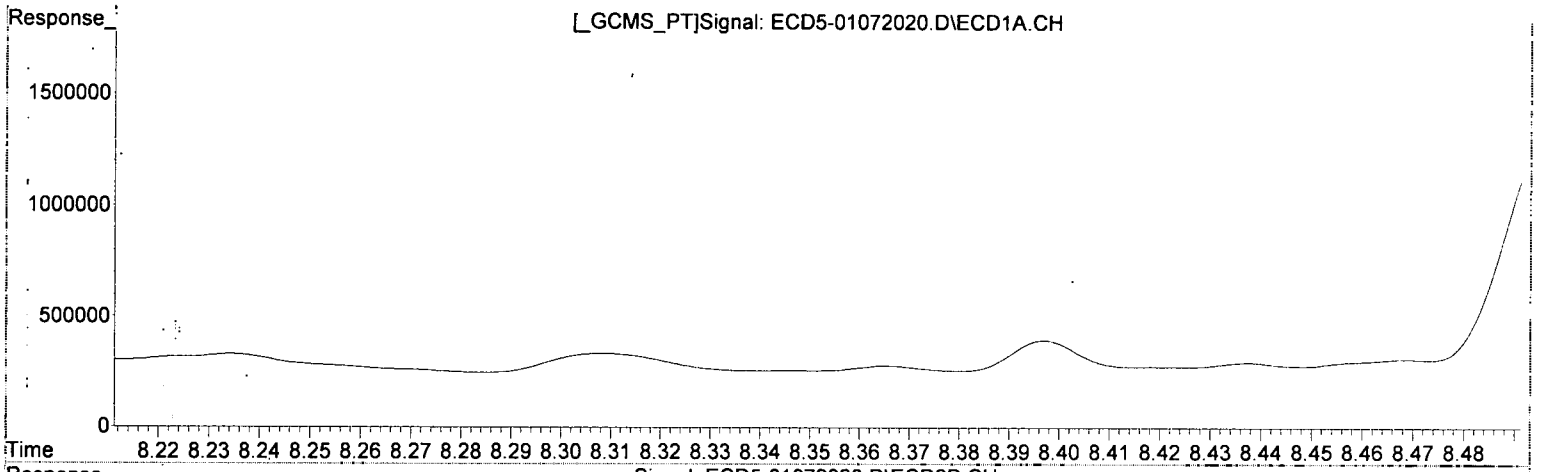


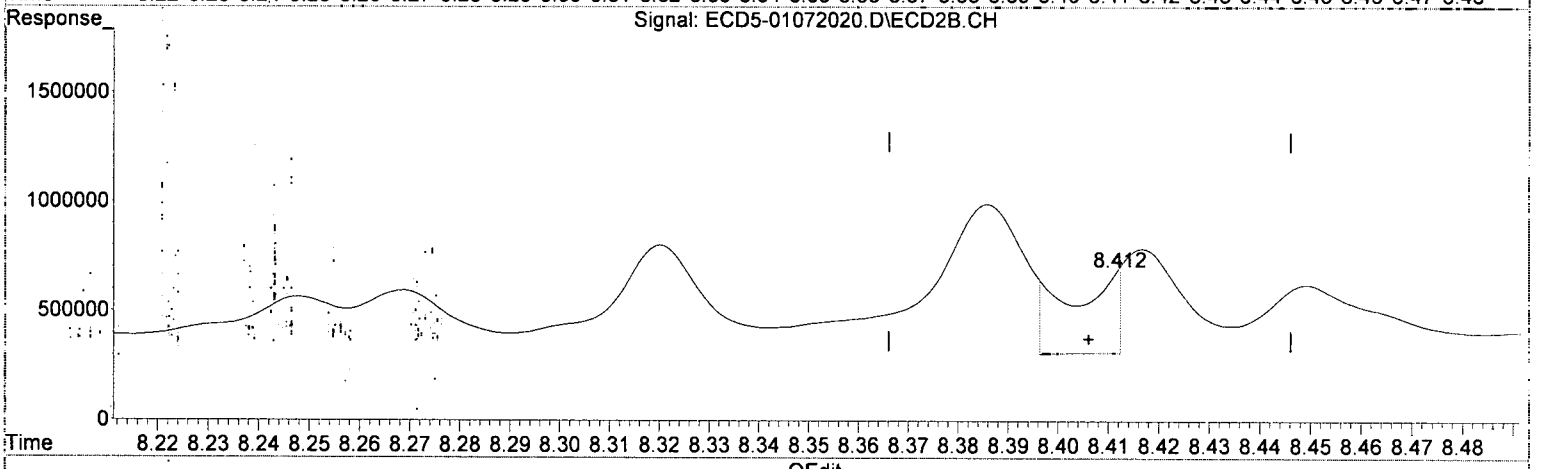


Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:40
Operator : MJB
Sample : A9J0514-40RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 07 16:53:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(12) 4,4'-DDE

7.509min 0.237 ng/mL Q.21

response 36482

MJB 11/6/20 MJB 1/7/20

(12) 4,4'-DDE #2

8.412min 1.404 ng/mL (m) J-01 MDL:MRL

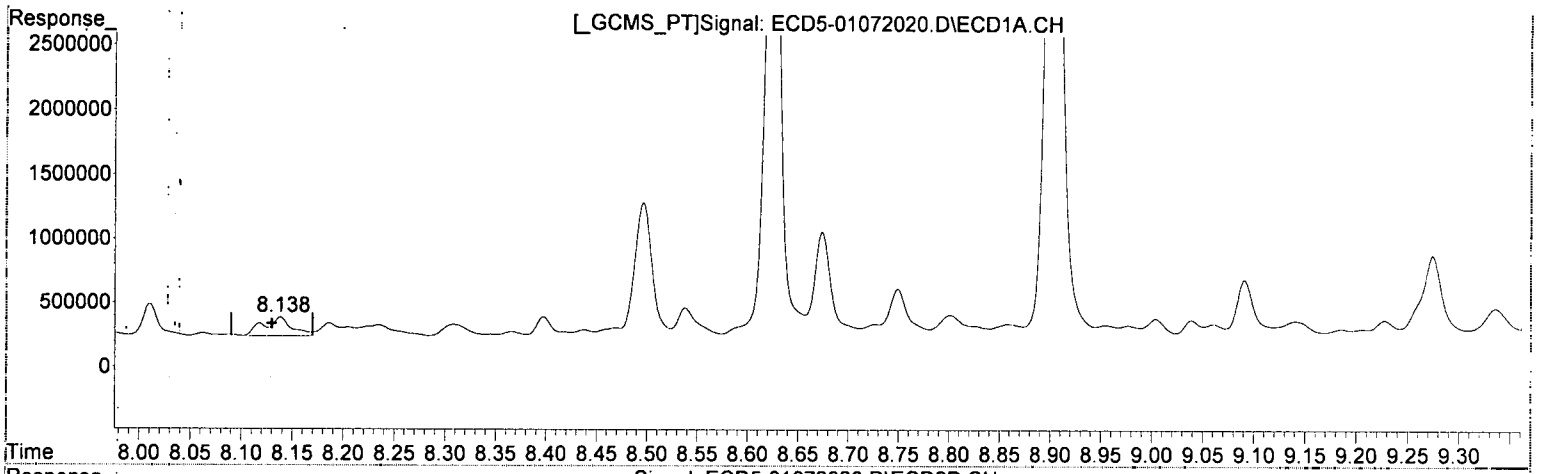
response 370301

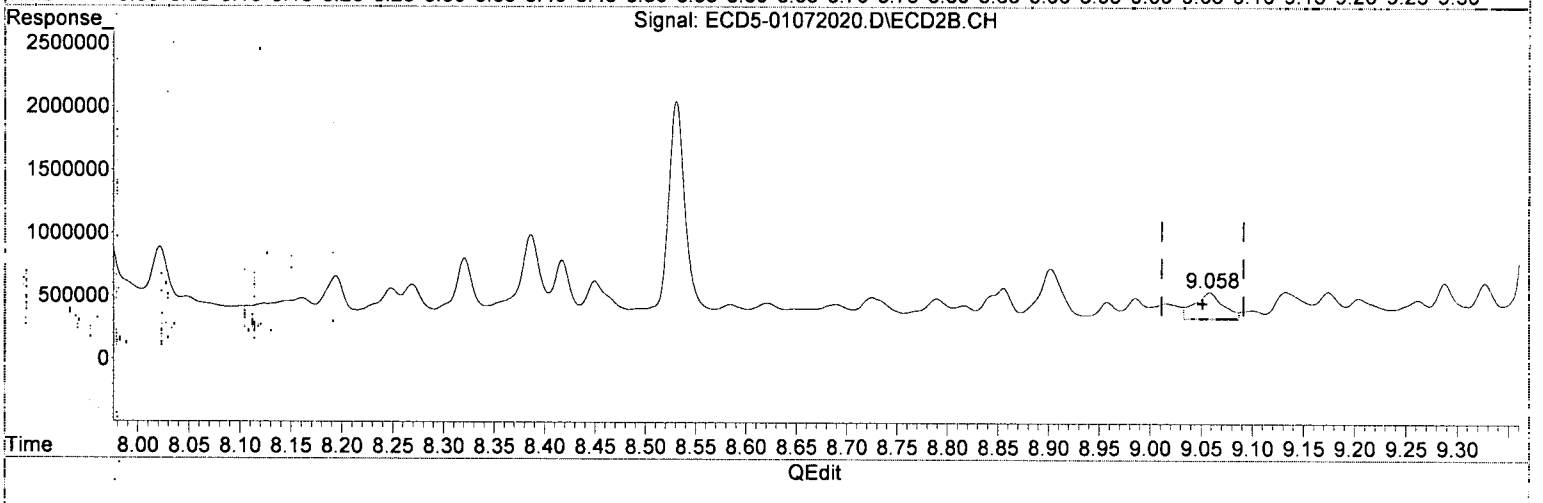
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:40
Operator : MJB
Sample : A9J0514-40RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 07 16:53:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(17) 4,4'-DDT

8.138min 1.556 ng/mL

response 144751

MJB 1/7/20

(17) 4,4'-DDT #2

9.058min 1.663 ng/mL MDL-MRL

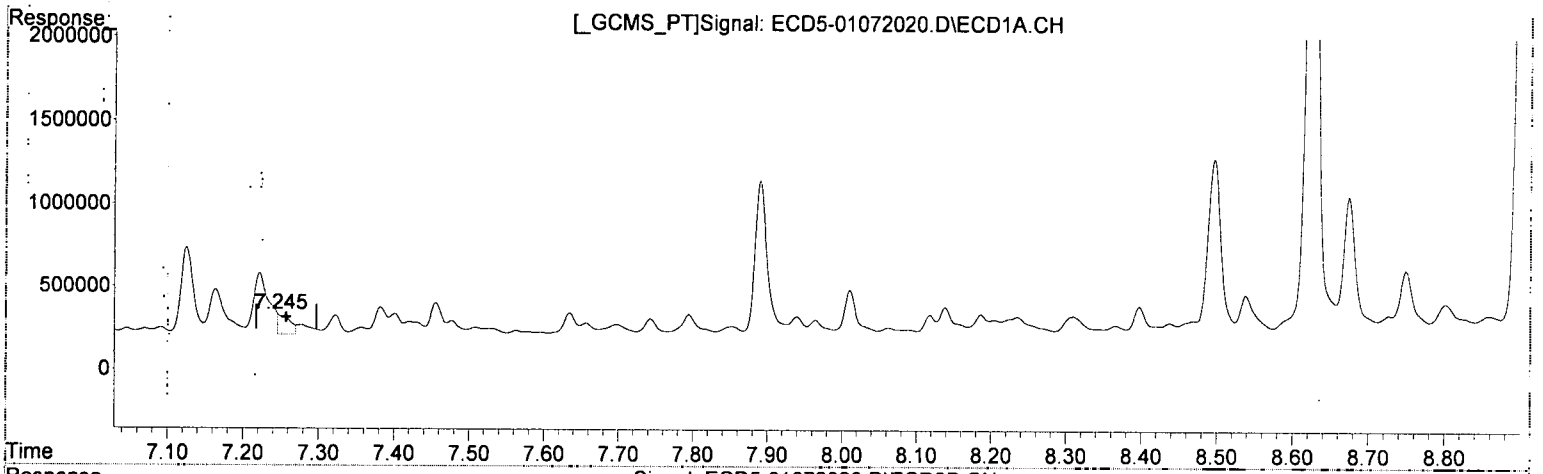
response 209943

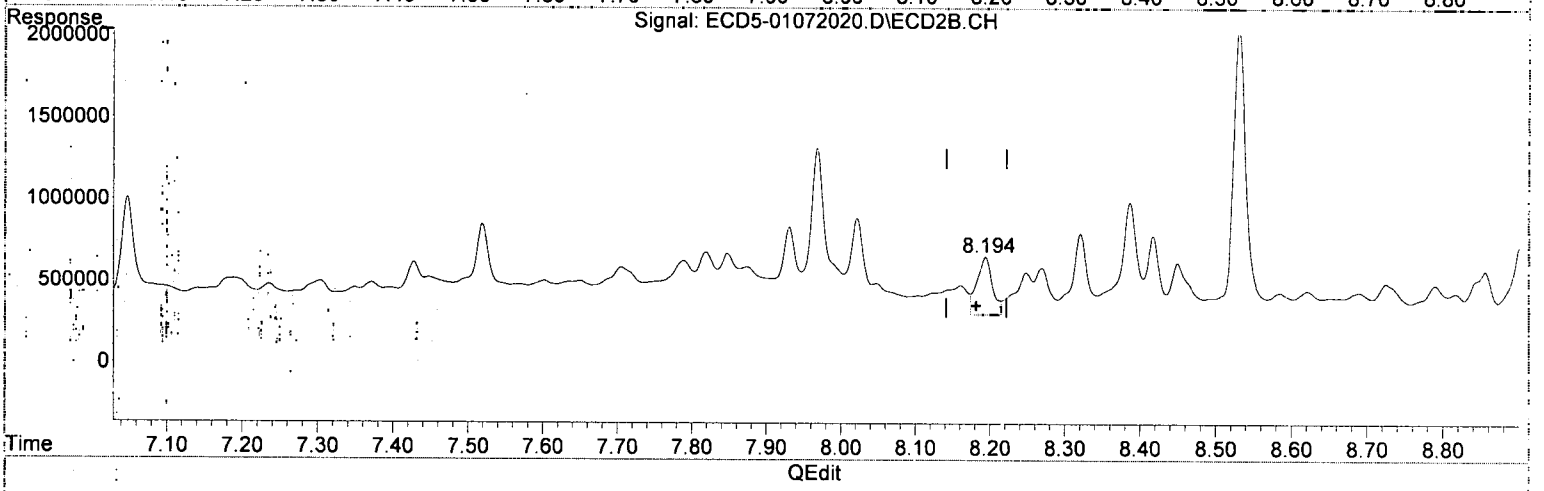
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:40
Operator : MJB
Sample : A9J0514-40RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 07 16:53:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(26) 2,4'-DDE

7.245min 1.149 ng/mL (m)

response 123865

MJB 1/7/20

(26) 2,4'-DDE #2

8.194min 1.857 ng/mL MDL=MRL

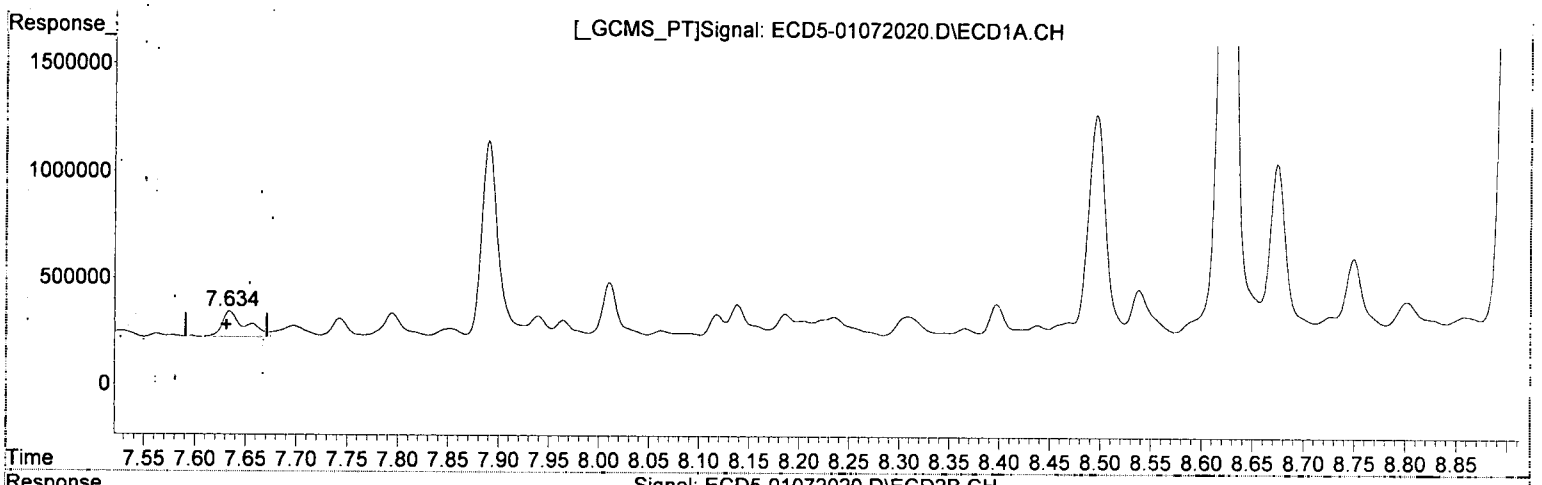
response 353192

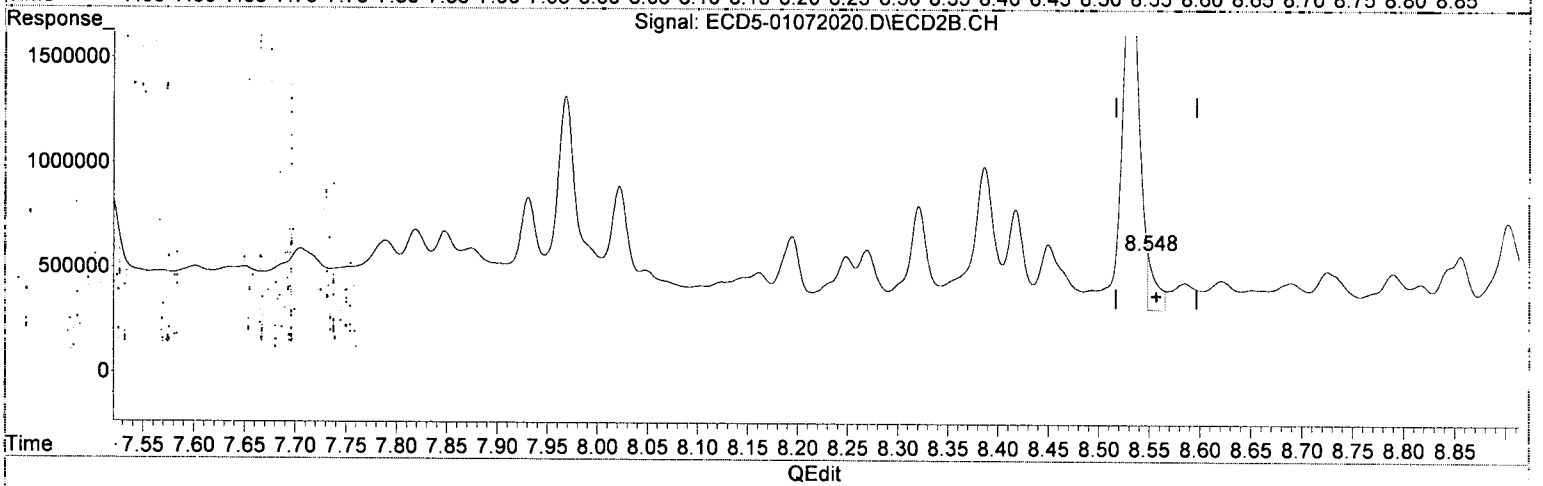
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:40
Operator : MJB
Sample : A9J0514-40RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 07 16:53:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(28) 2,4'-DDD

7.634min 1.197 ng/mL Q-31

response 117662

MJB 1/7/20

(28) 2,4'-DDD #2

8.548min 1.636 ng/mL (m) MDL-MRL

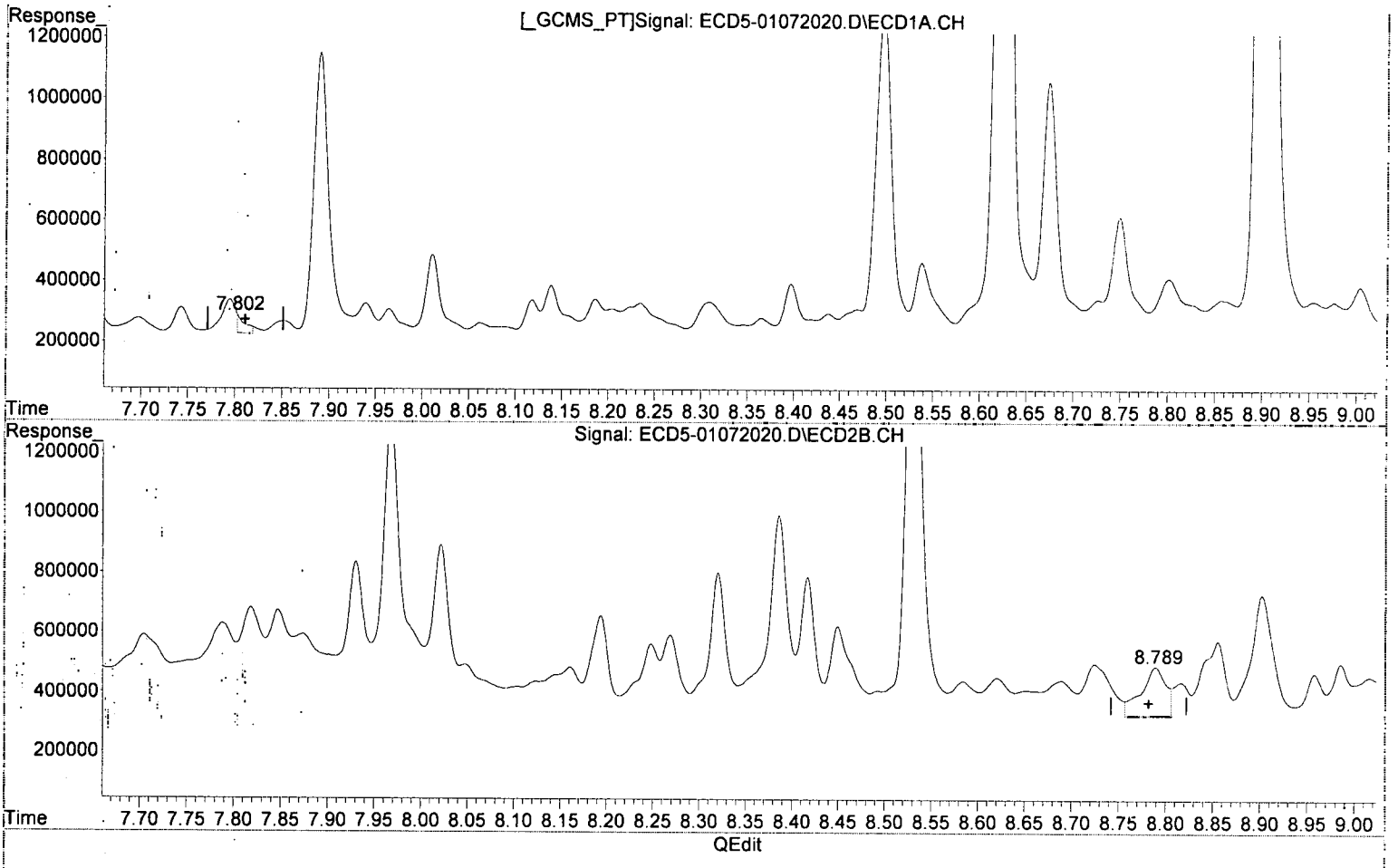
response 277445

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:40
Operator : MJB
Sample : A9J0514-40RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 07 16:53:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.802min 0.618 ng/mL (m)

response 59792

MJB 7/12/20

(29) 2,4'-DDT #2

8.789min 1.136 ng/mL T-01

response 161731

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:40
Operator : MJB
Sample : A9J0514-40RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 07 16:53:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

ML MJB 1/7/20

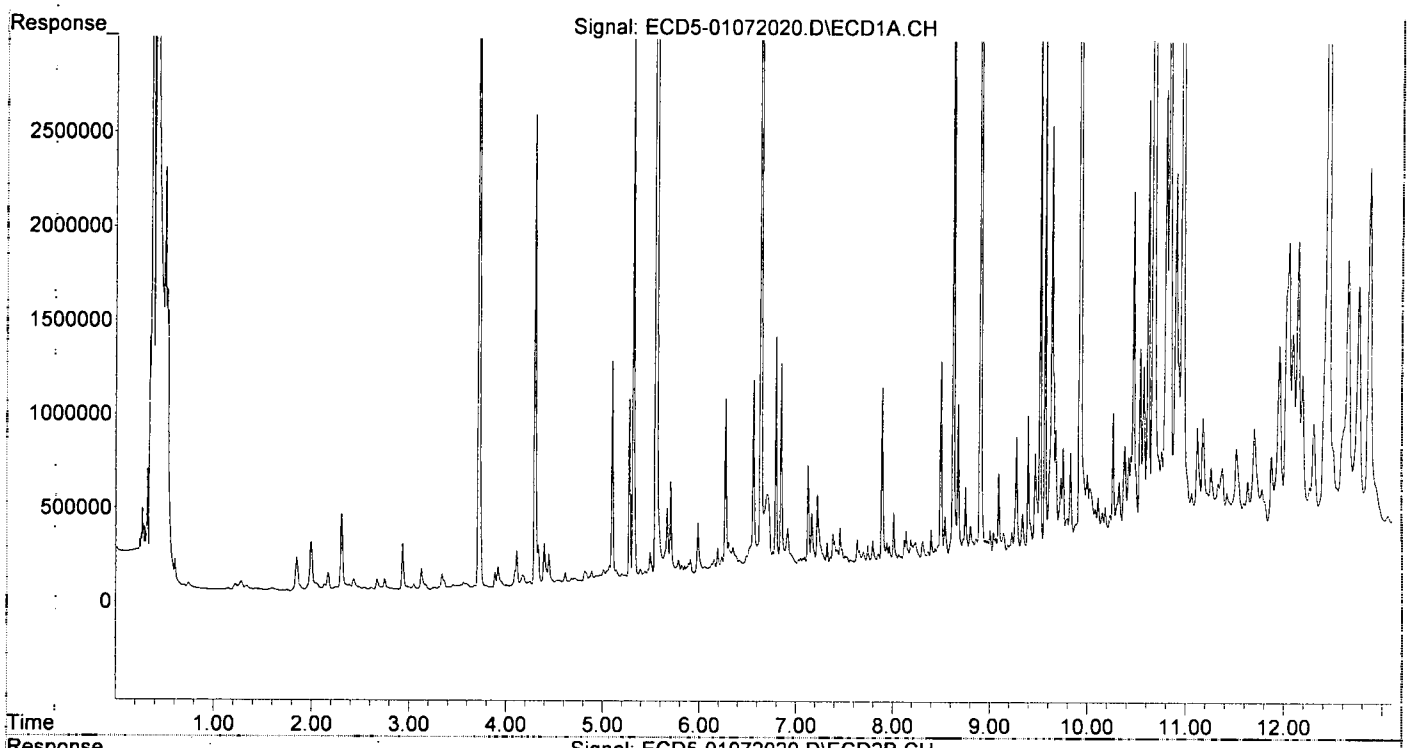
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.316	6.036	3004165	5185156	16.842	17.466	
22)	S	DCBP (S)	9.515	10.628	3117024	4979987	23.180	29.246	
		Target Compounds							
2)		a-BHC	5.847	6.645	44598	109744	0.186	0.276	#
3)		g-BHC	6.152	6.937f	67817	36049323	0.333	106.460	#
4)		b-BHC	6.231	7.018	78768	175154	1.111	1.264	
5)		Heptachlor	6.560	7.349	1006003	189787	5.472	0.634	#
6)		d-BHC	6.347f	7.303	124455	231869	0.870	0.782	
7)		Aldrin	6.792	7.602	1229427	224938	6.474	0.725	#
8)		Heptachlo...	7.222f	8.022f	369934	594184	2.059	2.075	
9)		trans-Chl...	7.357	8.194	37937	353192	0.210	1.211	#
10)		cis-Chlor...	7.456	8.320	186556	493046	0.938	1.757	#
11)		Endosulfa...	7.528	8.320f	30853	493046	0.176	1.876	#
12)		4,4'-DDE	7.509	8.417	36482	474563	0.237	1.814	#
13)		Dieldrin	7.697	8.531f	50710	1727914	0.258	5.817	#
14)		Endrin	7.890	8.789	915249	161731	5.991	0.744	#
15)		4,4'-DDD	7.939	8.816	91747	110044	0.594	0.377	
16)		Endosulfa...	8.011f	8.958f	248108	133765	1.624	0.565	#
17)		4,4'-DDT	8.138	9.058	144751	209943	1.556	1.663	
18)		Endrin Al...	8.309	9.174	85604	209286	0.716	1.066	#
19)		Endosulfa...	8.624	9.371	4657757	1354620	33.331	6.782	#
20)		Methoxychlor	8.496f	9.517	1033367	300876	20.786	4.218	#
21)		Endrin Ke...	8.802f	9.752	147164	624314	0.695	2.797	#
23)		Hexachlor...	3.127	3.698f	111154	198169	0.525	0.547	
24)		Hexachlor...	5.703	6.516	494768	186030	3.010	0.635	#
25)		Oxychlordane	7.163	7.968	274616	1024511	1.746	4.050	#
26)		2,4'-DDE	7.222f	8.194	369934	353192	3.431	1.857	#
27)		trans-Non...	7.421	8.248	72111	256508	0.401	0.909	#
28)		2,4'-DDD	7.634	8.531f	117662	1727914	1.197	10.192	#
29)		2,4'-DDT	7.795	8.789	107887	161731	1.115	1.136	
30)		cis-Nonac...	7.890	8.816	915249	110044	4.445	0.344	#
31)		Mirex	8.538f	9.752	207096	624314	1.507	3.752	#
32)		Chlordane...	7.357	8.194	37937	353192	1.986	10.400	#
33)		Chlordane...	7.456	8.320	186556	493046	8.281	17.068	#
34)		Chlordane...	8.011	8.986	248108	164717	43.466	7.557	#
35)		Chlordane...	3.718	3.698	5186865	198169	NoCal	NoCal	
36)		Toxaphene...	7.456	8.531	186556	1727914	222.768	730.294	#
37)		Toxaphene...	7.743	8.902	83490	398521	48.689	134.552	#
38)		Toxaphene...	8.063	8.958	23872	133765	4.281	27.603	#
39)		Toxaphene...	8.309	9.016	85604	120580	20.922	8.811	#
40)		Toxaphene...	8.538	9.204	207096	155014	81.740	35.393	#
41)		Toxaphene...	8.624f	9.581	4657757	746245	1369.633	162.733	#
42)		Toxaphene...	3.718	3.698	5186865	198169	NoCal	NoCal	

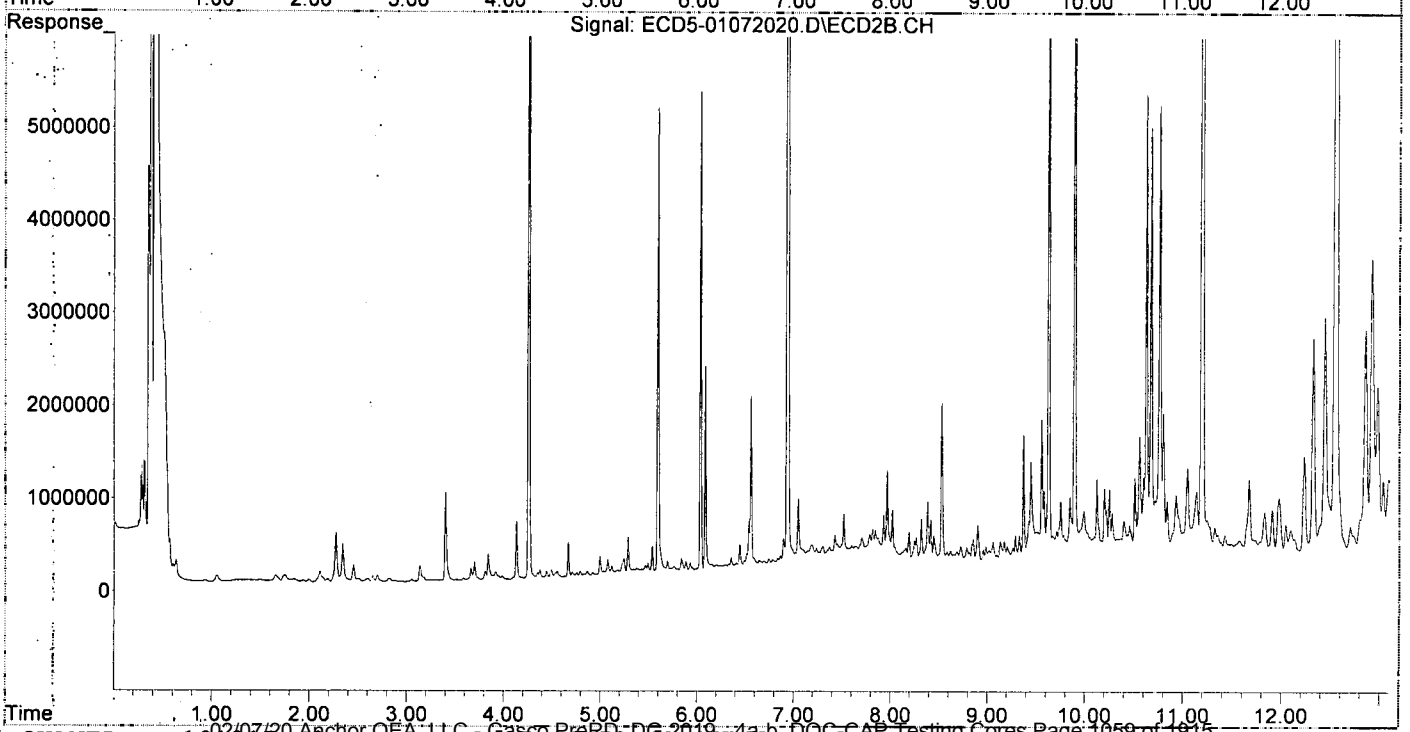
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 16:40
Operator : MJB
Sample : A9J0514-40RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 07 16:53:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020_01\0A07035\
Data File : ECD5-01072030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 19:49
Operator : MJB
Sample : A9J0514-35RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 08 11:46:47 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/8/20

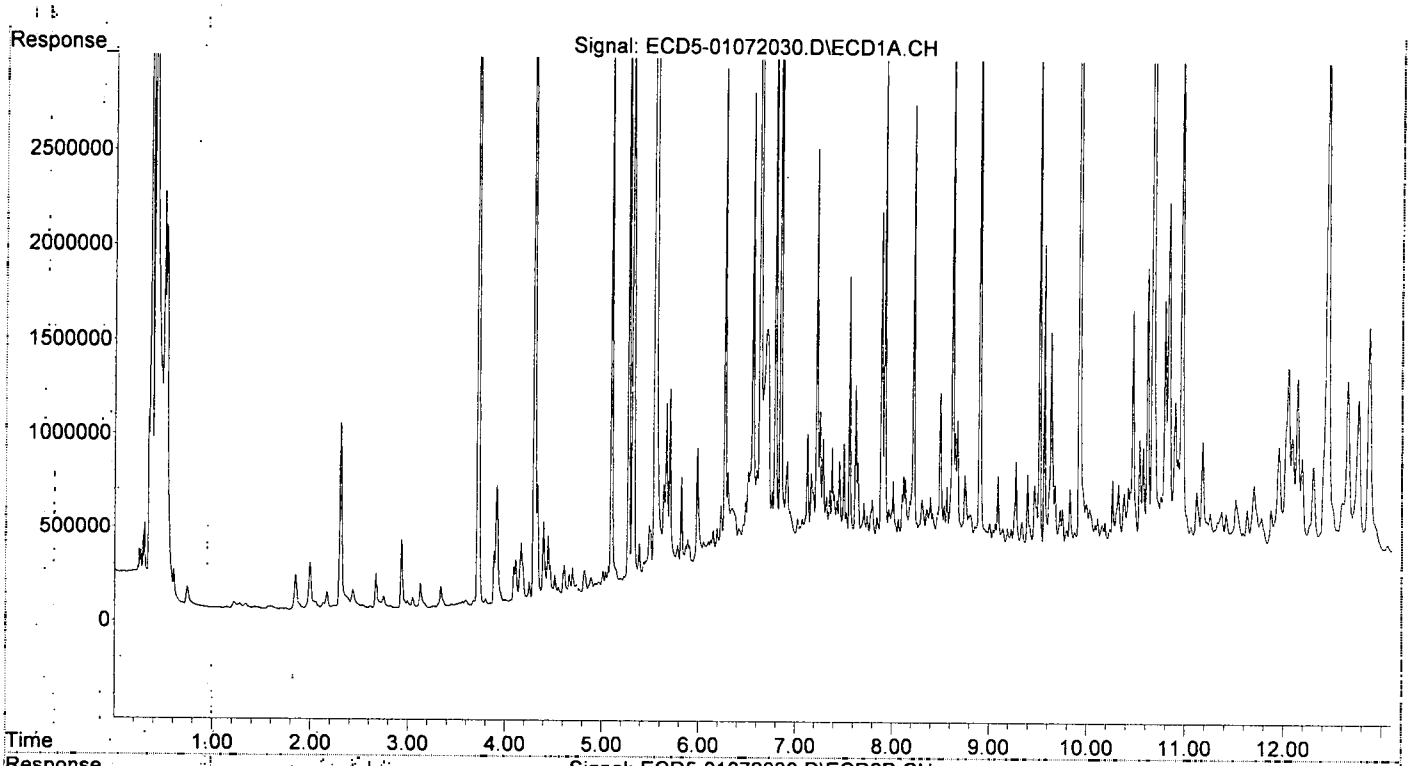
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.315	6.035	3246760	5690371	18.202	19.168	
22)	S DCBP (S)	9.514	10.628	3361407	4992182	24.999	29.317	
	Target Compounds							
2)	a-BHC	5.867	6.643	248951	606019	1.037	1.523	#
3)	g-BHC	6.149	6.937f	324245	80919628	1.594	238.969	#
4)	b-BHC	6.228	7.047	452124	1980501	6.377	14.291	#
5)	Heptachlor	6.558	7.349	2633178	792412	14.322	2.649	#
6)	d-BHC	6.346f	7.304	436271	887939	3.120	3.110	
7)	Aldrin	6.789	7.600	3641634	862246	19.178	2.779	#
8)	Heptachlo...	7.251	8.021f	928141	1825739	5.166	6.375	
9)	trans-Chl...	7.353	8.176	503428	1251573	2.792	4.291	#
10)	cis-Chlor...	7.454	8.302	649335	582670	3.728	2.076	#
11)	Endosulfa...	7.559	8.358	1625837	517044	9.251	1.967	#
12)	4,4'-DDE	7.500	8.385f	744767	3917767	4.848	15.008	m#
13)	Dieldrin	7.708	8.552	423998	1673260	2.160	5.633	#
14)	Endrin	7.887	8.782	1947093	777510	12.744	3.804	#
15)	4,4'-DDD	7.922	8.817	2756988	4328375	22.215	20.219	
16)	Endosulfa...	8.009f	8.956f	529159	4161226	3.463	17.576	#
17)	4,4'-DDT	8.117	9.050	551326	881673	5.933	6.207	m
18)	Endrin Al...	8.307	9.172	418457	553134	3.501	2.818	
19)	Endosulfa...	8.622	9.370	3354300	1261903	24.091	6.304	#
20)	Methoxychlor	8.495f	9.557f	991419	1322595	19.979	17.495	
21)	Endrin Ke...	8.803	9.752	326613	753297	1.826	3.414	#
23)	Hexachlor...	3.127	3.697f	131405	259959	0.652	0.718	
24)	Hexachlor...	5.701	6.488	1099981	400728	6.896	1.368	#
25)	Oxychlordane	7.164	7.987	597251	1019320	4.017	4.029	
26)	2,4'-DDE	7.251	8.176	928141	1251573	8.608	6.581	
27)	trans-Non...	7.429	8.248	445120	678971	2.476	2.407	
28)	2,4'-DDD	7.622	8.552	1052867	1673260	10.708	9.870	
29)	2,4'-DDT	7.793	8.782	437208	777510	4.518	5.752	
30)	cis-Nonac...	7.887	8.817	1947093	4328375	9.456	13.517	#
31)	Mirex	8.564	9.752	483214	753297	3.856	4.600	
32)	Chlordane...	7.379	8.248f	727028	678971	38.051	19.993	#
33)	Chlordane...	7.454	8.319	649335	671660	28.823	23.251	
34)	Chlordane...	8.009	9.000	529159	427740	92.704	41.482	#
35)	Chlordane...	3.718	3.697	5399556	259959	NoCal	NoCal	
36)	Toxaphene...	7.454	8.552	649335	1673260	774.887	707.195	
37)	Toxaphene...	7.740	8.903	351423	954040	217.064	322.111	#
38)	Toxaphene...	8.062	8.956	322810	4161226	96.200	858.677	#
39)	Toxaphene...	8.307	9.000	418457	427740	126.595	53.068	#
40)	Toxaphene...	8.536	9.172	382296	553134	150.890	133.747	
41)	Toxaphene...	8.622f	9.580	3354300	816185	986.346	177.985	#
42)	Toxaphene...	3.718	3.697	5399556	259959	NoCal	NoCal	

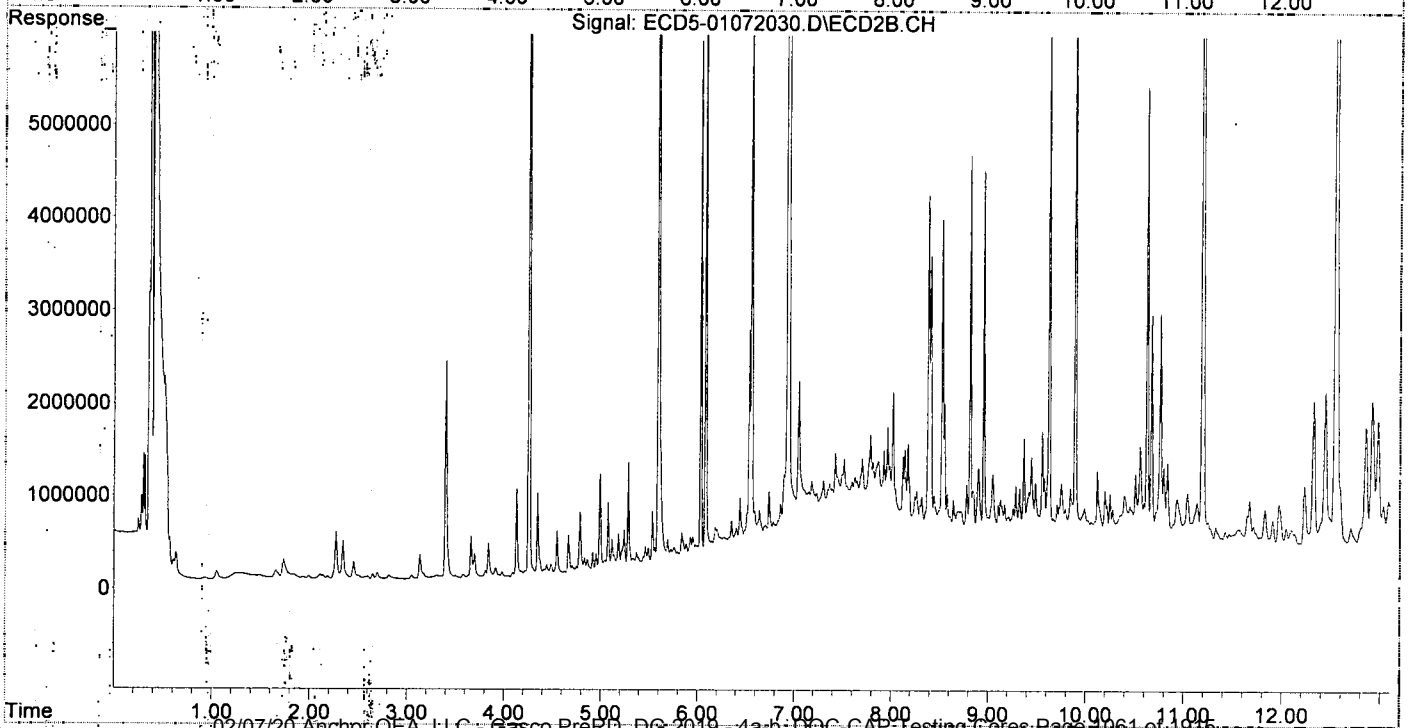
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 19:49
Operator : MJB
Sample : A9J0514-35RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 08 11:46:47 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

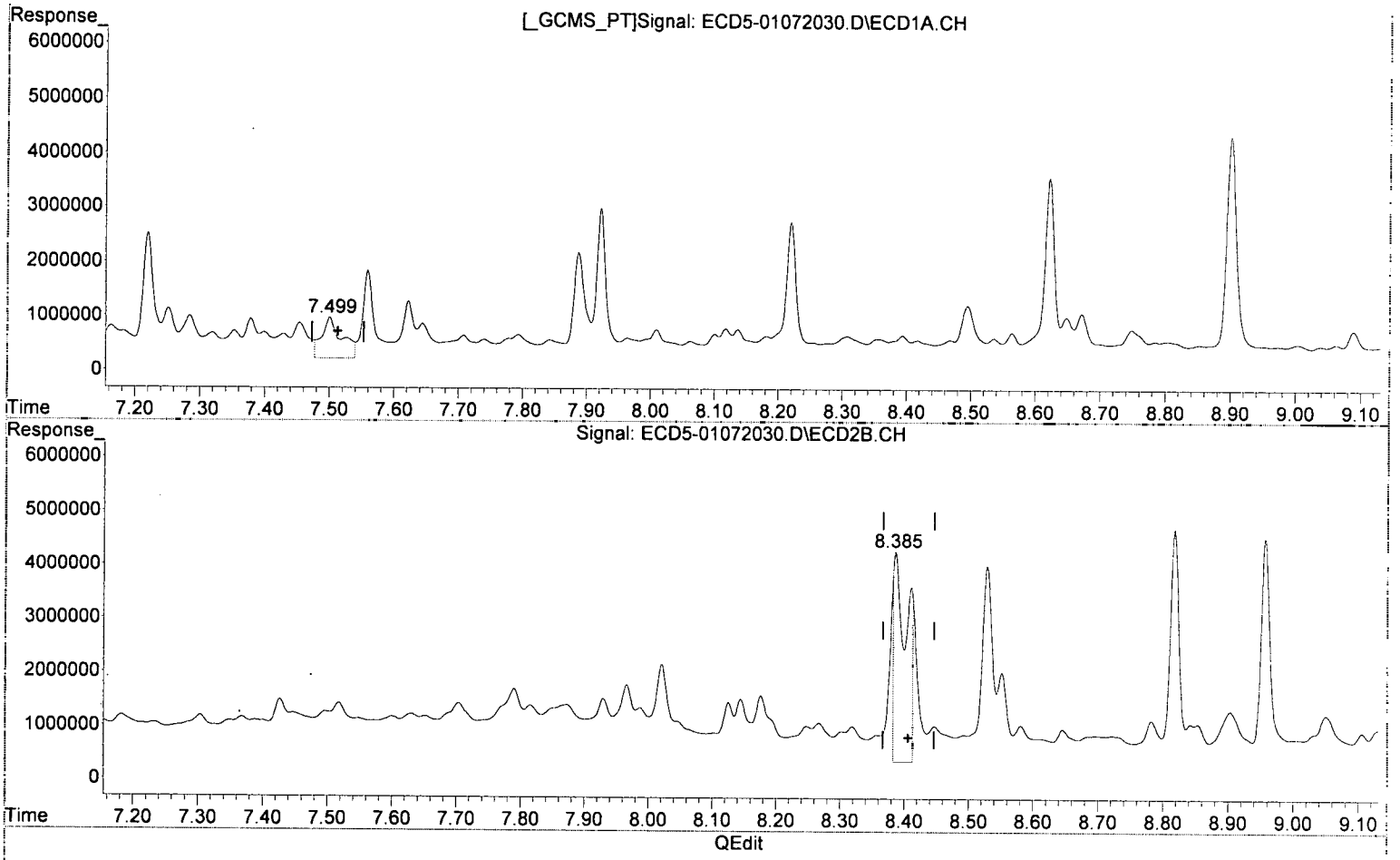




Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 19:49
Operator : MJB
Sample : A9J0514-35RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 08 11:18:33 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.500min 4.848 ng/mL Pos Q-31

response 744767

MJB 1/8/20

MJB 1/8/20

(12) 4,4'-DDE #2

8.385min 15.008 ng/mL (m) Pos Q-02

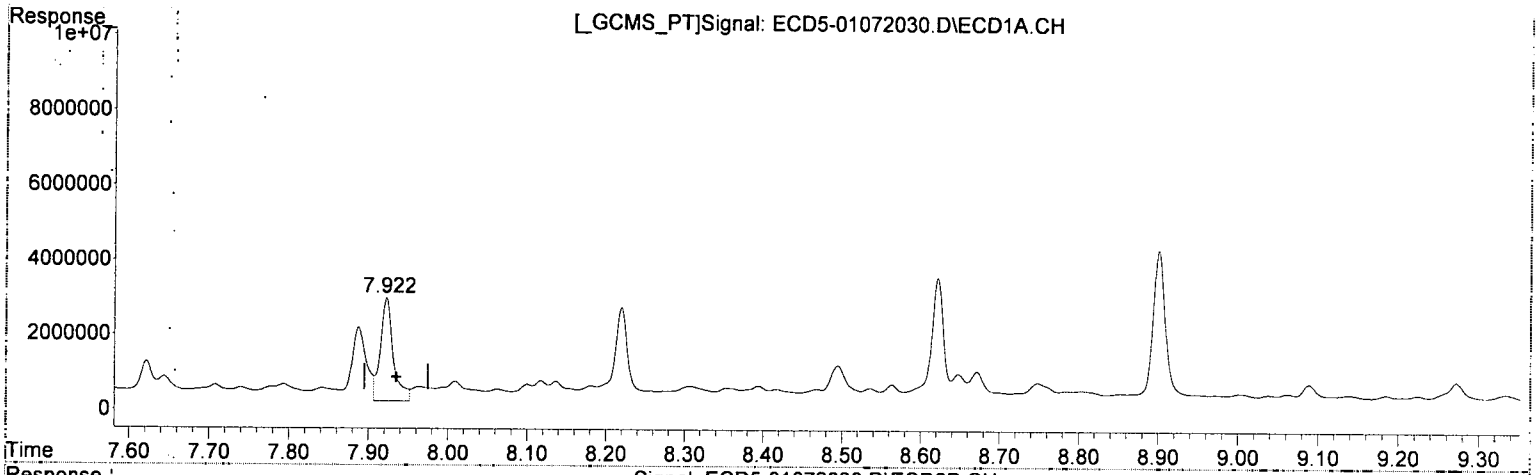
response 3917767

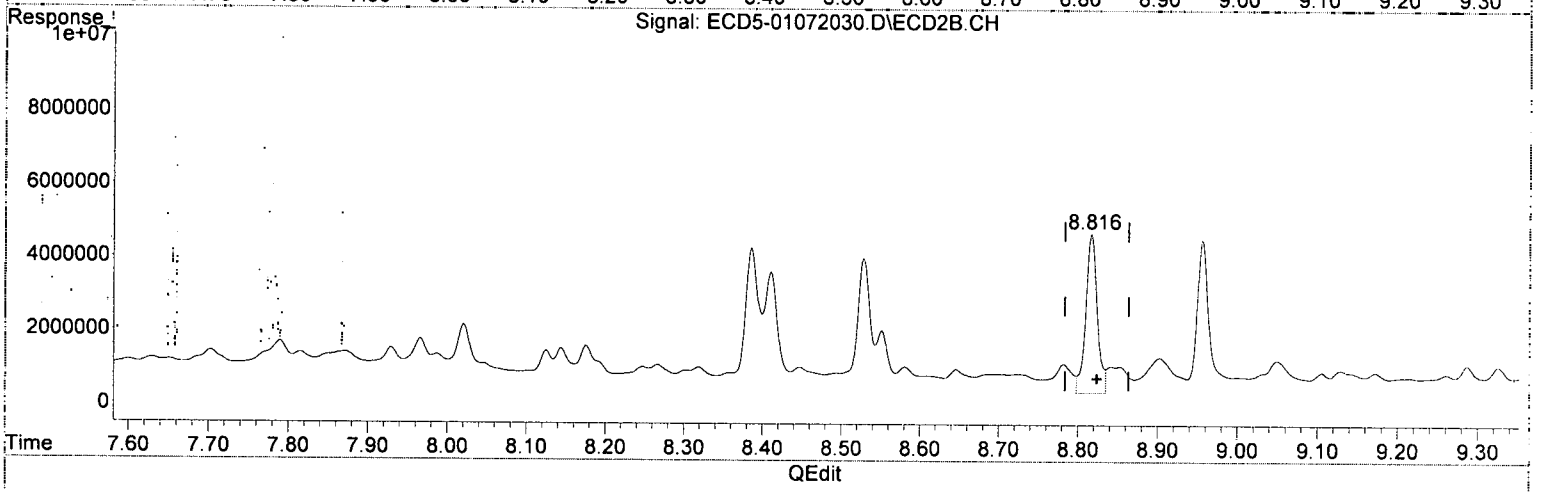
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 19:49
Operator : MJB
Sample : A9J0514-35RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 08 11:18:33 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(15) 4,4'-DDD

7.922min 22.215 ng/mL

response 2756988

MJB 1/8/20

(15) 4,4'-DDD #2

8.817min 20.219 ng/mL

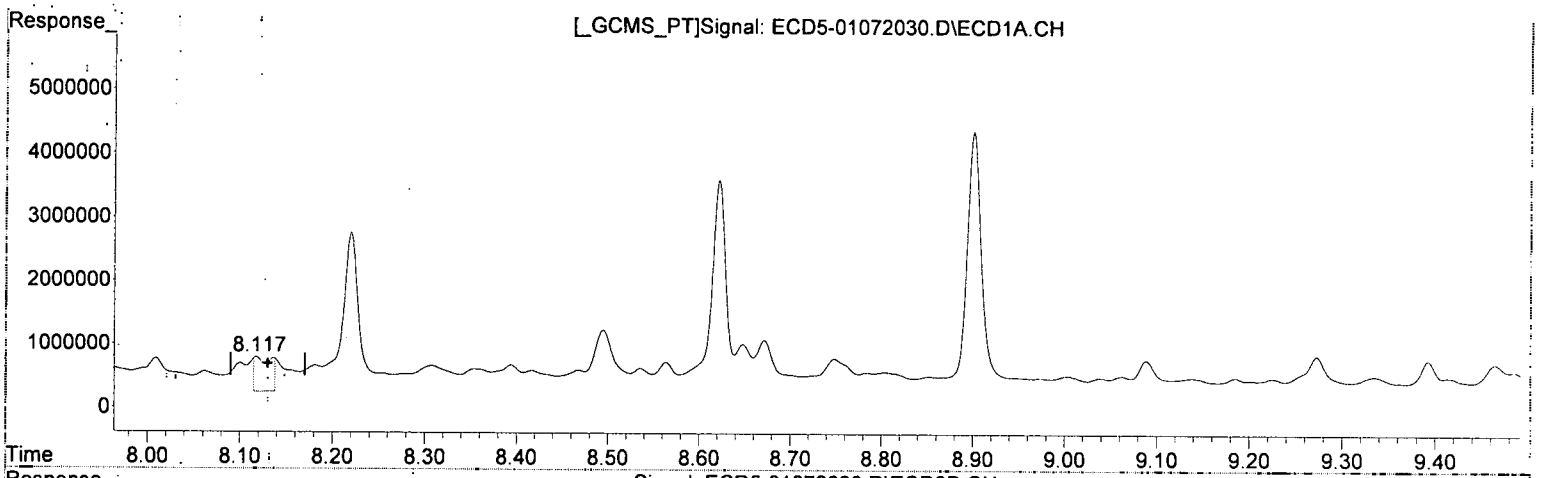
response 4328375

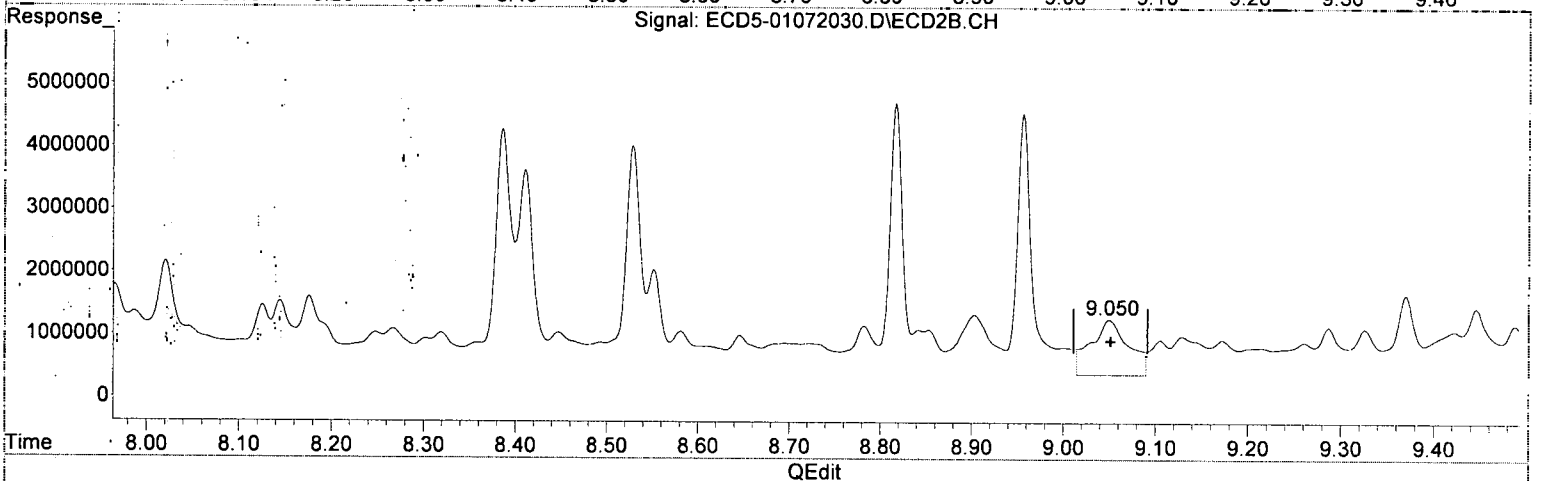
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 19:49
Operator : MJB
Sample : A9J0514-35RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 08 11:18:33 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(17) 4,4'-DDT

8.117min 5.933 ng/mL (m) P-02

response 551326

MJB 1/8/20

(17) 4,4'-DDT #2

9.050min 6.207 ng/mL P-01

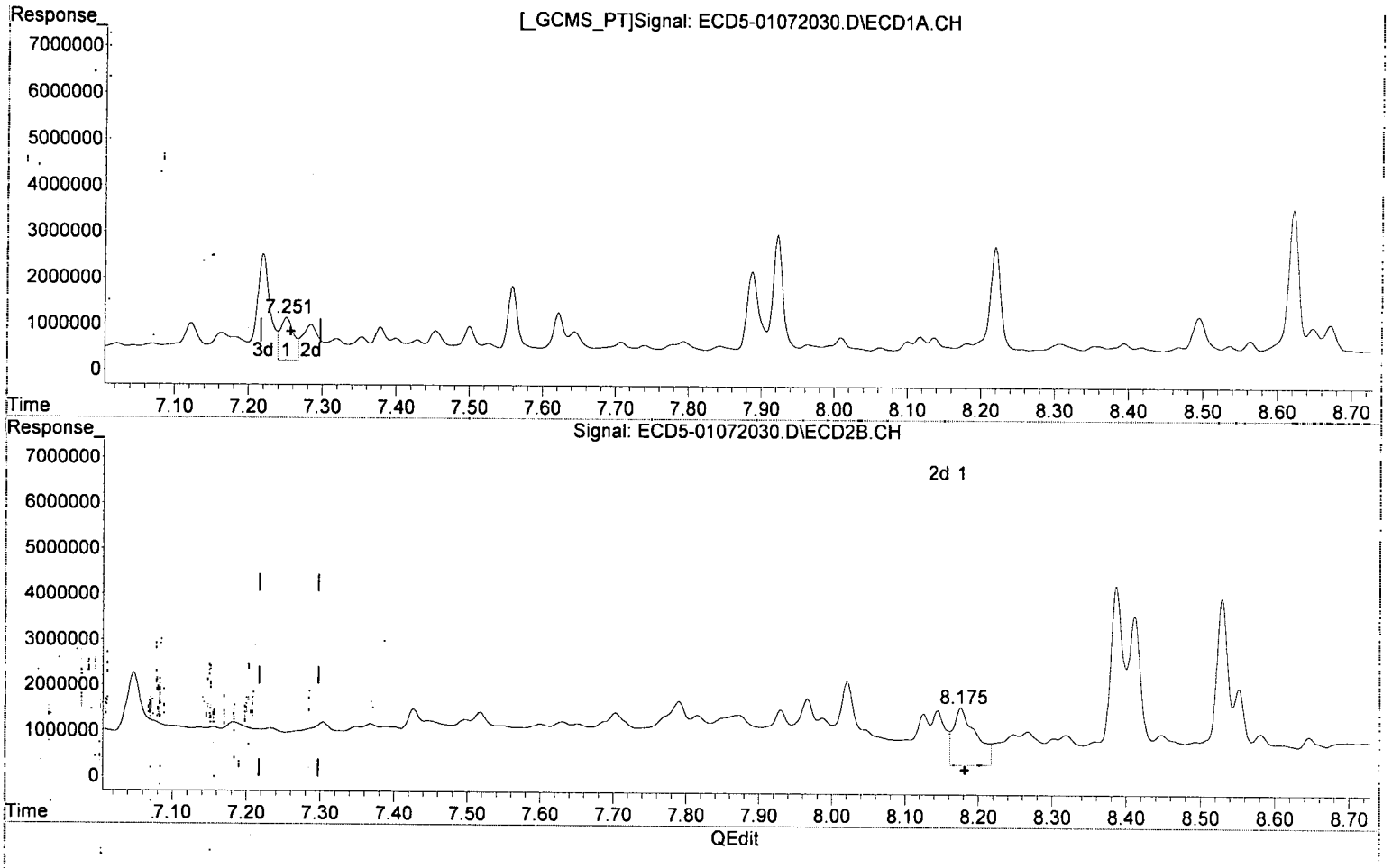
response 881673

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 19:49
Operator : MJB
Sample : A9J0514-35RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 08 11:18:33 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.251min 8.608 ng/mL

response 928141

MJB 1/6/20

(26) 2,4'-DDE #2

8.176min 6.581 ng/mL R.02

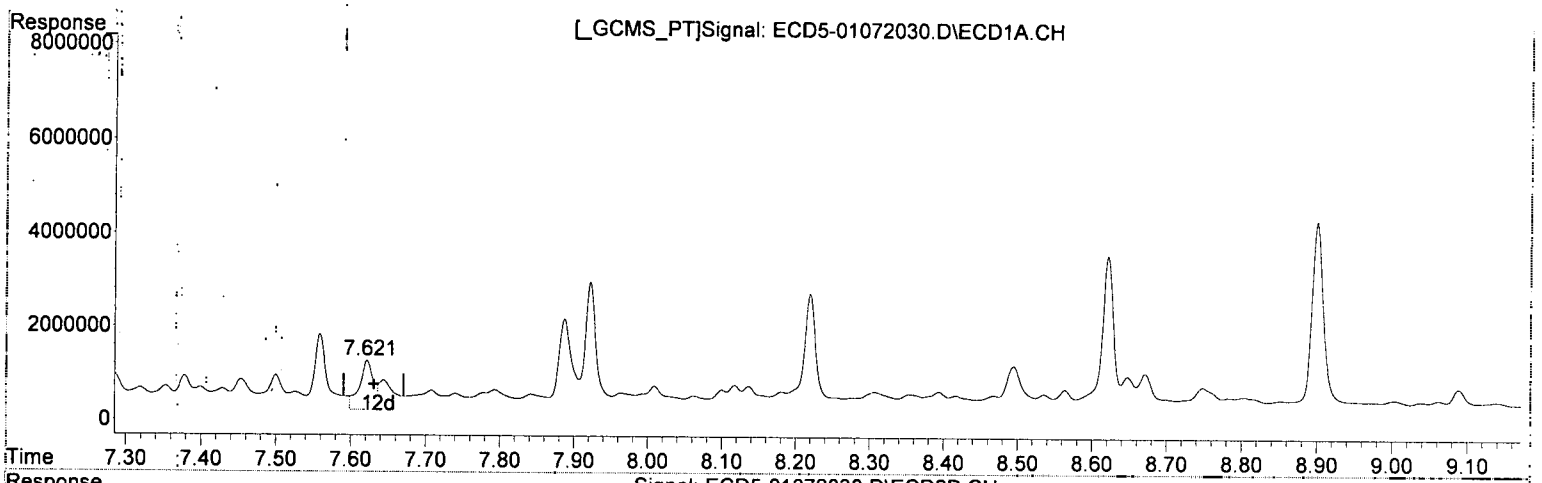
response 1251573

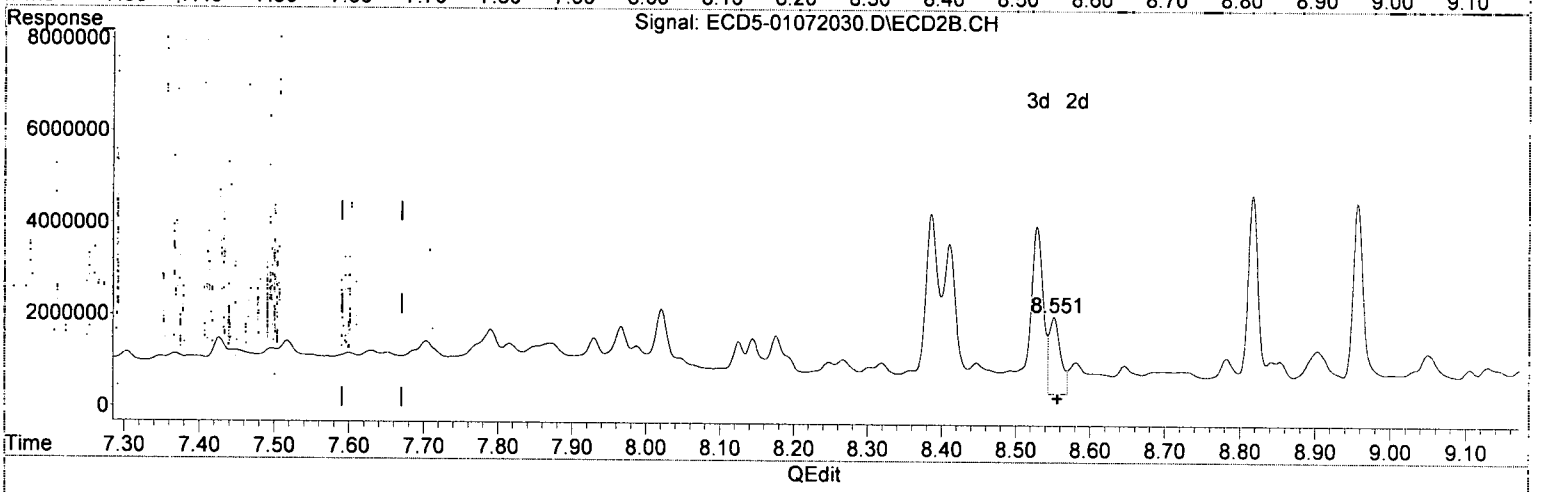
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 19:49
Operator : MJB
Sample : A9J0514-35RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 08 11:18:33 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(28) 2,4'-DDD

7.622min 10.708 ng/mL Q-21

response 1052867

MJB 1/8/20

(28) 2,4'-DDD #2

8.552min 9.870 ng/mL

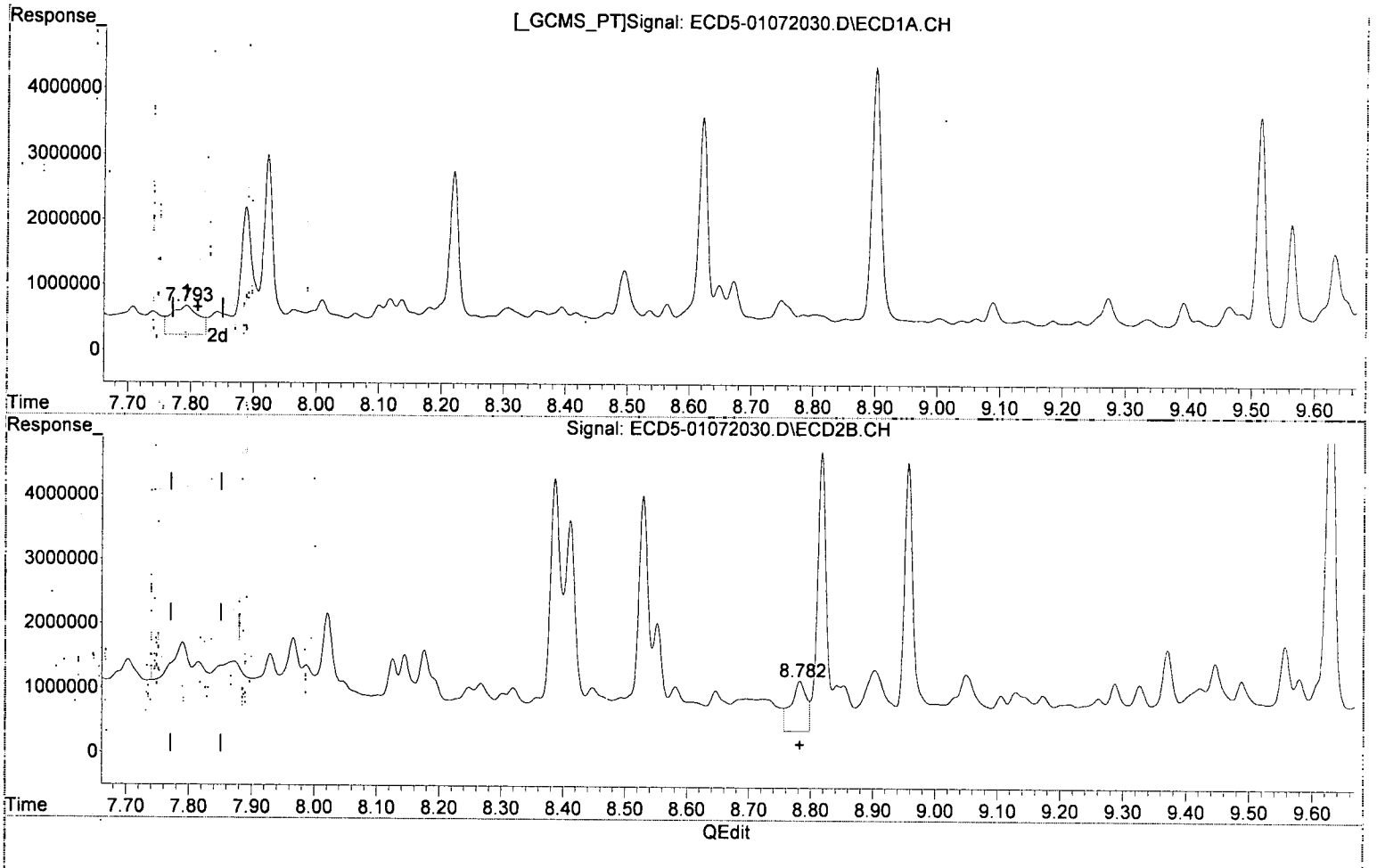
response 1673260

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 19:49
Operator : MJB
Sample : A9J0514-35RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 08 11:18:33 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.793min 4.518 ng/mL R-02

response 437208

MJF 1/9/20

(29) 2,4'-DDT #2

8.782min 5.752 ng/mL P-01

response 777510

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 19:49
Operator : MJB
Sample : A9J0514-35RE1@2
Misc : 2x,, 8081B 2,4+4,4-DDx, GPC
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: Jan 08 11:18:33 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJ MJB 1/9/20

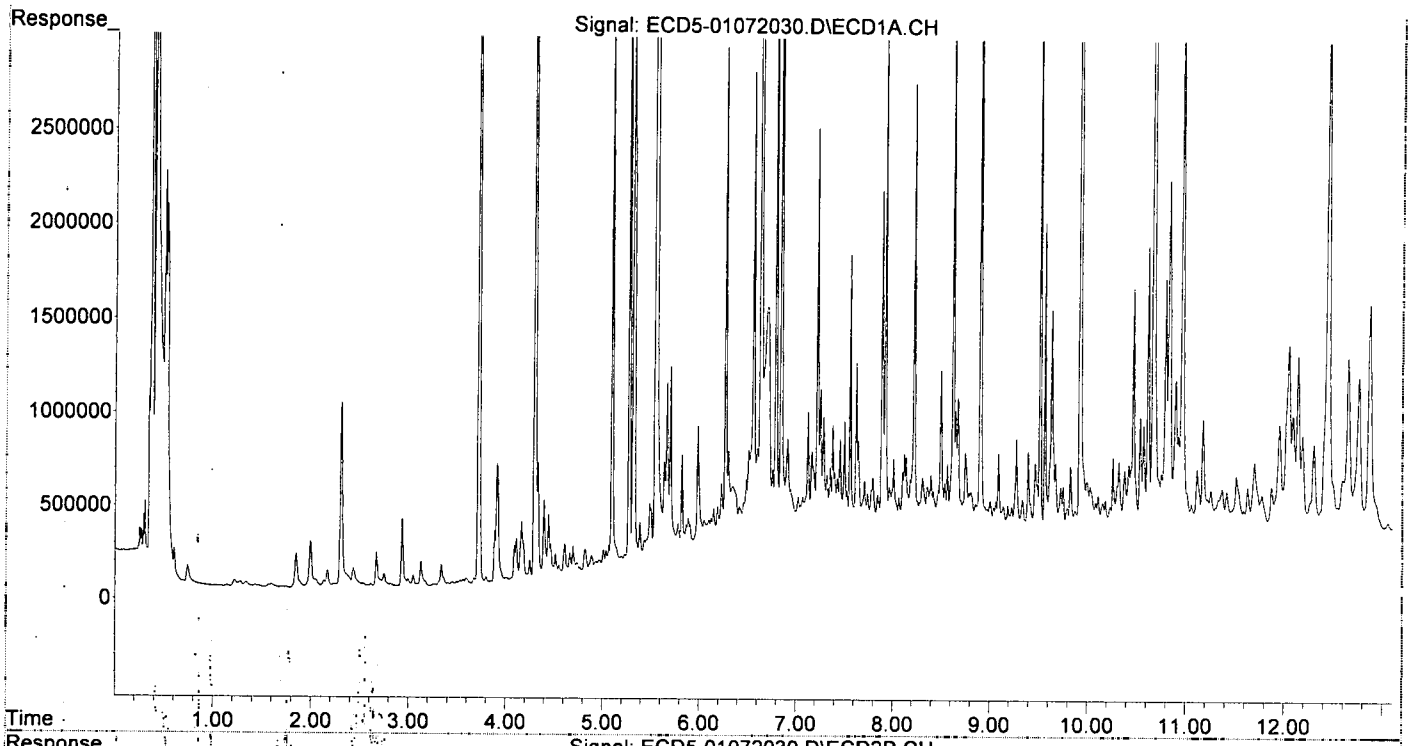
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.315	6.035	3246760	5690371	18.202	19.168	
22)	S	DCBP (S)	9.514	10.628	3361407	4992182	24.999	29.317	
		Target Compounds							
2)		a-BHC	5.867	6.643	248951	606019	1.037	1.523	#
3)		g-BHC	6.149	6.937f	324245	80919628	1.594	238.969	#
4)		b-BHC	6.228	7.047	452124	1980501	6.377	14.291	#
5)		Heptachlor	6.558	7.349	2633178	792412	14.322	2.649	#
6)		d-BHC	6.346f	7.304	436271	887939	3.120	3.110	
7)		Aldrin	6.789	7.600	3641634	862246	19.178	2.779	#
8)		Heptachlo...	7.251	8.021f	928141	1825739	5.166	6.375	
9)		trans-Chl...	7.353	8.176	503428	1251573	2.792	4.291	#
10)		cis-Chlor...	7.454	8.302	649335	582670	3.728	2.076	#
11)		Endosulfa...	7.559	8.358	1625837	517044	9.251	1.967	#
12)		4,4'-DDE	7.500	8.411	744767	3264039	4.848	12.551	#
13)		Dieldrin	7.708	8.552	423998	1673260	2.160	5.633	#
14)		Endrin	7.887	8.782	1947093	777510	12.744	3.804	#
15)		4,4'-DDD	7.922	8.817	2756988	4328375	22.215	20.219	
16)		Endosulfa...	8.009f	8.956f	529159	4161226	3.463	17.576	#
17)		4,4'-DDT	8.136	9.050	535541	881673	5.765	6.207	
18)		Endrin Al...	8.307	9.172	418457	553134	3.501	2.818	
19)		Endosulfa...	8.622	9.370	3354300	1261903	24.091	6.304	#
20)		Methoxychlor	8.495f	9.557f	991419	1322595	19.979	17.495	
21)		Endrin Ke...	8.803	9.752	326613	753297	1.826	3.414	#
23)		Hexachlor...	3.127	3.697f	131405	259959	0.652	0.718	
24)		Hexachlor...	5.701	6.488	1099981	400728	6.896	1.368	#
25)		Oxychlordane	7.164	7.987	597251	1019320	4.017	4.029	
26)		2,4'-DDE	7.251	8.176	928141	1251573	8.608	6.581	
27)		trans-Non...	7.429	8.248	445120	678971	2.476	2.407	
28)		2,4'-DDD	7.622	8.552	1052867	1673260	10.708	9.870	
29)		2,4'-DDT	7.793	8.782	437208	777510	4.518	5.752	
30)		cis-Nonac...	7.887	8.817	1947093	4328375	9.456	13.517	#
31)		Mirex	8.564	9.752	483214	753297	3.856	4.600	
32)		Chlordane...	7.379	8.248f	727028	678971	38.051	19.993	#
33)		Chlordane...	7.454	8.319	649335	671660	28.823	23.251	
34)		Chlordane...	8.009	9.000	529159	427740	92.704	41.482	#
35)		Chlordane...	3.718	3.697	5399556	259959	NoCal	NoCal	
36)		Toxaphene...	7.454	8.552	649335	1673260	774.887	707.195	
37)		Toxaphene...	7.740	8.903	351423	954040	217.064	322.111	#
38)		Toxaphene...	8.062	8.956	322810	4161226	96.200	858.677	#
39)		Toxaphene...	8.307	9.000	418457	427740	126.595	53.068	#
40)		Toxaphene...	8.536	9.172	382296	553134	150.890	133.747	
41)		Toxaphene...	8.622f	9.580	3354300	816185	986.346	177.985	#
42)		Toxaphene...	3.718	3.697	5399556	259959	NoCal	NoCal	

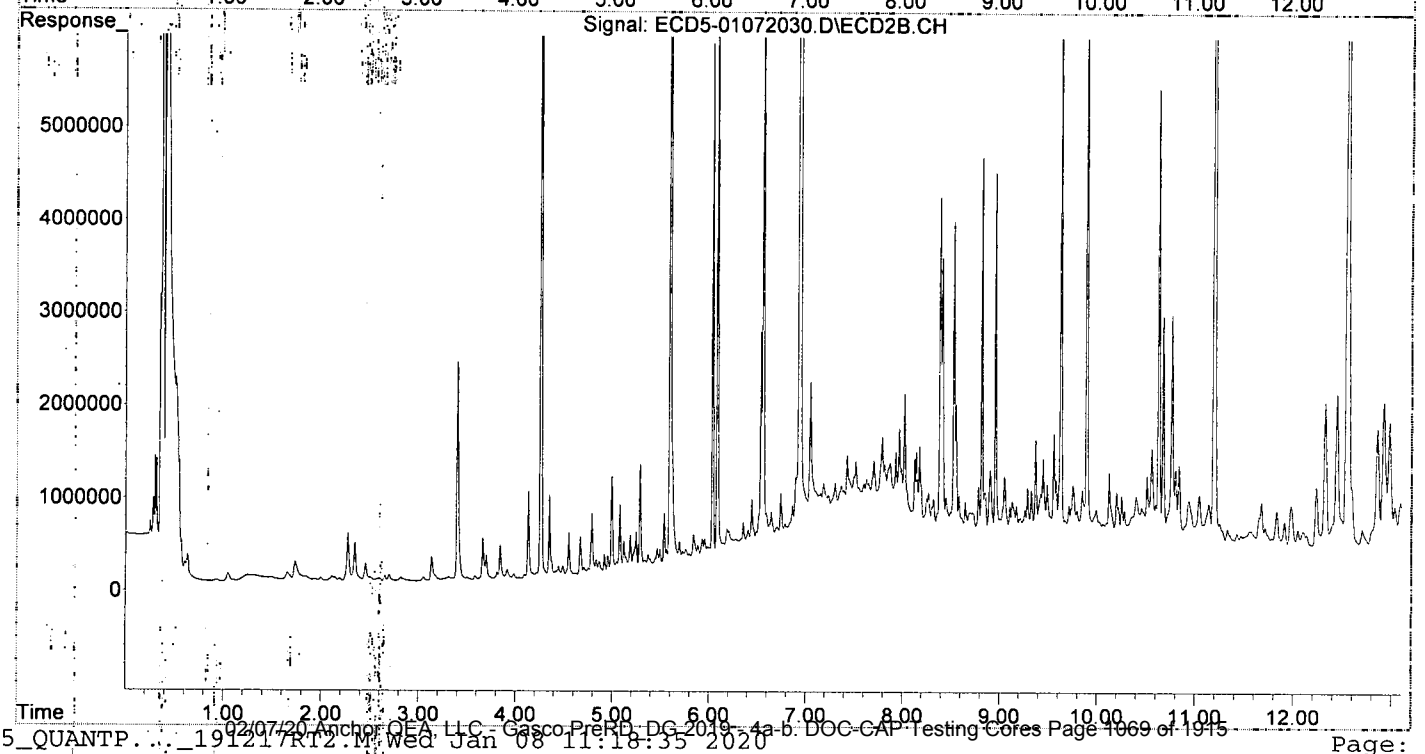
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 19:49
Operator : MJB
Sample : A9J0514-35RE1@2
Misc : 2x, 8081B 2,4+4,4-DDx, GPC
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: Jan 08 11:18:33 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 20:26
Operator : MJB
Sample : A9J0514-33RE2 (05)
Misc : 5x, 8081B 2,4+4,4-DDx, GPC, 4,4-DDT Only
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: Jan 08 11:18:41 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/8/20

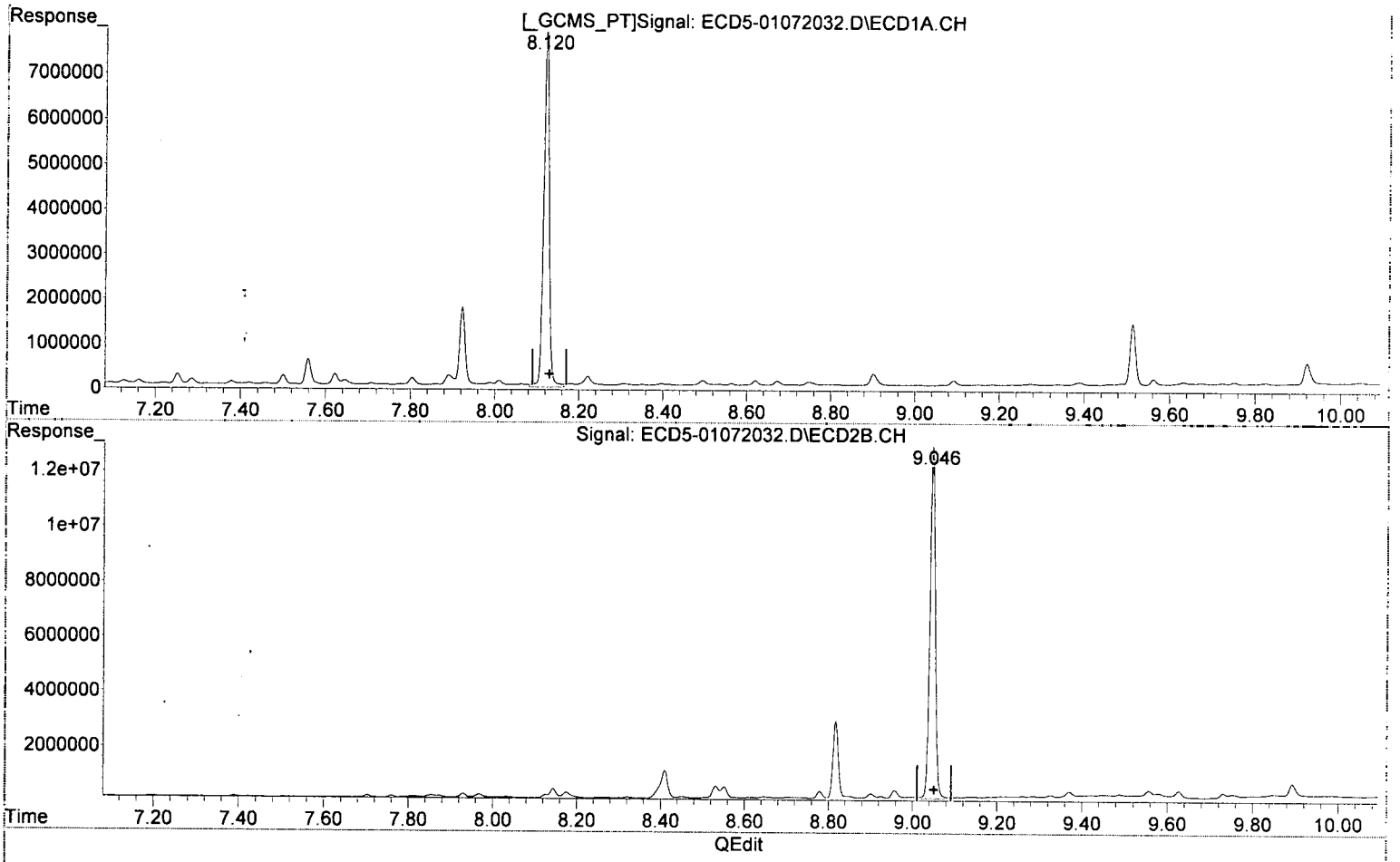
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.315	6.035	1074876	1758867	6.026	5.925	
22)	S DCBP (S)	9.514	10.626	1460136	1803441	10.788	10.591	
	Target Compounds							
2)	a-BHC	5.848	6.643	44852	54515	0.187	0.137	
3)	g-BHC	6.146	6.936f	32098	13283674	0.158	39.229	#
4)	b-BHC	6.229	7.044	53775	50045	0.758	0.361	#
5)	Heptachlor	6.559	7.305f	259147	20645	1.409	0.069	#
6)	d-BHC	6.384	7.282	35623	20037	0.225	0.026	#
7)	Aldrin	6.790	7.614	45302	7408	0.239	0.024	#
8)	Heptachlo...	7.252	8.032	263096	35500	1.464	0.124	#
9)	trans-Chl...	7.379f	8.176	102353	202508	0.568	0.694	
10)	cis-Chlor...	7.459	8.321	66327	28069	0.212	0.100	#
11)	Endosulfa...	7.559	8.355	610169	11828	3.472	0.045	#
12)	4,4'-DDE	7.500	8.410	243088	1011852	1.582	3.915	#
13)	Dieldrin	7.709	8.552	70697	424447	0.360	1.429	#
14)	Endrin	7.892	8.780	258154	250823	1.690	1.189	
15)	4,4'-DDD	7.923	8.817	1774270	2798719	14.399	13.184	
16)	Endosulfa...	8.011f	8.926	142782	74811	0.935	0.316	#
17)	4,4'-DDT	8.121	9.046	7888011	12747790	70.722	71.926	Q-41
18)	Endrin Al...	8.308	9.132f	81366	65438	0.681	0.333	#
19)	Endosulfa...	8.621	9.370	164635	254501	0.928	1.057	
20)	Methoxychlor	8.496f	9.557f	165841	289356	3.513	4.063	
21)	Endrin Ke...	8.800f	9.753	92057	162096	0.347	0.575	#
23)	Hexachlor...	3.128	3.699f	60435	125333	0.208	0.346	#
24)	Hexachlor...	5.699	6.513	71327	57113	0.270	0.195	
25)	Oxychlordane	7.162	7.968	117680	120313	0.638	0.476	
26)	2,4'-DDE	7.252	8.176	263096	202508	2.440	1.065	#
27)	trans-Non...	7.420	8.249	66861	20739	0.372	0.074	#
28)	2,4'-DDD	7.622	8.552	280727	424447	2.855	2.504	
29)	2,4'-DDT	7.805	8.780	197580	250823	2.042	1.810	
30)	cis-Nonac...	7.892	8.817	258154	2798719	1.254	8.740	#
31)	Mirex	8.564	9.753	97541	162096	0.575	0.700	
32)	Chlordane...	7.379	8.176f	102353	202508	5.357	5.963	
33)	Chlordane...	7.459	8.321	66327	28069	2.944	0.972	#
34)	Chlordane...	8.011	8.999	142782	63148	25.014	BelowCal	#
35)	Chlordane...	3.719	3.699	2560124	125333	NoCal	NoCal	
36)	Toxaphene...	7.459	8.552	66327	424447	77.483	179.390	#
37)	Toxaphene...	7.740	8.901	53871	165045	30.121	55.724	#
38)	Toxaphene...	8.064	8.958	65791	299720	17.230	61.848	#
39)	Toxaphene...	8.308	8.999	81366	63148	19.569	0.485	#
40)	Toxaphene...	8.537	9.210	82678	82457	32.633	17.294	#
41)	Toxaphene...	8.621f	9.579	164635	192562	48.411	41.992	
42)	Toxaphene...	3.719	3.699	2560124	125333	NoCal	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 20:26
Operator : MJB
Sample : A9J0514-33RE2@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC, 4,4-DDT Only
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: Jan 08 11:18:41 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.121min 70.722 ng/mL

response 7888011

MJB 1/6/20

(17) 4,4'-DDT #2

9.046min 71.926 ng/mL 6-41

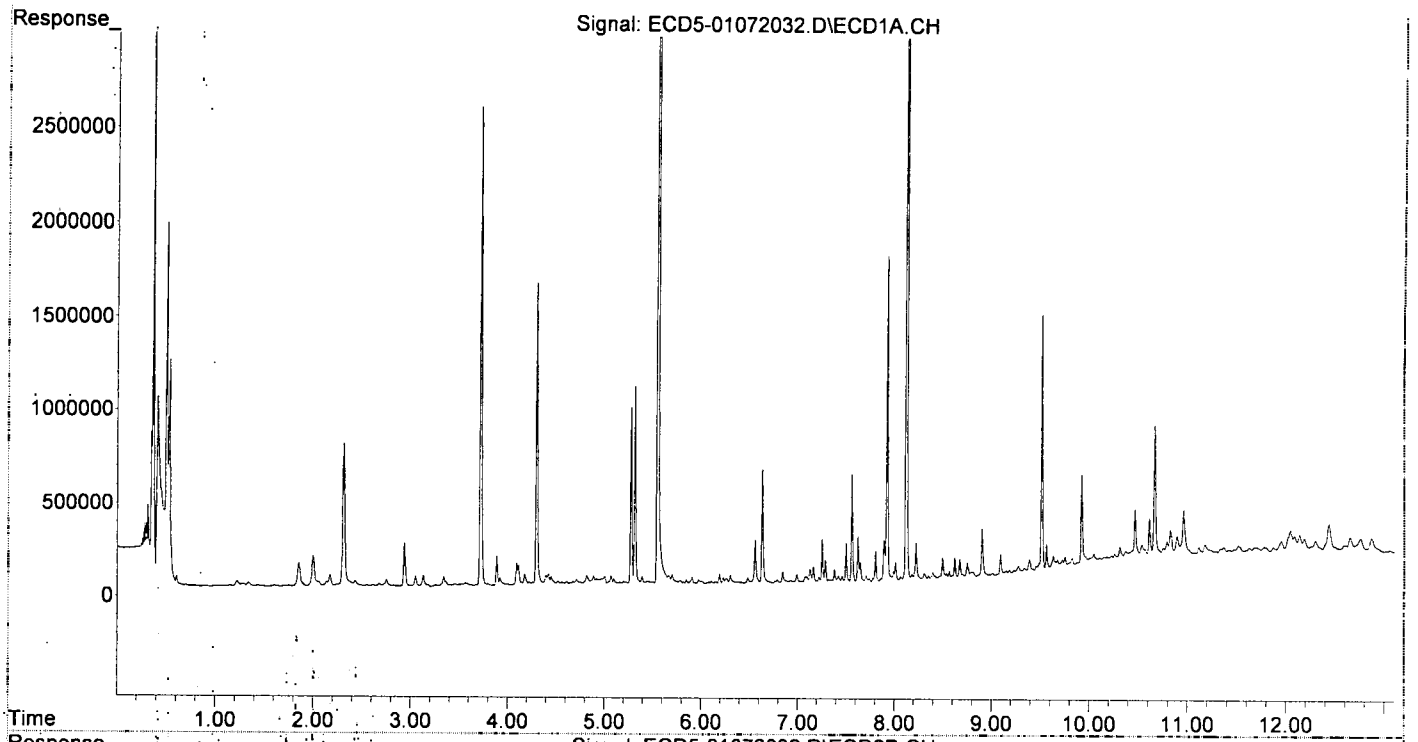
response 12747790

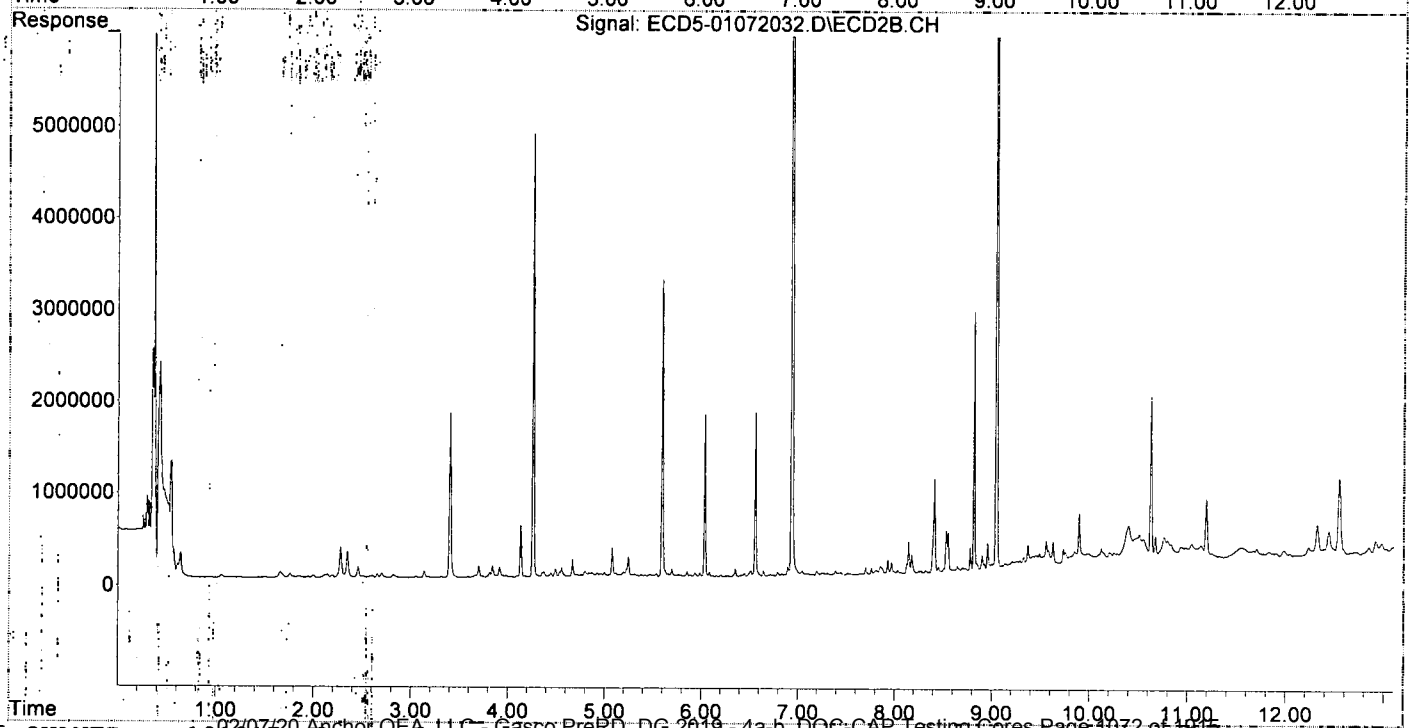
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 20:26
Operator : MJB
Sample : A9J0514-33RE2@5
Misc : 5x, 8081B 2,4+4,4-DDx, GPC, 4,4-DDT Only
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: Jan 08 11:18:41 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 21:42
Operator : MJB
Sample : 0A07035-CCV4
Misc : A19K133, 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: Jan 08 11:18:55 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/8/20

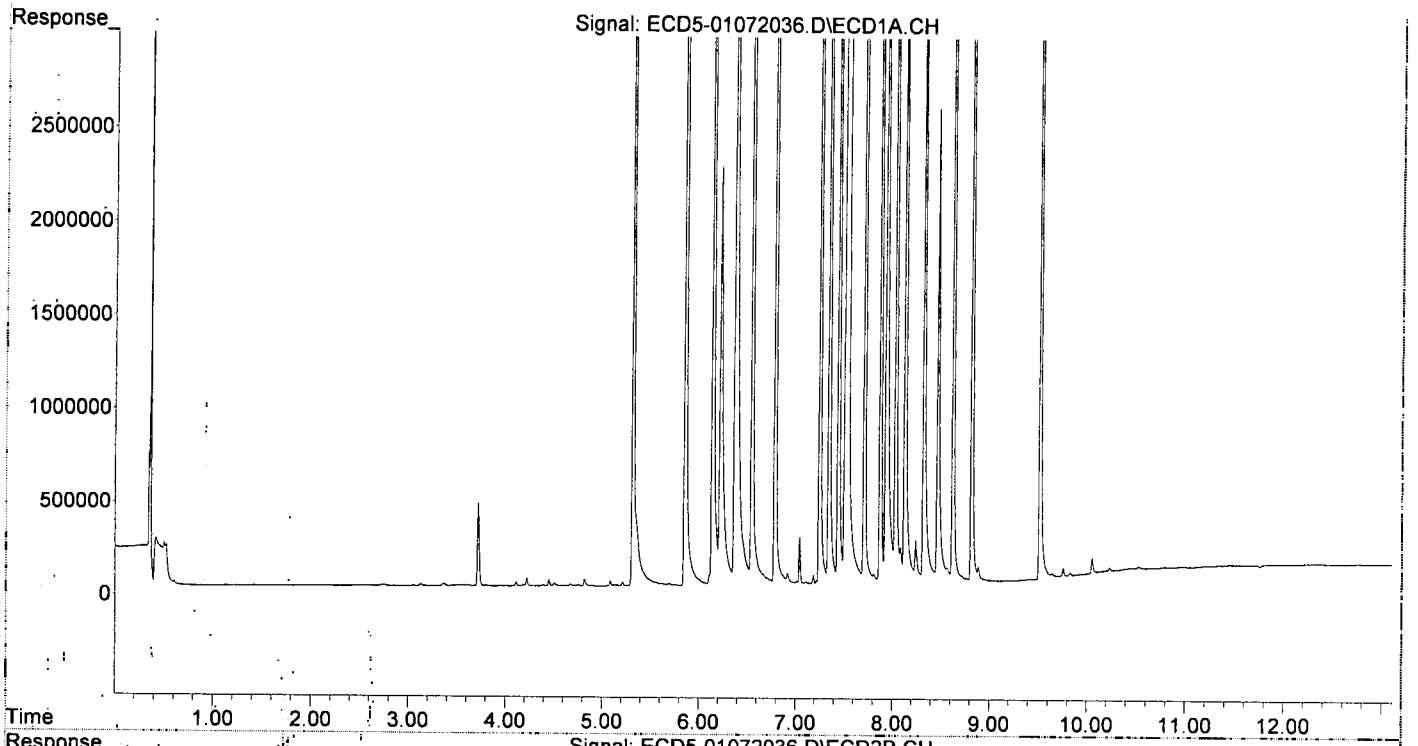
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.315	6.036	7525004	13829234	42.188	46.584	
22)	S DCBP (S)	9.518	10.628	6353161	8753240	47.105	51.405	
	Target Compounds							
2)	a-BHC	5.855	6.645	11494984	21874278	47.883	54.968	
3)	g-BHC	6.138	6.964	9136017	17766231	44.925	52.467	
4)	b-BHC	6.218	7.029	2225965	6022335	31.395	43.457	
5)	Heptachlor	6.546	7.341	9674782	18201155	52.620	60.835	
6)	d-BHC	6.372	7.286	4855176	14731335	33.037	48.062	#
7)	Aldrin	6.786	7.609	9629670	17251570	50.712	55.600	
8)	Heptachlo...	7.248	8.049	8943632	15531208	49.780	54.232	
9)	trans-Chl...	7.344	8.189	8530704	15764830	47.317	54.047	
10)	cis-Chlor...	7.441	8.297	8895955	15239971	51.970	54.303	
11)	Endosulfa...	7.538	8.349	9268943	14406368	52.742 Q31	54.810	
12)	4,4'-DDE	7.512	8.404	5811589	13306841	37.827	48.172	
13)	Dieldrin	7.709	8.550	9964546	16696219	50.767	56.207	
14)	Endrin	7.874	8.780	8241215	13550445	53.941 Q31	61.063	
15)	4,4'-DDD	7.933	8.822	4913158	11161216	38.792	49.770	
16)	Endosulfa...	8.032	8.927	7321511	12894693	47.919	54.465	
17)	4,4'-DDT	8.127	9.049	5605926	10871047	52.755	62.856 Q41	
18)	Endrin Al...	8.322	9.164	5997451	10895872	50.172	55.507	
19)	Endosulfa...	8.624	9.355	7134497	12429160	50.554	59.049	
20)	Methoxychlor	8.467	9.528	2533887	5467005	48.151	64.363	
21)	Endrin Ke...	8.817	9.760	8879786	14510851	53.569	62.344	
23)	Hexachlor...	3.128	0.000	10700	0	BelowCal	N.D.	
24)	Hexachlor...	5.697	0.000	13115	0	BelowCal	N.D.	
25)	Oxychlordane	7.184	7.975	46732	8155	0.137	0.032	#
26)	2,4'-DDE	7.248	8.189	8943632	15764830	82.950	82.895	
27)	trans-Non...	7.441	8.249	8895955	84227	49.490	0.299	#
28)	2,4'-DDD	0.000	8.550	0	16696219	N.D.	98.481	#
29)	2,4'-DDT	7.810	8.780	46845	13550445	0.484	85.759	#
30)	cis-Nonac...	7.874f	8.822	8241215	11161216	40.021	34.856	
31)	Mirex	0.000	9.760	0	14510851	N.D.	86.921	#
32)	Chlordane...	7.344f	8.189f	8530704	15764830	446.476	464.217	
33)	Chlordane...	7.441f	8.297f	8895955	15239971	394.877	527.575	
34)	Chlordane...	8.032f	9.005	7321511	80448	1282.670	BelowCal	#
35)	Chlordane...	3.719	0.000	446718	0	NoCal	N.D.	
36)	Toxaphene...	7.441	8.550	8895955	16696219	9226.969	7056.576	
37)	Toxaphene...	7.709f	8.927	9964546	12894693	6829.314	4353.621	
38)	Toxaphene...	8.086f	8.927f	186212	12894693	54.319	2660.846	#
39)	Toxaphene...	8.322f	9.005	5997451	80448	1756.768	2.995	#
40)	Toxaphene...	0.000	9.164f	0	10895872	N.D.	2289.761	#
41)	Toxaphene...	8.624f	9.611f	7134497	52840	2097.928	11.523	#
42)	Toxaphene...	3.719	0.000	446718	0	NoCal	N.D.	

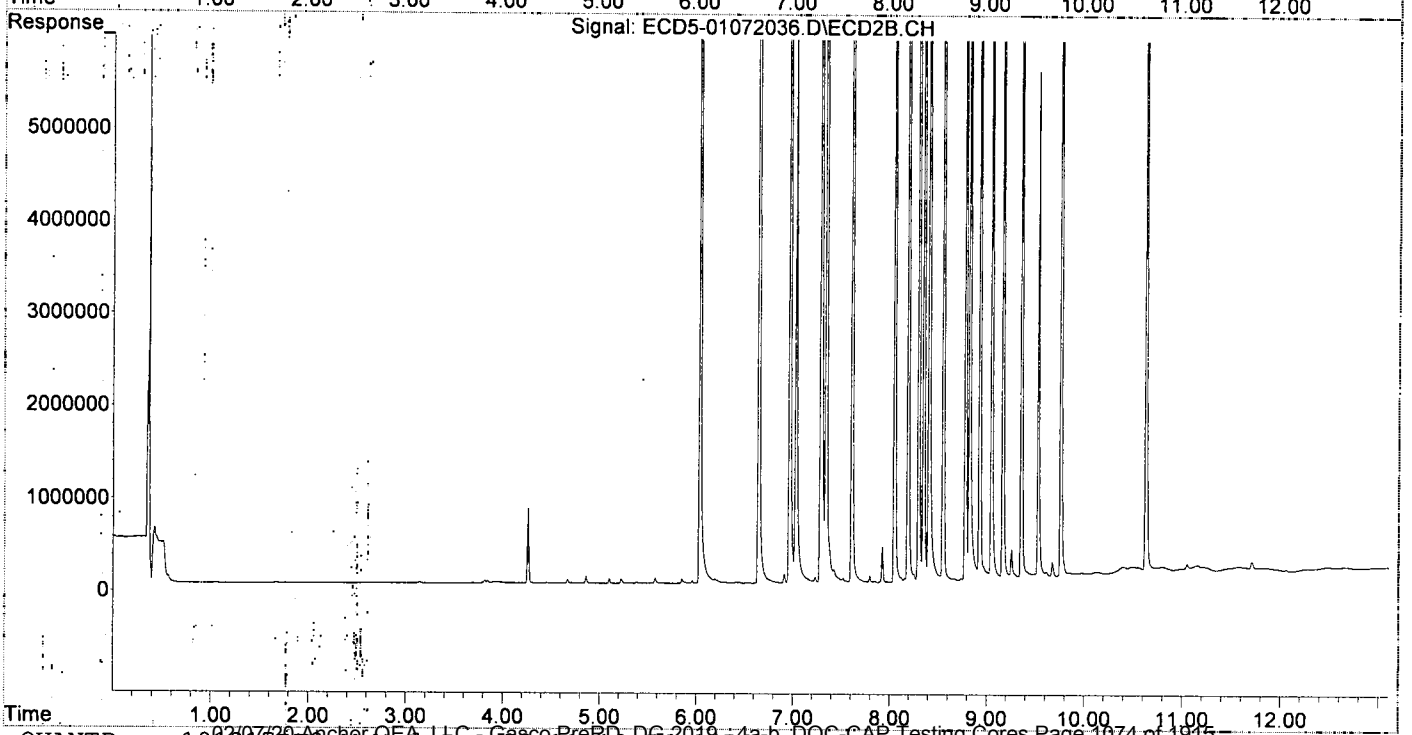
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 21:42
Operator : MJB
Sample : 0A07035-CCV4
Misc : A19K133, 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: Jan 08 11:18:55 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-010720037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 21:59
Operator : MJB
Sample : 0A07035-CCV5
Misc : A19J408, 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: Jan 08 11:19:02 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

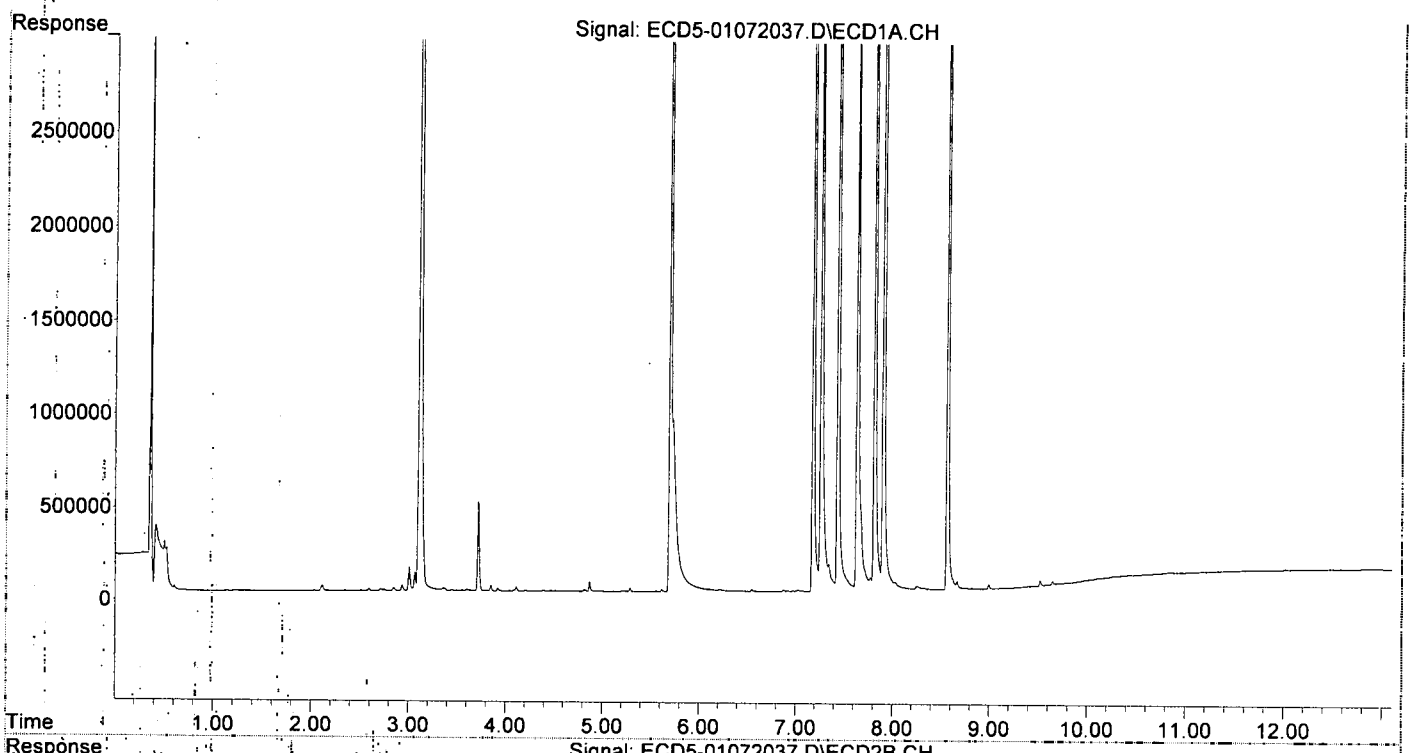
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.288f	6.044	20884	9065	0.117	0.031	#
22)	S DCBP (S)	9.521	10.629	32817	61126	0.034	0.359	#
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.111f	0.000	10675	0	0.052	N.D.	#
4)	b-BHC	6.212	0.000	8757	0	0.124	N.D.	#
5)	Heptachlor	6.549	7.341	9464	20338	0.051	0.068	
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...	7.260	8.090f	3985134	63570	22.181	0.222	#
9)	trans-Chl...	7.344	8.182	150157	9113758	0.833	31.245	#
10)	cis-Chlor...	7.434	0.000	8388154	0	49.075	N.D.	#
11)	Endosulfa...	0.000	8.353	0	23960	N.D.	0.091	#
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)	Dieldrin	0.000	8.557	0	7930560	N.D.	26.698	#
14)	Endrin	7.904f	8.782	9944671	9885248	65.090	45.678	
15)	4,4'-DDD	7.904f	8.822	9944671	18144848	74.870	77.396	
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...	8.328	9.166	12684	10513	0.106	0.054	#
19)	Endosulfa...	8.668f	9.357	44358	6780	0.039	BelowCal	#
20)	Methoxychlor	0.000	9.496f	0	3406	N.D.	0.179	#
21)	Endrin Ke...	8.820	9.754	5179	9938522	BelowCal	44.057	
23)	Hexachlor...	3.111	3.721	9209030	20632895	56.422	56.966	
24)	Hexachlor...	5.696	6.505	6165053	12727984	38.190	43.437	
25)	Oxychlordane	7.178	7.977	7378834	13859577	49.970 Q-31	54.782	
26)	2,4'-DDE	7.260	8.182	3985134	9113758	36.961	47.922	
27)	trans-Non...	7.434	8.253	8388154	15249872	46.665	54.054	
28)	2,4'-DDD	7.633	8.557	3504689	7930560	35.644 Q-31	46.778	
29)	2,4'-DDT	7.813	8.782	5009722	9885248	51.774	65.177 Q-41	
30)	cis-Nonac...	7.904	8.822	9944671	18144848	48.294	56.666	
31)	Mirex	8.567	9.754	6073049	9938522	50.924	61.135	
32)	Chlordane...	7.344f	8.182f	150157	9113758	7.859	268.367	#
33)	Chlordane...	7.434f	8.353f	8388154	23960	372.336	0.829	#
34)	Chlordane...	0.000	8.974	0	44742	N.D.	BelowCal	
35)	Chlordane...	3.718	3.721	480634	20632895	NoCal	NoCal	
36)	Toxaphene...	7.434f	8.557	8388154	7930560	8764.363	3351.813	#
37)	Toxaphene...	7.777f	0.000	71915	0	41.432	N.D.	#
38)	Toxaphene...	0.000	8.974f	0	44742	N.D.	9.233	#
39)	Toxaphene...	8.328f	8.974f	12684	44742	BelowCal	BelowCal	
40)	Toxaphene...	8.567f	9.166f	6073049	10513	2397.002	BelowCal	#
41)	Toxaphene...	8.567f	0.000	6073049	0	1785.805	N.D.	#
42)	Toxaphene...	3.718	3.721	480634	20632895	NoCal	NoCal	

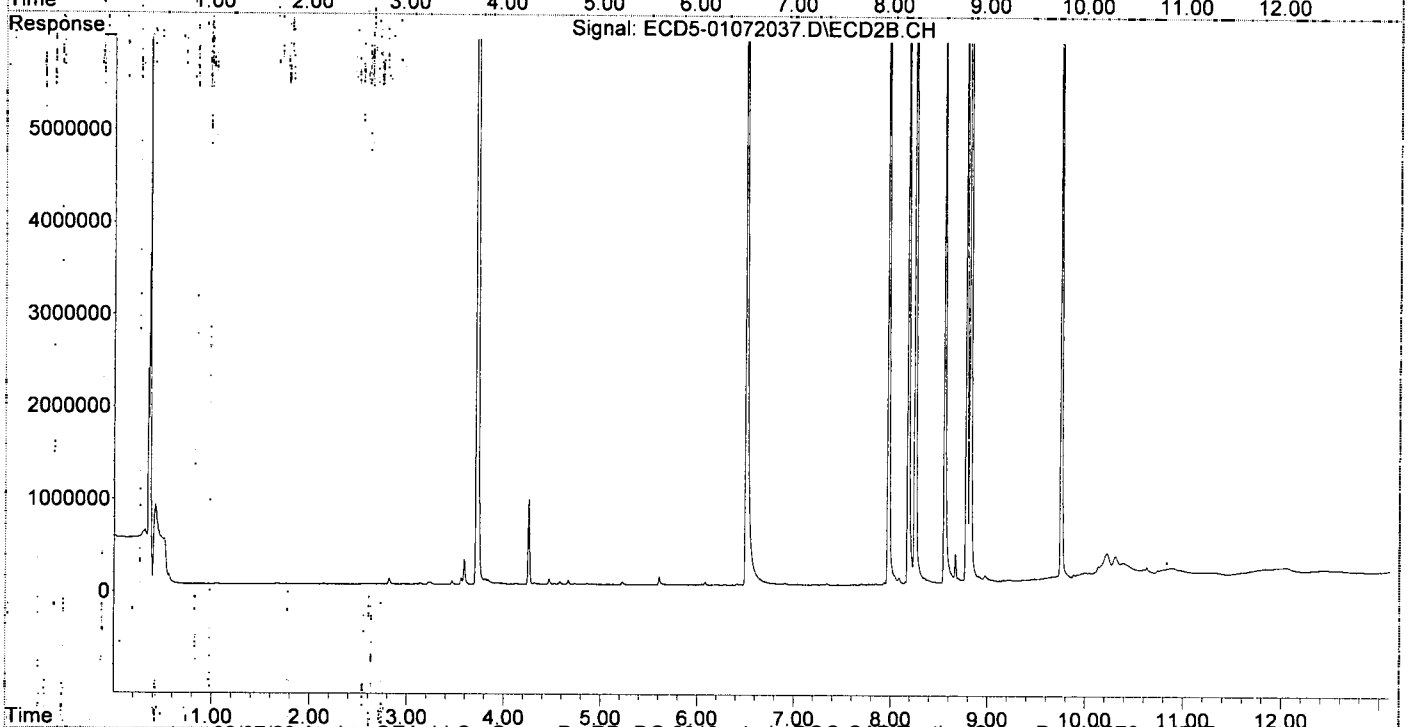
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 21:59
Operator : MJB
Sample : 0A07035-CCV5
Misc : A19J408, 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: Jan 08 11:19:02 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 22:16
Operator : MJB
Sample : 0A07035-CCB3
Misc : A19L339
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: Jan 08 11:19:09 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/8/20

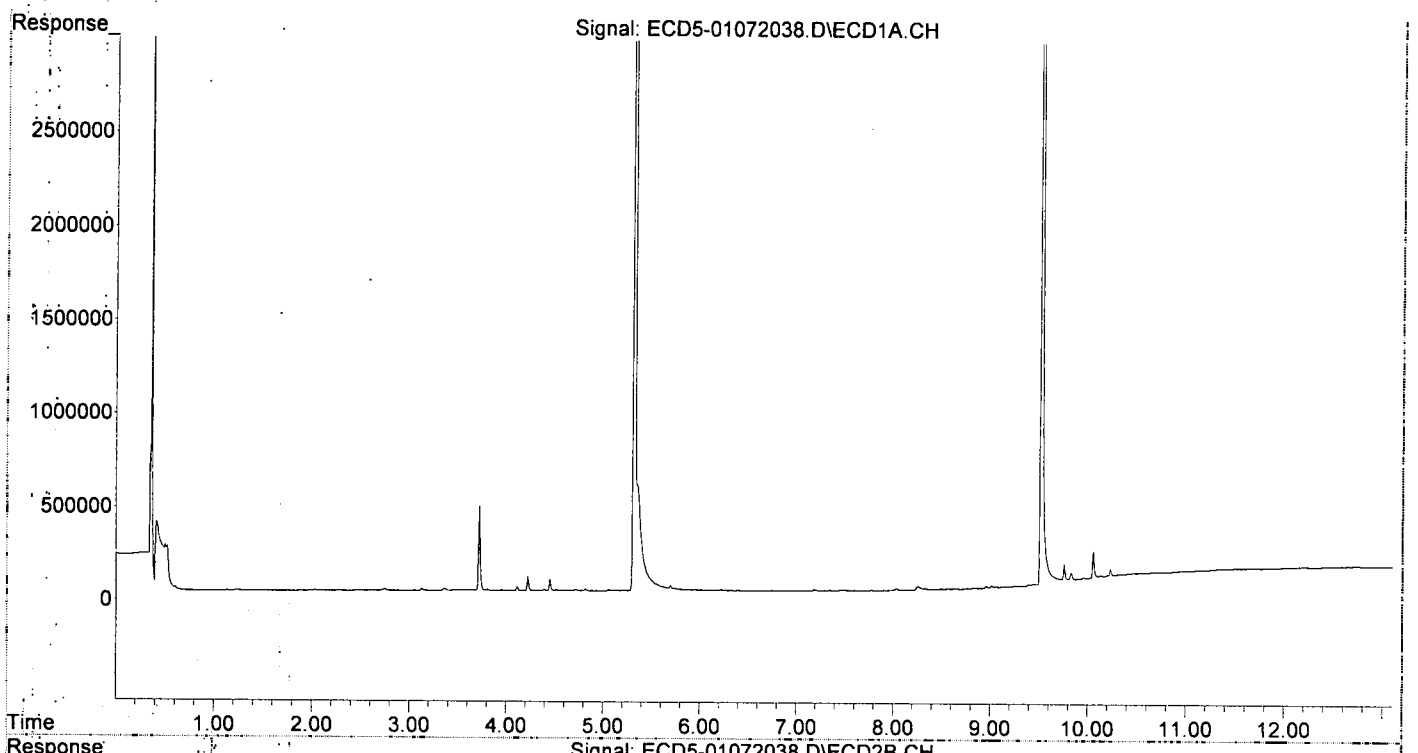
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.317	6.037	15208501	30296506	85.264	102.054	
22)	S	DCBP (S)	9.521	10.630	12245041	18219114	89.767	106.995	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.217	0.000	4577	0	0.065	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	7.621	0	8636	N.D.	0.028	#
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.343	8.217f	3547	12088	0.020	0.041	#
10)		cis-Chlor...	7.474f	0.000	4050	0	BelowCal	N.D.	
11)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)		4,4'-DDE	7.474f	0.000	4050	0	0.026	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...	8.033	8.911	10068	14858	0.066	0.063	
17)		4,4'-DDT	0.000	9.045	0	2741	N.D.	0.235	#
18)		Endrin Al...	8.328	9.167	8425	8655	0.070	0.044	
19)		Endosulfa...	8.630	9.359	5146	7830	BelowCal	BelowCal	
20)		Methoxychlor	8.505f	0.000	2584	0	0.118	N.D.	#
21)		Endrin Ke...	8.824	9.763	2953	10016	BelowCal	BelowCal	
23)		Hexachlor...	3.128	0.000	10321	0	BelowCal	N.D.	
24)		Hexachlor...	5.698	6.507	28546	4472	BelowCal	0.015	
25)		Oxychlordane	7.186	7.941f	7521	18490	BelowCal	0.073	
26)		2,4'-DDE	0.000	8.217f	0	12088	N.D.	0.064	#
27)		trans-Non...	0.000	8.217f	0	12088	N.D.	0.043	#
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	8.576	9.763	2738	10016	BelowCal	BelowCal	
32)		Chlordane...	7.343f	8.217	3547	12088	0.186	0.356	#
33)		Chlordane...	7.474	0.000	4050	0	0.180	N.D.	#
34)		Chlordane...	8.033f	8.974	10068	45343	1.764	BelowCal	#
35)		Chlordane...	3.719	0.000	457228	0	NoCal	N.D.	
36)		Toxaphene...	7.474	0.000	4050	0	1.920	N.D.	#
37)		Toxaphene...	0.000	8.911	0	14858	N.D.	5.016	#
38)		Toxaphene...	8.033f	8.974f	10068	45343	0.013	9.357	#
39)		Toxaphene...	8.328f	9.045f	8425	2741	BelowCal	BelowCal	
40)		Toxaphene...	8.505f	9.167f	2584	8655	1.020	BelowCal	#
41)		Toxaphene...	8.576f	9.612f	2738	8865	0.805	1.933	#
42)		Toxaphene...	3.719	0.000	457228	0	NoCal	N.D.	

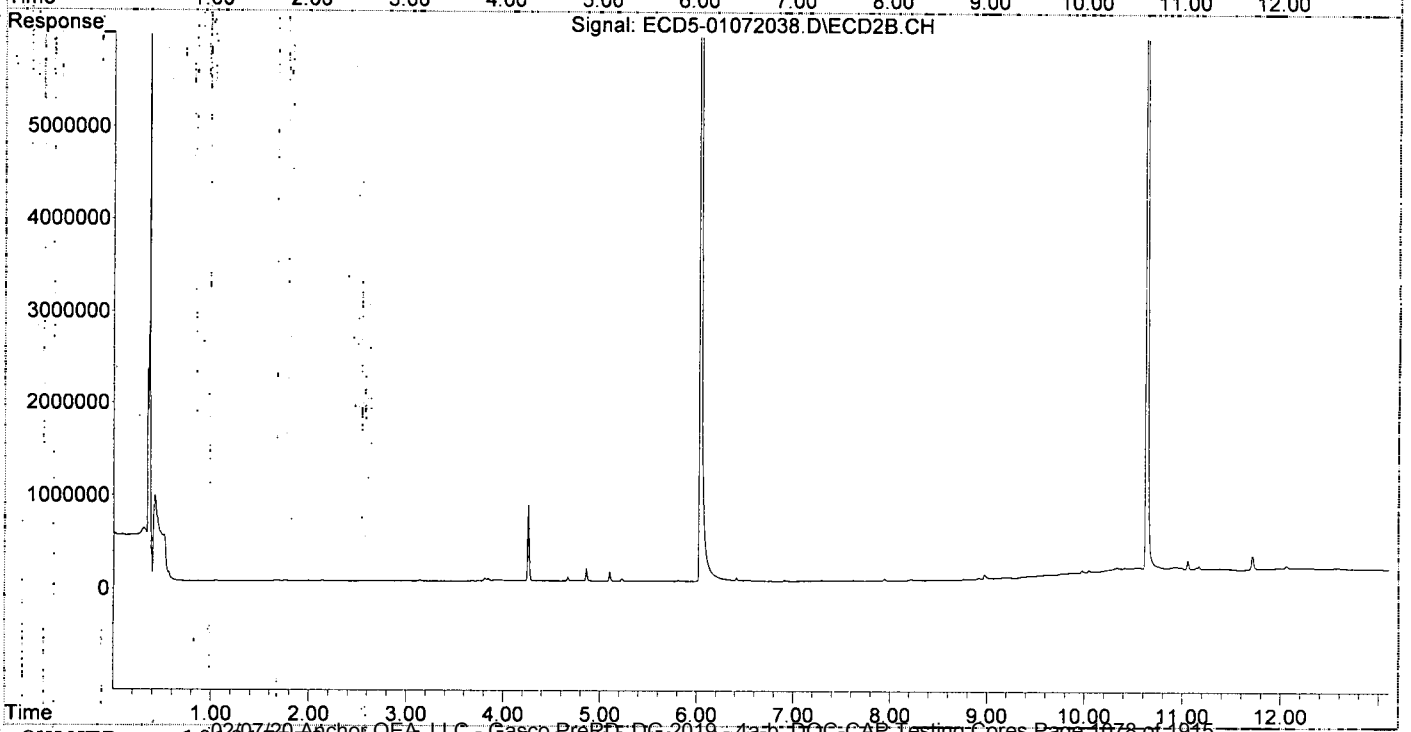
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A07035\
Data File : ECD5-01072038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 Jan 2020 22:16
Operator : MJB
Sample : 0A07035-CCB3
Misc : A19L339
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: Jan 08 11:19:09 2020
Quant Method : R:\methods\ECD5_QUANTPEST_191217RT2.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
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
Benchsheet & Analysis Sequence Data

Sequence 0A09021 (A9J0514-40RE2)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0A09021** Instrument: **DUALECD5**

Date: **01/09/20 10:35** Calibration: **A0A0906**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A09021-BKD1	Sediment	QC	QC				A20A019
2	0A09021-CCV1	Sediment	QC	QC				A19K133
3	0A09021-CCV2	Sediment	QC	QC				A19J408
4	0A09021-CCB1	Sediment	QC	QC				A19L339
5	9121450-BLK1	Soil	QC	QC		9121450		
6	9121450-BS1	Soil	QC	QC		9121450		
7	A9J0861-03RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	01/02/20	9121450		
8	A9J0553-46RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	01/02/20	9121450		
9	0A09021-IBL1	Sediment	QC	QC				
10	A9J0558-46RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	01/02/20	9121450		
11	0A09021-IBL2	Sediment	QC	QC				
12	A9J0903-06RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	01/02/20	9121450		
13	0A09021-IBL3	Sediment	QC	QC				
14	A9J0553-47RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	01/02/20	9121450		
15	0A09021-IBL4	Sediment	QC	QC				
16	A9J0553-48RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	01/02/20	9121450		
17	0A09021-IBL5	Sediment	QC	QC				
18	A9J0553-49RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	01/02/20	9121450		
19	0A09021-IBL6	Sediment	QC	QC				
20	A9J0553-50RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	01/02/20	9121450		
21	0A09021-IBL7	Sediment	QC	QC				
22	0A09021-CCV3	Sediment	QC	QC				A19K134
23	0A09021-CCV4	Sediment	QC	QC				A19J409
24	0A09021-CCB2	Sediment	QC	QC				A19L339
25	A9J0861-02RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	01/02/20	9121450		
26	0A09021-IBL8	Sediment	QC	QC				
27	A9J0514-40RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
28	0A09021-IBL9	Sediment	QC	QC				
29	A9J0553-39RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
30	0A09021-IBLA	Sediment	QC	QC				
31	A9J0553-40RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
32	0A09021-IBLB	Sediment	QC	QC				
33	A9J0553-41RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/27/19	9121314		
34	0A09021-IBLC	Sediment	QC	QC				
35	A9J0558-12RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	01/02/20	9121450		
36	0A09021-IBLD	Sediment	QC	QC				
37	A9J0558-13RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	01/02/20	9121450		
38	0A09021-IBLE	Sediment	QC	QC				
39	0A09021-CCV5	Sediment	QC	QC				A19K133
40	0A09021-CCV6	Sediment	QC	QC				A19J408
41	0A09021-CCB3	Sediment	QC	QC				A19L339
42	0A09021-IBLF	Sediment	QC	QC				

Comments:

Data Entered By: MJB 1/10/20

Data Reviewed By: MJB 1/13/20

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0A09021 BKD1
Data File: ECD5-01092003.D

First Column Area Counts		Percent Breakdown	
DDE	629413		
DDD	2694632		
DDT	153690607	**2.12**	**PASS**
Endrin	82610091	**7.88**	**PASS**
Endrin Aldehyde	2835314		
Endrin Ketone	4229547		

Second Column Area Counts		Percent Breakdown	
DDE	952899		
DDD	5536316		
DDT	241197563	**2.62**	**PASS**
Endrin	123147776	**7.02**	**PASS**
Endrin Aldehyde	3825575		
Endrin Ketone	5471585		

Breakdown must be less than 15% to accept sample data.

HJB 9/1/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2020-01\0A09021\
Data File : ECD5-01092003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 11:22
Operator : MJB
Sample : 0A09021-BKD1
Misc : A20A019
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: Jan 09 11:36:19 2020
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_200107.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
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	7.595	629413	NoCal	ng/mL
2)	Endrin	7.968	82610091	NoCal	ng/mL
3)	4,4'-DDD	8.016	2694632	NoCal	ng/mL
4)	4,4'-DDT	8.214	153690607	NoCal	ng/mL
5)	Endrin Aldehyde	8.414	2835314	NoCal	ng/mL
6)	Endrin Ketone	8.911	4229547	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.490	952899	NoCal	ng/mL
9)	Endrin [2C]	8.873	123147776	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.908	5536316	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.256	3825575	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.138	241197563	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.852	5471585	NoCal	ng/mL

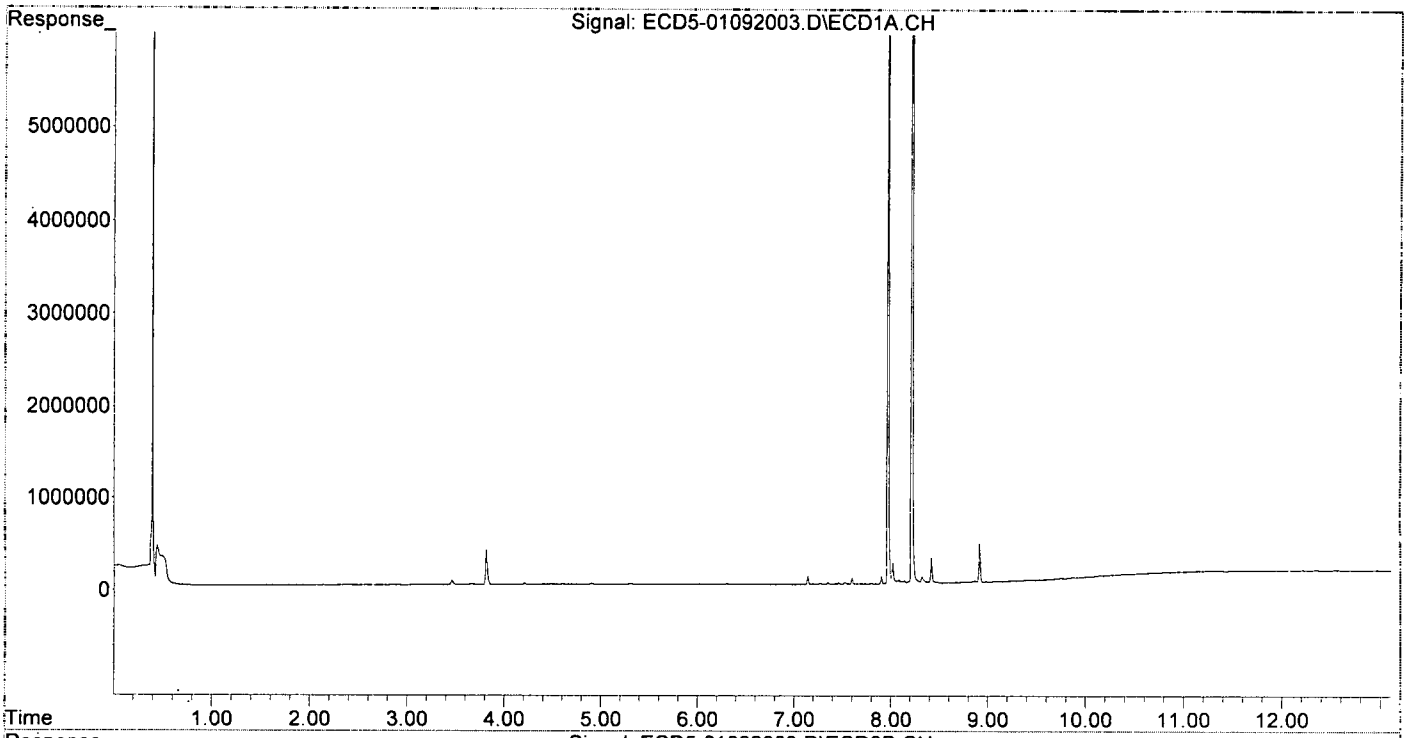
(f)=RT Delta > 1/2 Window (m)=manual int.

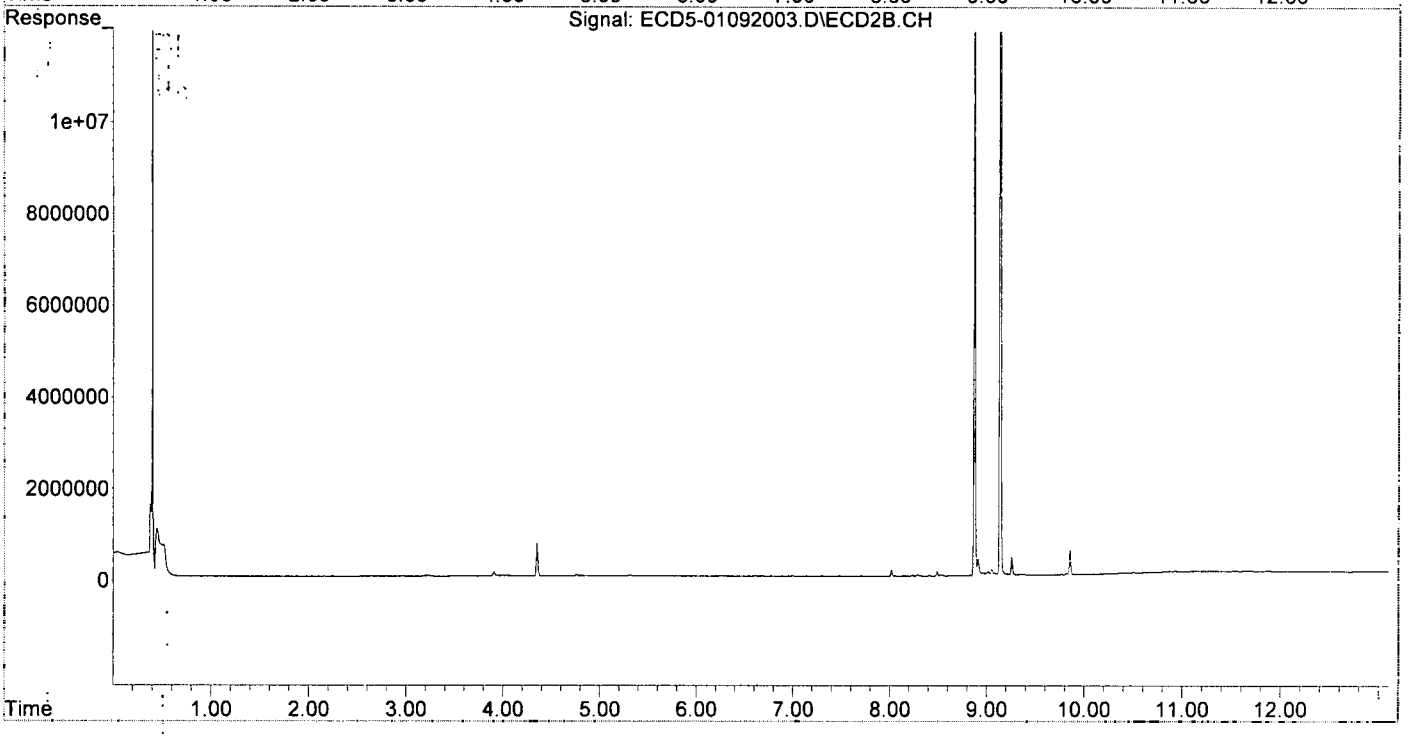
MJB 1/9/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2020-01\0A09021\
Data File : ECD5-01092003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 11:22
Operator : MJB
Sample : 0A09021-BKD1
Misc : A20A019
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: Jan 09 11:36:19 2020
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_200107.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 11:40
Operator : MJB
Sample : 0A09021-CCV1
Misc : A19K133, 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: Jan 09 17:54:28 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

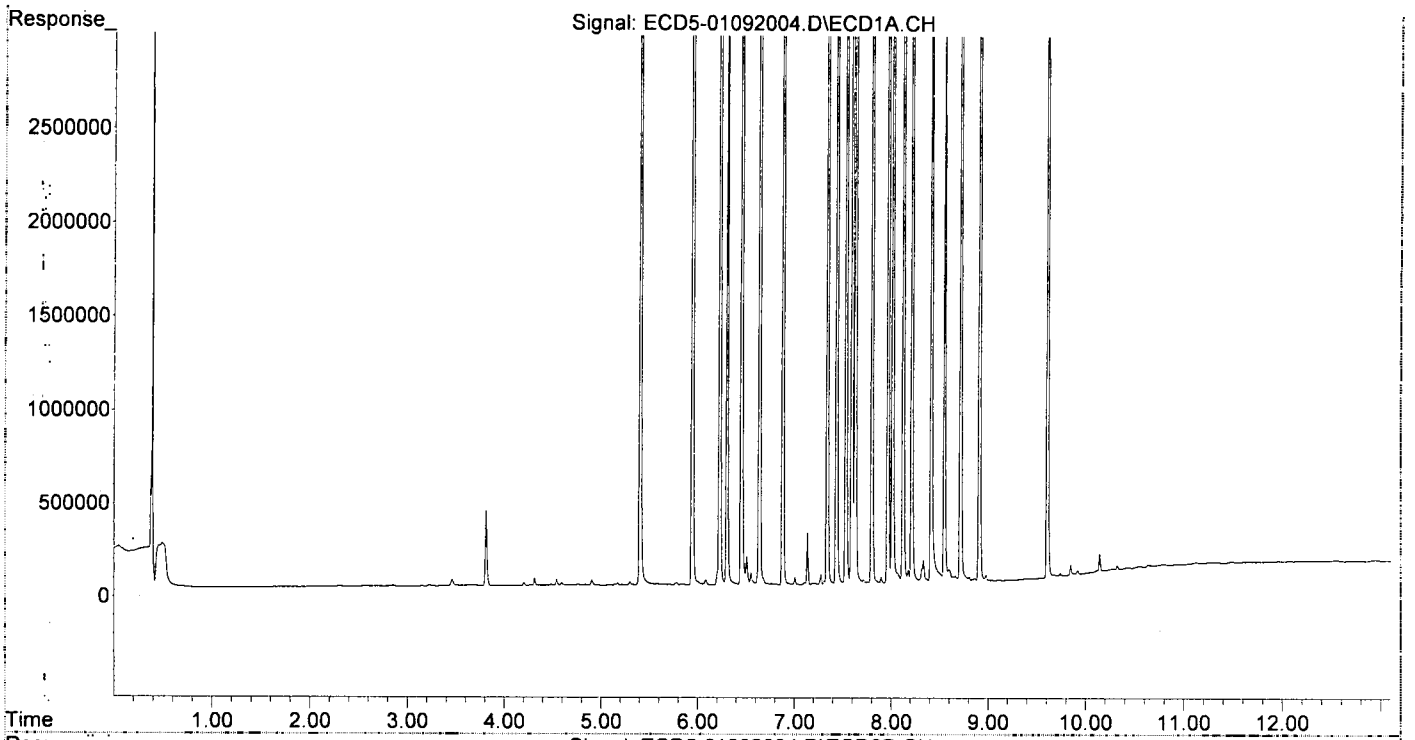
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.404	6.127	9036934	15317045	46.281	51.385	
22)	S	DCBP (S)	9.607	10.738	7152982	8779072	47.940	49.335	
		Target Compounds							
2)		a-BHC	5.944	6.734	12821959	22854208	48.722	55.344	
3)		g-BHC	6.226	7.054	11561301	20225540	49.513	55.398	
4)		b-BHC	6.302	7.114	4821194	7875708	49.423	48.961	
5)		Heptachlor	6.638	7.433	11093465	19059432	48.819	53.766	
6)		d-BHC	6.451	7.373	11153293	19515784	51.199	54.627	
7)		Aldrin	6.879	7.703	10808437	18243533	48.987	54.776	
8)		Heptachlo...	7.340	8.140	9817324	16229354	47.621	52.686	
9)		trans-Chl...	7.436	8.281	10325590	16459735	49.002	52.784	
10)		cis-Chlor...	7.533	8.389	9701564	15748926	47.411	53.090	
11)		Endosulfa...	7.630	8.441	9279528	15047482	47.881	54.150	
12)		4,4'-DDE	7.593	8.489	10251245	16724281	49.718	53.926	
13)		Dieldrin	7.801	8.643	10510792	16852584	48.802	54.552	
14)		Endrin	7.966	8.872	8905258	13608857	51.470	57.919	
15)		4,4'-DDD	8.014	8.907	8435373	13622793	48.857	55.421	
16)		Endosulfa...	8.123	9.018	8097048	12885030	47.457	52.743	
17)		4,4'-DDT	8.213	9.136	8580278	13327611	51.794	56.484	
18)		Endrin Al...	8.413	9.256	6862060	10719612	44.817	47.940	
19)		Endosulfa...	8.716	9.447	7937135	12540799	49.596	56.574	
20)		Methoxychlor	8.549	9.613	4289499	6461541	49.528	54.330	
21)		Endrin Ke...	8.910	9.852	9393664	14007388	49.189	55.933	
23)		Hexachlor...	3.226f	0.000	7422	0	0.037	N.D.	#
24)		Hexachlor...	5.784	6.609	14715	10603	BelowCal	0.033	
25)		Oxychlordane	7.275	0.000	52591	0	0.098	N.D.	#
26)		2,4'-DDE	7.340	8.281	9817324	16459735	68.849	78.160	
27)		trans-Non...	7.533	8.343	9701564	46317	48.573	0.151	#
28)		2,4'-DDD	7.717	8.643	20805	16852584	0.164	91.372	#
29)		2,4'-DDT	7.898	8.872	30415	13608857	0.208	65.828	#
30)		cis-Nonac...	8.014	8.907	8435373	13622793	35.789	39.933	
31)		Mirex	8.663	9.852	27455	14007388	6722.844	74.769	#
32)		Chlordane...	7.436	8.281	10325590	16459735	440.106	423.163	
33)		Chlordane...	7.533	8.389	9701564	15748926	336.617	490.652	#
34)		Chlordane...	0.000	9.090f	0	64894	N.D.	6.112	#
35)		Chlordane...	3.810	0.000	403478	0	NoCal	N.D.	
36)		Toxaphene...	7.533f	8.643f	9701564	16852584	9211.320	6231.756	
37)		Toxaphene...	7.801	0.000	10510792	0	5404.940	N.D.	#
38)		Toxaphene...	8.123	9.018	8097048	12885030	1886.143	2130.169	
39)		Toxaphene...	8.333f	9.090	115119	64894	28.494	7.190	#
40)		Toxaphene...	8.596	9.256	61867	10719612	18.817	2134.551	#
41)		Toxaphene...	8.663	9.613f	27455	6461541	6.323	1150.935	#
42)		Toxaphene...	3.810	0.000	403478	0	NoCal	N.D.	

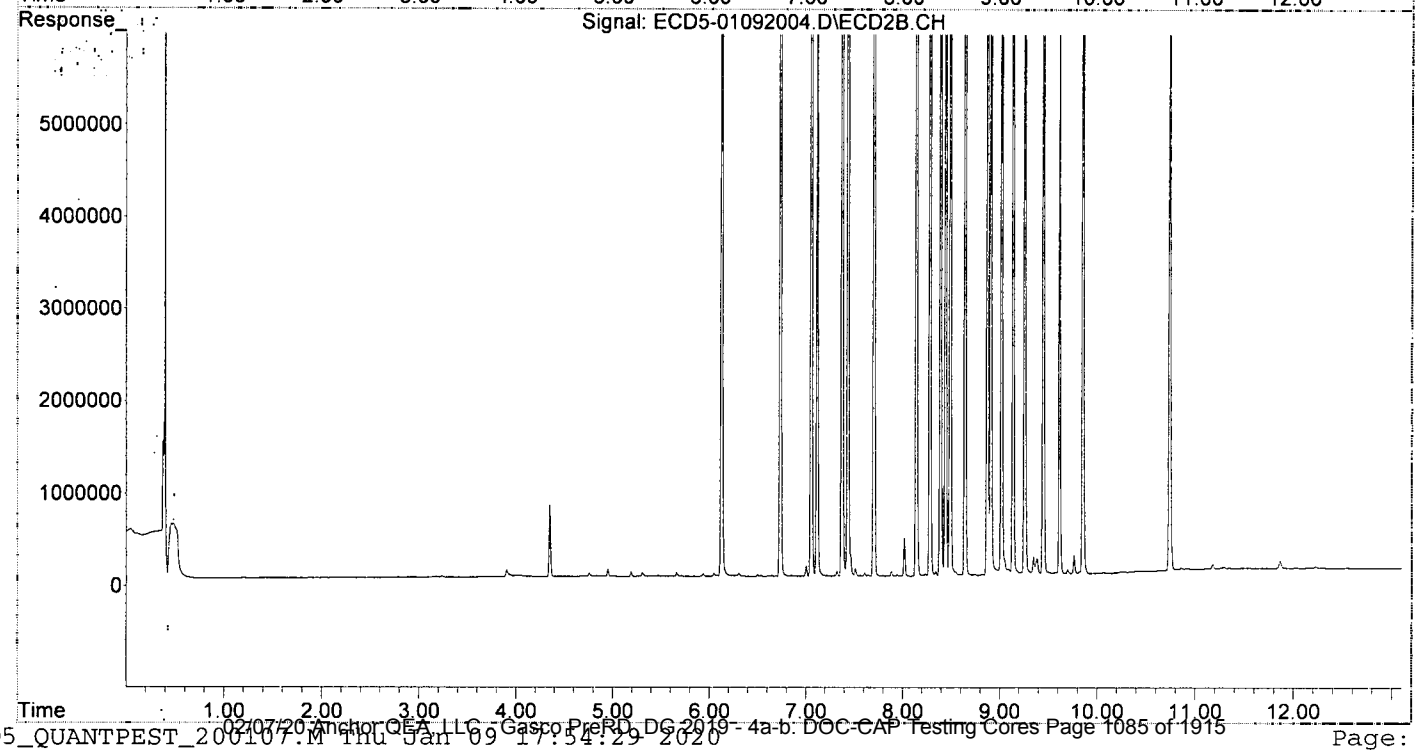
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 11:40
Operator : MJB
Sample : 0A09021-CCV1
Misc : A19K133, 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: Jan 09 17:54:28 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 11:57
Operator : MJB
Sample : 0A09021-CCV2
Misc : A19J408, 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: Jan 09 17:54:34 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

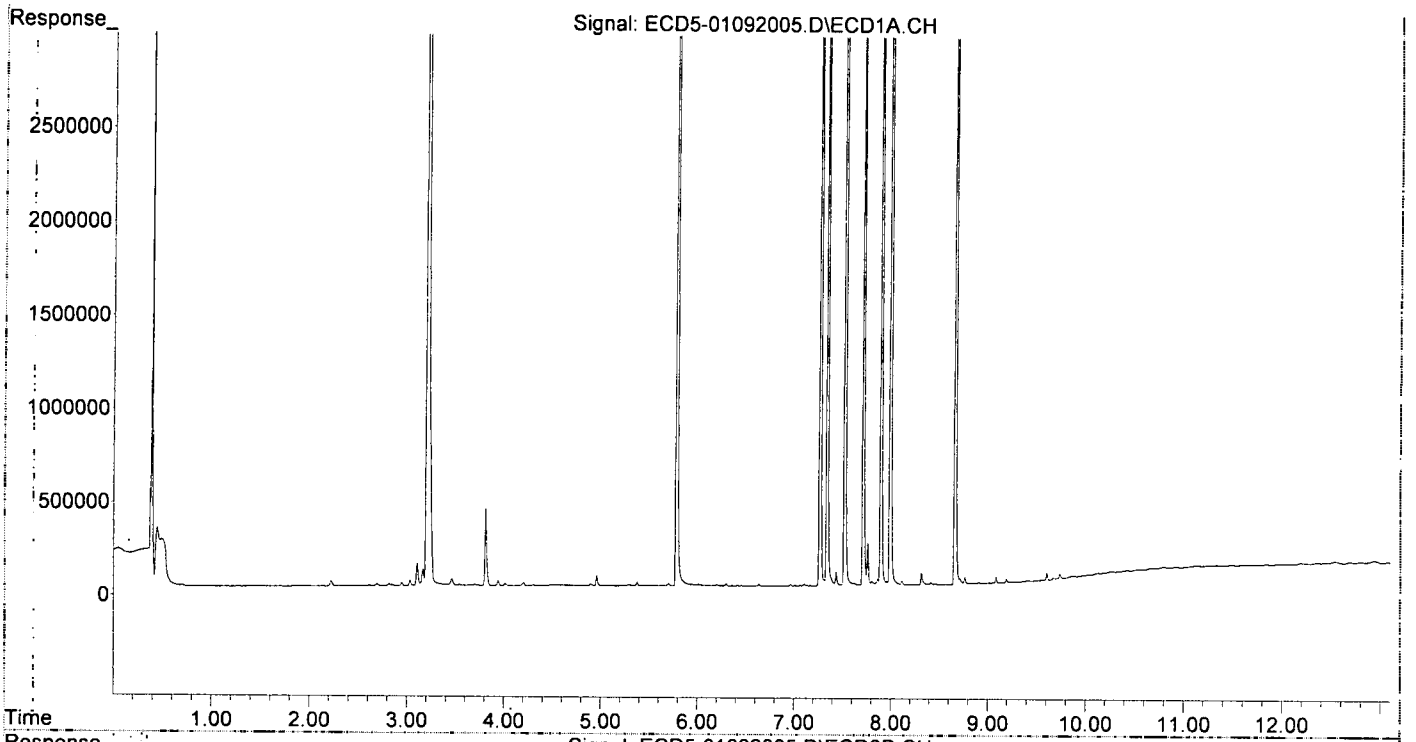
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.376f	6.124	19486	9392	0.100	0.032	#
22)	S	DCBP (S)	9.607	10.738	39256	38504	0.107	0.216	#
		Target Compounds							
2)		a-BHC	5.944	0.000	7298	0	0.028	N.D.	#
3)		g-BHC	6.201f	0.000	6989	0	0.030	N.D.	#
4)		b-BHC	6.297	0.000	12829	0	5931.871	N.D.	#
5)		Heptachlor	6.638	7.433	11178	16494	0.049	0.047	
6)		d-BHC	6.453	7.373	3329	6722	0.015	0.078	#
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	7.342	8.139	6688325	39426	32.443	0.128	#
9)		trans-Chl...	7.435	8.269	73924	10656856	0.351	34.175	#
10)		cis-Chlor...	7.524	8.386	9715886	44222	47.481	0.149	#
11)		Endosulfa...	0.000	8.445	0	12247	N.D.	0.044	#
12)		4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)		Dieldrin	7.805	8.643	24205	9244893	0.112	29.926	#
14)		Endrin	7.958	8.870	21331	10596656	0.123	45.099	#
15)		4,4'-DDD	7.995	8.913	11231377	17678393	65.051	71.920	
16)		Endosulfa...	8.116	8.997f	20917	24591	0.123	0.101	
17)		4,4'-DDT	8.213	0.000	4871	0	0.029	N.D.	#
18)		Endrin Al...	8.415	9.256	12912	16490	0.084	0.074	
19)		Endosulfa...	0.000	9.447	0	14207	N.D.	0.064	#
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.910	9.849	5357	9375400	0.028	37.437	#
23)		Hexachlor...	3.206	3.815	9086153	19514074	45.557	48.697	
24)		Hexachlor...	5.785	6.596	9298380	15771745	48.090	49.271	
25)		Oxychlordane	7.269	8.069	8693089	13885280	49.371	49.645	
26)		2,4'-DDE	7.342	8.269	6688325	10656856	46.906	50.605	
27)		trans-Non...	7.524	8.344	9715886	15702610	48.645	51.067	
28)		2,4'-DDD	7.715	8.643	5819480	9244893	45.738	50.124	
29)		2,4'-DDT	7.898	8.870	7035664	10596656	48.033	52.404	
30)		cis-Nonac...	7.995	8.913	11231377	17678393	47.652	51.822	
31)		Mirex	8.663	9.849	6459707	9375400	47.990	51.189	
32)		Chlordane...	7.435	8.269	73924	10656856	3.151	273.977	#
33)		Chlordane...	7.524	8.386	9715886	44222	337.114	1.378	#
34)		Chlordane...	8.116f	9.051	20917	109108	2.750	10.276	#
35)		Chlordane...	3.810	3.815	409472	19514074	NoCal	NoCal	
36)		Toxaphene...	7.524	8.643f	9715886	9244893	9224.919	3418.581	#
37)		Toxaphene...	7.805	8.997f	24205	24591	12.447	7.061	#
38)		Toxaphene...	8.116	8.997	20917	24591	0.845	0.845	
39)		Toxaphene...	0.000	9.051f	0	109108	N.D.	12.089	#
40)		Toxaphene...	0.000	9.256	0	16490	N.D.	3.284	#
41)		Toxaphene...	8.663	0.000	6459707	0	1487.603	N.D.	#
42)		Toxaphene...	3.810	3.815	409472	19514074	NoCal	NoCal	

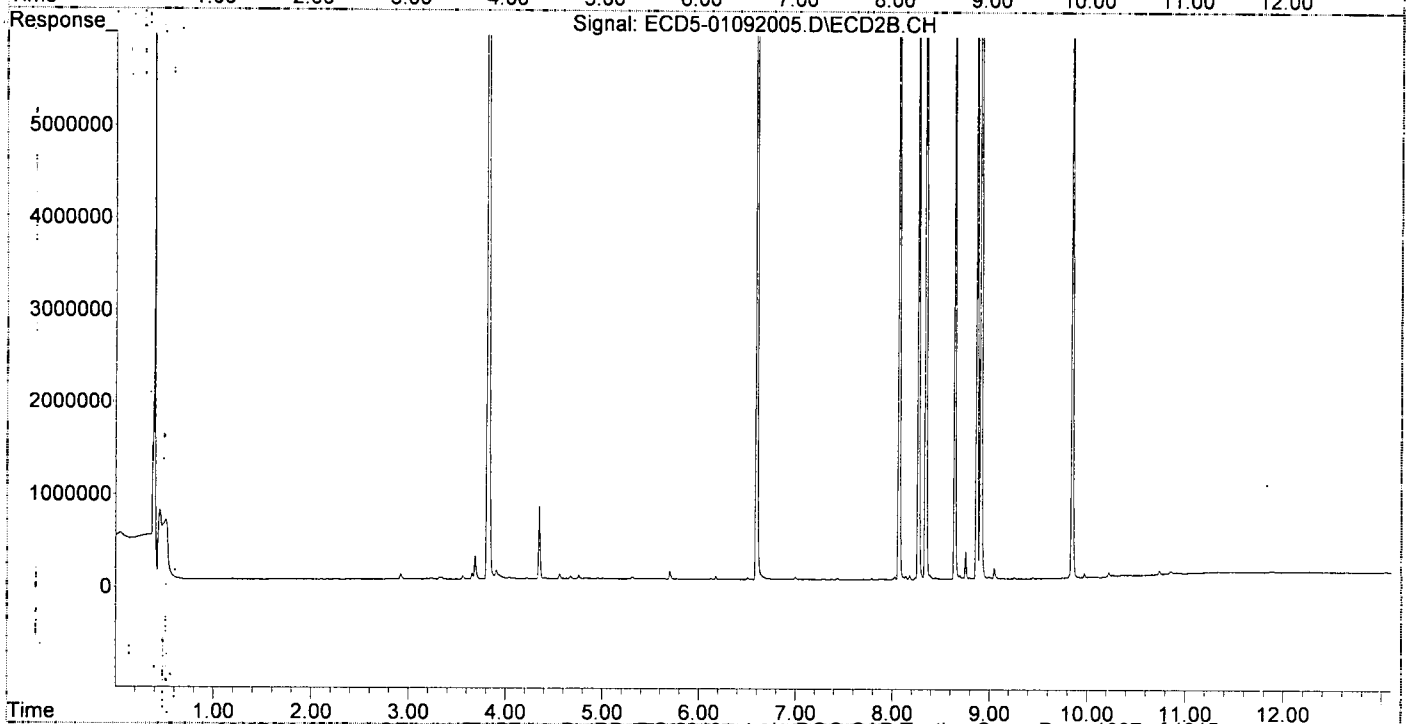
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 11:57
Operator : MJB
Sample : 0A09021-CCV2
Misc : A19J408, 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: Jan 09 17:54:34 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 12:14
Operator : MJB
Sample : 0A09021-CCB1
Misc : A19L339
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: Jan 09 17:54:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

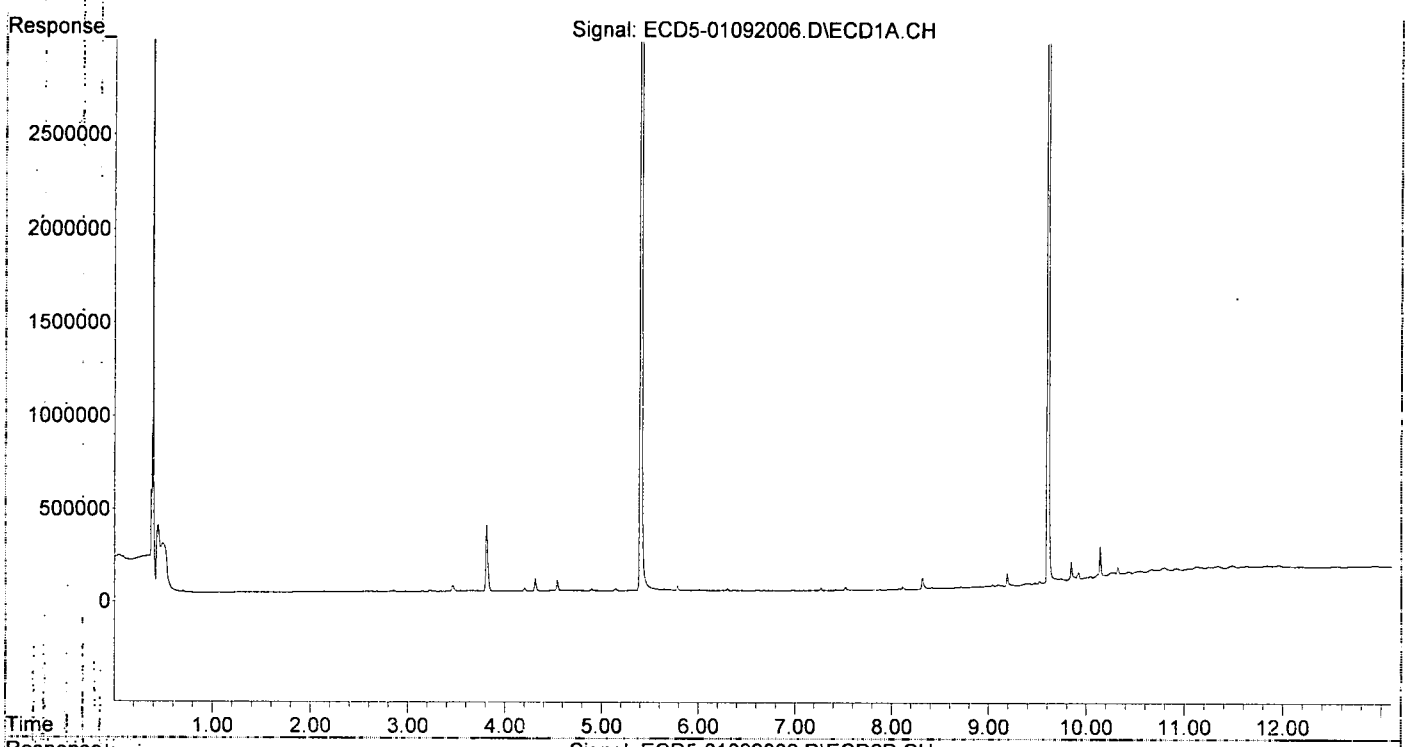
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.404	6.127	17262445	30073202	88.407	100.888	
22)	S	DCBP (S)	9.607	10.737	13751122	17125564	92.821	96.240	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.301	0.000	10136	0	5931.899	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	7.704	0	9247	N.D.	0.028	#
8)		Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)		trans-Chl...	7.422	8.288	5091	27464	0.024	0.088	#
10)		cis-Chlor...	7.522	0.000	17044	0	0.083	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	8.869	0	4894	N.D.	0.021	#
15)		4,4'-DDD	0.000	8.869f	0	4894	N.D.	0.020	#
16)		Endosulfa...	8.115	8.997f	13544	17854	0.079	0.073	
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.414	9.256	6025	6691	0.039	0.030	
19)		Endosulfa...	8.716	9.447	5239	6123	0.033	0.028	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.910	9.820f	2943	100067	0.015	0.400	#
23)		Hexachlor...	3.224	0.000	6762	0	0.034	N.D.	#
24)		Hexachlor...	5.785	6.610	24642	9100	BelowCal	0.028	
25)		Oxychlordane	7.268	0.000	13504	0	BelowCal	N.D.	
26)		2,4'-DDE	0.000	8.288	0	27464	N.D.	0.130	#
27)		trans-Non...	7.522	0.000	17044	0	BelowCal	N.D.	
28)		2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)		2,4'-DDT	0.000	8.869	0	4894	N.D.	BelowCal	
30)		cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.	
31)		Mirex	8.662	9.820f	2795	100067	6723.027	0.310	#
32)		Chlordane...	7.422	8.288	5091	27464	0.217	0.706	#
33)		Chlordane...	7.522	0.000	17044	0	0.591	N.D.	#
34)		Chlordane...	8.075	9.051	6280	110018	0.825	10.362	#
35)		Chlordane...	3.810	0.000	354654	0	NoCal	N.D.	
36)		Toxaphene...	7.522	0.000	17044	0	16.182	N.D.	#
37)		Toxaphene...	0.000	8.997f	0	17854	N.D.	5.127	#
38)		Toxaphene...	8.115	8.997	13544	17854	BelowCal	BelowCal	
39)		Toxaphene...	0.000	9.051f	0	110018	N.D.	12.189	#
40)		Toxaphene...	0.000	9.256	0	6691	N.D.	1.332	#
41)		Toxaphene...	8.662	0.000	2795	0	0.644	N.D.	#
42)		Toxaphene...	3.810	0.000	354654	0	NoCal	N.D.	

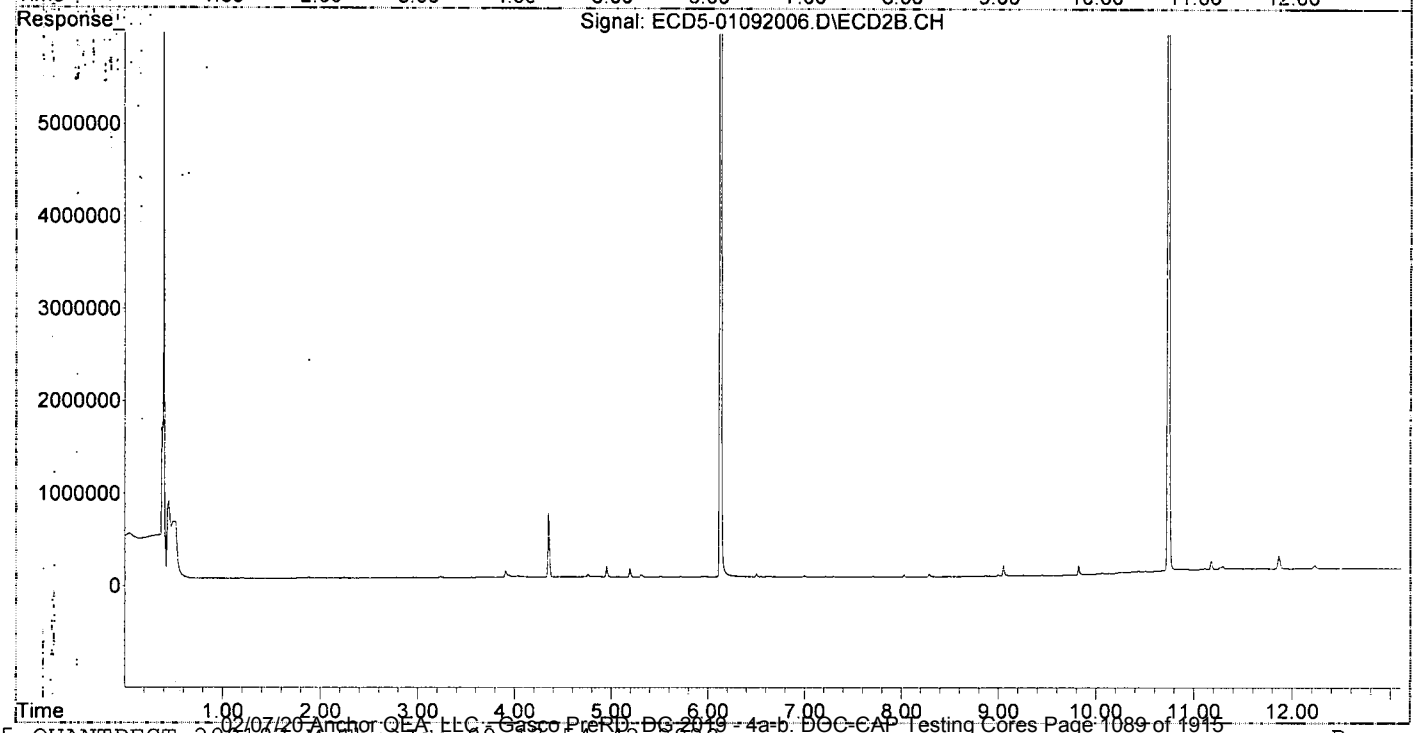
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 12:14
Operator : MJB
Sample : 0A09021-CCB1
Misc : A19L339
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: Jan 09 17:54:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 12:31
Operator : MJB
Sample : 9121450-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 09 18:03:26 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

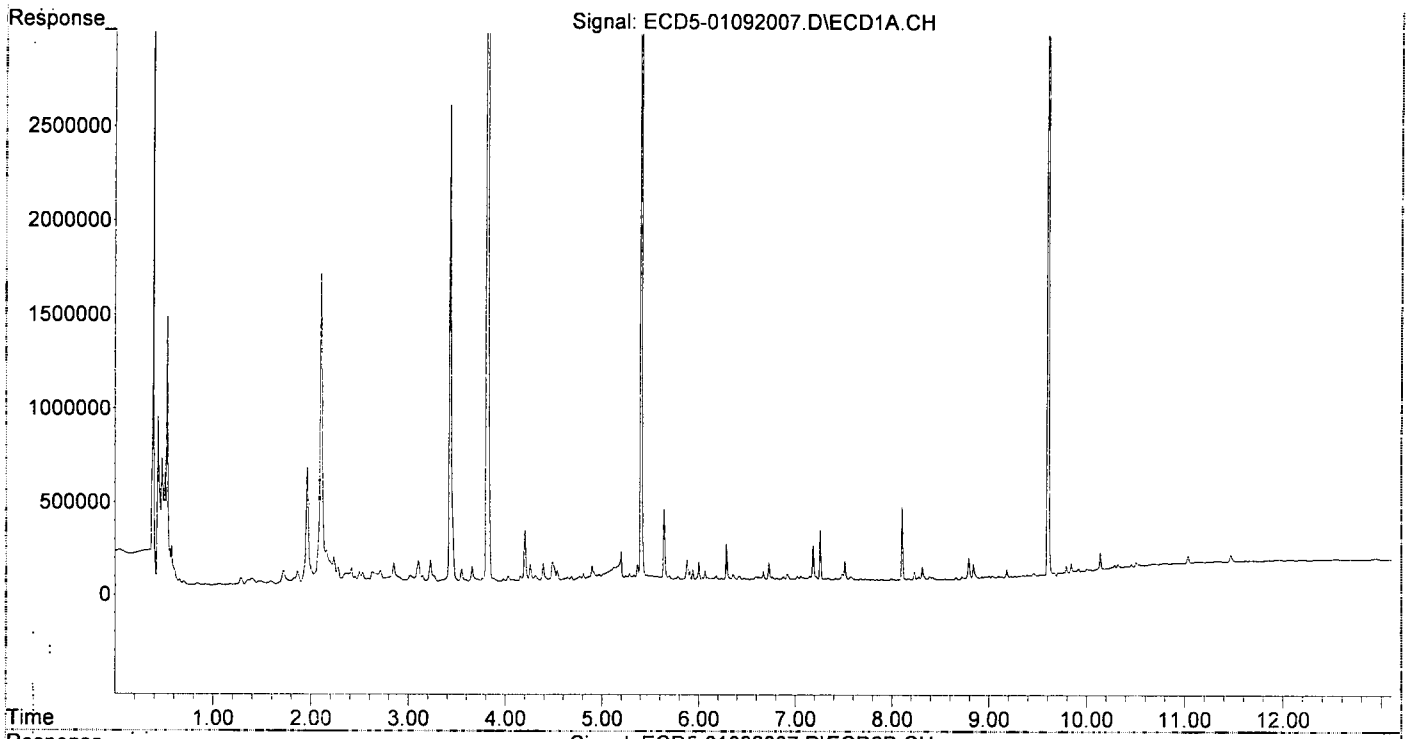
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.403	6.126	5998170	10026530	30.719	33.637	
22)	S DCBP (S)	9.604	10.737	6785734	8017506	45.457	45.056	
	Target Compounds							
2)	a-BHC	5.939	0.000	65067	0	0.247	N.D.	#
3)	g-BHC	6.232	7.029f	19029	587805	0.081	1.610	#
4)	b-BHC	6.286	7.102	202267	23934	1.896	0.149	#
5)	Heptachlor	6.618	7.438	21820	13168	0.096	0.037	#
6)	d-BHC	6.473f	7.369	19376	16250	0.089	0.106	
7)	Aldrin	6.879	7.708	22484	13352	0.102	0.040	#
8)	Heptachlo...	7.338	8.160f	15705	14572	0.076	0.047	
9)	trans-Chl...	7.414f	8.277	13277	129946	0.063	0.417	#
10)	cis-Chlor...	7.512	8.401	103023	103020	0.503	0.347	
11)	Endosulfa...	0.000	8.446	0	16943	N.D.	0.061	#
12)	4,4'-DDE	7.572f	8.500	20382	24174	0.099	0.116m	
13)	Dieldrin	7.796	8.631	6207	9721	0.029	0.031	
14)	Endrin	7.989f	0.000	7054	0	0.041	N.D.	#
15)	4,4'-DDD	7.989f	0.000	7054	0	0.041	N.D.	#
16)	Endosulfa...	8.103	8.993f	385754	409569	2.261	1.677	
17)	4,4'-DDT	8.230	9.125	44005	24465	0.266	0.144	#
18)	Endrin Al...	8.417	9.216f	17704	35495	0.116	0.159	
19)	Endosulfa...	8.720	9.449	15601	10196	0.097	0.046	#
20)	Methoxychlor	8.547	9.617	5524	20132	0.064	0.169	#
21)	Endrin Ke...	8.925	9.843	11079	84755	0.058	0.338	#
23)	Hexachlor...	3.224	3.790f	127437	4397148	0.639	10.973	#
24)	Hexachlor...	5.784	6.604	29869	197030	BelowCal	0.616	
25)	Oxychlordane	7.257	8.059	268295	17912	1.335	0.064	#
26)	2,4'-DDE	7.338	8.277	15705	129946	0.110	0.617	#
27)	trans-Non...	7.512	8.343	103023	25830	0.363	0.084	#
28)	2,4'-DDD	7.722	8.631	10090	9721	0.079	0.053	
29)	2,4'-DDT	7.891	0.000	4690	0	0.032	N.D.	#
30)	cis-Nonac...	7.989	0.000	7054	0	0.030	N.D.	#
31)	Mirex	8.658	9.843	10841	84755	6722.967	0.221	#
32)	Chlordane...	7.414f	8.277	13277	129946	0.566	3.341	#
33)	Chlordane...	7.512	8.401	103023	103020	3.575	3.210	
34)	Chlordane...	8.103f	9.048	385754	116513	50.706	10.973	#
35)	Chlordane...	3.809	3.790	8528792	4397148	NoCal	NoCal	
36)	Toxaphene...	7.512	8.631	103023	9721	97.817	3.595	#
37)	Toxaphene...	7.796	8.993f	6207	409569	3.192	117.606	#
38)	Toxaphene...	8.103	8.993	385754	409569	88.052	75.623	
39)	Toxaphene...	8.391f	9.048f	19532	116513	4.835	12.909	#
40)	Toxaphene...	8.583	9.216f	3218	35495	0.979	7.068	#
41)	Toxaphene...	8.658	9.645	10841	148886	2.496	26.520	#
42)	Toxaphene...	3.809	3.790	8528792	4397148	NoCal	NoCal	

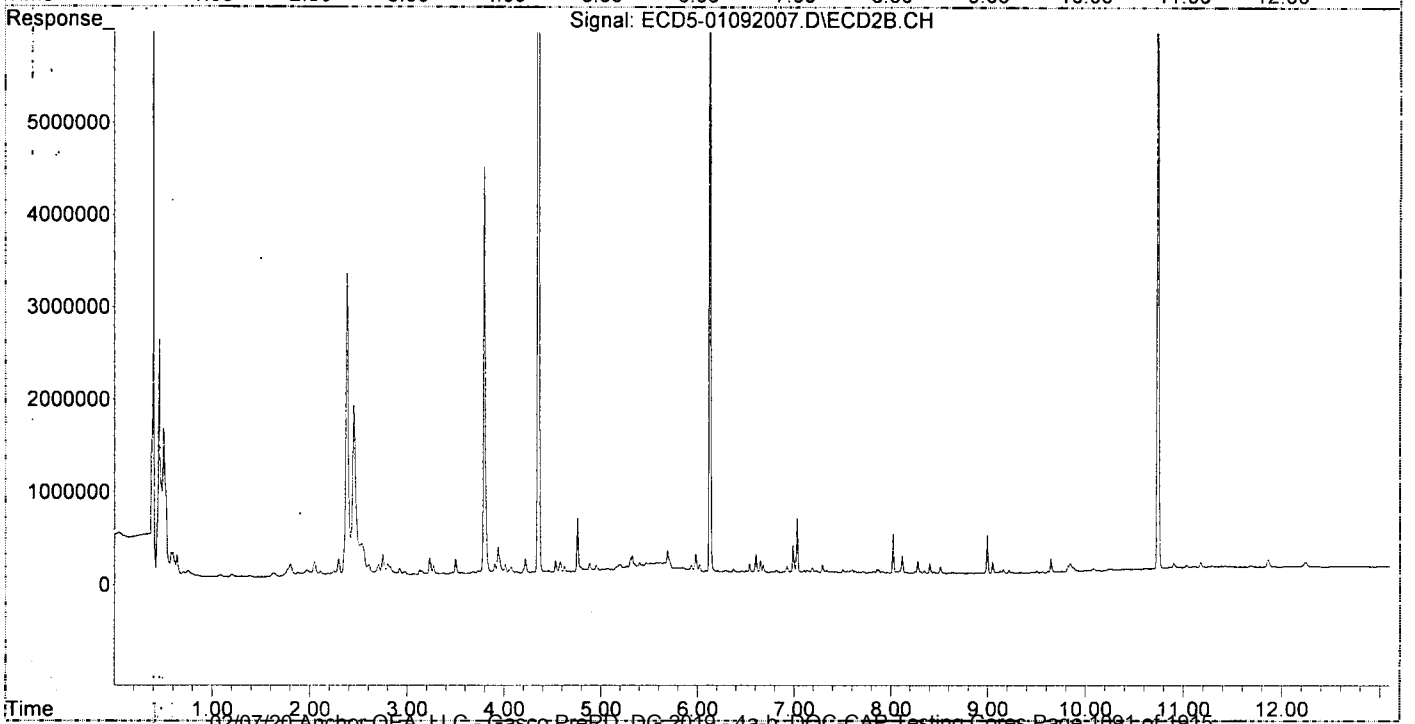
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 12:31
Operator : MJB
Sample : 9121450-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 09 18:03:26 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

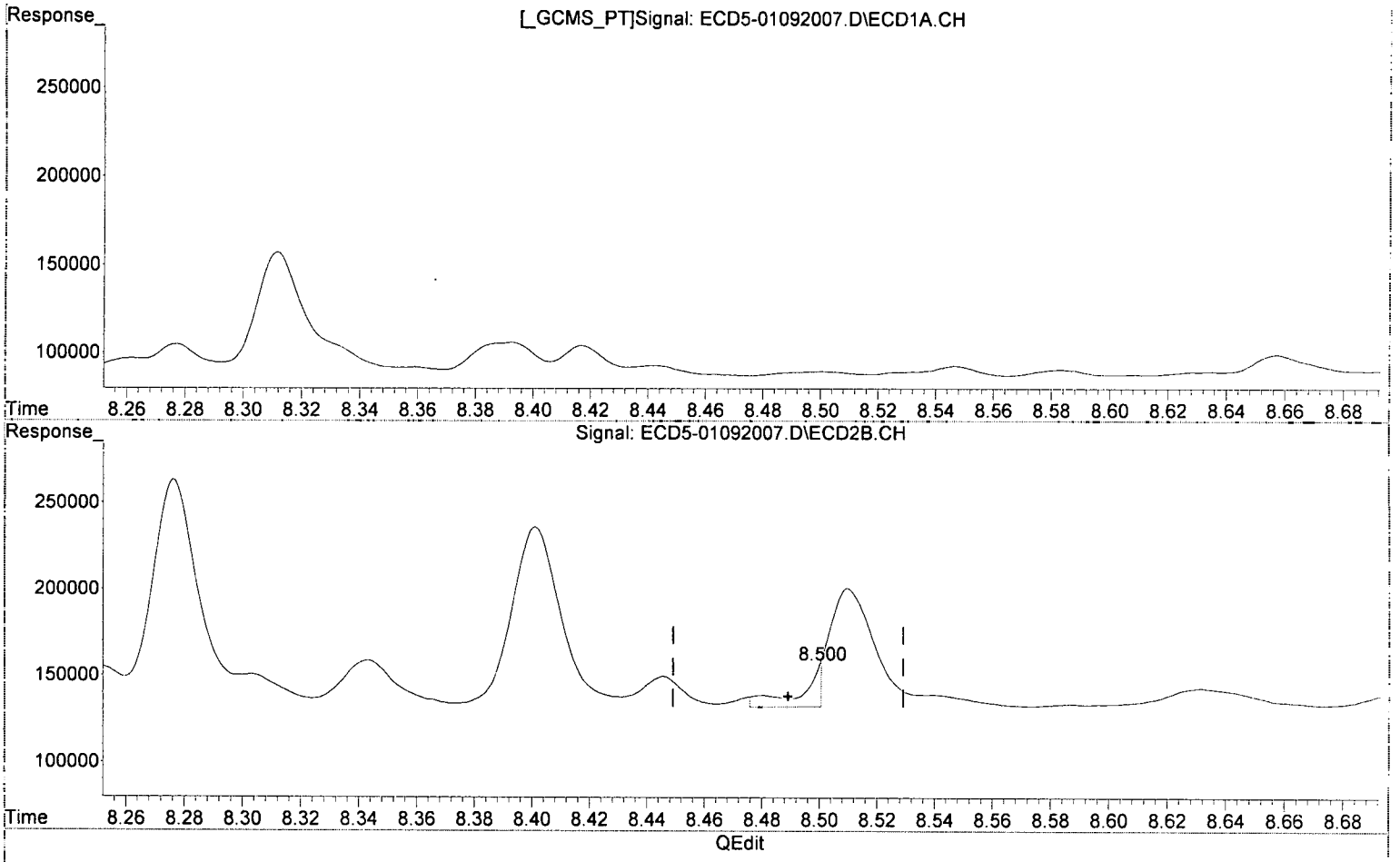




Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 12:31
Operator : MJB
Sample : 9121450-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 09 17:54:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.572min 0.099 ng/mL

response 20382

MP 1/9/20

(12) 4,4'-DDE #2

8.500min 0.116 ng/mL (m)

response 24174

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 12:31
Operator : MJB
Sample : 9121450-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 09 17:54:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MI
MJB 1/9/20

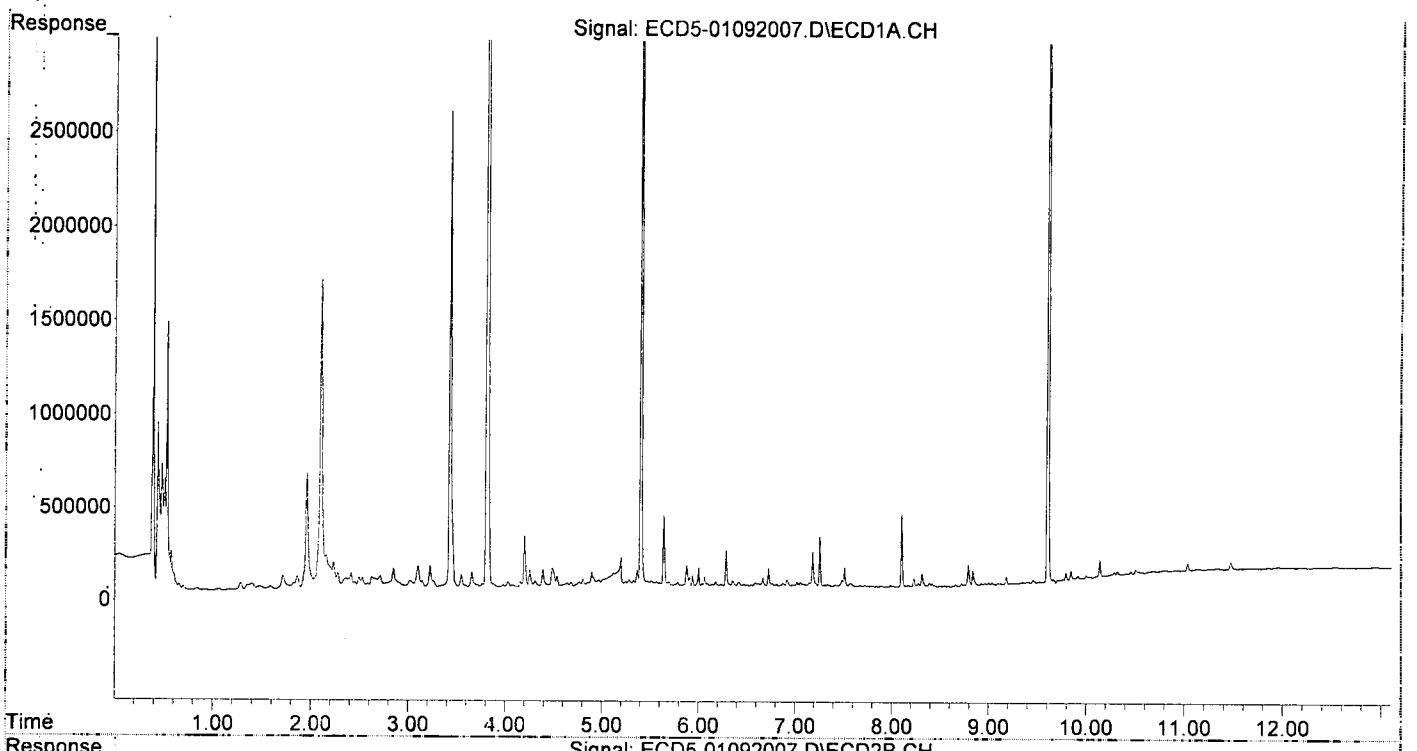
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.403	6.126	5998170	10026530	30.719	33.637	
22)	S	DCBP (S)	9.604	10.737	6785734	8017506	45.457	45.056	
		Target Compounds							
2)		a-BHC	5.939	0.000	65067	0	0.247	N.D.	#
3)		g-BHC	6.232	7.029f	19029	587805	0.081	1.610	#
4)		b-BHC	6.286	7.102	202267	23934	1.896	0.149	#
5)		Heptachlor	6.618	7.438	21820	13168	0.096	0.037	#
6)		d-BHC	6.473f	7.369	19376	16250	0.089	0.106	
7)		Aldrin	6.879	7.708	22484	13352	0.102	0.040	#
8)		Heptachlo...	7.338	8.160f	15705	14572	0.076	0.047	
9)		trans-Chl...	7.414f	8.277	13277	129946	0.063	0.417	#
10)		cis-Chlor...	7.512	8.401	103023	103020	0.503	0.347	
11)		Endosulfa...	0.000	8.446	0	16943	N.D.	0.061	#
12)		4,4'-DDE	7.572f	8.510f	20382	68022	0.099	0.267	#
13)		Dieldrin	7.796	8.631	6207	9721	0.029	0.031	
14)		Endrin	7.989f	0.000	7054	0	0.041	N.D.	#
15)		4,4'-DDD	7.989f	0.000	7054	0	0.041	N.D.	#
16)		Endosulfa...	8.103	8.993f	385754	409569	2.261	1.677	
17)		4,4'-DDT	8.230	9.125	44005	24465	0.266	0.144	#
18)		Endrin Al...	8.417	9.216f	17704	35495	0.116	0.159	
19)		Endosulfa...	8.720	9.449	15601	10196	0.097	0.046	#
20)		Methoxychlor	8.547	9.617	5524	20132	0.064	0.169	#
21)		Endrin Ke...	8.925	9.843	11079	84755	0.058	0.338	#
23)		Hexachlor...	3.224	3.790f	127437	4397148	0.639	10.973	#
24)		Hexachlor...	5.784	6.604	29869	197030	BelowCal	0.616	
25)		Oxychlordane	7.257	8.059	268295	17912	1.335	0.064	#
26)		2,4'-DDE	7.338	8.277	15705	129946	0.110	0.617	#
27)		trans-Non...	7.512	8.343	103023	25830	0.363	0.084	#
28)		2,4'-DDD	7.722	8.631	10090	9721	0.079	0.053	
29)		2,4'-DDT	7.891	0.000	4690	0	0.032	N.D.	#
30)		cis-Nonac...	7.989	0.000	7054	0	0.030	N.D.	#
31)		Mirex	8.658	9.843	10841	84755	6722.967	0.221	#
32)		Chlordane...	7.414f	8.277	13277	129946	0.566	3.341	#
33)		Chlordane...	7.512	8.401	103023	103020	3.575	3.210	
34)		Chlordane...	8.103f	9.048	385754	116513	50.706	10.973	#
35)		Chlordane...	3.809	3.790	8528792	4397148	NoCal	NoCal	
36)		Toxaphene...	7.512	8.631	103023	9721	97.817	3.595	#
37)		Toxaphene...	7.796	8.993f	6207	409569	3.192	117.606	#
38)		Toxaphene...	8.103	8.993	385754	409569	88.052	75.623	
39)		Toxaphene...	8.391f	9.048f	19532	116513	4.835	12.909	#
40)		Toxaphene...	8.583	9.216f	3218	35495	0.979	7.068	#
41)		Toxaphene...	8.658	9.645	10841	148886	2.496	26.520	#
42)		Toxaphene...	3.809	3.790	8528792	4397148	NoCal	NoCal	

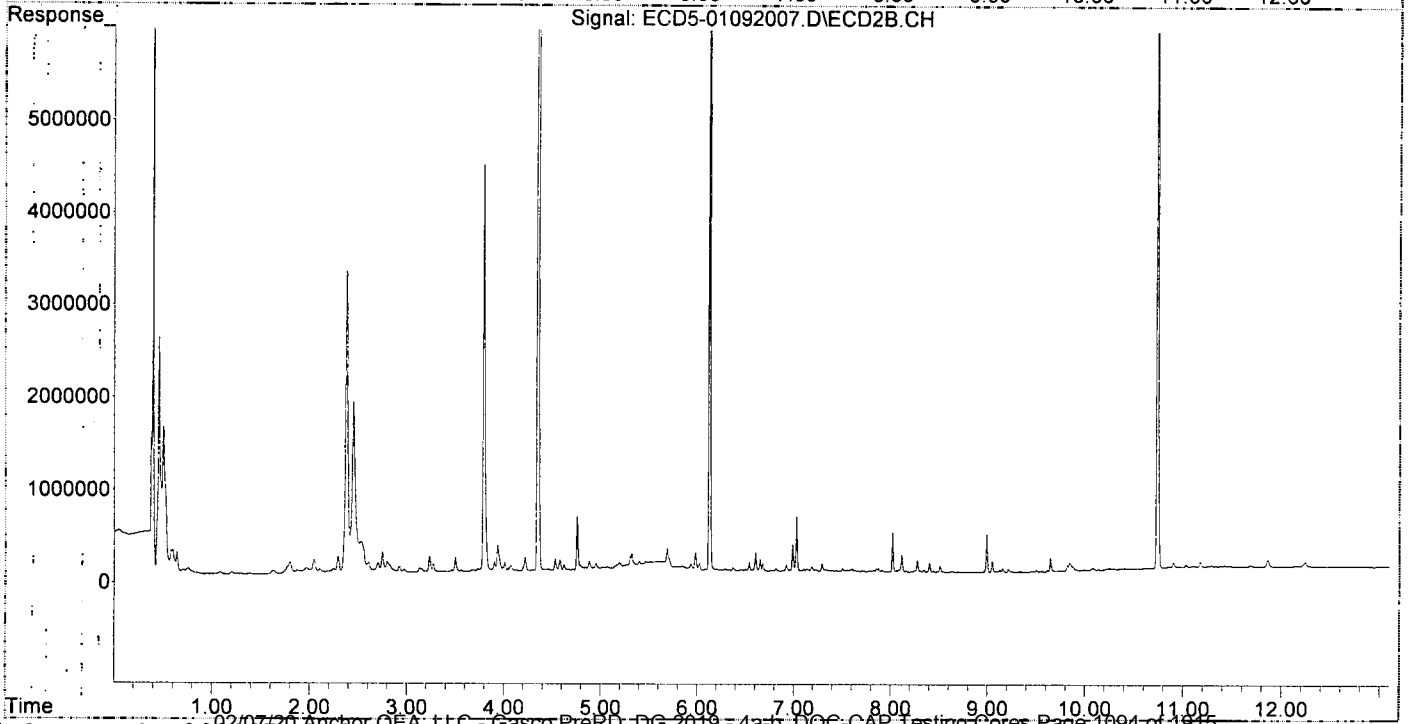
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 12:31
Operator : MJB
Sample : 9121450-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 09 17:54:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 12:48
Operator : MJB
Sample : 9121450-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 09 17:54:52 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

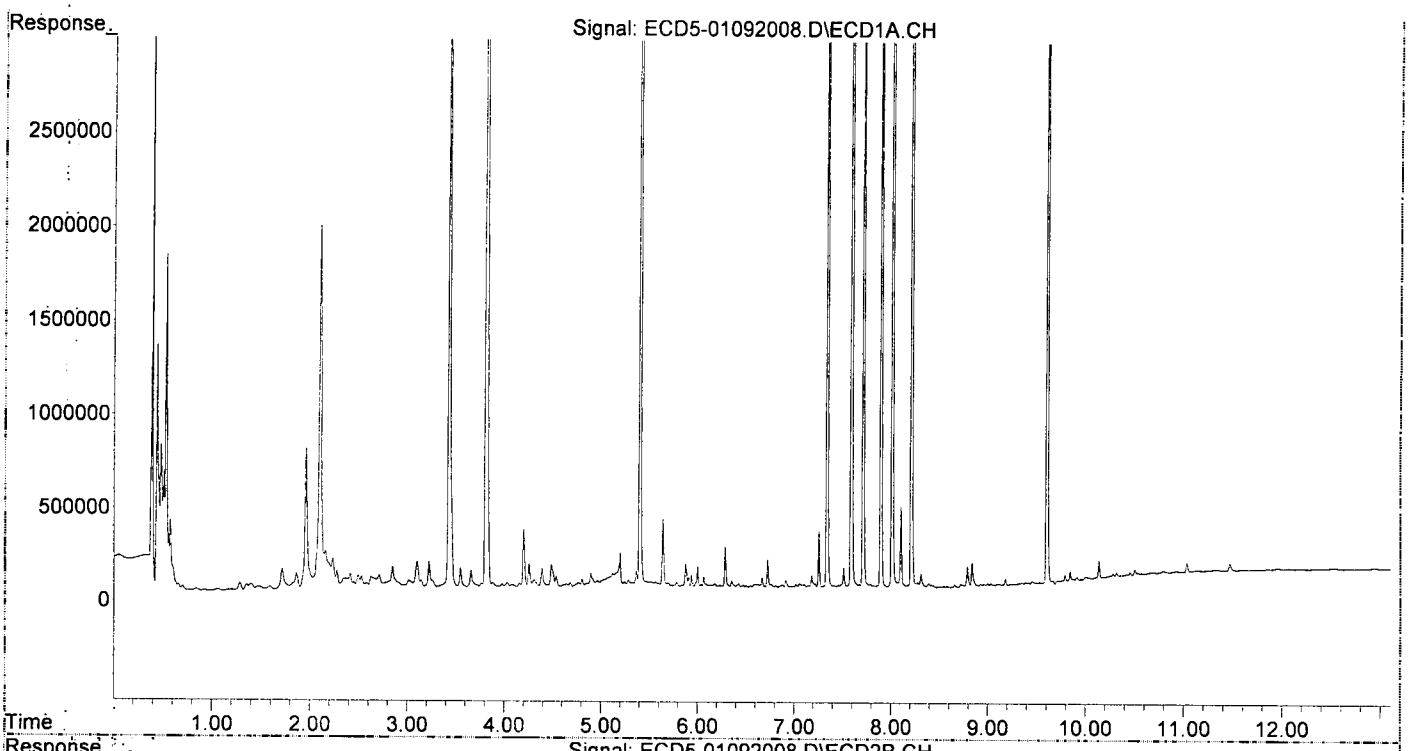
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.402	6.125	6875761	11540023	35.213	38.714	
22)	S DCBP (S)	9.604	10.737	7076092	8127756	47.420	45.675	
	Target Compounds							
2)	a-BHC	5.938	0.000	109903	0	0.418	N.D.	#
3)	g-BHC	6.231	7.028f	58244	541445	0.249	1.483	#
4)	b-BHC	6.285	7.101	260700	36878	2.493	0.229	#
5)	Heptachlor	6.619	7.438	62642	20721	0.276	0.058	#
6)	d-BHC	6.473f	7.370	57509	24313	0.264	0.130	#
7)	Aldrin	6.878	7.708	63534	16565	0.288	0.050	#
8)	Heptachlo...	7.339	8.159	6201368	14258	30.081	0.046	#
9)	trans-Chl...	7.413f	8.267	61544	9804996	0.292	31.443	#
10)	cis-Chlor...	7.512f	8.400	155319	112527	0.759	0.379	#
11)	Endosulfa...	7.590f	8.445	9909242	16169	51.130	0.058	#
12)	4,4'-DDE	7.590	8.488	9909242	15856063	48.060	51.286	
13)	Dieldrin	7.786	8.641	70064	9110039	0.325	29.489	#
14)	Endrin	0.000	8.868	0	10966411	N.D.	46.672	#
15)	4,4'-DDD	8.011	8.906	8910935	13658817	51.612	55.567	
16)	Endosulfa...	8.103f	8.992f	483341	445224	2.833	1.822	
17)	4,4'-DDT	8.210	9.134	9034884	13978047	54.538	58.988	
18)	Endrin Al...	8.417	9.257	71467	11102	0.467	0.050	#
19)	Endosulfa...	8.719	9.448	75977	12037	0.475	0.054	#
20)	Methoxychlor	8.547	9.617	63453	44167	0.733	0.371	#
21)	Endrin Ke...	8.924	9.844	76720	120751	0.402	0.482	
23)	Hexachlor...	3.223	3.790f	168851	6915970	0.847	17.259	#
24)	Hexachlor...	5.783	6.604	69167	232577	0.203	0.727	#
25)	Oxychlordane	7.255	8.058	350690	22157	1.808	0.079	#
26)	2,4'-DDE	7.339	8.267	6201368	9804996	43.490	46.559	
27)	trans-Non...	7.512	8.341	155319	30558	0.627	0.099	#
28)	2,4'-DDD	7.711	8.641	5795481	9110039	45.550	49.393	
29)	2,4'-DDT	7.895	8.868	7154493	10966411	48.844	54.082	
30)	cis-Nonac...	8.011	8.906	8910935	13658817	37.807	40.039	
31)	Mirex	8.656	9.844	72409	120751	0.290	0.430	#
32)	Chlordane...	7.459f	8.267	62100	9804996	2.647	252.076	#
33)	Chlordane...	7.512	8.400	155319	112527	5.389	3.506	
34)	Chlordane...	8.076	9.047	83994	116132	11.041	10.938	
35)	Chlordane...	3.809	3.790	9728439	6915970	NoCal	NoCal	
36)	Toxaphene...	7.512	8.641f	155319	9110039	147.470	3368.714	#
37)	Toxaphene...	7.786	8.992f	70064	445224	36.029	127.844	#
38)	Toxaphene...	8.103	8.992	483341	445224	111.344	82.501	
39)	Toxaphene...	8.391f	9.047f	77117	116132	19.088	12.867	
40)	Toxaphene...	8.580	9.257	63183	11102	19.218	2.211	#
41)	Toxaphene...	8.656	9.644	72409	143734	16.675	25.602	#
42)	Toxaphene...	3.809	3.790	9728439	6915970	NoCal	NoCal	

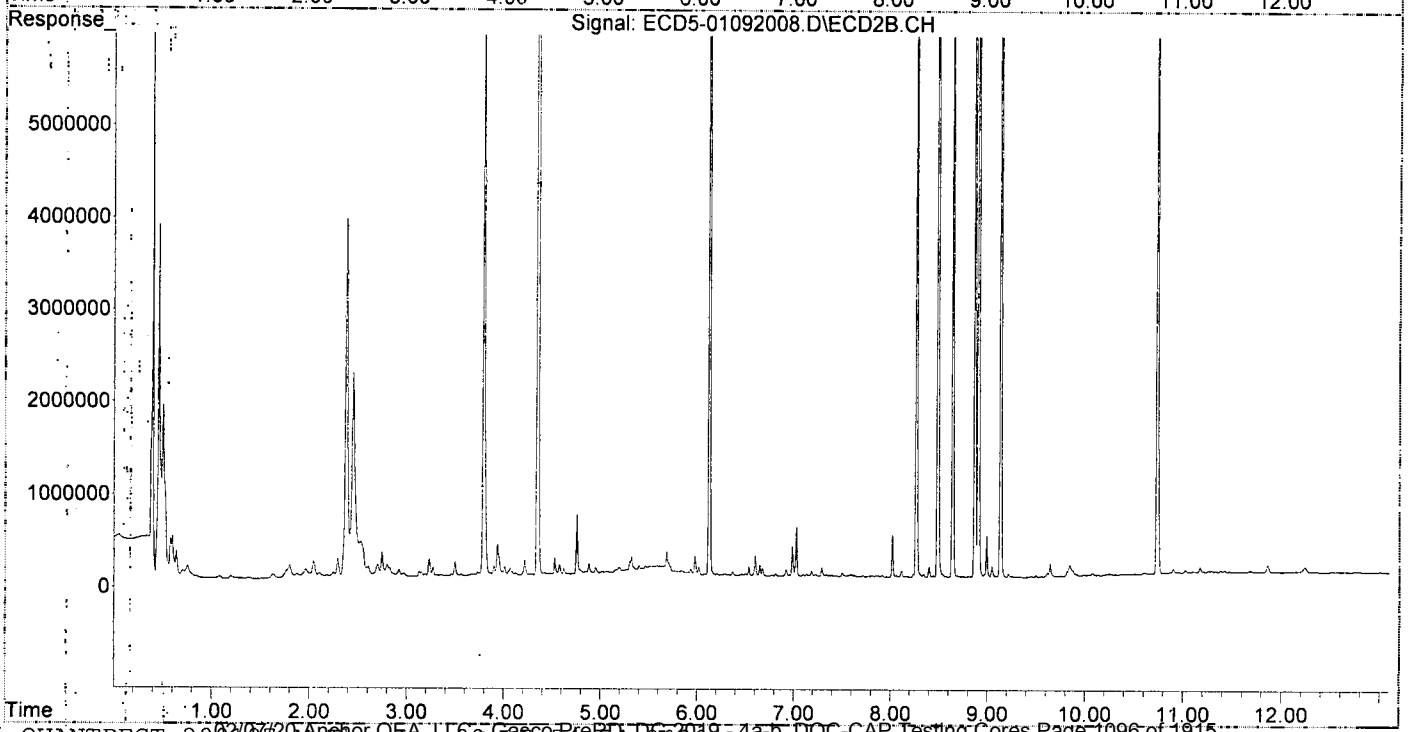
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 12:48
Operator : MJB
Sample : 9121450-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 09 17:54:52 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 17:47
Operator : MJB
Sample : 0A09021-CCV3
Misc : A19K134, 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: Jan 09 18:02:06 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

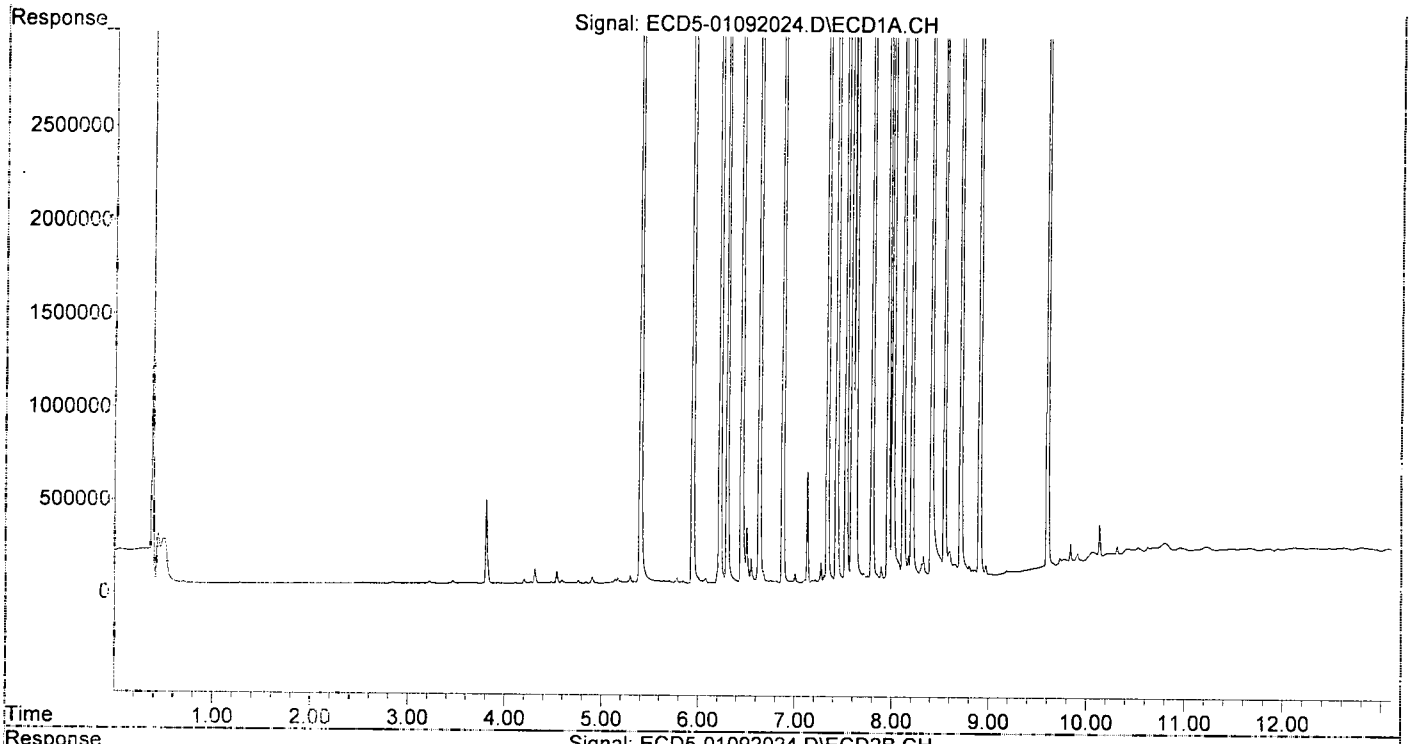
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.400	6.124	20316288	34385902	104.047	115.357	
22)	S	DCBP (S)	9.600	10.732	15849041	20804566	107.198	116.914	
		Target Compounds							
2)		a-BHC	5.939	6.732	29111757	52506148	110.622	127.148	
3)		g-BHC	6.222	7.051	26135780	45102068	111.930	123.534	
4)		b-BHC	6.297	7.111	10339168	17801835	107.236	110.669	
5)		Heptachlor	6.631	7.429	25823359	44049705	113.641	124.263	
6)		d-BHC	6.446	7.370	25040553	45246572	114.948	118.215	
7)		Aldrin	6.872	7.698	24287290	41436577	110.077	124.413	
8)		Heptachlo...	7.334	8.137	22298955	36437524	108.166	118.290	
9)		trans-Chl...	7.429	8.277	22999249	37092948	109.147	118.952	
10)		cis-Chlor...	7.527	8.385	22085315	35750456	107.930	120.515	
11)		Endosulfa...	7.624	8.437	20695102	33789673	106.784	121.597	
12)		4,4'-DDE	7.588	8.486	23069709	39212433	111.888	117.642	
13)		Dieldrin	7.796	8.639	23615073	39189355	109.645	126.855	
14)		Endrin	7.961	8.869	20690527	31610717	119.586	134.533	
15)		4,4'-DDD	8.009	8.903	19856144	31729022	115.006	129.081	Q-41
16)		Endosulfa...	8.117	9.015	18542325	30224650	108.677	123.720	
17)		4,4'-DDT	8.207	9.133	19900931	31638719	120.130	120.825	Q-41
18)		Endrin Al...	8.408	9.252	15077452	24851647	98.473	111.142	
19)		Endosulfa...	8.710	9.443	17915160	28836438	111.944	130.087	
20)		Methoxychlor	8.543	9.609	10202556	15526145	117.801	130.548	
21)		Endrin Ke...	8.904	9.848	21630537	34294572	113.267	136.942	
23)		Hexachlor...	3.222	0.000	9748	0	0.049	N.D.	#
24)		Hexachlor...	5.781	6.602	30933	15652	0.005	0.049	#
25)		Oxychlordane	7.269	8.056	104611	11903	0.396	0.043	#
26)		2,4'-DDE	7.334	8.277	22298955	37092948	156.384	176.137	
27)		trans-Non...	7.527	8.339	22085315	70355	110.171	0.229	#
28)		2,4'-DDD	7.710	8.639	38321	39189355	0.301	212.478	#
29)		2,4'-DDT	7.891	8.869	69031	31610717	0.471	136.891	#
30)		cis-Nonac...	8.009	8.903	19856144	31729022	84.245	93.009	
31)		Mirex	8.657	9.848	65852	34294572	0.242	167.598	#
32)		Chlordane...	7.429	8.277	22999249	37092948	980.293	953.621	
33)		Chlordane...	7.527	8.385	22085315	35750456	766.299	1113.793	#
34)		Chlordane...	8.117f	9.084f	18542325	97611	2437.346	9.193	#
35)		Chlordane...	3.807	0.000	444484	0	NoCal	N.D.	
36)		Toxaphene...	7.527	8.639f	22085315	39189355	20969.289	14491.458	
37)		Toxaphene...	7.796	0.000	23615073	0	12143.523	N.D.	#
38)		Toxaphene...	8.117	9.015	18542325	30224650	4198.269	4321.136	
39)		Toxaphene...	8.327f	9.084	115807	97611	28.665	10.815	#
40)		Toxaphene...	8.597	9.252	138749	24851647	42.202	4948.602	#
41)		Toxaphene...	8.657	9.609f	65852	15526145	15.165	2765.530	#
42)		Toxaphene...	3.807	0.000	444484	0	NoCal	N.D.	

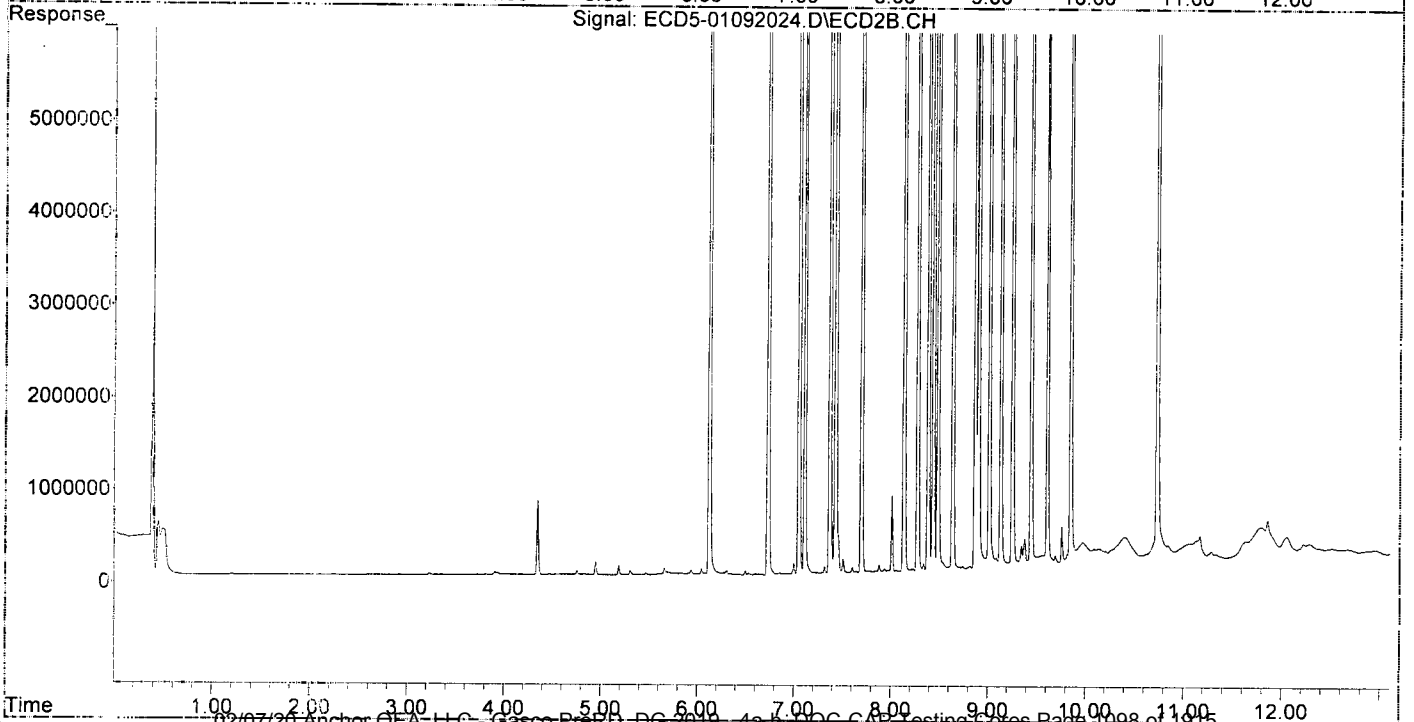
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 17:47
Operator : MJB
Sample : 0A09021-CCV3
Misc : A19K134, 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: Jan 09 18:02:06 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 18:04
Operator : MJB
Sample : 0A09021-CCV4
Misc : A19J409, 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: Jan 09 18:19:02 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

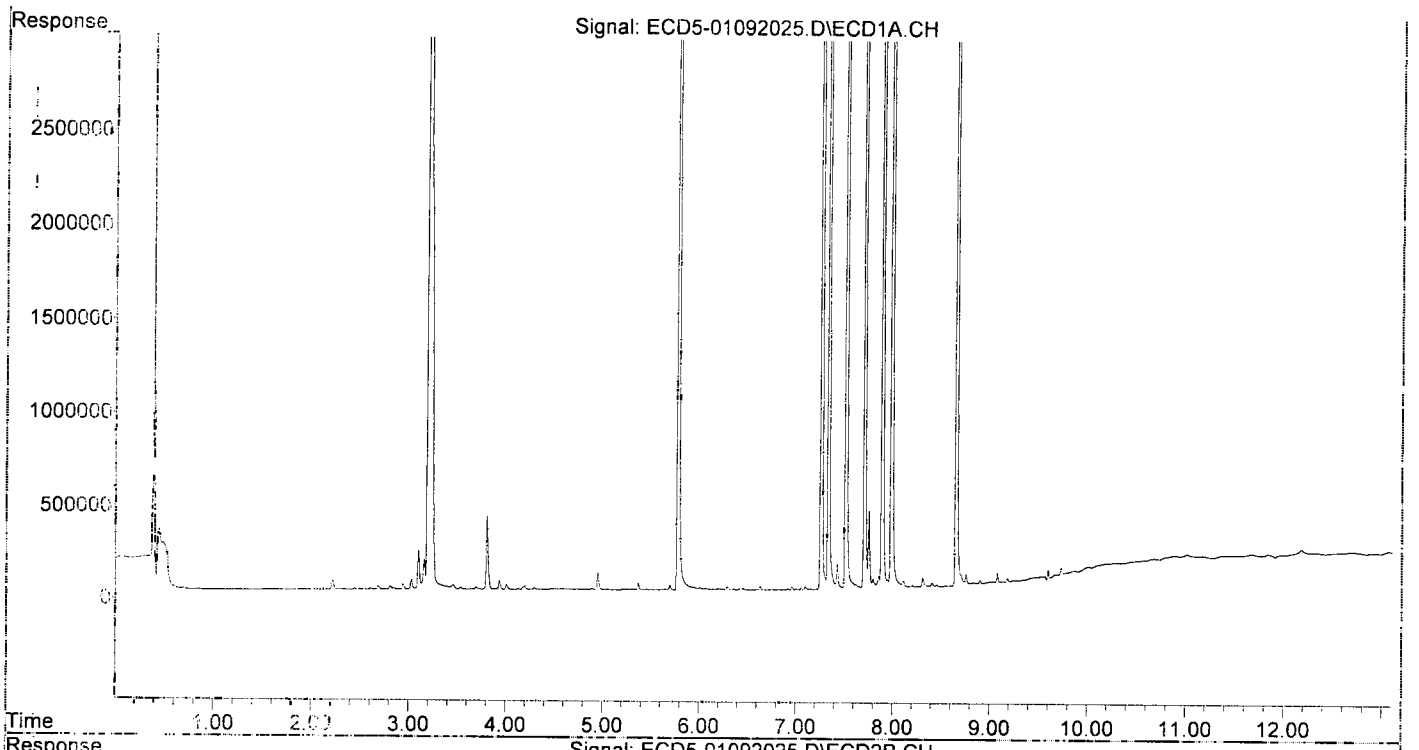
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.372f	6.122	37799	12109	0.194	0.041	#
22)	S DCBP (S)	9.603	10.733	51040	144787	0.186	0.814	#
	Target Compounds							
2)	a-BHC	5.938	6.726	15295	14822	0.058	0.036	
3)	g-BHC	6.200f	0.000	6841	0	0.029	N.D.	#
4)	b-BHC	6.293	7.112	14885	11884	5931.850	0.074	#
5)	Heptachlor	6.634	7.428	18328	27402	0.081	0.077	
6)	d-BHC	6.450	7.369	7311	14119	0.034	0.100	#
7)	Aldrin	6.875	7.699	2938	10138	0.013	0.030	#
8)	Heptachlo...	7.338	8.134	12673190	69000	61.474	0.224	#
9)	trans-Chl...	7.430	8.265	134786	21358506	0.640	68.494	#
10)	cis-Chlor...	7.519	8.382	18697947	83177	91.376	0.280	#
11)	Endosulfa...	0.000	8.438	0	26406	N.D.	0.095	#
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)	Dieldrin	0.000	8.639	0	18542242	N.D.	60.021	#
14)	Endrin	7.989f	8.866	20932814	22008414	120.986	93.667	
15)	4,4'-DDD	7.989f	8.909	20932814	35574858	121.242	144.727	
16)	Endosulfa...	8.112	9.013	34205	84252	0.200	0.345	#
17)	4,4'-DDT	8.208	9.132	11075	40413	0.067	0.219	#
18)	Endrin Al...	8.410	9.251	21516	96618	0.141	0.432	#
19)	Endosulfa...	0.000	9.443	0	90892	N.D.	0.410	#
20)	Methoxychlor	0.000	9.641f	0	75666	N.D.	0.636	#
21)	Endrin Ke...	8.905	9.845	21313	18692205	0.112	74.640	#
23)	Hexachlor...	3.202	3.810	16418597	35894052	82.321	89.572	
24)	Hexachlor...	5.781	6.593	18227714	31708184	94.378	99.056	
25)	Oxychlordane	7.264	8.065	16837868	27954763	95.279	99.948	
26)	2,4'-DDE	7.338	8.265	12673190	21358506	88.878	101.422	
27)	trans-Non...	7.519	8.340	18697947	30930477	93.388	100.591	
28)	2,4'-DDD	7.710	8.639	11358425	18542242	89.272	100.533	
29)	2,4'-DDT	7.893	8.866	13205505	22008414	90.155	100.692	
30)	cis-Nonac...	7.989	8.909	20932814	35574858	88.813	104.282	
31)	Mirex	8.658	9.845	12575074	18692205	94.312	97.594	
32)	Chlordane...	7.430	8.265	134786	21358506	5.745	549.105	#
33)	Chlordane...	7.519	8.382	18697947	83177	648.767	2.591	#
34)	Chlordane...	8.112f	9.047	34205	117474	4.496	11.064	#
35)	Chlordane...	3.805	3.810	399729	35894052	NoCal	NoCal	
36)	Toxaphene...	7.519	8.639f	18697947	18542242	17753.093	6856.559	#
37)	Toxaphene...	0.000	8.993f	0	90252	N.D.	25.915	#
38)	Toxaphene...	8.112	9.013	34205	84252	4.025	12.495	#
39)	Toxaphene...	0.000	9.047f	0	117474	N.D.	13.015	#
40)	Toxaphene...	0.000	9.251	0	96618	N.D.	19.239	#
41)	Toxaphene...	8.658	9.641	12575074	75666	2895.909	13.478	#
42)	Toxaphene...	3.805	3.810	399729	35894052	NoCal	NoCal	

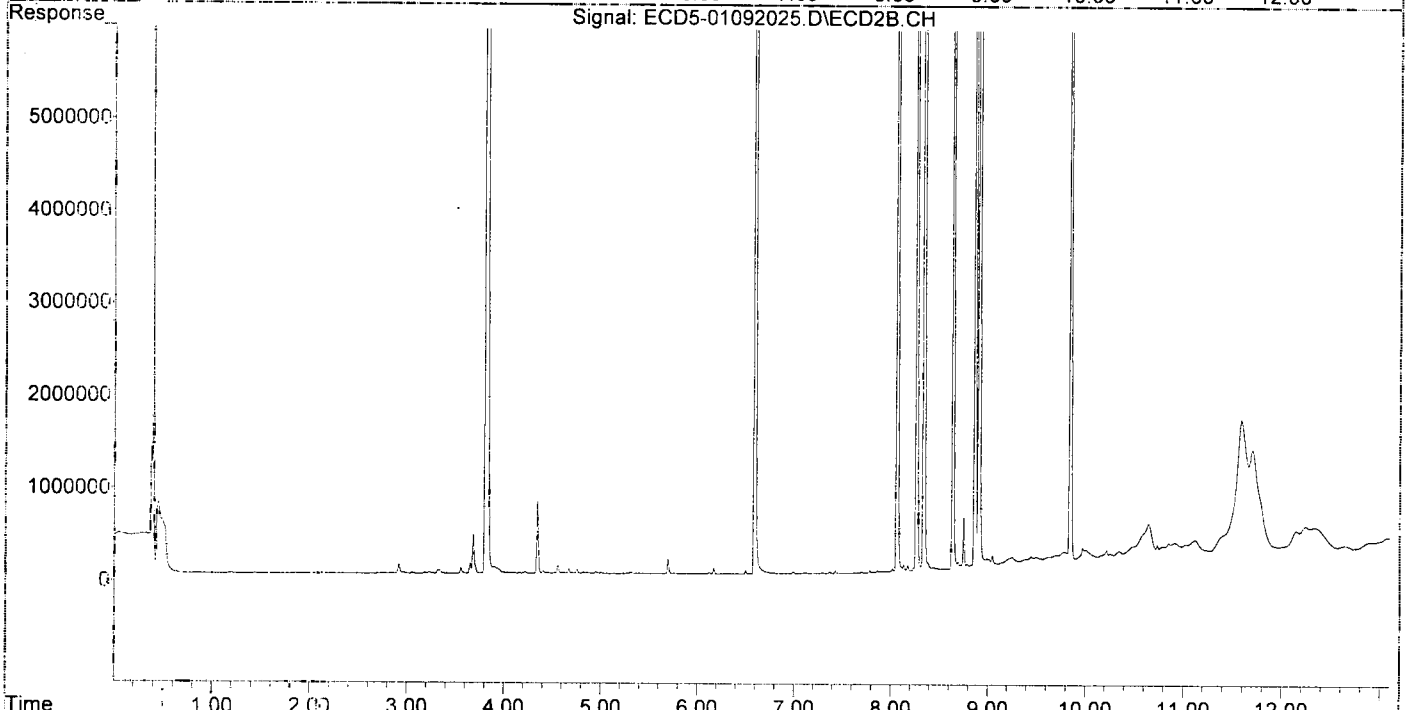
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 18:04
Operator : MJB
Sample : 0A09021-CCV4
Misc : A19J409, 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: Jan 09 18:19:02 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 18:22
Operator : MJB
Sample : 0A09021-CC#2
Misc : A19L339
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: Jan 09 18:50:30 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

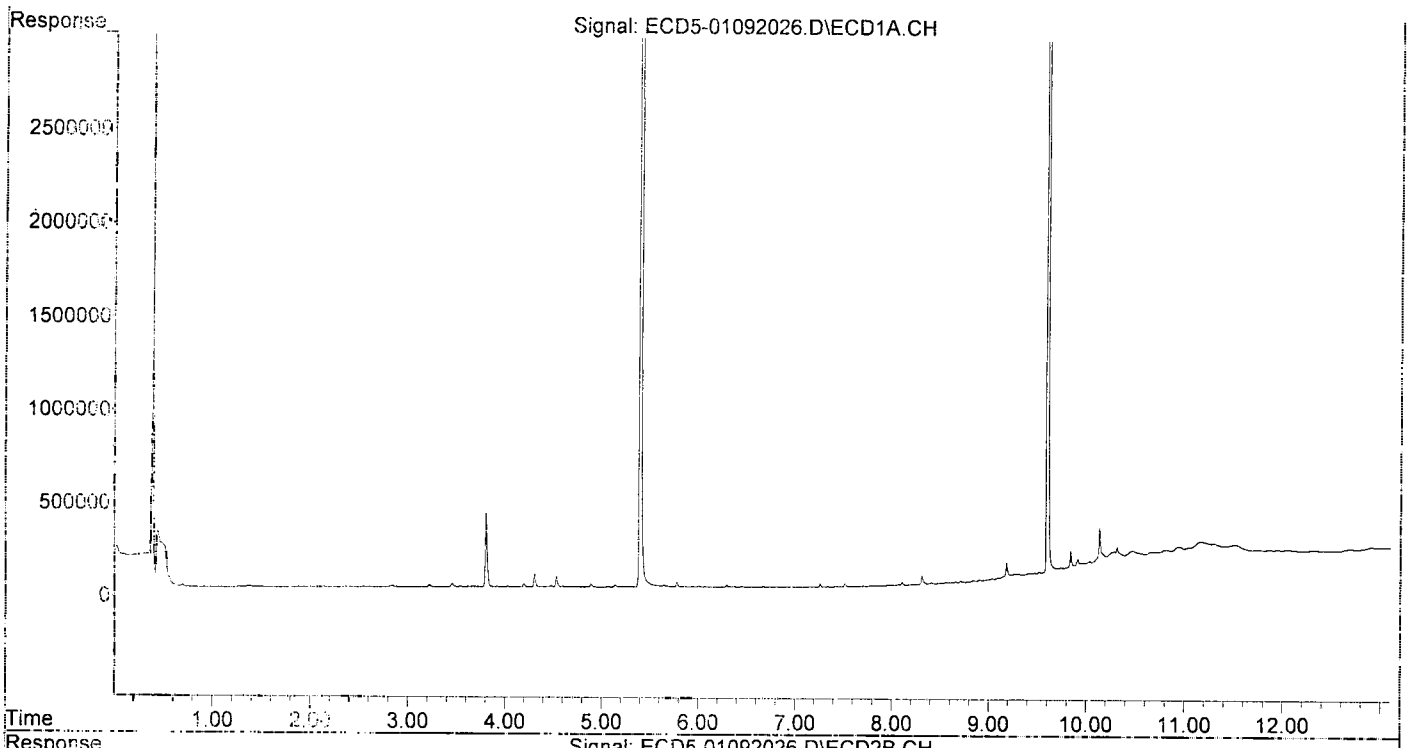
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.899	6.122	17282738	30814296	88.511	103.375	
22)	S	DCBP (S)	9.602	10.733	14266984	17232611	96.352	96.841	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.295	0.000	12083	0	5931.879	N.D.	#
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	6.449	7.369	3569	6142	0.016	0.076	#
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	7.338	0.000	2299	0	0.011	N.D.	#
9)		trans-Chl...	7.417	8.284	5149	48988	0.024	0.157	#
10)		cis-Chlor...	7.518	0.000	14691	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	7.799	0.000	1028	0	0.005	N.D.	#
14)		Endrin	7.961	8.910f	1443	120158	0.008	0.511	#
15)		4,4'-DDD	7.992f	8.910	4637	120158	0.027	0.489	#
16)		Endosulfa...	8.110	8.994f	15548	132474	0.091	0.542	#
17)		4,4'-DDT	0.000	9.158f	0	231710	N.D.	1.113	#
18)		Endrin Al...	8.410	0.000	7110	0	0.046	N.D.	#
19)		Endosulfa...	8.712	0.000	8801	0	0.055	N.D.	#
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.906	9.850	6289	13510	0.033	0.054	#
23)		Hexachlor...	3.220	0.000	10238	0	0.051	N.D.	#
24)		Hexachlor...	5.781	6.606	25204	9852	BelowCal	0.031	
25)		Oxychlordane	7.263	0.000	16903	0	BelowCal	N.D.	
26)		2,4'-DDE	7.338	8.284	2299	48988	0.016	0.233	#
27)		trans-Non...	7.518	8.344	14691	44024	BelowCal	0.143	
28)		2,4'-DDD	7.713	0.000	1843	0	0.014	N.D.	#
29)		2,4'-DDT	7.896	8.910f	1102	120158	0.008	0.548	#
30)		cis-Nonac...	7.992	8.910	4637	120158	0.020	0.352	#
31)		Mirex	8.660	9.850	4621	13510	6723.013	BelowCal	#
32)		Chlordane...	7.417	8.284	5149	48988	0.219	1.259	#
33)		Chlordane...	7.518	0.000	14691	0	0.510	N.D.	#
34)		Chlordane...	8.071	9.047	5470	186285	0.719	17.545	#
35)		Chlordane...	3.805	0.000	394889	0	NoCal	N.D.	
36)		Toxaphene...	7.518	0.000	14691	0	13.949	N.D.	#
37)		Toxaphene...	7.799	8.994f	1028	132474	0.529	38.039	#
38)		Toxaphene...	8.110	8.994	15548	132474	BelowCal	21.895	
39)		Toxaphene...	0.000	9.047f	0	186285	N.D.	20.639	#
40)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
41)		Toxaphene...	8.660	9.664f	4621	29359	1.064	5.229	#
42)		Toxaphene...	3.805	0.000	394889	0	NoCal	N.D.	

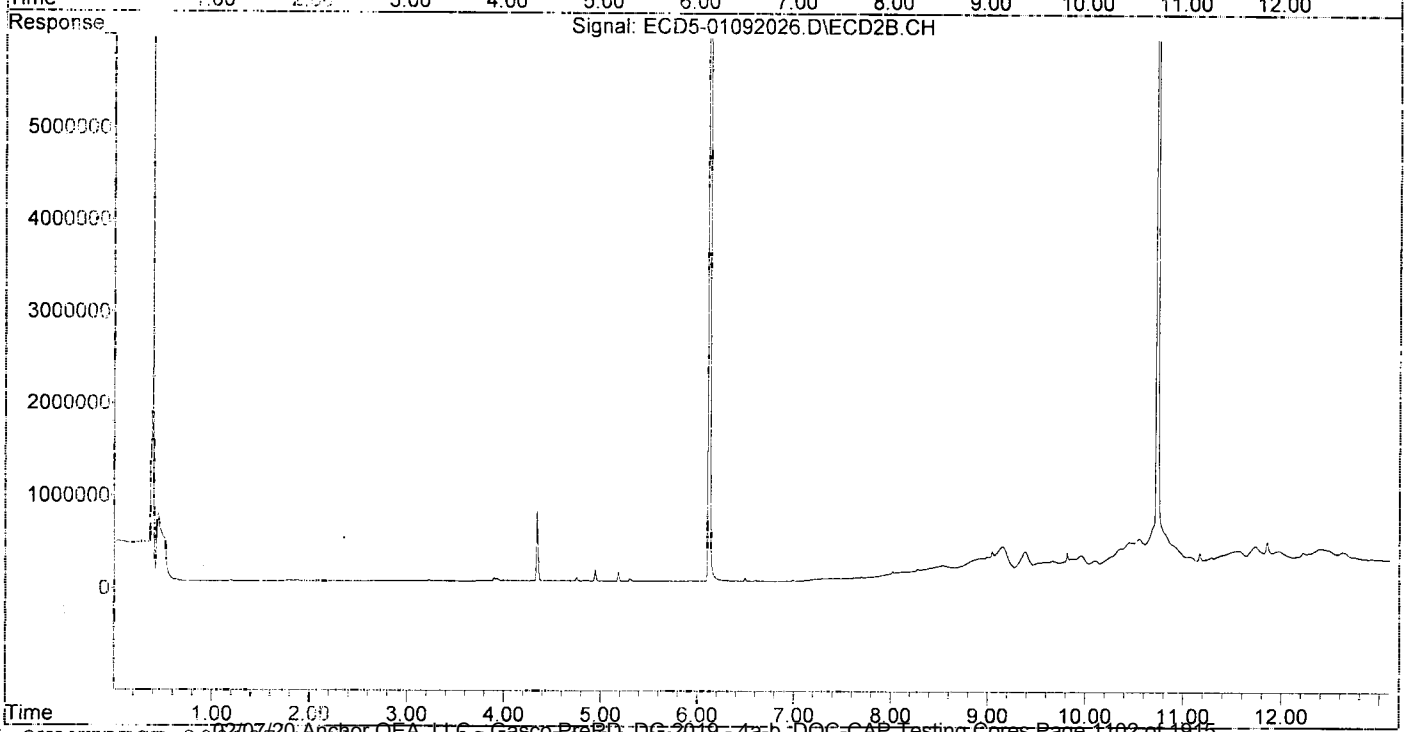
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 18:22
Operator : MJB
Sample : 0A09021-CCB2
Misc : A19L339
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: Jan 09 18:50:30 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 19:16
Operator : MJB
Sample : A9J0514-40RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 10 11:14:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

R-04

MJB 1/10/20

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.400	6.123	2996746	5117290	15.347	17.167
22) S	DCBP (S)	9.600	10.733	2911219	4420527	19.350	24.842
	Target Compounds						
2)	a-BHC	5.929	6.731	26249	82927	0.100	0.201 #
3)	g-BHC	6.238	7.026f	60545	15828580	0.259	43.354 #
4)	b-BHC	6.315	7.105	85143	168578	0.701	1.048 #
5)	Heptachlor	6.648	7.432	423437	144885	1.863	0.409 #
6)	d-BHC	6.431	7.389	121032	186366	0.556	0.612
7)	Aldrin	6.876	7.687	942627	205502	4.272	0.617 #
8)	Heptachlo...	7.311f	8.136	421652	129338	2.045	0.420 #
9)	trans-Chl...	7.407f	8.281	122144	269292	0.580	0.864 #
10)	cis-Chlor...	7.538	8.408	441617	295712	2.158	0.997 #
11)	Endosulfa...	7.618	8.408f	34760	295712	0.179	1.064 #
12)	4,4'-DDE	7.588	8.497	52581	457515	0.255	1.603m#
13)	Dieldrin	7.779f	8.617f	53413	1588373	0.248	5.142 #
14)	Endrin	7.974	8.878	841574	192980	4.864	0.821 #
15)	4,4'-DDD	8.022	8.900	93805	101689	0.543m	0.414
16)	Endosulfa...	8.122	9.041f	48569	151194	0.285	0.619 #
17)	4,4'-DDT	8.223	9.144	149917	186972	0.905m	0.904
18)	Endrin Al...	8.388f	9.259	176754	199371	1.154	0.892
19)	Endosulfa...	8.711	9.458	3926582	1173425	24.536	5.294 #
20)	Methoxychlor	8.581f	9.600	985189	167643	11.375	1.410 #
21)	Endrin Ke...	8.880f	9.839	204682	610399	1.072	2.437 #
23)	Hexachlor...	3.222	3.790f	83517	428481	0.419	1.069 #
24)	Hexachlor...	5.790	6.599	383434	138393	1.835	0.432 #
25)	Oxychlordane	7.245f	8.054	223629	1017126	1.079	3.637 #
26)	2,4'-DDE	7.330	8.281	113284	269292	0.794m	1.279 #
27)	trans-Non...	7.538	8.354	441617	508272	2.071	1.653
28)	2,4'-DDD	7.718	8.633	162731	281821	1.279	1.528m
29)	2,4'-DDT	7.887	8.878	70590	192980	0.482m	0.943 #
30)	cis-Nonac...	7.974f	8.900	841574	101689	3.571	0.298 #
31)	Mirex	8.625f	9.839	186718	610399	1.138	3.257 #
32)	Chlordane...	7.466f	8.281	120666	269292	5.143	6.923
33)	Chlordane...	7.538	8.408	441617	295712	15.323	9.213
34)	Chlordane...	8.095	9.071	124144	144399	16.318	13.600
35)	Chlordane...	3.807	3.790	2684604	428481	NoCal	NoCal
36)	Toxaphene...	7.538f	8.617	441617	1588373	419.301	587.349 #
37)	Toxaphene...	7.826f	8.987	87804	251495	45.151	72.216 #
38)	Toxaphene...	8.122	8.987	48569	251495	7.462	45.032 #
39)	Toxaphene...	8.388f	9.071	176754	144399	43.751	15.999 #
40)	Toxaphene...	8.581	9.259	985189	199371	299.652	39.700 #
41)	Toxaphene...	8.625f	9.645	186718	1257912	42.999	224.060 #
42)	Toxaphene...	3.807	3.790	2684604	428481	NoCal	NoCal

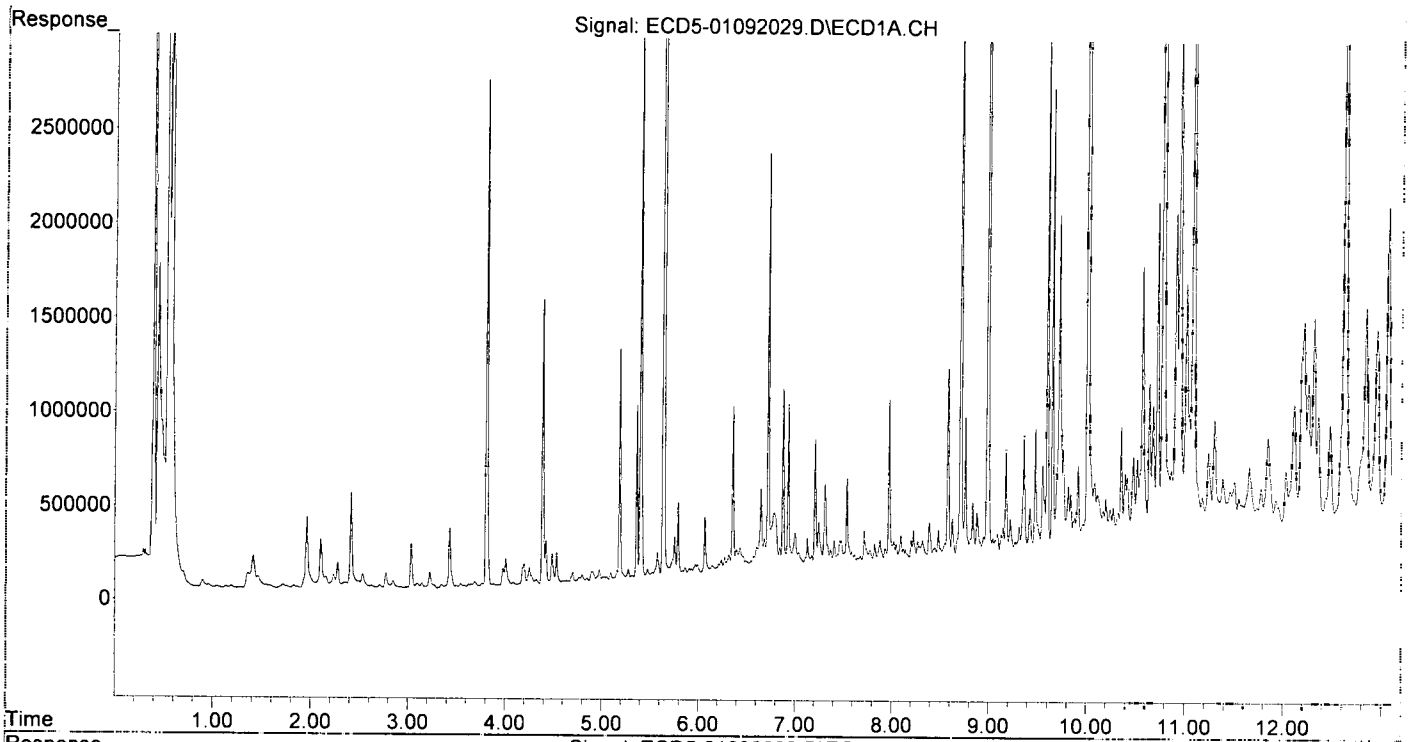
P-01 MDL=MRL

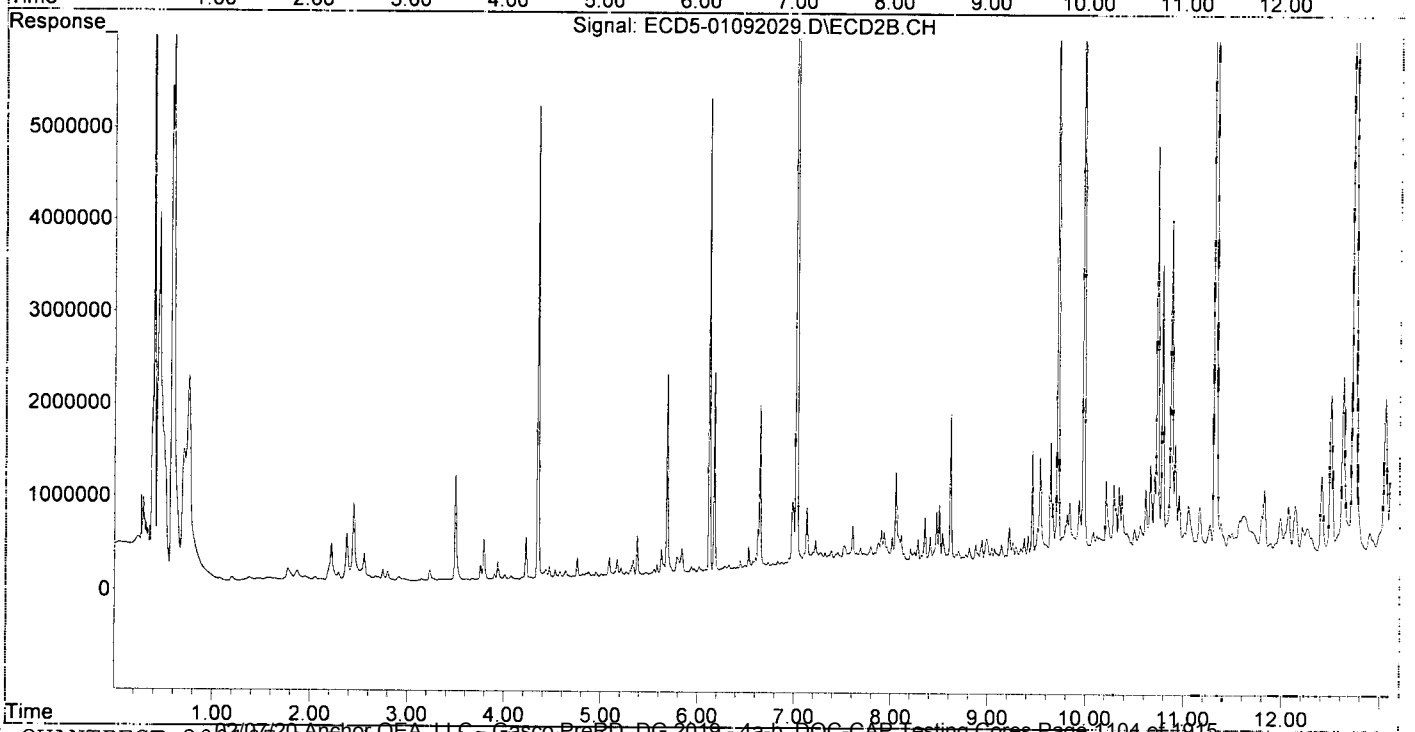
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 19:16
Operator : MJB
Sample : A9J0514-40RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 10 11:14:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

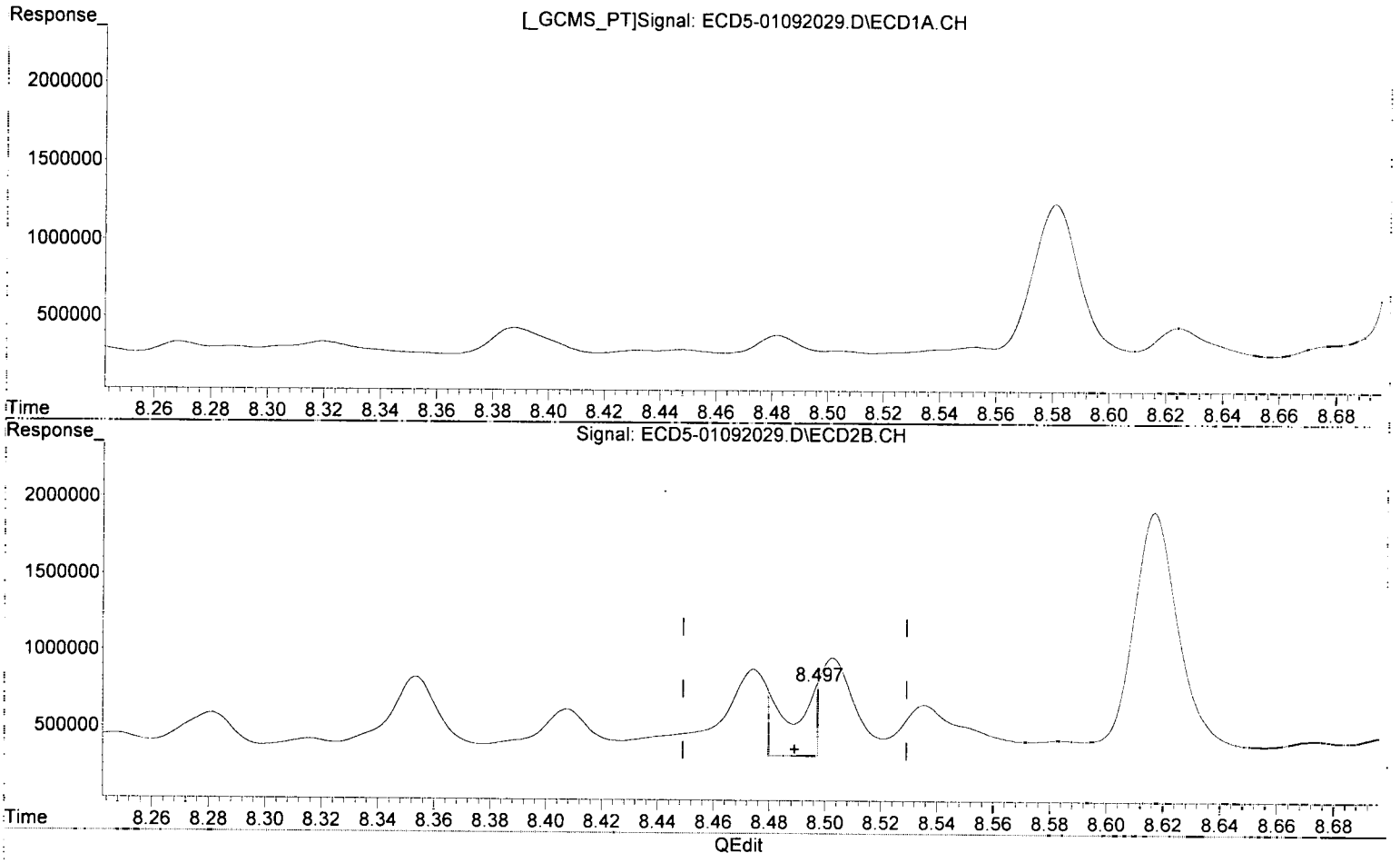




Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 19:16
Operator : MJB
Sample : A9J0514-40RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 10 10:56:45 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.588min 0.255 ng/mL

response 52581

MJB 1/10/20.

(12) 4,4'-DDE #2

8.497min 1.603 ng/mL m

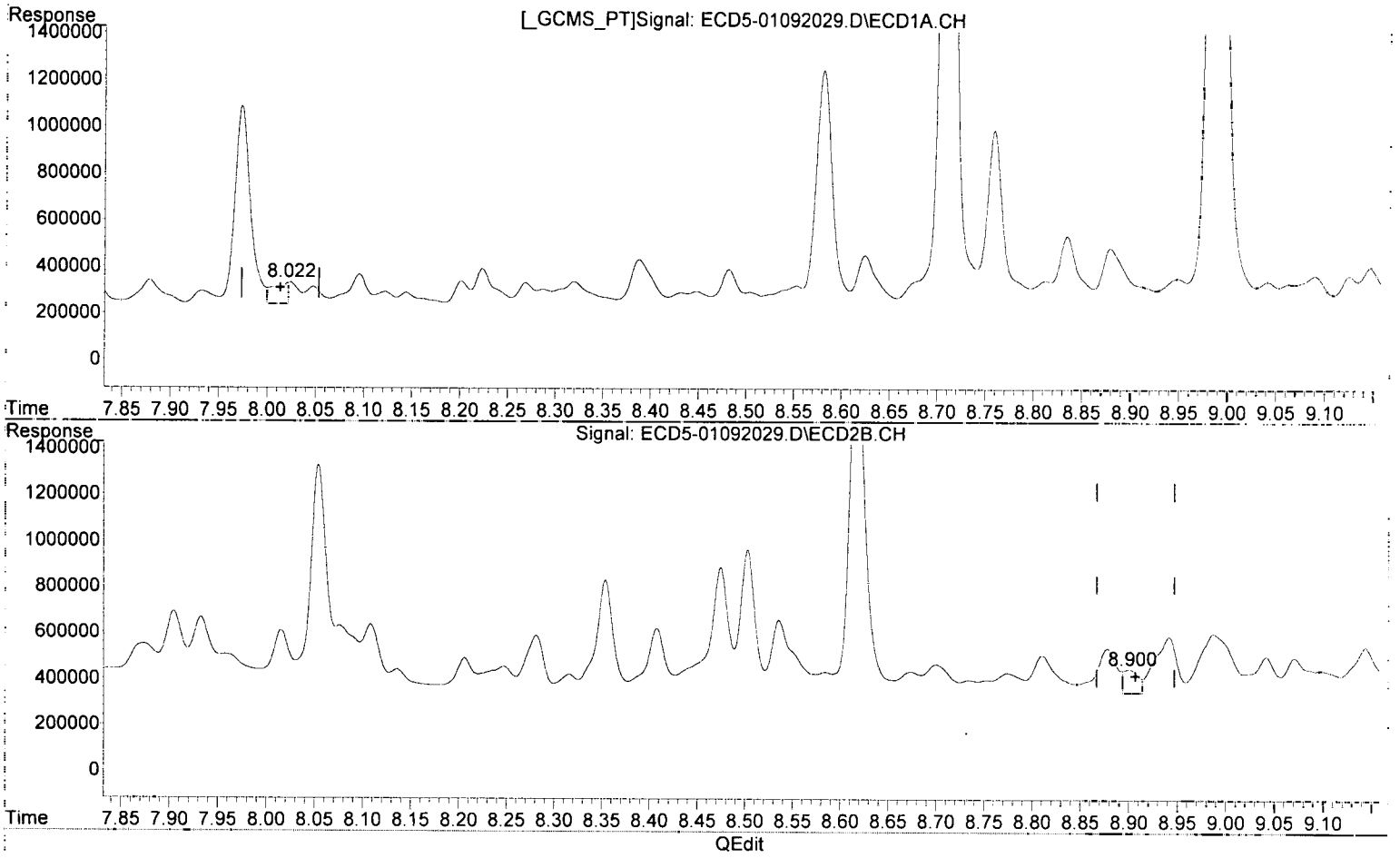
response 457515

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 19:16
Operator : MJB
Sample : A9J0514-40RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 10 10:56:45 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

8.022min 0.543 ng/mL (m)

response 93805

WP 1/10/20

(15) 4,4'-DDD #2

8.900min 0.414 ng/mL

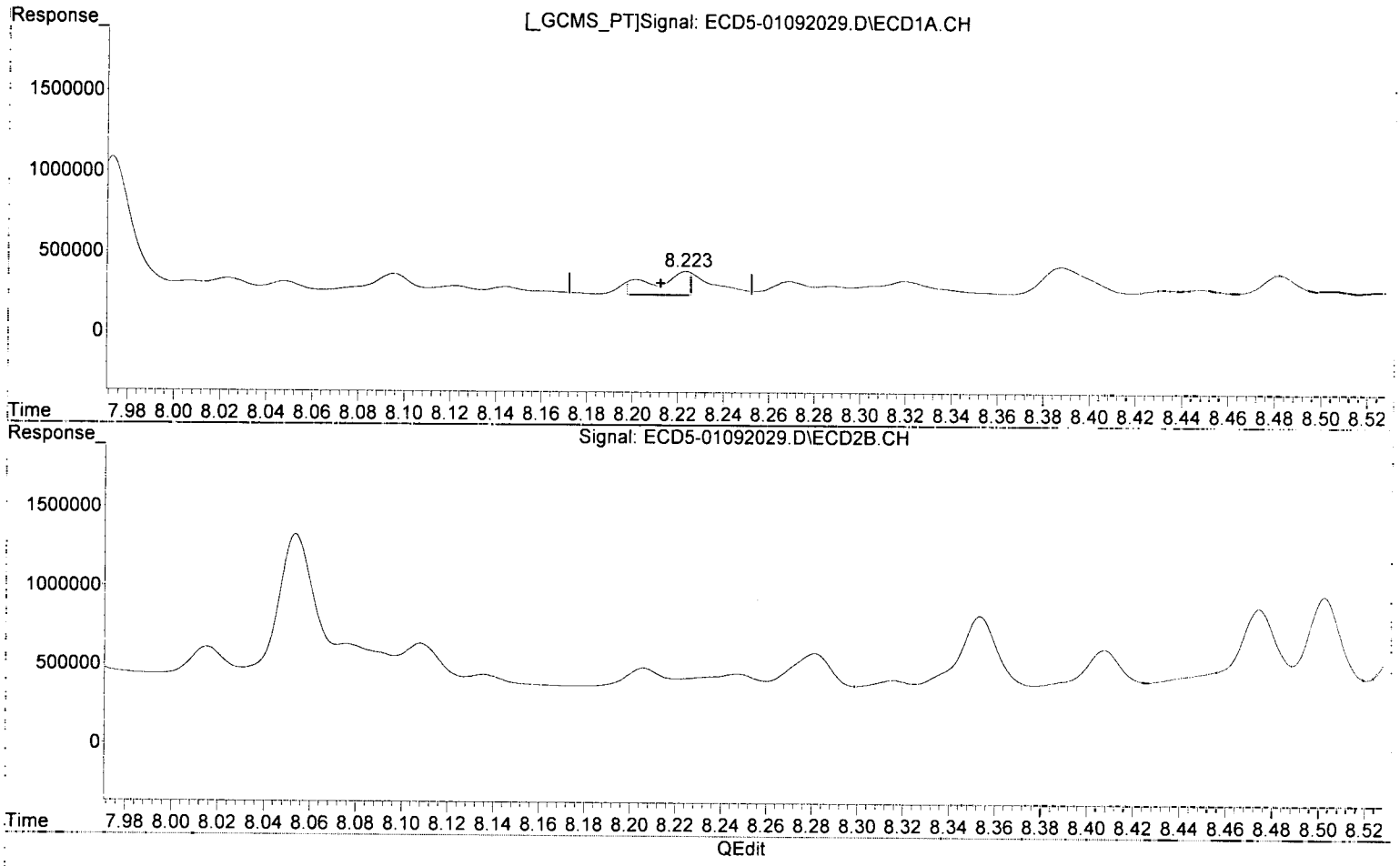
response 101689

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 19:16
Operator : MJB
Sample : A9J0514-40RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 10 10:56:45 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.223min 0.905 ng/mL (m)

response 149917

MJB 1/10/20

(17) 4,4'-DDT #2

9.144min 0.904 ng/mL

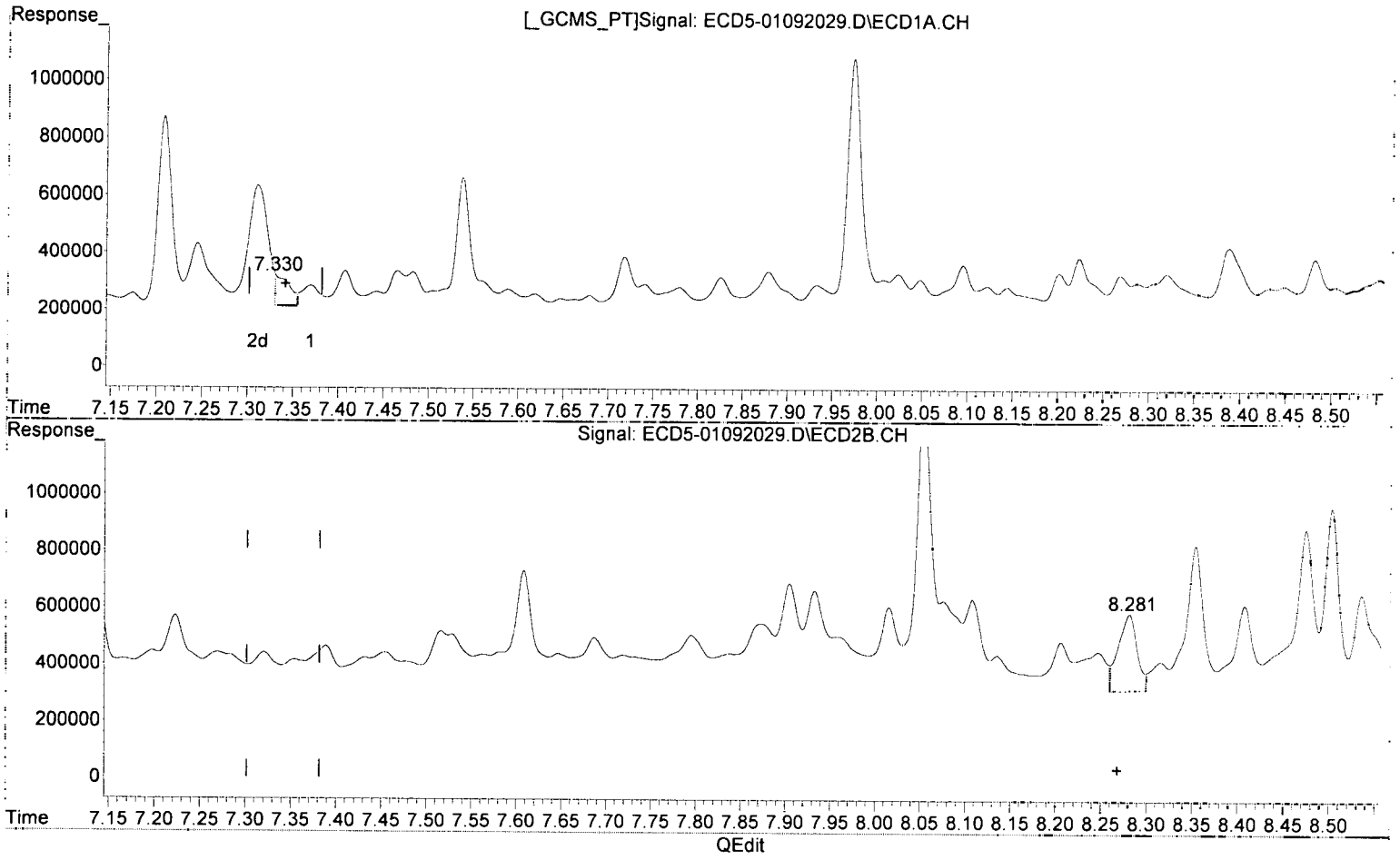
response 186972

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 19:16
Operator : MJB
Sample : A9J0514-40RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 10 10:56:45 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.330min 0.794 ng/mL (m)

response 113284

MJB 1/10/20

(26) 2,4'-DDE #2

8.281min 1.279 ng/mL P-01

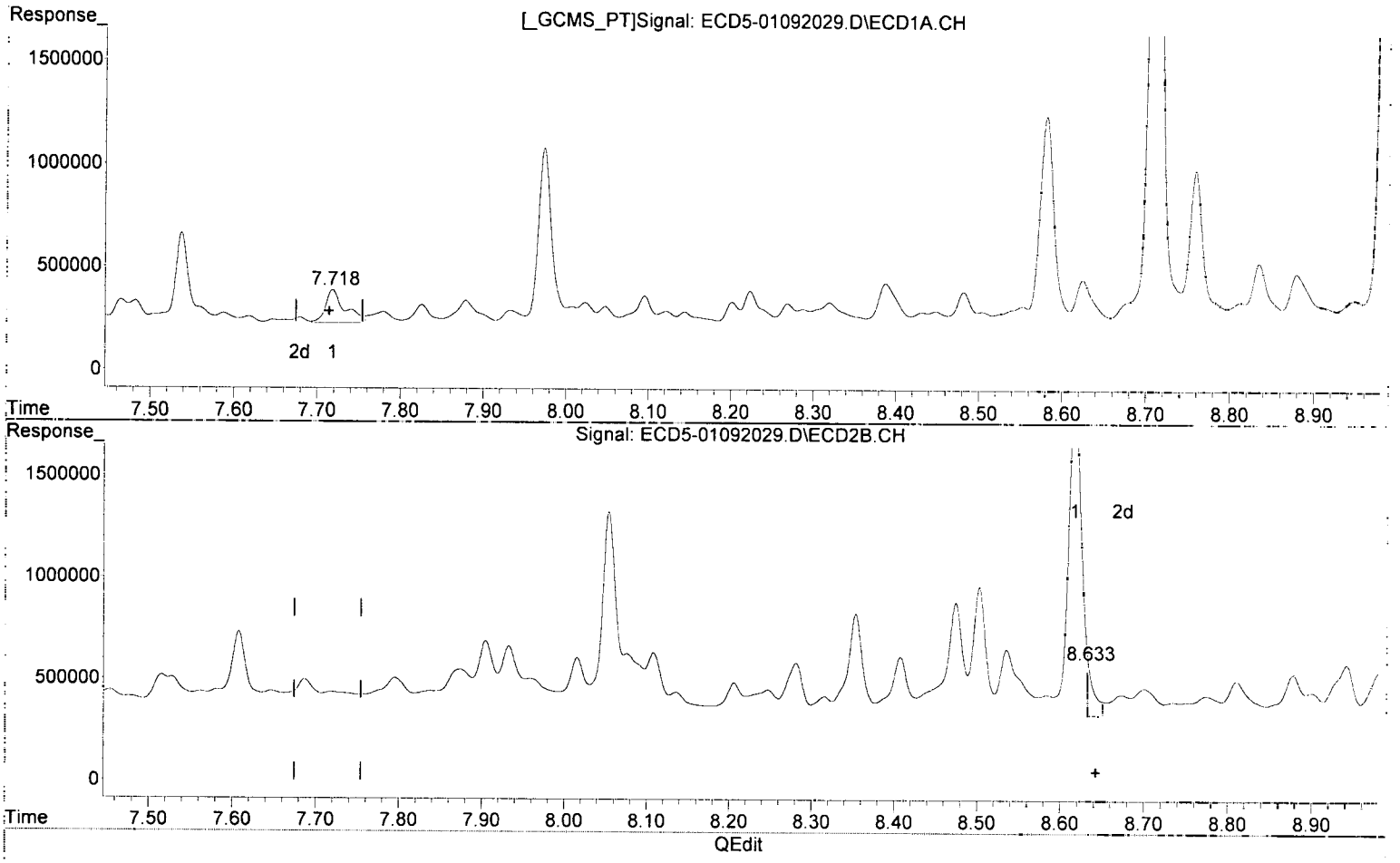
response 269292

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 19:16
Operator : MJB
Sample : A9J0514-40RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 10 10:56:45 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.718min 1.279 ng/mL

response 162731

MJB 1/13/20

(28) 2,4'-DDD #2

8.633min 1.528 ng/mL (m) MDL=MRL

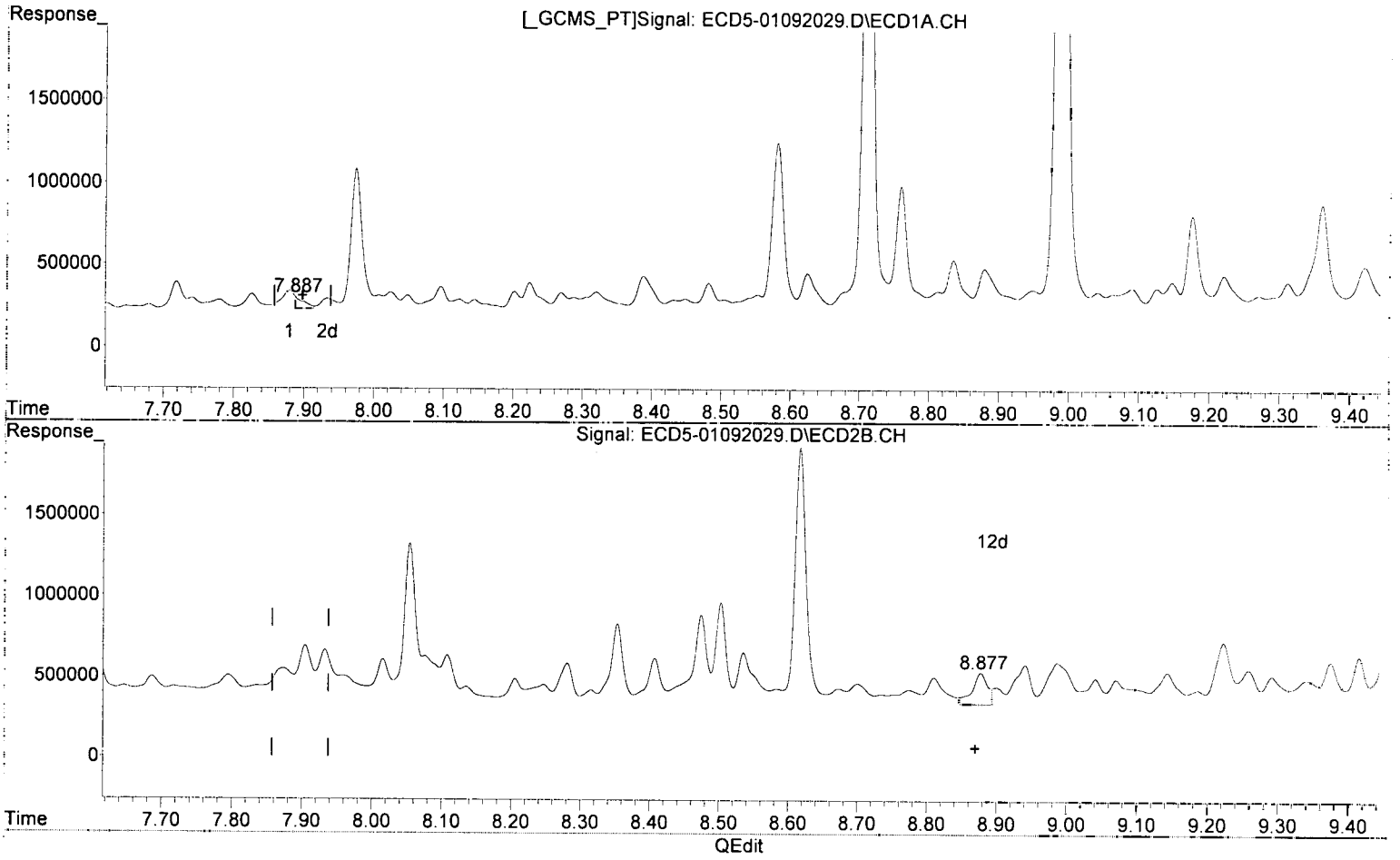
response 281821

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 19:16
Operator : MJB
Sample : A9J0514-40RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 10 10:56:45 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.887min 0.482 ng/mL (m)

response 70590

MJB 1/10/21

(29) 2,4'-DDT #2

8.878min 0.943 ng/mL

response 192980

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 19:16
Operator : MJB
Sample : A9J0514-40RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 10 10:56:45 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

hI MJB 1/10/20

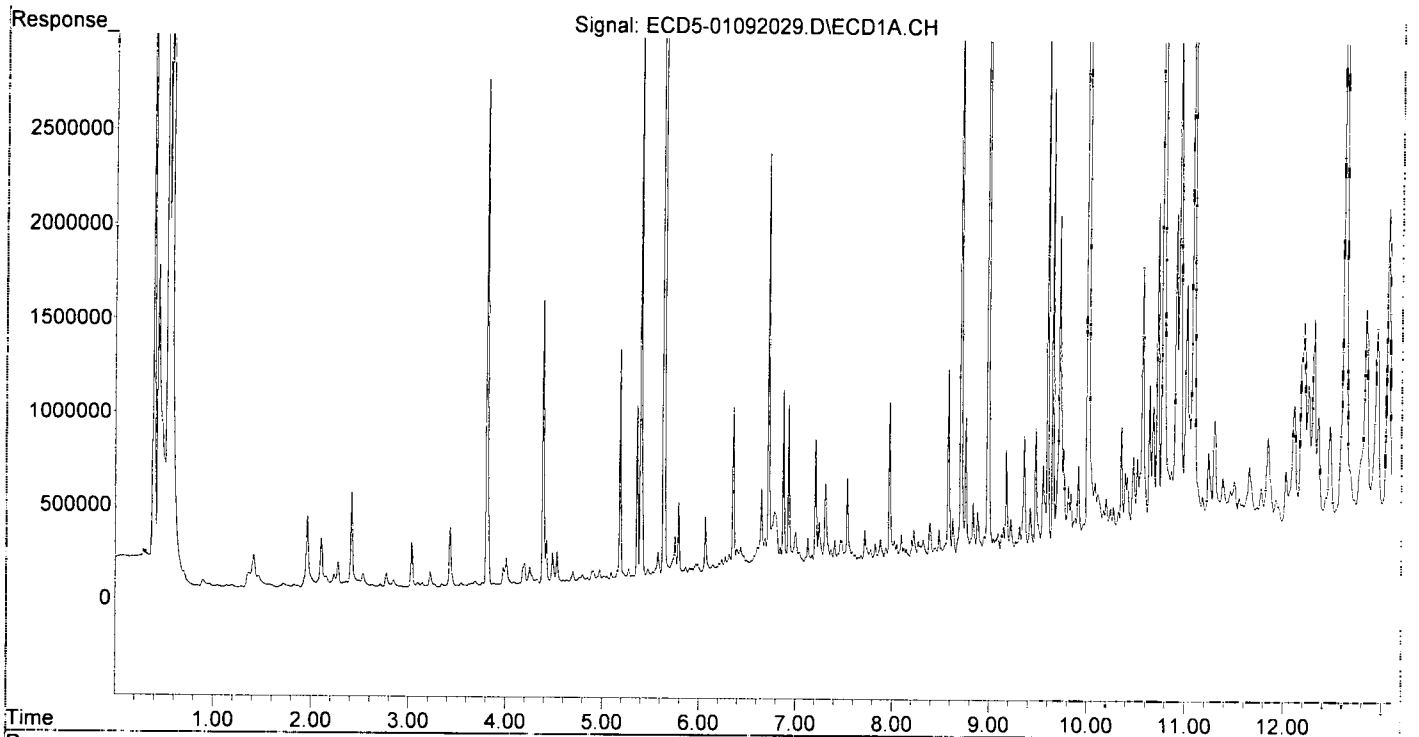
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.400	6.123	2996746	5117290	15.347	17.167	
22)	S DCBP (S)	9.600	10.733	2911219	4420527	19.350	24.842	
	Target Compounds							
2)	a-BHC	5.929	6.731	26249	82927	0.100	0.201	#
3)	g-BHC	6.238	7.026f	60545	15828580	0.259	43.354	#
4)	b-BHC	6.315	7.105	85143	168578	0.701	1.048	#
5)	Heptachlor	6.648	7.432	423437	144885	1.863	0.409	#
6)	d-BHC	6.431	7.389	121032	186366	0.556	0.612	
7)	Aldrin	6.876	7.687	942627	205502	4.272	0.617	#
8)	Heptachlo...	7.311f	8.136	421652	129338	2.045	0.420	#
9)	trans-Chl...	7.407f	8.281	122144	269292	0.580	0.864	#
10)	cis-Chlor...	7.538	8.408	441617	295712	2.158	0.997	#
11)	Endosulfa...	7.618	8.408f	34760	295712	0.179	1.064	#
12)	4,4'-DDE	7.588	8.503	52581	635433	0.255	2.212	#
13)	Dieldrin	7.779f	8.617f	53413	1588373	0.248	5.142	#
14)	Endrin	7.974	8.878	841574	192980	4.864	0.821	#
15)	4,4'-DDD	8.023	8.900	93732	101689	0.543	0.414	
16)	Endosulfa...	8.122	9.041f	48569	151194	0.285	0.619	#
17)	4,4'-DDT	8.202	9.144	92068	186972	0.556	0.904	#
18)	Endrin Al...	8.388f	9.259	176754	199371	1.154	0.892	
19)	Endosulfa...	8.711	9.458	3926582	1173425	24.536	5.294	#
20)	Methoxychlor	8.581f	9.600	985189	167643	11.375	1.410	#
21)	Endrin Ke...	8.880f	9.839	204682	610399	1.072	2.437	#
23)	Hexachlor...	3.222	3.790f	83517	428481	0.419	1.069	#
24)	Hexachlor...	5.790	6.599	383434	138393	1.835	0.432	#
25)	Oxychlordane	7.245f	8.054	223629	1017126	1.079	3.637	#
26)	2,4'-DDE	7.370f	8.281	71581	269292	0.502	1.279	#
27)	trans-Non...	7.538	8.354	441617	508272	2.071	1.653	
28)	2,4'-DDD	7.718	8.617f	162731	1588373	1.279	8.612	#
29)	2,4'-DDT	7.879	8.878	106636	192980	0.728	0.943	
30)	cis-Nonac...	7.974f	8.900	841574	101689	3.571	0.298	#
31)	Mirex	8.625f	9.839	186718	610399	1.138	3.257	#
32)	Chlordane...	7.466f	8.281	120666	269292	5.143	6.923	
33)	Chlordane...	7.538	8.408	441617	295712	15.323	9.213	
34)	Chlordane...	8.095	9.071	124144	144399	16.318	13.600	
35)	Chlordane...	3.807	3.790	2684604	428481	NoCal	NoCal	
36)	Toxaphene...	7.538f	8.617	441617	1588373	419.301	587.349	#
37)	Toxaphene...	7.826f	8.987	87804	251495	45.151	72.216	#
38)	Toxaphene...	8.122	8.987	48569	251495	7.462	45.032	#
39)	Toxaphene...	8.388f	9.071	176754	144399	43.751	15.999	#
40)	Toxaphene...	8.581	9.259	985189	199371	299.652	39.700	#
41)	Toxaphene...	8.625f	9.645	186718	1257912	42.999	224.060	#
42)	Toxaphene...	3.807	3.790	2684604	428481	NoCal	NoCal	

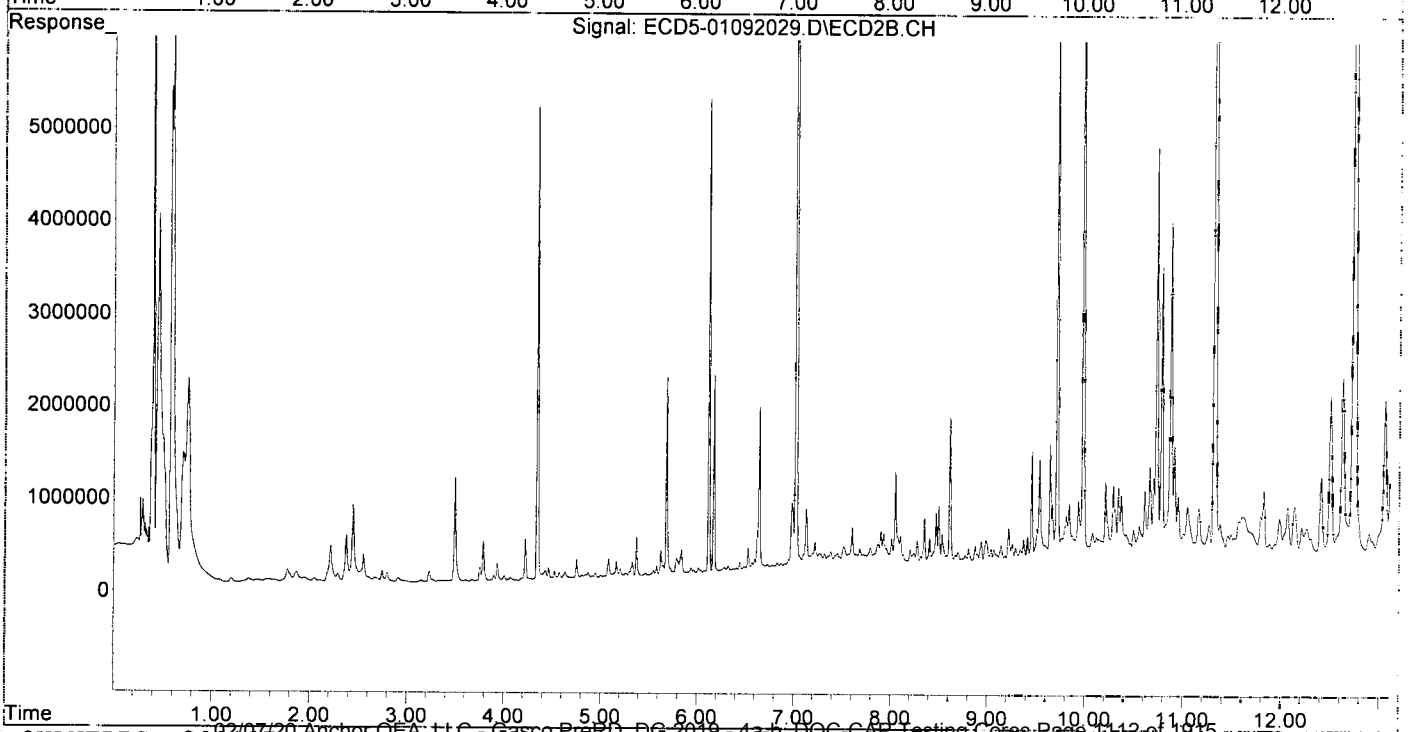
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 19:16
Operator : MJB
Sample : A9J0514-40RE2@2
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
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: Jan 10 10:56:45 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 23:02
Operator : MJB
Sample : 0A09021-CCV5
Misc : A19K133, 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: Jan 10 10:57:29 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/10/20

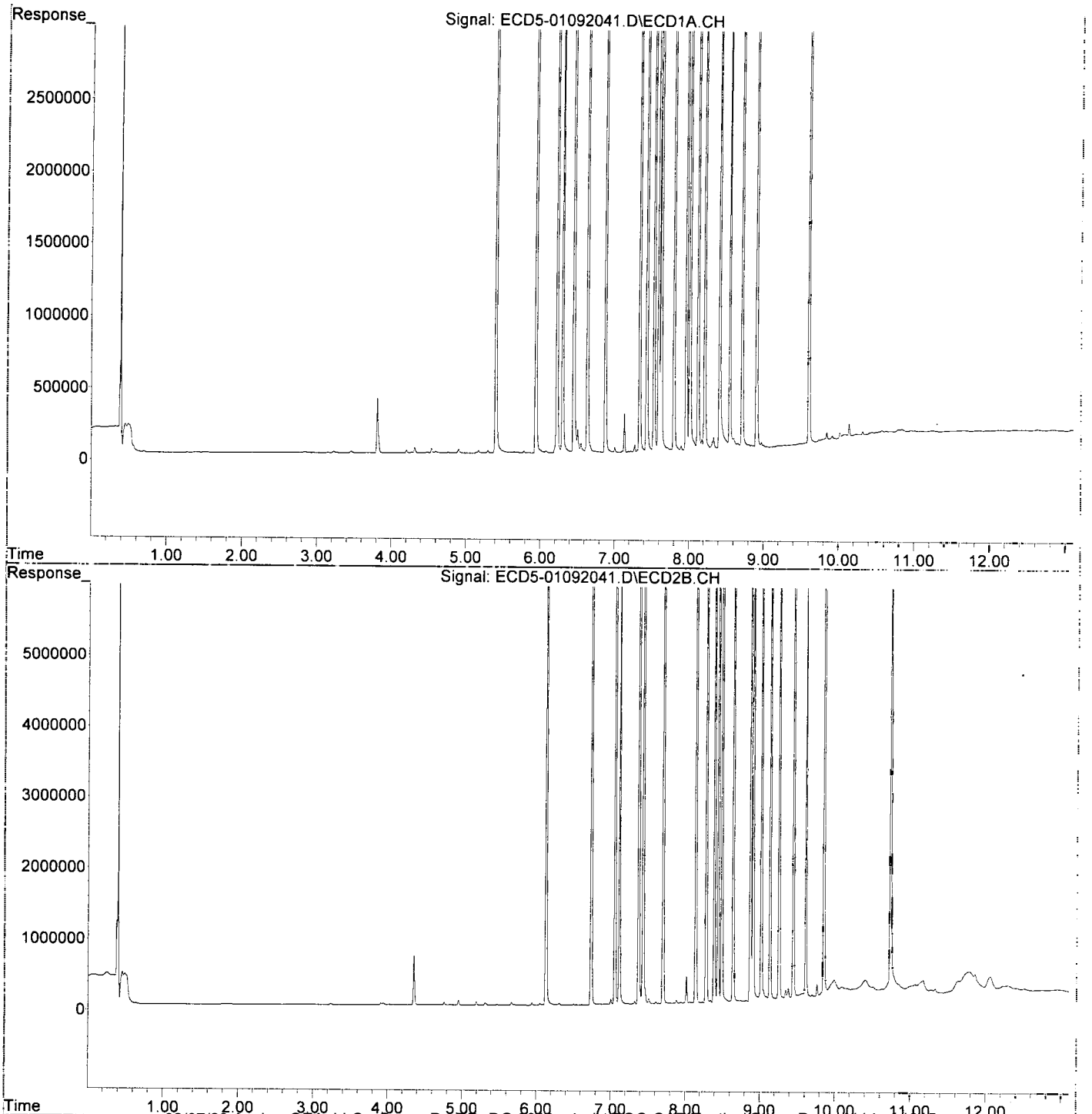
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.403	6.126	8498550	13904218	43.524	46.645	
22)	S	DCBP (S)	9.604	10.736	7092411	8530065	47.531	47.936	
		Target Compounds							
2)		a-BHC	5.941	6.734	12768881	20928515	48.521	50.680	
3)		g-BHC	6.224	7.053	11030199	18167485	47.238	49.761	
4)		b-BHC	6.300	7.114	4297942	7291027	44.000	45.326	
5)		Heptachlor	6.635	7.432	11009703	18185797	48.450	51.302	
6)		d-BHC	6.450	7.372	10157583	17729805	46.628	49.895	
7)		Aldrin	6.876	7.701	10372260	16281911	47.010	48.886	
8)		Heptachlo...	7.337	8.139	9644968	14814982	46.785	48.095	
9)		trans-Chl...	7.433	8.279	9713477	14876790	46.097	47.708	
10)		cis-Chlor...	7.530	8.387	9280354	14657639	45.352	49.411	
11)		Endosulfa...	7.627	8.439	8979900	13937641	46.335	50.156	
12)		4,4'-DDE	7.591	8.489	9587532	15591931	46.499	50.480	
13)		Dieldrin	7.798	8.641	10106303	15456508	46.924	50.032	
14)		Endrin	7.963	8.871	8760024	12852951	50.631	54.701	
15)		4,4'-DDD	8.012	8.906	8174776	12953622	47.348	52.698	
16)		Endosulfa...	8.120	9.017	7903084	12114213	46.320	49.588	
17)		4,4'-DDT	8.210	9.135	8319569	12591055	50.220	53.625	
18)		Endrin Al...	8.411	9.254	6311493	10042387	41.221	44.912	
19)		Endosulfa...	8.713	9.445	7712522	11766675	48.192	53.082	
20)		Methoxychlor	8.547	9.612	4240624	6299339	48.963	52.967	
21)		Endrin Ke...	8.907	9.851	9311797	13989874	48.761	55.863	
23)		Hexachlor...	3.225	0.000	10542	0	0.053	N.D.	#
24)		Hexachlor...	5.784	6.609	13557	10176	BelowCal	0.032	
25)		Oxychlordane	7.272	8.062	50464	13430	0.086	0.048	#
26)		2,4'-DDE	7.337	8.279	9644968	14876790	67.641	70.643	
27)		trans-Non...	7.530	8.341	9280354	36989	46.466	0.120	#
28)		2,4'-DDD	0.000	8.641	0	15456508	N.D.	83.802	#
29)		2,4'-DDT	7.895	8.871	31244	12852951	0.213	62.510	#
30)		cis-Nonac...	8.012	8.906	8174776	12953622	34.684	37.972	
31)		Mirex	8.660	9.851	32935	13989874	6722.803	74.682	#
32)		Chlordane...	7.433	8.279	9713477	14876790	414.016	382.467	
33)		Chlordane...	7.530	8.387	9280354	14657639	322.002	456.654	#
34)		Chlordane...	0.000	9.086f	0	62330	N.D.	5.870	#
35)		Chlordane...	3.810	0.000	380872	0	NoCal	N.D.	
36)		Toxaphene...	7.530	8.641f	9280354	15456508	8811.395	5715.515	
37)		Toxaphene...	7.798	0.000	10106303	0	5196.940	N.D.	#
38)		Toxaphene...	8.120	9.017	7903084	12114213	1841.923	2018.701	
39)		Toxaphene...	8.331f	9.086	81614	62330	20.201	6.906	#
40)		Toxaphene...	8.547f	9.254	4240624	10042387	1289.814	1999.698	#
41)		Toxaphene...	8.660	9.612f	32935	6299339	7.585	1122.043	#
42)		Toxaphene...	3.810	0.000	380872	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 23:02
Operator : MJB
Sample : 0A09021-CCV5
Misc : A19K133, 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: Jan 10 10:57:29 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 23:19
Operator : MJB
Sample : 0A09021-CCV6
Misc : A19J408, 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: Jan 10 10:57:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/10/20

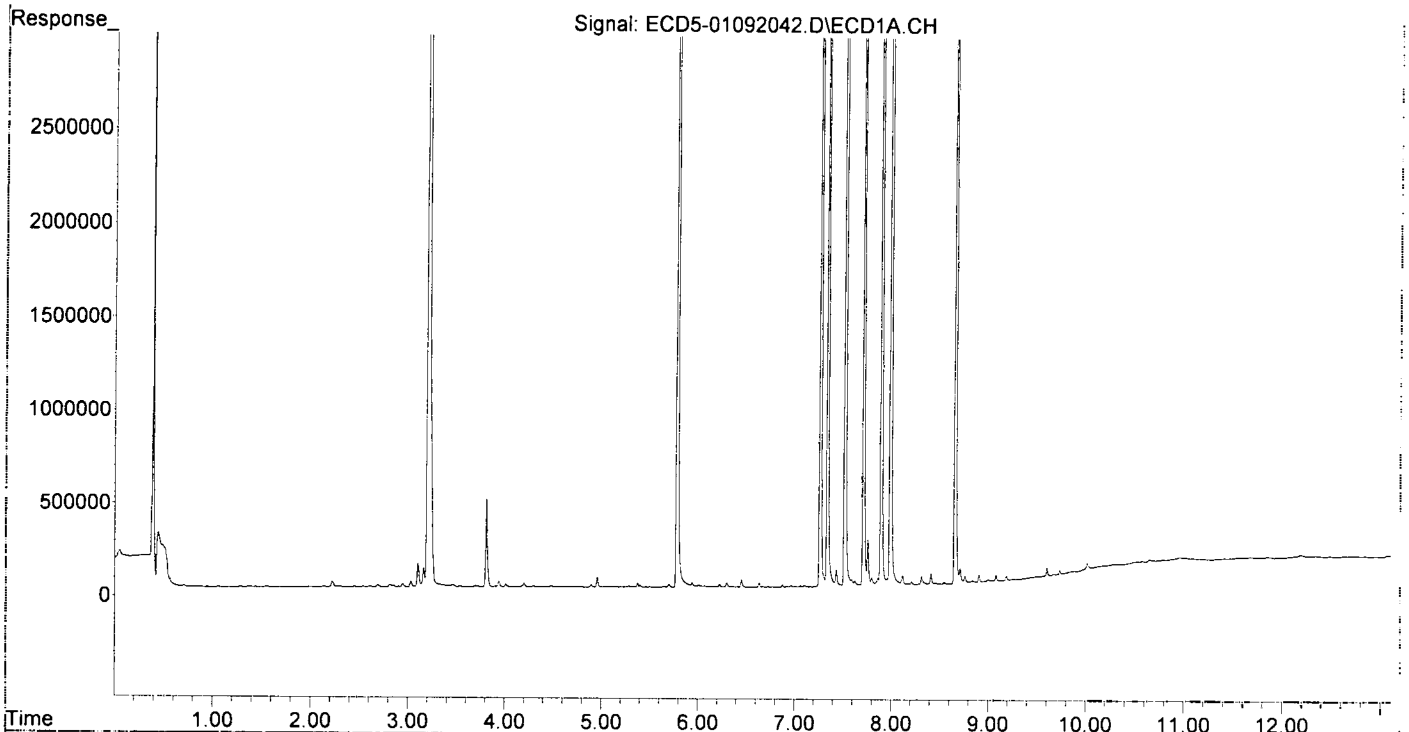
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.402	6.125	10281	24936	0.053	0.084	#
22)	S	DCBP (S)	9.605	10.737	45894	161706	0.151	0.909	#
		Target Compounds							
2)		a-BHC	5.941	6.731	23780	29405	0.090	0.071	
3)		g-BHC	6.224	7.052	15685	24709	0.067	0.068	
4)		b-BHC	6.300	7.115	21561	26899	0.052	0.167	#
5)		Heptachlor	6.636	7.431	23423	34313	0.103	0.097	
6)		d-BHC	6.453	7.372	39753	70530	0.182	0.268	#
7)		Aldrin	6.877	7.701	12658	22413	0.057	0.067	
8)		Heptachlo...	7.341	8.138	6853034	60003	33.242	0.195	#
9)		trans-Chl...	7.433	8.267	90526	11046782	0.430	35.426	#
10)		cis-Chlor...	7.522	8.385	10029741	75388	49.015	0.254	#
11)		Endosulfa...	0.000	8.440	0	32038	N.D.	0.115	#
12)		4,4'-DDE	0.000	8.487	0	21403	N.D.	0.107	#
13)		Dieldrin	0.000	8.642	0	9653262	N.D.	31.247	#
14)		Endrin	7.993f	8.869	11617965	11827803	67.149	50.338	
15)		4,4'-DDD	7.993f	8.912	11617965	17787818	67.291	72.365	
16)		Endosulfa...	8.118	9.017	47696	80317	0.280	0.329	
17)		4,4'-DDT	8.212	9.135	16029	35090	0.097	0.194	#
18)		Endrin Al...	8.412	9.254	56791	127419	0.371	0.570	#
19)		Endosulfa...	0.000	9.445	0	134338	N.D.	0.606	#
20)		Methoxychlor	8.548	9.614	8713	87394	0.101	0.735	#
21)		Endrin Ke...	8.908	9.847	39284	9899894	0.206	39.531	#
23)		Hexachlor...	3.206	3.814	9418435	19829258	47.223	49.483	
24)		Hexachlor...	5.784	6.595	9809181	16469993	50.739	51.452	
25)		Oxychlordane	7.266	8.068	9175023	14752164	52.102	52.744	
26)		2,4'-DDE	7.341	8.267	6853034	11046782	48.061	52.456	
27)		trans-Non...	7.522	8.343	10029741	16040078	50.214	52.165	
28)		2,4'-DDD	7.713	8.642	6047801	9653262	47.533	52.338	
29)		2,4'-DDT	7.897	8.869	7434522	11827803	50.756	57.957	
30)		cis-Nonac...	7.993	8.912	11617965	17787818	49.292	52.142	
31)		Mirex	8.660	9.847	6636059	9899894	49.317	53.914	
32)		Chlordane...	7.433	8.267	90526	11046782	3.858	284.001	#
33)		Chlordane...	7.522	8.385	10029741	75388	348.004	2.349	#
34)		Chlordane...	8.118f	9.050	47696	94411	6.270	8.892	#
35)		Chlordane...	3.809	3.814	470817	19829258	NoCal	NoCal	
36)		Toxaphene...	7.522	8.642f	10029741	9653262	9522.913	3569.588	#
37)		Toxaphene...	0.000	8.995f	0	60509	N.D.	17.375	#
38)		Toxaphene...	8.118	8.995	47696	60509	7.253	7.861	
39)		Toxaphene...	0.000	9.050f	0	94411	N.D.	10.460	#
40)		Toxaphene...	8.548f	9.254	8713	127419	2.650	25.372	#
41)		Toxaphene...	8.660	9.614f	6636059	87394	1528.215	15.567	#
42)		Toxaphene...	3.809	3.814	470817	19829258	NoCal	NoCal	

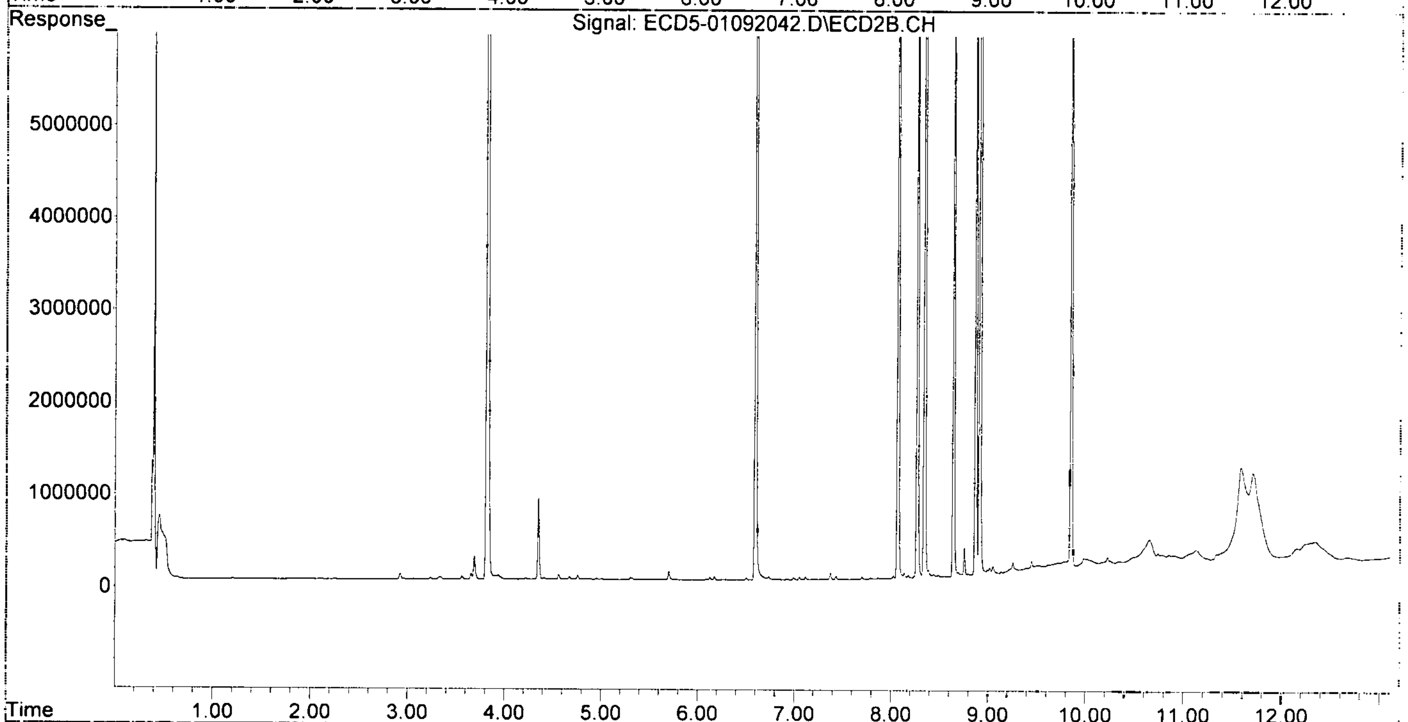
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

```
Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092042.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 09 Jan 2020  23:19
Operator  : MJB
Sample    : 0A09021-CCV6
Misc      : A19J408, 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: Jan 10 10:57:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title  : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation    6890 Scale Mode: Small noise peaks clipped
```





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 23:36
Operator : MJB
Sample : 0A09021-CCB3
Misc : A19L339
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: Jan 10 10:57:43 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/10/20

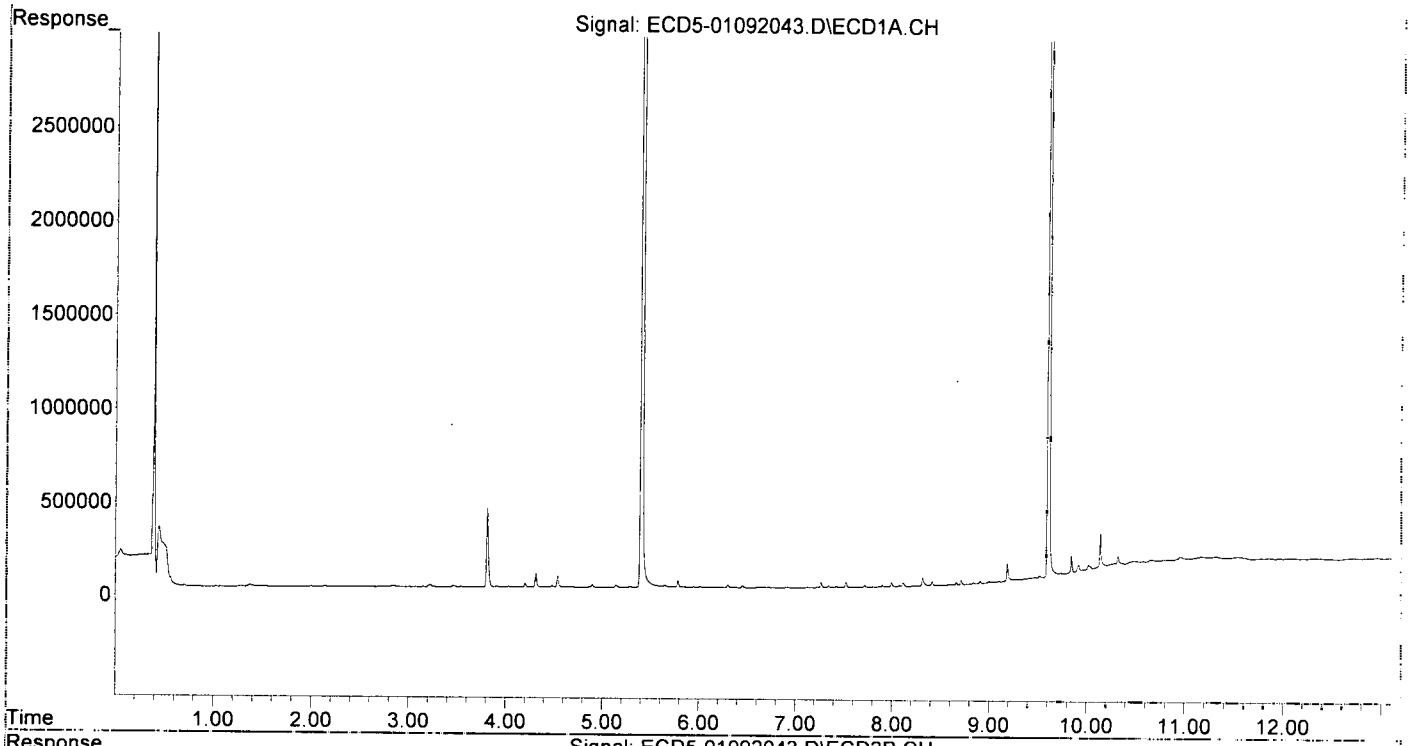
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.403	6.126	18066359	31602991	92.524	106.021	
22)	S	DCBP (S)	9.606	10.738	14811104	18494633	100.079	103.933	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.300	7.116	14142	3689	5931.858	0.023	#
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	6.454	7.373	9381	17048	0.043	0.108	#
7)		Aldrin	0.000	7.704	0	7158	N.D.	0.021	#
8)		Heptachlo...	7.343	0.000	11139	0	0.054	N.D.	#
9)		trans-Chl...	7.421	8.286	5594	22030	0.027	0.071	#
10)		cis-Chlor...	7.523	0.000	26995	0	0.132	N.D.	#
11)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)		4,4'-DDE	7.572f	0.000	1798	0	0.009	N.D.	#
13)		Dieldrin	7.802	8.641	2185	29142	0.010	0.094	#
14)		Endrin	7.995f	8.870	22764	67320	0.132	0.287	#
15)		4,4'-DDD	7.995	8.912	22764	82096	0.132	0.334	#
16)		Endosulfa...	8.114	9.020	18653	78019	0.109	0.319	#
17)		4,4'-DDT	8.216	9.158f	691	152076	0.004	0.741	#
18)		Endrin Al...	8.414	9.253	22058	33971	0.144	0.152	
19)		Endosulfa...	8.715	9.444	22738	39404	0.142	0.178	
20)		Methoxychlor	8.549	0.000	1308	0	0.015	N.D.	#
21)		Endrin Ke...	8.909	9.850	11538	42741	0.060	0.171	#
23)		Hexachlor...	3.224	3.814	12901	19284	0.065	0.048	
24)		Hexachlor...	5.784	6.596	36221	26227	0.032	0.082	#
25)		Oxychlordane	7.267	8.069	29310	22993	BelowCal	0.082	
26)		2,4'-DDE	7.343	8.286	11139	22030	0.078	0.105	
27)		trans-Non...	7.523	8.344	26995	30629	BelowCal	0.100	
28)		2,4'-DDD	7.716	8.641	11046	29142	0.087	0.158	#
29)		2,4'-DDT	7.898	8.870	10787	67320	0.074	0.262	#
30)		cis-Nonac...	7.995	8.912	22764	82096	0.097	0.241	#
31)		Mirex	8.663	9.850	13064	42741	6722.951	BelowCal	#
32)		Chlordane...	7.421	8.286	5594	22030	0.238	0.566	#
33)		Chlordane...	7.523	0.000	26995	0	0.937	N.D.	#
34)		Chlordane...	8.074	9.051	6509	133404	0.856	12.564	#
35)		Chlordane...	3.810	3.814	423480	19284	NoCal	NoCal	
36)		Toxaphene...	7.523	8.641f	26995	29142	25.631	10.776	#
37)		Toxaphene...	7.802	8.996f	2185	79093	1.124	22.711	#
38)		Toxaphene...	8.114	8.996	18653	79093	0.303	11.489	#
39)		Toxaphene...	0.000	9.051f	0	133404	N.D.	14.780	#
40)		Toxaphene...	8.590	9.253	1353	33971	0.411	6.764	#
41)		Toxaphene...	8.663	0.000	13064	0	3.009	N.D.	#
42)		Toxaphene...	3.810	3.814	423480	19284	NoCal	NoCal	

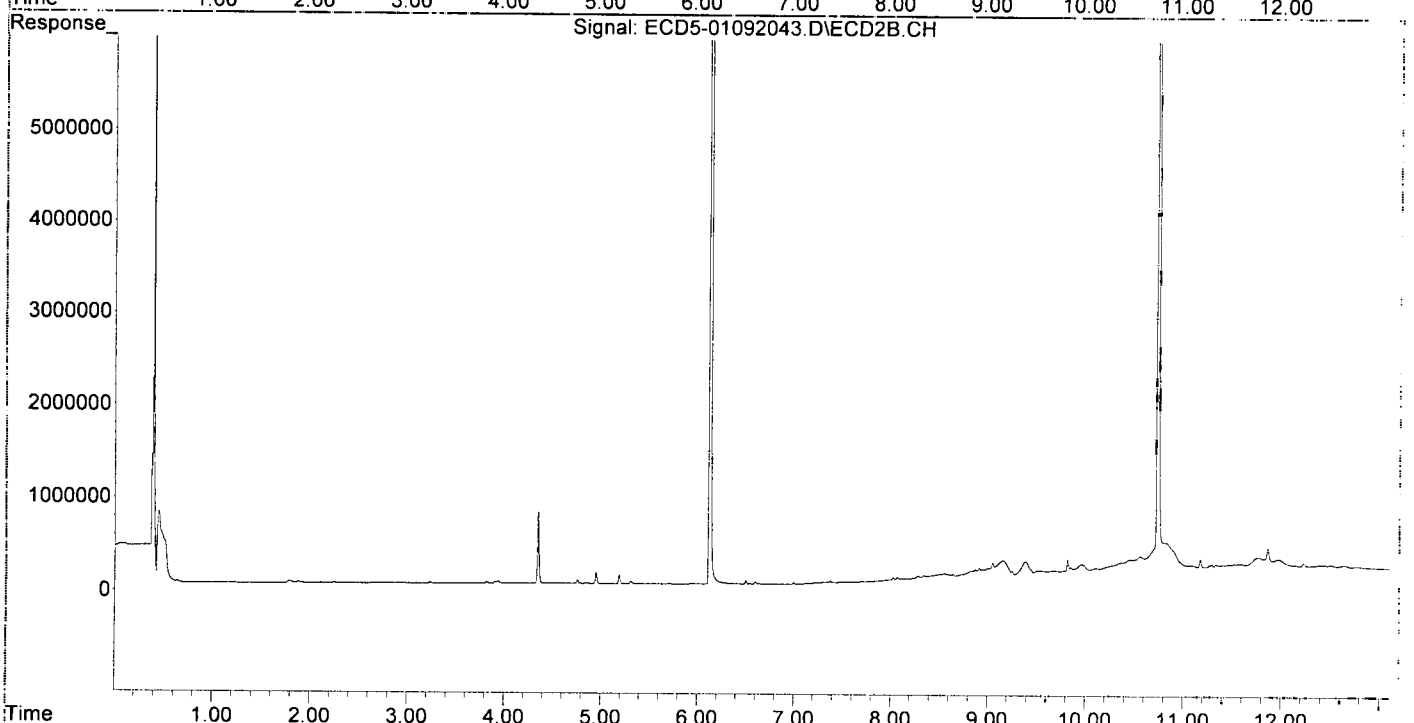
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A09021\
Data File : ECD5-01092043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 23:36
Operator : MJB
Sample : 0A09021-CCB3
Misc : A19L339
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: Jan 10 10:57:43 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 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 9H23034 (Cal ID A9H2608) DualECD5

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**9H23034**	Instrument:	**DUALECD5**
Date:	**08/23/19 11:23**	Calibration:	**A9H2608**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9H23034-BKD1	Water	QC	QC				A19G138
2	9H23034-BKD2	Water	QC	QC				A19G138
3	9H23034-ICB1	Water	QC	QC				A19H348
4	9H23034-CAL1	Water	QC	QC				A19E245
5	9H23034-CAL2	Water	QC	QC				A19E246
6	9H23034-CAL3	Water	QC	QC				A19E247
7	9H23034-CAL4	Water	QC	QC				A19E249
8	9H23034-CAL5	Water	QC	QC				A19E250
9	9H23034-CAL6	Water	QC	QC				A19H383
10	9H23034-CAL7	Water	QC	QC				A19H384
11	9H23034-CAL8	Water	QC	QC				A19E244
12	9H23034-IBL1	Water	QC	QC				
13	9H23034-ICV1	Water	QC	QC				A19E106
14	9H23034-CAL9	Water	QC	QC				A19E272
15	9H23034-CALA	Water	QC	QC				A19E273
16	9H23034-CALB	Water	QC	QC				A19E274
17	9H23034-CALC	Water	QC	QC				A19E275
18	9H23034-CALD	Water	QC	QC				A19E276
19	9H23034-CALE	Water	QC	QC				A19E154
20	9H23034-CALF	Water	QC	QC				A19E155
21	9H23034-CALG	Water	QC	QC				A19E271
22	9H23034-IBL2	Water	QC	QC				
23	9H23034-ICV2	Water	QC	QC				A19E043
24	9H23034-CALH	Water	QC	QC				A19F232
25	9H23034-CALI	Water	QC	QC				A19F233
26	9H23034-CALJ	Water	QC	QC				A19F234
27	9H23034-CALK	Water	QC	QC				A19F235
28	9H23034-CALL	Water	QC	QC				A19F236
29	9H23034-CALM	Water	QC	QC				A19F231
30	9H23034-IBL3	Water	QC	QC				
31	9H23034-ICV3	Water	QC	QC				A19E108
32	9H23034-CALN	Water	QC	QC				A19D122
33	9H23034-CALO	Water	QC	QC				A19D123
34	9H23034-CALP	Water	QC	QC				A19D124
35	9H23034-CALQ	Water	QC	QC				A19D125
36	9H23034-CALR	Water	QC	QC				A19D126
37	9H23034-CALS	Water	QC	QC				A19D121
38	9H23034-IBL4	Water	QC	QC				
39	9H23034-ICV4	Water	QC	QC				A19D127

Data Entered By: MJB 8/26/19

Comments: ICAL

Data Reviewed By: [illegible] 8/30/19

Calibration Status Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_190823.M
Title : Instrument: DualECD5
Last Update : Mon Aug 26 11:48:23 2019
Response Via : Initial Calibration

A9H2608

MJB 8/26/19

#	ID	Conc	ISTD Conc	Path\File
1	1	50	0	R:\data\2019-08\9H23034\ECD5-08231936.D
2	2	100	0	R:\data\2019-08\9H23034\ECD5-08231937.D
3	3	200	0	R:\data\2019-08\9H23034\ECD5-08231938.D
4	4	500	0	R:\data\2019-08\9H23034\ECD5-08231939.D
5	5	1000	0	R:\data\2019-08\9H23034\ECD5-08231940.D
6	6	2000	0	R:\data\2019-08\9H23034\ECD5-08231941.D
7	7	-1	0	R:\data\2019-08\9H23034\ECD5-08231924.D
8	8	-1	0	R:\data\2019-08\9H23034\ECD5-08231925.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Aug 26 11:47 2019	Aug 26 11:37 2019	23 Aug 2019 21:54
2	2	Aug 26 11:47 2019	Aug 26 11:38 2019	23 Aug 2019 22:11
3	3	Aug 26 11:48 2019	Aug 26 11:39 2019	23 Aug 2019 22:28
4	4	Aug 26 11:48 2019	Aug 26 11:36 2019	23 Aug 2019 22:45
5	5	Aug 26 11:48 2019	Aug 26 11:40 2019	23 Aug 2019 23:03
6	6	Aug 26 11:48 2019	Aug 26 11:40 2019	23 Aug 2019 23:20
7	7	Aug 26 11:46 2019	Aug 26 11:26 2019	23 Aug 2019 18:27
8	8	Aug 26 11:46 2019	Aug 26 11:27 2019	23 Aug 2019 18:45

ECD5_QUANTPEST_190823.M Mon Aug 26 16:04:23 2019

Response Factor Report DUALECD5

Method Path : C:\msdchem\4\methods\
Method File : ECD5_QUANTPEST_190823.M
Title : Instrument: DualECD5
Last Update : Mon Aug 26 11:48:23 2019
Response Via : Initial Calibration

Calibration Files
1 =ECD5-08231936.D 2 =ECD5-08231937.D 3 =ECD5-08231938.D 4 =ECD5-08231939.D 5 =ECD5-08231940.D
6 =ECD5-08231941.D 7 =ECD5-08231924.D 8 =ECD5-08231925.D

		Compound	1	2	3	4	5	6	7	8	Avg		%RSD
1)	S	TCMX (S)	1.767	1.750	1.668	1.644	1.606	1.614	1.585	1.642	1.660	E5	4.00
2)		a-BHC	2.320	2.292	2.296	2.347	2.221	2.274	2.236	2.360	2.293	E5	2.14
3)		g-BHC	2.074	2.030	2.041	2.035	1.950	1.957	1.960	2.094	2.018	E5	2.76
4)		b-BHC	1.043	0.971	0.914	0.911	0.824	0.820	0.836	0.912	0.904	E5	8.59
5)		Heptachlor	1.921	1.848	1.798	1.820	1.726	1.747	1.755	1.889	1.813	E5	3.86
6)		d-BHC	1.998	1.935	2.008	2.006	1.867	1.922	1.948	2.051	1.967	E5	3.02
7)		Aldrin	2.055	1.998	2.025	2.011	1.938	1.866	1.911	1.992	1.974	E5	3.23
8)		Heptachlor Exp...	2.005	1.960	1.847	1.865	1.738	1.774	1.732	1.813	1.842	E5	5.42
9)		trans-Chlordane	1.972	1.911	1.853	1.848	1.761	1.792	1.773	1.881	1.849	E5	3.93
10)		cis-Chlordane	2.098	1.950	1.818	1.843	1.698	1.725	1.674	1.760	1.821	E5	7.86
11)		Endosulfan I	1.852	1.787	1.723	1.709	1.645	1.597	1.609	1.693	1.702	E5	5.13
12)		4,4'-DDE	1.934	1.943	1.907	1.891	1.828	1.835	1.805	1.938	1.885	E5	2.92
13)		Dieldrin	1.977	1.979	1.944	1.955	1.833	1.877	1.832	1.961	1.920	E5	3.25
14)		Endrin	1.564	1.493	1.478	1.476	1.404	1.396	1.381	1.571	1.470	E5	4.98
15)		4,4'-DDD	1.650	1.573	1.581	1.566	1.491	1.545	1.544	1.622	1.571	E5	3.11
16)		Endosulfan II	1.581	1.496	1.419	1.448	1.349	1.368	1.354	1.474	1.436	E5	5.61
17)		4,4'-DDT	1.139	1.091	1.106	1.147	1.170	1.241	1.218	1.454	1.196	E5	9.72
18)		Endrin Aldehyde	2.413	1.641	1.367	1.375	1.248	1.245	1.236	1.331	1.482	E5	26.87
19)		Endosulfan Sul...	1.761	1.611	1.538	1.554	1.458	1.484	1.437	1.556	1.550	E5	6.64
20)		Methoxychlor	5.966	5.573	5.408	5.617	5.561	5.721	5.877	7.136	5.857	E4	9.33
21)		Endrin Ketone	1.776	1.656	1.623	1.664	1.604	1.638	1.625	1.755	1.668	E5	3.80
22)	S	DCBP (S)	1.639	1.550	1.402	1.335	1.337	1.336	1.341	1.349	1.411	E5	8.33
23)		Hexachlorobuta...	1.982	1.879	1.918	1.838	1.746	1.752	1.795	1.708	1.827	E5	5.17
24)		Hexachlorobenzene	1.947	1.810	1.708	1.712	1.674	1.782	1.767	1.704	1.763	E5	4.96
25)		Oxychlordane	1.768	1.697	1.639	1.592	1.553	1.677	1.636	1.602	1.645	E5	4.13
26)		2,4'-DDE	1.379	1.326	1.266	1.245	1.224	1.302	1.277	1.241	1.283	E5	4.01
27)		trans-Nonachlor	2.368	2.076	1.866	1.818	1.756	1.916	1.835	1.751	1.923	E5	10.78
28)		2,4'-DDD	1.202	1.165	1.122	1.104	1.098	1.184	1.159	1.096	1.141	E5	3.65
29)		2,4'-DDT	1.071	1.021	1.074	1.052	1.092	1.137	1.177	1.151	1.097	E5	4.88
30)		cis-Nonachlor	2.192	2.117	2.052	2.032	1.997	2.123	2.093	2.002	2.076	E5	3.25
31)		Mirex	1.474	1.334	1.257	1.196	1.164	1.244	1.196	1.164	1.254	E5	8.39
32)		Chlordane (1)	2.018	1.979	1.925	1.926	1.964	2.002			1.969	E4	1.96
33)		Chlordane (2)	2.573	2.520	2.453	2.435	2.508	2.549			2.506	E4	2.14
34)		Chlordane (3)	5.762	5.482	5.508	5.843	5.988	6.104			5.781	E3	4.34
35)		Chlordane - AVE									0.000		-1.00
36)		Toxaphene (1)	9.850	9.158	8.802	8.837	8.719	8.373			8.956	E2	5.64
37)		Toxaphene (2)	1.766	1.661	1.588	1.639	1.556	1.479			1.615	E3	6.08
38)		Toxaphene (3)	3.388	3.328	3.222	3.355	3.496	3.416			3.367	E3	2.72
39)		Toxaphene (4)	3.286	3.203	3.162	3.299	3.287	3.204			3.240	E3	1.78
40)		Toxaphene (5)	2.294	2.290	2.272	2.443	2.546	2.537			2.397	E3	5.33
41)		Toxaphene (6)	3.063	3.026	2.990	3.247	3.407	3.255			3.165	E3	5.17
42)		Toxaphene - AVE									0.000		-1.00

MJB 8/26/19

Method Path : C:\msdchem\4\methods\
Method File : ECD5_QUANTPEST_190823.M
Title : Instrument: DualECD5

Signal #2 Calibration Files
1 =ECD5-08231936.D 2 =ECD5-08231937.D 3 =ECD5-08231938.D
4 =ECD5-08231939.D 5 =ECD5-08231940.D 6 =ECD5-08231941.D

		Compound	1	2	3	4	5	6	Avg		%RSD
44)	S	TCMX (S) #2	3.001	3.004	2.876	2.866	2.829	2.839	2.926	3.129 2.934 E5	3.54
45)		a-BHC #2	3.931	3.923	3.971	4.096	3.964	4.053	4.170	4.719 4.103 E5	6.41
46)		g-BHC #2	3.523	3.455	3.485	3.477	3.403	3.476	3.679	4.038 3.567 E5	5.79
47)		b-BHC #2	1.763	1.676	1.577	1.581	1.471	1.503	1.463	1.628 1.583 E5	6.60
48)		Heptachlor #2	3.098	2.934	3.016	3.006	2.913	2.919	3.028	3.564 3.060 E5	6.98
49)		d-BHC #2	3.491	3.346	3.435	3.614	3.299	3.462	3.518	4.049 3.527 E5	6.60
50)		Aldrin #2	3.175	3.177	3.202	3.341	3.151	3.253	3.391	3.661 3.294 E5	5.19
51)		Heptachlor Exp...	3.101	3.031	2.912	2.959	2.826	2.968	3.005	3.267 3.008 E5	4.40
52)		trans-Chlordan...	3.641	3.222	3.004	3.003	2.863	2.936	3.074	3.322 3.133 E5	8.10
53)		cis-Chlordane #2	2.994	2.898	2.870	2.860	2.774	2.800	2.904	3.199 2.912 E5	4.59
54)		Endosulfan I #2	2.789	2.702	2.654	2.724	2.629	2.742	2.721	3.052 2.752 E5	4.77
55)		4,4'-DDE #2	2.985	2.990	2.976	3.050	3.000	3.111	3.250	3.492 3.107 E5	5.82
56)		Dieldrin #2	2.967	2.919	2.925	2.899	2.934	3.087	3.100	3.502 3.042 E5	6.61
57)		Endrin #2	2.229	2.124	2.186	2.244	2.130	2.203	2.310	2.639 2.258 E5	7.32
58)		4,4'-DDD #2	2.515	2.441	2.417	2.425	2.459	2.632	2.630	2.978 2.562 E5	7.37
59)		Endosulfan II #2	2.322	2.311	2.193	2.244	2.179	2.307	2.302	2.592 2.306 E5	5.55
60)		4,4'-DDT #2	1.797	1.709	1.747	1.841	1.792	1.857	1.979	2.410 1.892 E5	11.88
61)		Endrin Aldehyd...	3.486	2.388	2.092	2.125	1.939	2.042	2.050	2.254 2.297 E5	21.77
62)		Endosulfan Sul...	2.658	2.494	2.352	2.425	2.392	2.430	2.448	2.730 2.491 E5	5.35
63)		Methoxychlor #2	0.952	0.890	0.828	0.883	0.867	0.869	0.944	1.186 0.927 E5	12.09
64)		Endrin Ketone #2	2.558	2.466	2.410	2.497	2.357	2.591	2.664	3.043 2.573 E5	8.31
65)	S	DCBP (S) #2	1.916	1.950	1.742	1.679	1.665	1.746	1.778	1.905 1.798 E5	6.18
66)		Hexachlorobuta...	3.832	3.773	3.755	3.702	3.557	3.727	3.930	3.799 3.759 E5	2.87
67)		Hexachlorobenz...	3.280	3.164	2.971	2.936	2.967	3.219	3.277	3.313 3.141 E5	5.04
68)		Oxychlordane #2	2.791	2.705	2.651	2.539	2.481	2.835	2.973	2.937 2.739 E5	6.49
69)		2,4'-DDE #2	2.192	2.059	2.059	2.018	2.000	2.201	2.216	2.225 2.121 E5	4.52
70)		trans-Nonachlo...	3.062	2.939	2.935	2.844	2.837	3.162	3.198	3.154 3.016 E5	4.84
71)		2,4'-DDD #2	1.920	1.868	1.797	1.779	1.756	1.985	2.012	1.992 1.889 E5	5.47
72)		2,4'-DDT #2	1.733	1.661	1.746	1.703	1.762	1.762	1.900	2.000 1.783 E5	6.24
73)		cis-Nonachlor #2	3.327	3.124	3.174	3.148	3.288	3.544	3.607	3.623 3.354 E5	6.23
74)		Mirex #2	2.098	1.941	1.791	1.723	1.655	1.820	1.936	1.921 1.861 E5	7.59
75)		Chlordane (1) #2	3.509	3.378	3.376	3.566	3.797	4.085		3.618 E4	7.62
76)		Chlordane (2) #2	2.945	2.906	2.942	2.962	3.149	3.314		3.036 E4	5.30
77)		Chlordane (3) #2	8.780	8.745	8.659	8.543	9.359	9.709		8.966 E3	5.14
78)		Chlordane - AV...								0.000	-1.00
79)		Toxaphene (1) #2	2.737	2.675	2.545	2.618	2.655	2.515		2.624 E3	3.16
80)		Toxaphene (2) #2	3.294	3.241	3.227	3.295	3.384	3.305		3.291 E3	1.70
81)		Toxaphene (3) #2	5.097	4.944	4.978	4.950	5.168	5.273		5.068 E3	2.65
82)		Toxaphene (4) #2	8.327	8.119	7.902	8.505	8.650	8.595		8.350 E3	3.51
83)		Toxaphene (5) #2	4.664	4.522	4.477	4.681	4.900	4.718		4.660 E3	3.24
84)		Toxaphene (6) #2	4.618	4.525	4.526	4.740	5.047	5.045		4.750 E3	5.10
85)		Toxaphene - AV...								0.000	-1.00

(#) = Out of Range

MJB 8/26/19

Compound List Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_190823.M
Title : Instrument: DualECD5
Last Update : Mon Aug 26 11:48:23 2019
Response Via : Initial Calibration

Total Cpnds : 85

MWB 8/26/19

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	5.394	1.000	A	H	R
2		a-BHC	5.934	1.000	A	H	R
3		g-BHC	6.218	1.000	A	H	R
4		b-BHC	6.296	1.000	A	H	R
5		Heptachlor	6.632	1.000	A	H	R
6		d-BHC	6.446	1.000	A	H	R
7		Aldrin	6.873	1.000	A	H	R
8		Heptachlor Expoxide	7.332	1.000	A	H	R
9		trans-Chlordane	7.428	1.000	A	H	R
10		cis-Chlordane	7.524	1.000	A	H	R
11		Endosulfan I	7.621	1.000	A	H	R
12		4,4'-DDE	7.583	1.000	A	H	R
13		Dieldrin	7.792	1.000	A	H	R
14		Endrin	7.957	1.000	A	H	R
15		4,4'-DDD	8.003	1.000	A	H	R
16		Endosulfan II	8.114	1.000	A	H	R
17		4,4'-DDT	8.202	1.000	A	H	R
18		Endrin Aldehyde	8.403	1.000	Q	H	R
19		Endosulfan Sulfate	8.705	1.000	A	H	R
20		Methoxychlor	8.540	1.000	A	H	R
21		Endrin Ketone	8.899	1.000	A	H	R
22	S	DCBP (S)	9.592	1.000	A	H	R
23		Hexachlorobutadiene	3.198	1.000	A	H	R
24		Hexachlorobenzene	5.774	1.000	A	H	R
25		Oxychlordane	7.261	1.000	A	H	R
26		2,4'-DDE	7.333	1.000	A	H	R
27		trans-Nonachlor	7.515	1.000	Q	H	R
28		2,4'-DDD	7.705	1.000	A	H	R
29		2,4'-DDT	7.887	1.000	A	H	R
30		cis-Nonachlor	7.985	1.000	A	H	R
31		Mirex	8.652	1.000	A	H	R
32		Chlordane (1)	7.427	1.000	A	H	R
33		Chlordane (2)	7.520	1.000	A	H	R
34		Chlordane (3)	8.067	1.000	A	H	R
35		Chlordane - AVE	3.447	1.000	A	H	R
36		Toxaphene (1)	7.502	1.000	A	H	R
37		Toxaphene (2)	7.794	1.000	A	H	R
38		Toxaphene (3)	8.105	1.000	A	H	R
39		Toxaphene (4)	8.346	1.000	A	H	R
40		Toxaphene (5)	8.574	1.000	A	H	R
41		Toxaphene (6)	8.640	1.000	A	H	R
42		Toxaphene - AVE	3.450	1.000	A	H	R
43		Signal #2	3.544	1.000	A	H	R
44	S	TCMX (S) #2	5.988	1.000	A	H	R
45		a-BHC #2	6.595	1.000	A	H	R
46		g-BHC #2	6.914	1.000	A	H	R
47		b-BHC #2	6.978	1.000	A	H	R
48		Heptachlor #2	7.290	1.000	A	H	R
49		d-BHC #2	7.231	1.000	A	H	R
50		Aldrin #2	7.555	1.000	A	H	R
51		Heptachlor Expoxide #2	7.992	1.000	A	H	R
52		trans-Chlordane #2	8.131	1.000	A	H	R
53		cis-Chlordane #2	8.238	1.000	A	H	R
54		Endosulfan I #2	8.289	1.000	A	H	R
55		4,4'-DDE #2	8.343	1.000	A	H	R
56		Dieldrin #2	8.489	1.000	A	H	R

57		Endrin #2	8.715	1.000	A	H	R
58		4,4'-DDD #2	8.758	1.000	A	H	R
59		Endosulfan II #2	8.863	1.000	A	H	R
60		4,4'-DDT #2	8.984	1.000	Q	H	R
61		Endrin Aldehyde #2	9.099	1.000	Q	H	R
62		Endosulfan Sulfate #2	9.289	1.000	A	H	R
63		Methoxychlor #2	9.463	1.000	Q	H	R
64		Endrin Ketone #2	9.687	1.000	A	H	R
65	S	DCBP (S) #2	10.541	1.000	A	H	R
66		Hexachlorobutadiene #2	3.688	1.000	A	H	R
67		Hexachlorobenzene #2	6.454	1.000	A	H	R
68		Oxychlordane #2	7.920	1.000	A	H	R
69		2,4'-DDE #2	8.122	1.000	A	H	R
70		trans-Nonachlor #2	8.194	1.000	A	H	R
71		2,4'-DDD #2	8.495	1.000	A	H	R
72		2,4'-DDT #2	8.718	1.000	A	H	R
73		cis-Nonachlor #2	8.758	1.000	A	H	R
74		Mirex #2	9.679	1.000	A	H	R
75		Chlordane (1) #2	8.129	1.000	A	H	R
76		Chlordane (2) #2	8.236	1.000	A	H	R
77		Chlordane (3) #2	8.896	1.000	A	H	R
78		Chlordane - AVE #2	3.428	1.000	A	H	R
79		Toxaphene (1) #2	8.466	1.000	A	H	R
80		Toxaphene (2) #2	8.812	1.000	A	H	R
81		Toxaphene (3) #2	8.848	1.000	A	H	R
82		Toxaphene (4) #2	8.915	1.000	A	H	R
83		Toxaphene (5) #2	9.091	1.000	A	H	R
84		Toxaphene (6) #2	9.470	1.000	A	H	R
85		Toxaphene - AVE #2	3.434	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

ECD5_QUANTPEST_190823.M Mon Aug 26 16:04:34 2019

Calibration Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_190823.M
Title : Instrument: DualECD5
Last Update : Mon Aug 26 11:48:23 2019
Response Via : Initial Calibration

Calibration Files
1 =ECD5-08231936 2 =ECD5-08231937 3 =ECD5-08231938 4 =ECD5-08231939 5 =ECD5-08

6 =ECD5-08231941 7 =ECD5-08231924 8 =ECD5-08231925

MJB 5/26/19

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Avg	-----	1.6598 e5	-----	0.0400
2)		a-BHC	Avg	-----	2.2933 e5	-----	0.0214
3)		g-BHC	Avg	-----	2.0178 e5	-----	0.0276
4)		b-BHC	Avg	-----	9.0384 e4	-----	0.0859
5)		Heptachlor	Avg	-----	1.8130 e5	-----	0.0386
6)		d-BHC	Avg	-----	1.9669 e5	-----	0.0302
7)		Aldrin	Avg	-----	1.9745 e5	-----	0.0323
8)		Heptachlor Expoxide	Avg	-----	1.8418 e5	-----	0.0542
9)		trans-Chlordane	Avg	-----	1.8489 e5	-----	0.0393
10)		cis-Chlordane	Avg	-----	1.8207 e5	-----	0.0786
11)		Endosulfan I	Avg	-----	1.7018 e5	-----	0.0513
12)		4,4'-DDE	Avg	-----	1.8853 e5	-----	0.0292
13)		Dieldrin	Avg	-----	1.9198 e5	-----	0.0325
14)		Endrin	Avg	-----	1.4703 e5	-----	0.0498
15)		4,4'-DDD	Avg	-----	1.5714 e5	-----	0.0311
16)		Endosulfan II	Avg	-----	1.4361 e5	-----	0.0561
17)		4,4'-DDT	Avg	-----	1.1956 e5	-----	0.0972
18)		Endrin Aldehyde	Quad	1.1904 e5	1.1635 e5	8.0472 e1	0.9966
19)		Endosulfan Sulfate	Avg	-----	1.5498 e5	-----	0.0664
20)		Methoxychlor	Avg	-----	5.8574 e4	-----	0.0933
21)		Endrin Ketone	Avg	-----	1.6676 e5	-----	0.0380
22)	S	DCBP (S)	Avg	-----	1.4110 e5	-----	0.0833
23)		Hexachlorobutadiene	Avg	-----	1.8274 e5	-----	0.0517
24)		Hexachlorobenzene	Avg	-----	1.7629 e5	-----	0.0496
25)		Oxychlordane	Avg	-----	1.6454 e5	-----	0.0413
26)		2,4'-DDE	Avg	-----	1.2826 e5	-----	0.0401
27)		trans-Nonachlor	Quad	5.6661 e4	1.7916 e5	-2.0512	0.9987
28)		2,4'-DDD	Avg	-----	1.1413 e5	-----	0.0365
29)		2,4'-DDT	Avg	-----	1.0969 e5	-----	0.0488
30)		cis-Nonachlor	Avg	-----	2.0762 e5	-----	0.0325
31)		Mirex	Avg	-----	1.2537 e5	-----	0.0839
32)		Chlordane (1)	Avg	-----	1.9690 e4	-----	0.0196
33)		Chlordane (2)	Avg	-----	2.5064 e4	-----	0.0214
34)		Chlordane (3)	Avg	-----	5.7811 e3	-----	0.0434
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----	8.9565 e2	-----	0.0564
37)		Toxaphene (2)	Avg	-----	1.6149 e3	-----	0.0608
38)		Toxaphene (3)	Avg	-----	3.3675 e3	-----	0.0272
39)		Toxaphene (4)	Avg	-----	3.2402 e3	-----	0.0178
40)		Toxaphene (5)	Avg	-----	2.3971 e3	-----	0.0533
41)		Toxaphene (6)	Avg	-----	3.1646 e3	-----	0.0517
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

Signal #2

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Avg	-----	2.9337 e5	-----	0.0354
2)		a-BHC	Avg	-----	4.1034 e5	-----	0.0641
3)		g-BHC	Avg	-----	3.5670 e5	-----	0.0579
4)		b-BHC	Avg	-----	1.5827 e5	-----	0.0660
5)		Heptachlor	Avg	-----	3.0598 e5	-----	0.0698
6)		d-BHC	Avg	-----	3.5267 e5	-----	0.0660
7)		Aldrin	Avg	-----	3.2939 e5	-----	0.0519

8)		Heptachlor Expoxide	Avg	-----	3.0085 e5	-----	0.0440
9)		trans-Chlordane	Avg	-----	3.1333 e5	-----	0.0810
10)		cis-Chlordane	Avg	-----	2.9125 e5	-----	0.0459
11)		Endosulfan I	Avg	-----	2.7518 e5	-----	0.0477
12)		4,4'-DDE	Avg	-----	3.1068 e5	-----	0.0582
13)		Dieldrin	Avg	-----	3.0415 e5	-----	0.0661
14)		Endrin	Avg	-----	2.2583 e5	-----	0.0732
15)		4,4'-DDD	Avg	-----	2.5621 e5	-----	0.0737
16)		Endosulfan II	Avg	-----	2.3061 e5	-----	0.0555
17)		4,4'-DDT	Quad	6.5669 e3	1.7140 e5	3.3014 e2	0.9992
18)		Endrin Aldehyde	Quad	1.5509 e5	1.8265 e5	2.1823 e2	0.9961
19)		Endosulfan Sulfate	Avg	-----	2.4909 e5	-----	0.0535
20)		Methoxychlor	Quad	1.4992 e4	8.0453 e4	1.7846 e2	0.9988
21)		Endrin Ketone	Avg	-----	2.5732 e5	-----	0.0831
22)	S	DCBP (S)	Avg	-----	1.7976 e5	-----	0.0618
23)		Hexachlorobutadiene	Avg	-----	3.7593 e5	-----	0.0287
24)		Hexachlorobenzene	Avg	-----	3.1409 e5	-----	0.0504
25)		Oxychlordane	Avg	-----	2.7390 e5	-----	0.0649
26)		2,4'-DDE	Avg	-----	2.1214 e5	-----	0.0452
27)		trans-Nonachlor	Avg	-----	3.0164 e5	-----	0.0484
28)		2,4'-DDD	Avg	-----	1.8886 e5	-----	0.0547
29)		2,4'-DDT	Avg	-----	1.7834 e5	-----	0.0624
30)		cis-Nonachlor	Avg	-----	3.3545 e5	-----	0.0623
31)		Mirex	Avg	-----	1.8607 e5	-----	0.0759
32)		Chlordane (1)	Avg	-----	3.6185 e4	-----	0.0762
33)		Chlordane (2)	Avg	-----	3.0364 e4	-----	0.0530
34)		Chlordane (3)	Avg	-----	8.9659 e3	-----	0.0514
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----	2.6243 e3	-----	0.0316
37)		Toxaphene (2)	Avg	-----	3.2910 e3	-----	0.0170
38)		Toxaphene (3)	Avg	-----	5.0683 e3	-----	0.0265
39)		Toxaphene (4)	Avg	-----	8.3498 e3	-----	0.0351
40)		Toxaphene (5)	Avg	-----	4.6604 e3	-----	0.0324
41)		Toxaphene (6)	Avg	-----	4.7502 e3	-----	0.0510
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

ECD5_QUANTPEST_190823.M Mon Aug 26 16:04:42 2019

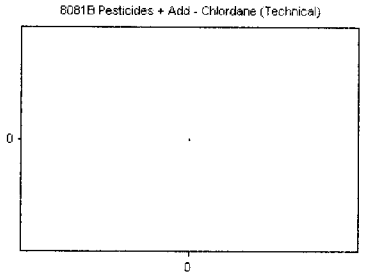
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

Chlordane (Technical)

Curve Fit: **AVERAGE RF**

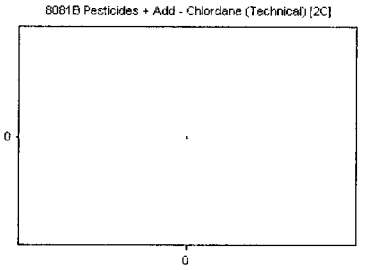


Standard	Concentration	Response	Response Factor	RT
~~9H23034-CALH~~	~~50~~	~~5365~~	~~107.300~~	~~3.45~~
~~9H23034-CALI~~	~~100~~	~~4938~~	~~49.380~~	~~3.45~~
~~9H23034-CALJ~~	~~200~~	~~4503~~	~~22.515~~	~~3.45~~
~~9H23034-CALK~~	~~500~~	~~4056~~	~~8.112~~	~~3.45~~
~~9H23034-CALL~~	~~1000~~	~~4825~~	~~4.825~~	~~3.45~~
~~9H23034-CALM~~	~~2000~~	~~4939~~	~~2.469~~	~~3.45~~

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Chlordane (Technical) [2C]

Curve Fit: **AVERAGE RF**

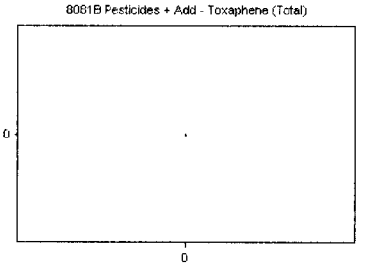


Standard	Concentration	Response	Response Factor	RT
~~9H23034-CALH~~	~~50~~	~~0~~	~~0.000~~	~~0.00~~
~~9H23034-CALI~~	~~100~~	~~0~~	~~0.000~~	~~0.00~~
~~9H23034-CALJ~~	~~200~~	~~0~~	~~0.000~~	~~0.00~~
~~9H23034-CALK~~	~~500~~	~~0~~	~~0.000~~	~~0.00~~
~~9H23034-CALL~~	~~1000~~	~~0~~	~~0.000~~	~~0.00~~
~~9H23034-CALM~~	~~2000~~	~~0~~	~~0.000~~	~~0.00~~

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Toxaphene (Total)

Curve Fit: **AVERAGE RF**

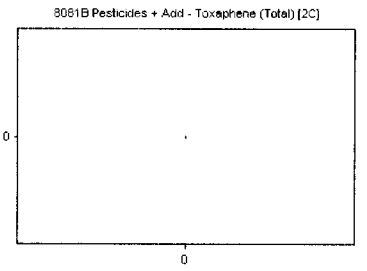


Standard	Concentration	Response	Response Factor	RT
~~9H23034-CALN~~	~~50~~	~~4023~~	~~80.460~~	~~3.45~~
~~9H23034-CALO~~	~~100~~	~~3536~~	~~35.360~~	~~3.45~~
~~9H23034-CALP~~	~~200~~	~~3919~~	~~19.595~~	~~3.45~~
~~9H23034-CALQ~~	~~500~~	~~4132~~	~~8.264~~	~~3.45~~
~~9H23034-CALR~~	~~1000~~	~~2687~~	~~2.687~~	~~3.45~~
~~9H23034-CALS~~	~~2000~~	~~4166~~	~~2.083~~	~~3.45~~

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Toxaphene (Total) [2C]

Curve Fit: **AVERAGE RF**

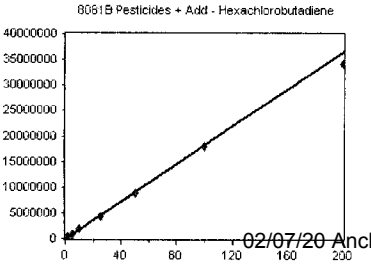


Standard	Concentration	Response	Response Factor	RT
~~9H23034-CALN~~	~~50~~	~~0~~	~~0.000~~	~~0.00~~
~~9H23034-CALO~~	~~100~~	~~0~~	~~0.000~~	~~0.00~~
~~9H23034-CALP~~	~~200~~	~~0~~	~~0.000~~	~~0.00~~
~~9H23034-CALQ~~	~~500~~	~~0~~	~~0.000~~	~~0.00~~
~~9H23034-CALR~~	~~1000~~	~~0~~	~~0.000~~	~~0.00~~
~~9H23034-CALS~~	~~2000~~	~~0~~	~~0.000~~	~~0.00~~

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Hexachlorobutadiene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	198207	198207.000	3.20
9H23034-CALA	2	375794	187897.000	3.20
9H23034-CALB	5	959211	191842.200	3.20
9H23034-CALC	10	1838187	183818.700	3.20
9H23034-CALD	25	4363988	174559.500	3.20
9H23034-CALE	50	8761747	175234.900	3.20
9H23034-CALF	100	795213E+07	179521.300	3.20
9H23034-CALG	200	416653E+07	170832.600	3.20

AVE RF ~~182739.200~~ RF RSD ~~5.17~~ AVE RT **3.20**

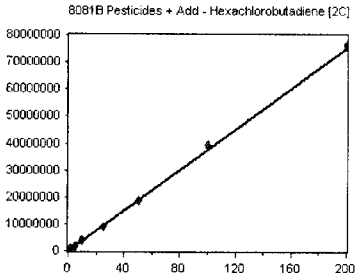
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

Hexachlorobutadiene [2C]

Curve Fit: **AVERAGE RF**

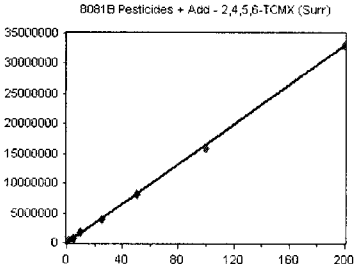


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	383198	383198.000	3.69
9H23034-CALA	2	754548	377274.000	3.69
9H23034-CALB	5	1877484	375496.800	3.69
9H23034-CALC	10	3701532	370153.200	3.69
9H23034-CALD	25	8892238	355689.500	3.69
9H23034-CALE	50	863562E+07	372712.400	3.69
9H23034-CALF	100	929888E+07	392988.800	3.69
9H23034-CALG	200	598857E+07	379942.800	3.69

AVE RF **375931.900** RF RSD **2.87** AVE RT **3.69**

2,4,5,6-TCMX (Surr)

Curve Fit: **AVERAGE RF**

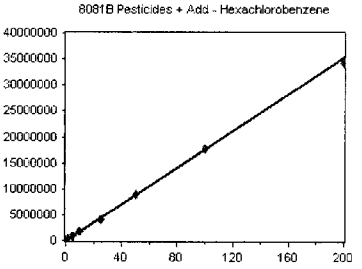


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	176748	176748.000	5.40
9H23034-CAL2	2	349972	174986.000	5.40
9H23034-CAL3	5	834206	166841.200	5.40
9H23034-CAL4	10	1644447	164444.700	5.40
9H23034-CAL5	25	4015832	160633.300	5.39
9H23034-CAL6	50	8071481	161429.600	5.39
9H23034-CAL7	100	585092E+07	158509.200	5.40
9H23034-CAL8	200	284254E+07	164212.700	5.39

AVE RF **165975.600** RF RSD **4.00** AVE RT **5.40**

Hexachlorobenzene

Curve Fit: **AVERAGE RF**

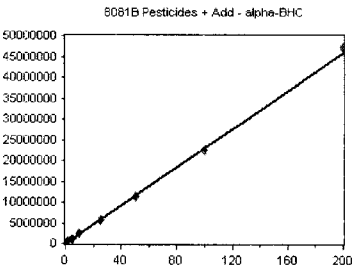


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	194679	194679.000	5.78
9H23034-CALA	2	362082	181041.000	5.78
9H23034-CALB	5	853793	170758.600	5.78
9H23034-CALC	10	1711884	171188.400	5.77
9H23034-CALD	25	4184551	167382.000	5.77
9H23034-CALE	50	8911624	178232.500	5.77
9H23034-CALF	100	767002E+07	176700.200	5.78
9H23034-CALG	200	407346E+07	170367.300	5.77

AVE RF **176293.600** RF RSD **4.96** AVE RT **5.77**

alpha-BHC

Curve Fit: **AVERAGE RF**

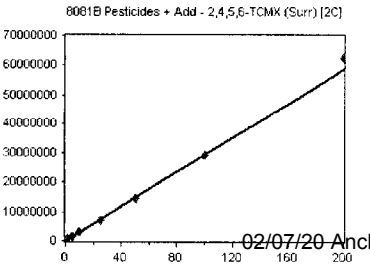


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	231994	231994.000	5.94
9H23034-CAL2	2	458365	229182.500	5.94
9H23034-CAL3	5	1147932	229586.400	5.94
9H23034-CAL4	10	2347065	234706.500	5.94
9H23034-CAL5	25	5553096	222123.800	5.94
9H23034-CAL6	50	136959E+07	227391.800	5.94
9H23034-CAL7	100	236358E+07	223635.800	5.94
9H23034-CAL8	200	720225E+07	236011.200	5.94

AVE RF **229329.000** RF RSD **2.14** AVE RT **5.94**

2,4,5,6-TCMX (Surr) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	300053	300053.000	5.99
9H23034-CAL2	2	600766	300383.000	5.99
9H23034-CAL3	5	1437876	287575.200	5.99
9H23034-CAL4	10	2865854	286585.400	5.99
9H23034-CAL5	25	7072923	282916.900	5.99
9H23034-CAL6	50	419675E+07	283935.000	5.99
9H23034-CAL7	100	925633E+07	292563.300	5.99
9H23034-CAL8	200	258445E+07	312922.300	5.99

AVE RF **293366.800** RF RSD **3.54** AVE RT **5.99**

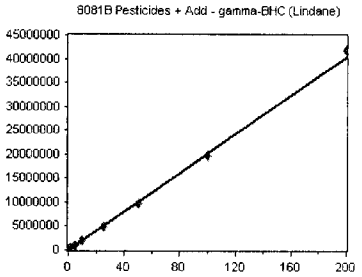
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

gamma-BHC (Lindane)

Curve Fit: **AVERAGE RF**

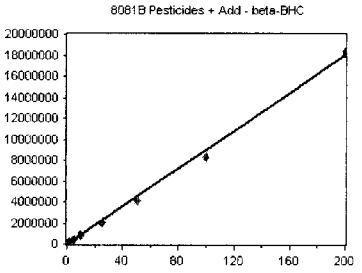


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	207427	207427.000	6.22
9H23034-CAL2	2	406027	203013.500	6.22
9H23034-CAL3	5	1020724	204144.800	6.22
9H23034-CAL4	10	2034859	203485.900	6.22
9H23034-CAL5	25	4875657	195026.300	6.22
9H23034-CAL6	50	9785999	195720.000	6.22
9H23034-CAL7	100	959509E+07	195950.900	6.22
9H23034-CAL8	200	188973E+07	209448.600	6.22

AVE RF **201777.100** RF RSD **2.76** AVE RT **6.22**

beta-BHC

Curve Fit: **AVERAGE RF**

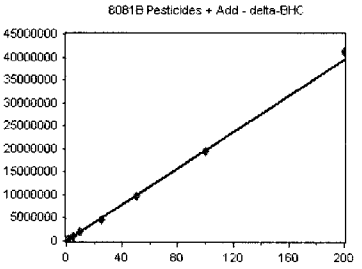


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	104326	104326.000	6.30
9H23034-CAL2	2	194168	97084.000	6.30
9H23034-CAL3	5	456954	91390.800	6.30
9H23034-CAL4	10	910875	91087.500	6.30
9H23034-CAL5	25	2060378	82415.120	6.30
9H23034-CAL6	50	4100858	82017.160	6.30
9H23034-CAL7	100	8355416	83554.160	6.30
9H23034-CAL8	200	.82387E+07	91193.500	6.29

AVE RF **90383.530** RF RSD **8.59** AVE RT **6.30**

delta-BHC

Curve Fit: **AVERAGE RF**

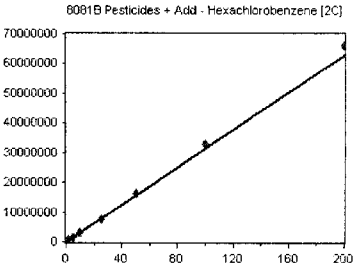


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	199840	199840.000	6.45
9H23034-CAL2	2	386980	193490.000	6.45
9H23034-CAL3	5	1004012	200802.400	6.45
9H23034-CAL4	10	2006493	200649.300	6.45
9H23034-CAL5	25	4667166	186686.600	6.45
9H23034-CAL6	50	9610742	192214.800	6.45
9H23034-CAL7	100	947558E+07	194755.800	6.45
9H23034-CAL8	200	101659E+07	205083.000	6.45

AVE RF **196690.200** RF RSD **3.02** AVE RT **6.45**

Hexachlorobenzene [2C]

Curve Fit: **AVERAGE RF**

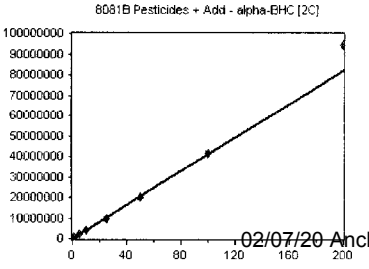


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	328025	328025.000	6.45
9H23034-CALA	2	632830	316415.000	6.45
9H23034-CALB	5	1485583	297116.600	6.45
9H23034-CALC	10	2936294	293629.400	6.45
9H23034-CALD	25	7416324	296653.000	6.45
9H23034-CALE	50	309416E+07	321883.200	6.45
9H23034-CALF	100	276671E+07	327667.100	6.46
9H23034-CALG	200	626197E+07	331309.800	6.45

AVE RF **314087.400** RF RSD **5.04** AVE RT **6.45**

alpha-BHC [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	393119	393119.000	6.60
9H23034-CAL2	2	784586	392293.000	6.60
9H23034-CAL3	5	1985438	397087.600	6.60
9H23034-CAL4	10	4095890	409589.000	6.60
9H23034-CAL5	25	9910863	396434.500	6.60
9H23034-CAL6	50	026582E+07	405316.400	6.60
9H23034-CAL7	100	169921E+07	416992.100	6.60
9H23034-CAL8	200	437675E+07	471883.800	6.60

AVE RF **416339.400** RF RSD **6.41** AVE RT **6.60**

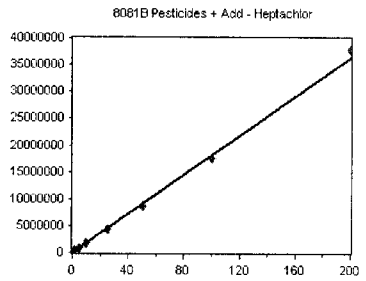
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

Heptachlor

Curve Fit: **AVERAGE RF**

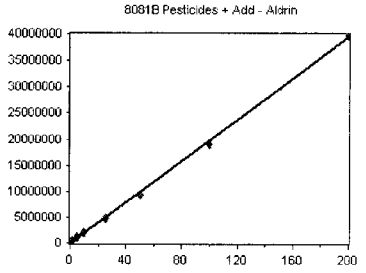


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	192066	192066.000	6.64
9H23034-CAL2	2	369615	184807.500	6.64
9H23034-CAL3	5	899091	179818.200	6.64
9H23034-CAL4	10	1819621	181962.100	6.63
9H23034-CAL5	25	4314306	172572.200	6.63
9H23034-CAL6	50	8735158	174703.200	6.63
9H23034-CAL7	100	755153E+07	175515.300	6.63
9H23034-CAL8	200	3.77857E+07	188928.500	6.63

AVE RF **181296.600** RF RSD **3.86** AVE RT **6.63**

Aldrin

Curve Fit: **AVERAGE RF**

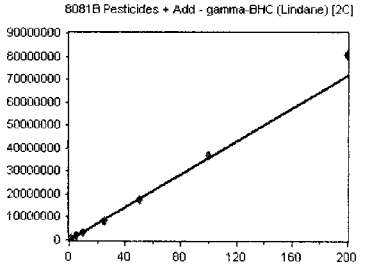


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	205523	205523.000	6.88
9H23034-CAL2	2	399550	199775.000	6.88
9H23034-CAL3	5	1012733	202546.600	6.88
9H23034-CAL4	10	2010802	201080.200	6.88
9H23034-CAL5	25	4845355	193814.200	6.87
9H23034-CAL6	50	9327672	186553.400	6.87
9H23034-CAL7	100	910807E+07	191080.700	6.87
9H23034-CAL8	200	3.98384E+07	199192.000	6.87

AVE RF **197445.600** RF RSD **3.23** AVE RT **6.87**

gamma-BHC (Lindane) [2C]

Curve Fit: **AVERAGE RF**

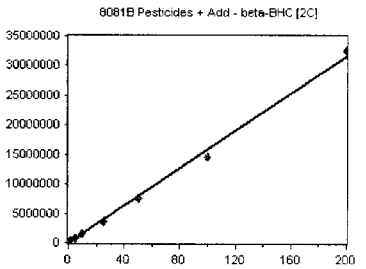


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	352286	352286.000	6.92
9H23034-CAL2	2	690922	345461.000	6.92
9H23034-CAL3	5	1742677	348535.400	6.92
9H23034-CAL4	10	3476733	347673.300	6.92
9H23034-CAL5	25	8508386	340335.400	6.91
9H23034-CAL6	50	738107E+07	347621.400	6.91
9H23034-CAL7	100	678899E+07	367889.900	6.91
9H23034-CAL8	200	076568E+07	403828.400	6.91

AVE RF **356703.900** RF RSD **5.79** AVE RT **6.91**

beta-BHC [2C]

Curve Fit: **AVERAGE RF**

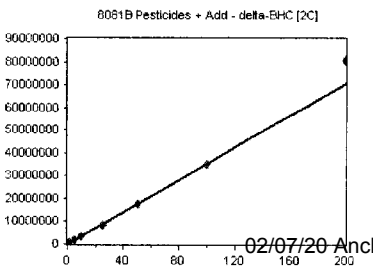


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	176262	176262.000	6.98
9H23034-CAL2	2	335260	167630.000	6.98
9H23034-CAL3	5	788630	157726.000	6.98
9H23034-CAL4	10	1580847	158084.700	6.98
9H23034-CAL5	25	3677155	147086.200	6.98
9H23034-CAL6	50	7516011	150320.200	6.98
9H23034-CAL7	100	462518E+07	146251.800	6.98
9H23034-CAL8	200	255343E+07	162767.200	6.98

AVE RF **158266.000** RF RSD **6.60** AVE RT **6.98**

delta-BHC [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	349123	349123.000	7.23
9H23034-CAL2	2	669122	334561.000	7.23
9H23034-CAL3	5	1717450	343490.000	7.23
9H23034-CAL4	10	3613517	361351.700	7.23
9H23034-CAL5	25	8247775	329911.000	7.23
9H23034-CAL6	50	731126E+07	346225.200	7.23
9H23034-CAL7	100	517663E+07	351766.300	7.23
9H23034-CAL8	200	097975E+07	404898.800	7.23

AVE RF **382665.900** RF RSD **8.50** AVE RT **7.23**

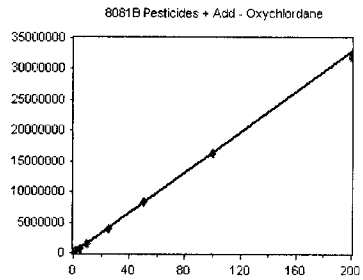
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082:**

Oxychlordane

Curve Fit: **AVERAGE RF**

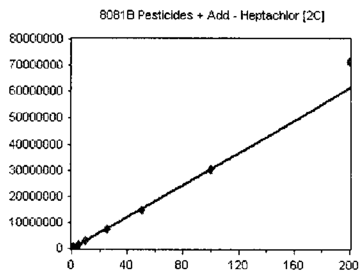


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	176844	176844.000	7.26
9H23034-CALA	2	339370	169685.000	7.26
9H23034-CALB	5	819748	163949.600	7.26
9H23034-CALC	10	1591613	159161.300	7.26
9H23034-CALD	25	3881255	155250.200	7.26
9H23034-CALE	50	8382873	167657.500	7.26
9H23034-CALF	100	635922E+07	163592.200	7.26
9H23034-CALG	200	203263E+07	160163.200	7.26

AVE RF **164537.900** RF RSD **4.13** AVE RT **7.26**

Heptachlor [2C]

Curve Fit: **AVERAGE RF**

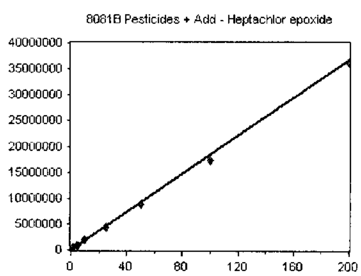


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	309811	309811.000	7.29
9H23034-CAL2	2	586765	293382.500	7.29
9H23034-CAL3	5	1508218	301643.600	7.29
9H23034-CAL4	10	3005915	300591.500	7.29
9H23034-CAL5	25	7282282	291291.300	7.29
9H23034-CAL6	50	459514E+07	291902.800	7.29
9H23034-CAL7	100	027782E+07	302778.200	7.29
9H23034-CAL8	200	128318E+07	356415.900	7.29

AVE RF **305977.100** RF RSD **6.98** AVE RT **7.29**

Heptachlor epoxide

Curve Fit: **AVERAGE RF**

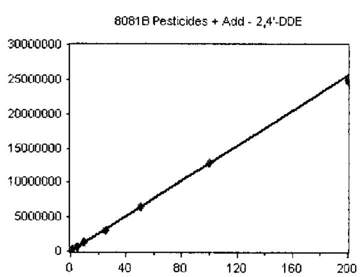


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	200503	200503.000	7.34
9H23034-CAL2	2	392052	196026.000	7.34
9H23034-CAL3	5	923620	184724.000	7.34
9H23034-CAL4	10	1865428	186542.800	7.34
9H23034-CAL5	25	4344286	173771.400	7.33
9H23034-CAL6	50	8869300	177386.000	7.33
9H23034-CAL7	100	731844E+07	173184.400	7.33
9H23034-CAL8	200	625817E+07	181290.800	7.33

AVE RF **184178.600** RF RSD **5.42** AVE RT **7.33**

2,4'-DDE

Curve Fit: **AVERAGE RF**

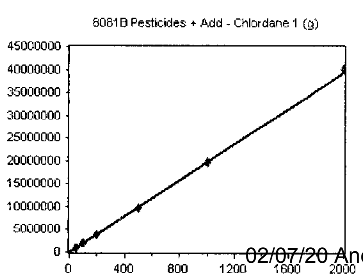


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	137947	137947.000	7.34
9H23034-CALA	2	265212	132606.000	7.33
9H23034-CALB	5	633168	126633.600	7.33
9H23034-CALC	10	1245265	124526.500	7.33
9H23034-CALD	25	3059421	122376.800	7.33
9H23034-CALE	50	6510588	130211.800	7.33
9H23034-CALF	100	276907E+07	127690.700	7.33
9H23034-CALG	200	!.48192E+07	124096.000	7.33

AVE RF **128261.100** RF RSD **4.01** AVE RT **7.33**

Chlordane 1 (g)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALH	50	1009143	20182.860	7.43
9H23034-CALI	100	1978897	19788.970	7.43
9H23034-CALJ	200	3849299	19246.490	7.43
9H23034-CALK	500	9628671	19257.340	7.43
9H23034-CALL	1000	964377E+07	19643.770	7.43
9H23034-CALM	2000	ı.00365E+07	20018.250	7.43

AVE RF **19689.610** RF RSD **1.96** AVE RT **7.43**

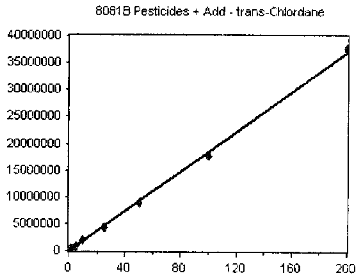
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

trans-Chlordane

Curve Fit: **AVERAGE RF**

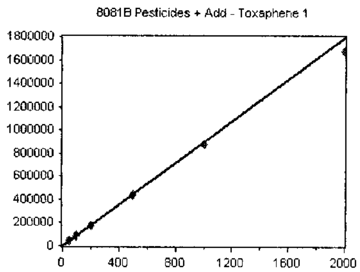


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	197202	197202.000	7.43
9H23034-CAL2	2	382271	191135.500	7.43
9H23034-CAL3	5	926577	185315.400	7.43
9H23034-CAL4	10	1847996	184799.600	7.43
9H23034-CAL5	25	4401456	176058.200	7.43
9H23034-CAL6	50	8959305	179186.100	7.43
9H23034-CAL7	100	773279E+07	177327.900	7.43
9H23034-CAL8	200	762141E+07	188107.000	7.43

AVE RF **184891.500** RF RSD **3.93** AVE RT **7.43**

Toxaphene 1

Curve Fit: **AVERAGE RF**

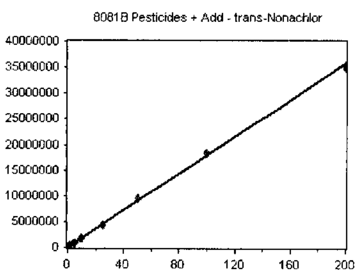


Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	49250	985.000	7.51
9H23034-CALO	100	91576	915.760	7.50
9H23034-CALP	200	176047	880.235	7.50
9H23034-CALQ	500	441826	883.652	7.50
9H23034-CALR	1000	871889	871.889	7.50
9H23034-CALS	2000	1674674	837.337	7.50

AVE RF **895.646** RF RSD **5.63** AVE RT **7.50**

trans-Nonachlor

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

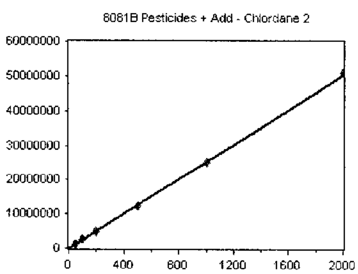


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	236836	236836.000	7.52
9H23034-CALA	2	415126	207563.000	7.52
9H23034-CALB	5	933222	186644.400	7.52
9H23034-CALC	10	1817552	181755.200	7.52
9H23034-CALD	25	4391046	175641.800	7.52
9H23034-CALE	50	9581794	191635.900	7.52
9H23034-CALF	100	835125E+07	183512.500	7.52
9H23034-CALG	200	502792E+07	175139.600	7.51

AVE RF **192341.100** RF RSD **10.78** AVE RT **7.52**

Chlordane 2

Curve Fit: **AVERAGE RF**

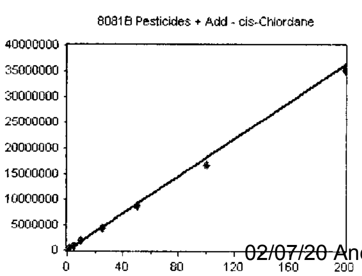


Standard	Concentration	Response	Response Factor	RT
9H23034-CALH	50	1286655	25733.100	7.52
9H23034-CALI	100	2519520	25195.200	7.52
9H23034-CALJ	200	4906320	24531.600	7.52
9H23034-CALK	500	217652E+07	24353.040	7.52
9H23034-CALL	1000	508324E+07	25083.240	7.52
9H23034-CALM	2000	097914E+07	25489.570	7.52

AVE RF **25064.290** RF RSD **2.14** AVE RT **7.52**

cis-Chlordane

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	209780	209780.000	7.53
9H23034-CAL2	2	389999	194999.500	7.53
9H23034-CAL3	5	908795	181759.000	7.53
9H23034-CAL4	10	1843346	184334.600	7.53
9H23034-CAL5	25	4244413	169776.500	7.53
9H23034-CAL6	50	8622674	172453.500	7.52
9H23034-CAL7	100	674258E+07	167425.800	7.52
9H23034-CAL8	200	520794E+07	176039.700	7.52

AVE RF **182071.100** RF RSD **7.86** AVE RT **7.53**

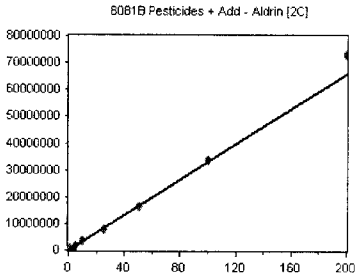
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

Aldrin [2C]

Curve Fit: **AVERAGE RF**

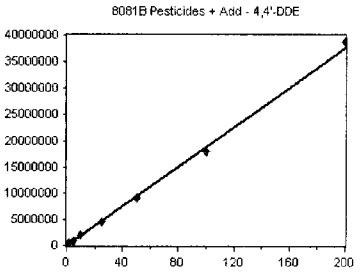


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	317466	317466.000	7.56
9H23034-CAL2	2	635458	317729.000	7.56
9H23034-CAL3	5	1600995	320199.000	7.56
9H23034-CAL4	10	3341093	334109.300	7.56
9H23034-CAL5	25	7878574	315143.000	7.56
9H23034-CAL6	50	526442E+07	325288.400	7.56
9H23034-CAL7	100	390642E+07	339064.200	7.56
9H23034-CAL8	200	322818E+07	366140.900	7.55

AVE RF **329392.500** RF RSD **5.19** AVE RT **7.56**

4,4'-DDE

Curve Fit: **AVERAGE RF**

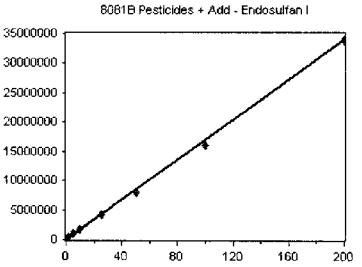


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	193435	193435.000	7.59
9H23034-CAL2	2	388618	194309.000	7.59
9H23034-CAL3	5	953351	190670.200	7.59
9H23034-CAL4	10	1890931	189093.100	7.59
9H23034-CAL5	25	4571066	182842.600	7.58
9H23034-CAL6	50	9177389	183547.800	7.58
9H23034-CAL7	100	805255E+07	180525.500	7.58
9H23034-CAL8	200	876308E+07	193815.400	7.58

AVE RF **188529.800** RF RSD **2.92** AVE RT **7.58**

Endosulfan I

Curve Fit: **AVERAGE RF**

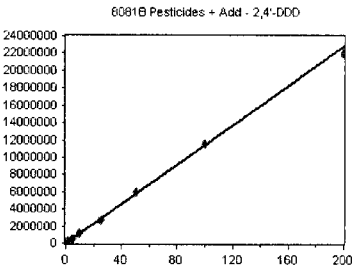


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	185217	185217.000	7.63
9H23034-CAL2	2	357368	178684.000	7.63
9H23034-CAL3	5	861509	172301.800	7.62
9H23034-CAL4	10	1709332	170933.200	7.62
9H23034-CAL5	25	4111285	164451.400	7.62
9H23034-CAL6	50	7984410	159688.200	7.62
9H23034-CAL7	100	1.609E+07	160900.000	7.62
9H23034-CAL8	200	385259E+07	169263.000	7.62

AVE RF **170179.800** RF RSD **5.13** AVE RT **7.62**

2,4'-DDD

Curve Fit: **AVERAGE RF**

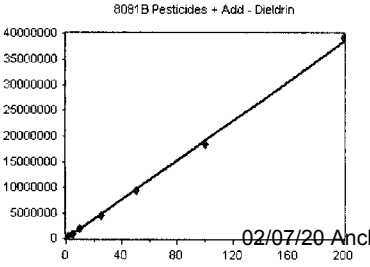


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	120240	120240.000	7.71
9H23034-CALA	2	233089	116544.500	7.71
9H23034-CALB	5	560942	112188.400	7.71
9H23034-CALC	10	1103587	110358.700	7.71
9H23034-CALD	25	2745178	109807.100	7.71
9H23034-CALE	50	5920095	118401.900	7.71
9H23034-CALF	100	158755E+07	115875.500	7.71
9H23034-CALG	200	191696E+07	109584.800	7.70

AVE RF **114125.100** RF RSD **3.65** AVE RT **7.71**

Dieldrin

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	197721	197721.000	7.80
9H23034-CAL2	2	395728	197864.000	7.80
9H23034-CAL3	5	972009	194401.800	7.80
9H23034-CAL4	10	1954890	195489.000	7.80
9H23034-CAL5	25	4582306	183292.200	7.79
9H23034-CAL6	50	9386664	187733.300	7.79
9H23034-CAL7	100	832442E+07	183244.200	7.79
9H23034-CAL8	200	921777E+07	196088.800	7.79

AVE RF **191979.300** RF RSD **3.29** AVE RT **7.79**

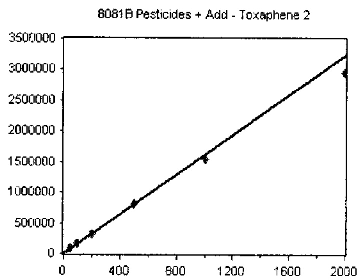
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082:**

Toxaphene 2

Curve Fit: **AVERAGE RF**

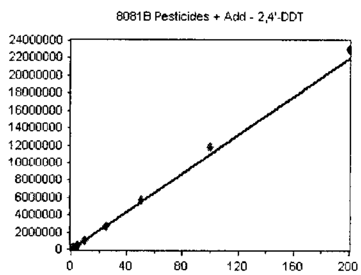


Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	88321	1766.420	7.79
9H23034-CALO	100	166085	1660.850	7.80
9H23034-CALP	200	317587	1587.935	7.80
9H23034-CALQ	500	819454	1638.908	7.79
9H23034-CALR	1000	1556013	1556.013	7.79
9H23034-CALS	2000	2958997	1479.499	7.79

AVE RF **1614.937** RF RSD **6.08** AVE RT **7.79**

2,4'-DDT

Curve Fit: **AVERAGE RF**

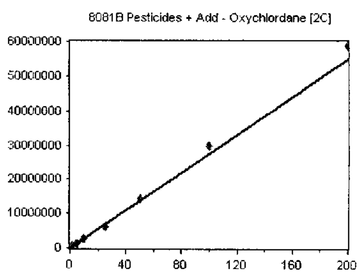


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	107110	107110.000	7.89
9H23034-CALA	2	204209	102104.500	7.89
9H23034-CALB	5	536967	107393.400	7.89
9H23034-CALC	10	1051565	105156.500	7.89
9H23034-CALD	25	2728794	109151.800	7.89
9H23034-CALE	50	5687323	113746.500	7.89
9H23034-CALF	100	177135E+07	117713.500	7.89
9H23034-CALG	200	302496E+07	115124.800	7.89

AVE RF **109687.600** RF RSD **4.88** AVE RT **7.89**

Oxychlordane [2C]

Curve Fit: **AVERAGE RF**

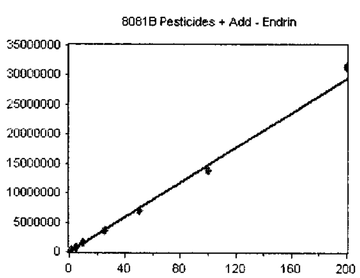


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	279143	279143.000	7.92
9H23034-CALA	2	541023	270511.500	7.92
9H23034-CALB	5	1325543	265108.600	7.92
9H23034-CALC	10	2538903	253890.300	7.92
9H23034-CALD	25	6202791	248111.600	7.92
9H23034-CALE	50	417254E+07	283450.800	7.92
9H23034-CALF	100	973215E+07	297321.500	7.92
9H23034-CALG	200	873698E+07	293684.900	7.92

AVE RF **273902.800** RF RSD **6.49** AVE RT **7.92**

Endrin

Curve Fit: **AVERAGE RF**

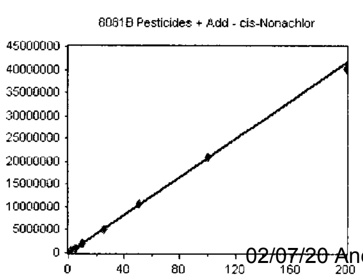


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	156412	156412.000	7.96
9H23034-CAL2	2	298515	149257.500	7.96
9H23034-CAL3	5	738953	147790.600	7.96
9H23034-CAL4	10	1475508	147550.800	7.96
9H23034-CAL5	25	3508904	140356.200	7.96
9H23034-CAL6	50	6979572	139591.400	7.96
9H23034-CAL7	100	381271E+07	138127.100	7.96
9H23034-CAL8	200	142631E+07	157131.500	7.96

AVE RF **147027.100** RF RSD **4.98** AVE RT **7.96**

cis-Nonachlor

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	219220	219220.000	7.99
9H23034-CALA	2	423442	211721.000	7.99
9H23034-CALB	5	1025899	205179.800	7.99
9H23034-CALC	10	2032010	203201.000	7.99
9H23034-CALD	25	4993110	199724.400	7.99
9H23034-CALE	50	061602E+07	212320.400	7.99
9H23034-CALF	100	093264E+07	209326.400	7.99
9H23034-CALG	200	004618E+07	200230.900	7.98

AVE RF **207615.500** RF RSD **3.26** AVE RT **7.99**

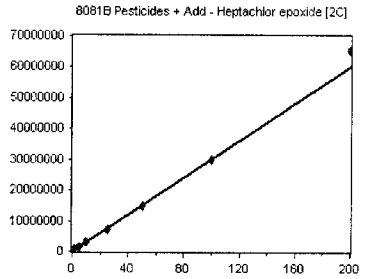
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

Heptachlor epoxide [2C]

Curve Fit: **AVERAGE RF**

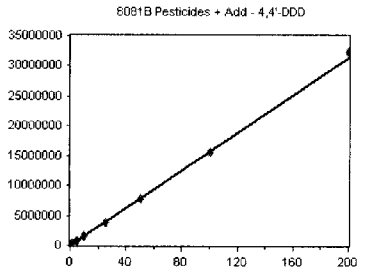


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	310098	310098.000	7.99
9H23034-CAL2	2	606240	303120.000	7.99
9H23034-CAL3	5	1455941	291188.200	7.99
9H23034-CAL4	10	2959301	295930.100	7.99
9H23034-CAL5	25	7064729	282589.200	7.99
9H23034-CAL6	50	483779E+07	296755.800	7.99
9H23034-CAL7	100	004551E+07	300455.100	7.99
9H23034-CAL8	200	533007E+07	326650.400	7.99

AVE RF **300848.300** RF RSD **4.40** AVE RT **7.99**

4,4'-DDD

Curve Fit: **AVERAGE RF**

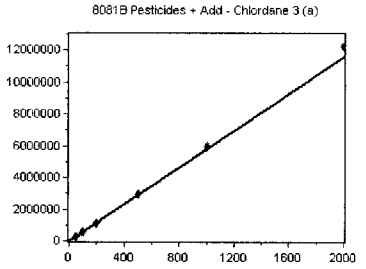


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	164956	164956.000	8.01
9H23034-CAL2	2	314622	157311.000	8.01
9H23034-CAL3	5	790498	158099.600	8.01
9H23034-CAL4	10	1565974	156597.400	8.01
9H23034-CAL5	25	3727035	149081.400	8.00
9H23034-CAL6	50	7726197	154523.900	8.00
9H23034-CAL7	100	543715E+07	154371.500	8.00
9H23034-CAL8	200	3.24368E+07	162184.000	8.00

AVE RF **157140.600** RF RSD **3.11** AVE RT **8.00**

Chlordane 3 (a)

Curve Fit: **AVERAGE RF**

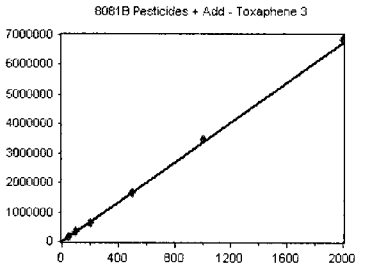


Standard	Concentration	Response	Response Factor	RT
9H23034-CALH	50	288087	5761.740	8.07
9H23034-CALI	100	548196	5481.960	8.07
9H23034-CALJ	200	1101677	5508.385	8.07
9H23034-CALK	500	2921278	5842.556	8.07
9H23034-CALL	1000	5987927	5987.927	8.07
9H23034-CALM	2000	220831E+07	6104.155	8.07

AVE RF **5781.121** RF RSD **4.34** AVE RT **8.07**

Toxaphene 3

Curve Fit: **AVERAGE RF**

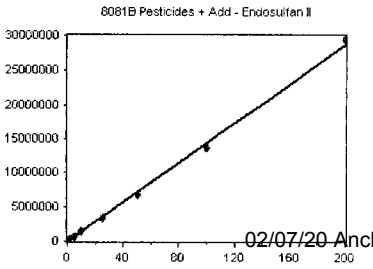


Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	169381	3387.620	8.11
9H23034-CALO	100	332842	3328.420	8.11
9H23034-CALP	200	644464	3222.320	8.11
9H23034-CALQ	500	1677481	3354.962	8.11
9H23034-CALR	1000	3495877	3495.877	8.11
9H23034-CALS	2000	6831460	3415.730	8.10

AVE RF **3367.488** RF RSD **2.72** AVE RT **8.11**

Endosulfan II

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	158139	158139.000	8.12
9H23034-CAL2	2	299106	149553.000	8.12
9H23034-CAL3	5	709544	141908.800	8.12
9H23034-CAL4	10	1448080	144808.000	8.12
9H23034-CAL5	25	3371864	134874.600	8.12
9H23034-CAL6	50	6840920	136818.400	8.11
9H23034-CAL7	100	.35435E+07	135435.000	8.11
9H23034-CAL8	200	947104E+07	147355.200	8.11

AVE RF **143611.500** RF RSD **5.61** AVE RT **8.12**

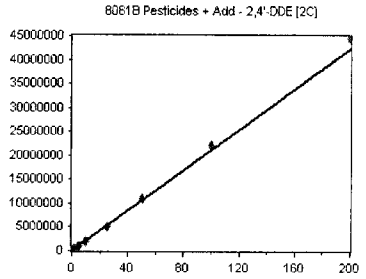
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

2,4'-DDE [2C]

Curve Fit: **AVERAGE RF**

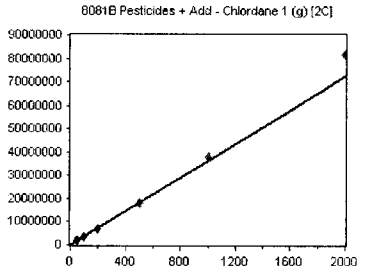


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	219164	219164.000	8.12
9H23034-CALA	2	411812	205906.000	8.12
9H23034-CALB	5	1029687	205937.400	8.12
9H23034-CALC	10	2018331	201833.100	8.12
9H23034-CALD	25	4999232	199969.300	8.12
9H23034-CALE	50	.10064E+07	220128.000	8.12
9H23034-CALF	100	:.21644E+07	221644.000	8.12
9H23034-CALG	200	450459E+07	222523.000	8.12

AVE RF **212138.100** RF RSD **4.52** AVE RT **8.12**

Chlordane 1 (g) [2C]

Curve Fit: **AVERAGE RF**

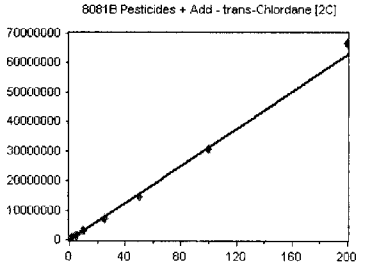


Standard	Concentration	Response	Response Factor	RT
9H23034-CALH	50	1754707	35094.140	8.13
9H23034-CALI	100	3378388	33783.880	8.13
9H23034-CALJ	200	6751197	33755.980	8.13
9H23034-CALK	500	783043E+07	35660.860	8.13
9H23034-CALL	1000	796674E+07	37966.740	8.13
9H23034-CALM	2000	169171E+07	40845.860	8.13

AVE RF **36184.580** RF RSD **7.62** AVE RT **8.13**

trans-Chlordane [2C]

Curve Fit: **AVERAGE RF**

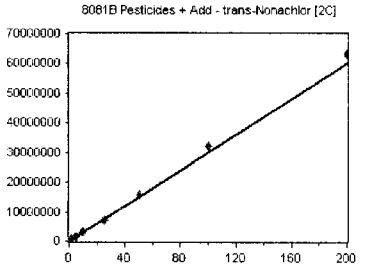


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	364142	364142.000	8.14
9H23034-CAL2	2	644454	322227.000	8.14
9H23034-CAL3	5	1502119	300423.800	8.13
9H23034-CAL4	10	3002782	300278.200	8.13
9H23034-CAL5	25	7157480	286299.200	8.13
9H23034-CAL6	50	467872E+07	293574.400	8.13
9H23034-CAL7	100	074227E+07	307422.700	8.13
9H23034-CAL8	200	644797E+07	332239.800	8.13

AVE RF **313325.900** RF RSD **8.10** AVE RT **8.13**

trans-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

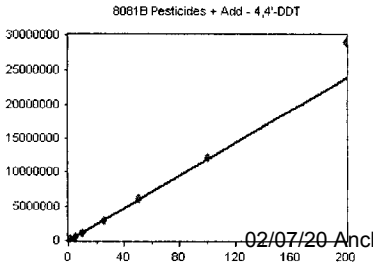


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	306202	306202.000	8.20
9H23034-CALA	2	587765	293882.500	8.19
9H23034-CALB	5	1467723	293544.600	8.19
9H23034-CALC	10	2844404	284440.400	8.19
9H23034-CALD	25	7092288	283691.500	8.19
9H23034-CALE	50	580771E+07	316154.200	8.19
9H23034-CALF	100	197527E+07	319752.700	8.20
9H23034-CALG	200	308364E+07	315418.200	8.19

AVE RF **301635.800** RF RSD **4.84** AVE RT **8.19**

4,4'-DDT

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	113897	113897.000	8.21
9H23034-CAL2	2	218190	109095.000	8.20
9H23034-CAL3	5	553009	110601.800	8.21
9H23034-CAL4	10	1146556	114655.600	8.20
9H23034-CAL5	25	2924467	116978.700	8.20
9H23034-CAL6	50	6205369	124107.400	8.20
9H23034-CAL7	100	217696E+07	121769.600	8.20
9H23034-CAL8	200	907522E+07	145376.100	8.20

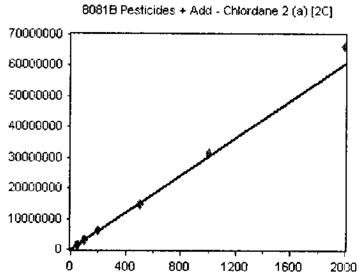
AVE RF **119560.100** RF RSD **9.72** AVE RT **8.20**

Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082:**

Chlordane 2 (a) [2C]

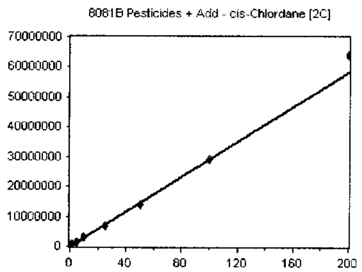


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9H23034-CALH	50	1472400	29448.000	8.24
9H23034-CALI	100	2905941	29059.410	8.24
9H23034-CALJ	200	5883615	29418.070	8.24
9H23034-CALK	500	481227E+07	29624.540	8.24
9H23034-CALL	1000	149368E+07	31493.680	8.24
9H23034-CALM	2000	628139E+07	33140.700	8.24

AVE RF **30364.070** RF RSD **5.30** AVE RT **8.24**

cis-Chlordane [2C]

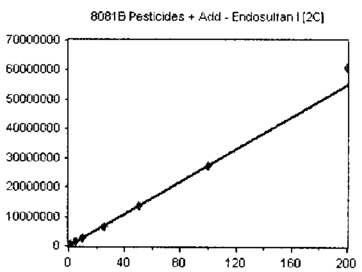


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	299422	299422.000	8.24
9H23034-CAL2	2	579667	289833.500	8.24
9H23034-CAL3	5	1434855	286971.000	8.24
9H23034-CAL4	10	2859573	285957.300	8.24
9H23034-CAL5	25	6935857	277434.300	8.24
9H23034-CAL6	50	400212E+07	280042.400	8.24
9H23034-CAL7	100	904286E+07	290428.600	8.24
9H23034-CAL8	200	397706E+07	319885.300	8.24

AVE RF **291246.800** RF RSD **4.59** AVE RT **8.24**

Endosulfan I [2C]

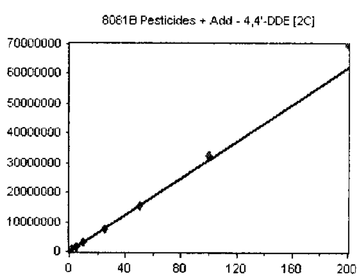


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	278874	278874.000	8.29
9H23034-CAL2	2	540442	270221.000	8.29
9H23034-CAL3	5	1327191	265438.200	8.29
9H23034-CAL4	10	2724272	272427.200	8.29
9H23034-CAL5	25	6571512	262860.500	8.29
9H23034-CAL6	50	371233E+07	274246.600	8.29
9H23034-CAL7	100	721271E+07	272127.100	8.29
9H23034-CAL8	200	104351E+07	305217.600	8.29

AVE RF **275176.500** RF RSD **4.77** AVE RT **8.29**

4,4'-DDE [2C]

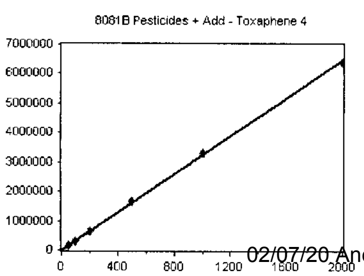


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	298463	298463.000	8.35
9H23034-CAL2	2	598066	299033.000	8.35
9H23034-CAL3	5	1487999	297599.800	8.35
9H23034-CAL4	10	3049792	304979.200	8.35
9H23034-CAL5	25	7501047	300041.900	8.34
9H23034-CAL6	50	555471E+07	311094.200	8.34
9H23034-CAL7	100	;.24996E+07	324996.000	8.34
9H23034-CAL8	200	984235E+07	349211.800	8.34

AVE RF **310677.400** RF RSD **5.82** AVE RT **8.34**

Toxaphene 4



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	164317	3286.340	8.35
9H23034-CALO	100	320313	3203.130	8.35
9H23034-CALP	200	632351	3161.755	8.35
9H23034-CALQ	500	1649569	3299.138	8.35
9H23034-CALR	1000	3287014	3287.014	8.35
9H23034-CALS	2000	6407070	3203.535	8.35

AVE RF **3240.152** RF RSD **1.78** AVE RT **8.35**

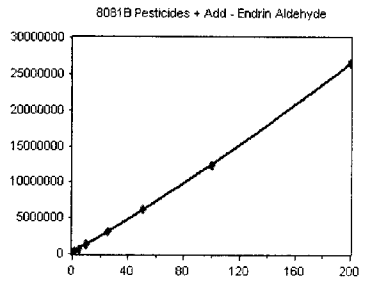
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

Endrin Aldehyde

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

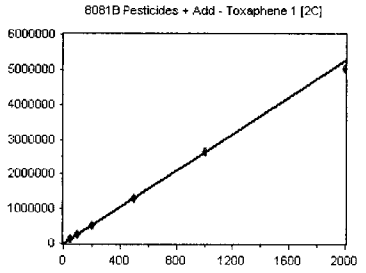


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	241285	241285.000	8.41
9H23034-CAL2	2	328182	164091.000	8.41
9H23034-CAL3	5	683393	136678.600	8.41
9H23034-CAL4	10	1375129	137512.900	8.41
9H23034-CAL5	25	3119767	124790.700	8.40
9H23034-CAL6	50	6224451	124489.000	8.40
9H23034-CAL7	100	236381E+07	123638.100	8.40
9H23034-CAL8	200	362767E+07	133138.300	8.40

AVE RF **148203.000** RF RSD **26.87** AVE RT **8.41**

Toxaphene 1 [2C]

Curve Fit: **AVERAGE RF**

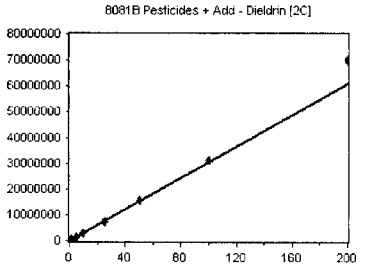


Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	136848	2736.960	8.47
9H23034-CALO	100	267534	2675.340	8.47
9H23034-CALP	200	508983	2544.915	8.47
9H23034-CALQ	500	1308994	2617.988	8.47
9H23034-CALR	1000	2654886	2654.886	8.47
9H23034-CALS	2000	5030917	2515.458	8.47

AVE RF **2624.258** RF RSD **3.16** AVE RT **8.47**

Dieldrin [2C]

Curve Fit: **AVERAGE RF**

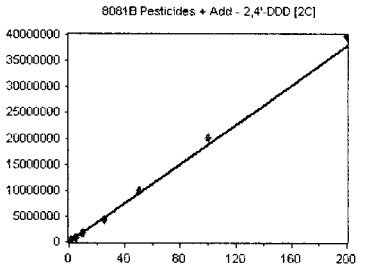


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	296684	296684.000	8.49
9H23034-CAL2	2	583812	291906.000	8.49
9H23034-CAL3	5	1462538	292507.600	8.49
9H23034-CAL4	10	2898866	289886.600	8.49
9H23034-CAL5	25	7333890	293355.600	8.49
9H23034-CAL6	50	543411E+07	308682.200	8.49
9H23034-CAL7	100	100196E+07	310019.600	8.49
9H23034-CAL8	200	003178E+07	350158.900	8.49

AVE RF **304150.100** RF RSD **6.61** AVE RT **8.49**

2,4'-DDD [2C]

Curve Fit: **AVERAGE RF**

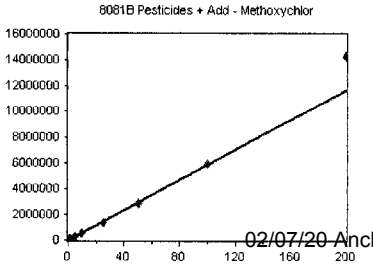


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	192040	192040.000	8.50
9H23034-CALA	2	373596	186798.000	8.50
9H23034-CALB	5	898697	179739.400	8.50
9H23034-CALC	10	1778790	177879.000	8.50
9H23034-CALD	25	4389185	175567.400	8.50
9H23034-CALE	50	9924934	198498.700	8.50
9H23034-CALF	100	011892E+07	201189.200	8.50
9H23034-CALG	200	.98393E+07	199196.500	8.49

AVE RF **188863.500** RF RSD **5.47** AVE RT **8.50**

Methoxychlor

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	59659	59659.000	8.54
9H23034-CAL2	2	111466	55733.000	8.54
9H23034-CAL3	5	270388	54077.600	8.54
9H23034-CAL4	10	561706	56170.600	8.54
9H23034-CAL5	25	1390283	55611.320	8.54
9H23034-CAL6	50	2860683	57213.660	8.54
9H23034-CAL7	100	5877329	58773.290	8.54
9H23034-CAL8	200	427114E+07	71355.700	8.54

AVE RF **58574.270** RF RSD **9.53** AVE RT **8.54**

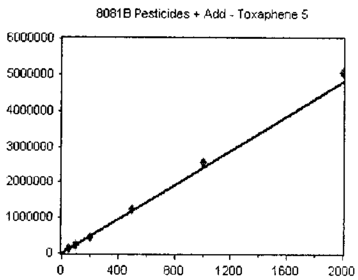
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

Toxaphene 5

Curve Fit: **AVERAGE RF**

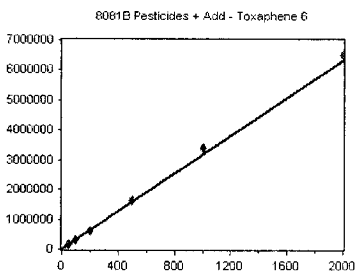


Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	114720	2294.400	8.57
9H23034-CALO	100	228960	2289.600	8.57
9H23034-CALP	200	454431	2272.155	8.57
9H23034-CALQ	500	1221560	2443.120	8.57
9H23034-CALR	1000	2546293	2546.293	8.57
9H23034-CALS	2000	5074570	2537.285	8.57

AVE RF **2397.142** RF RSD **5.33** AVE RT **8.57**

Toxaphene 6

Curve Fit: **AVERAGE RF**

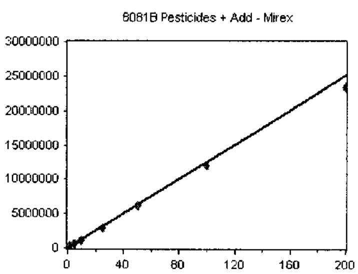


Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	153138	3062.760	8.64
9H23034-CALO	100	302577	3025.770	8.64
9H23034-CALP	200	597991	2989.955	8.64
9H23034-CALQ	500	1623402	3246.804	8.64
9H23034-CALR	1000	3406737	3406.737	8.64
9H23034-CALS	2000	6510950	3255.475	8.64

AVE RF **3164.584** RF RSD **5.17** AVE RT **8.64**

Mirex

Curve Fit: **AVERAGE RF**

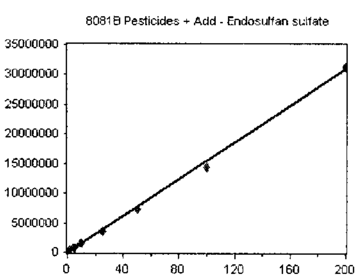


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	147356	147356.000	8.66
9H23034-CALA	2	266770	133385.000	8.66
9H23034-CALB	5	628618	125723.600	8.65
9H23034-CALC	10	1196365	119636.500	8.65
9H23034-CALD	25	2910818	116432.700	8.65
9H23034-CALE	50	6218341	124366.800	8.65
9H23034-CALF	100	196075E+07	119607.500	8.65
9H23034-CALG	200	2.3285E+07	116425.000	8.65

AVE RF **125366.600** RF RSD **8.39** AVE RT **8.65**

Endosulfan sulfate

Curve Fit: **AVERAGE RF**

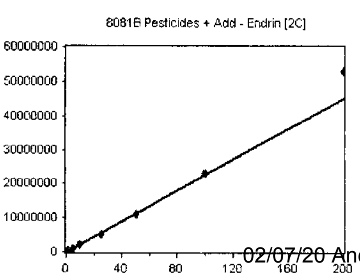


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	176097	176097.000	8.71
9H23034-CAL2	2	322163	161081.500	8.71
9H23034-CAL3	5	768798	153759.600	8.71
9H23034-CAL4	10	1553540	155354.000	8.71
9H23034-CAL5	25	3645411	145816.400	8.71
9H23034-CAL6	50	7420576	148411.500	8.71
9H23034-CAL7	100	436679E+07	143667.900	8.70
9H23034-CAL8	200	112652E+07	155632.600	8.70

AVE RF **154977.600** RF RSD **6.64** AVE RT **8.71**

Endrin [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	222882	222882.000	8.72
9H23034-CAL2	2	424889	212444.500	8.72
9H23034-CAL3	5	1092877	218575.400	8.72
9H23034-CAL4	10	2244483	224448.300	8.72
9H23034-CAL5	25	5325883	213035.300	8.72
9H23034-CAL6	50	101538E+07	220307.600	8.72
9H23034-CAL7	100	310241E+07	231024.100	8.72
9H23034-CAL8	200	277958E+07	263897.900	8.72

AVE RF **225826.900** RF RSD **7.32** AVE RT **8.72**

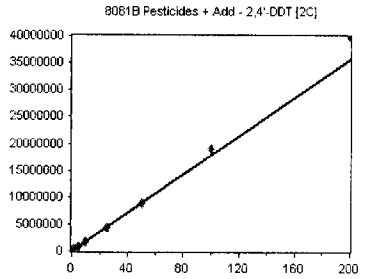
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

2,4'-DDT [2C]

Curve Fit: **AVERAGE RF**

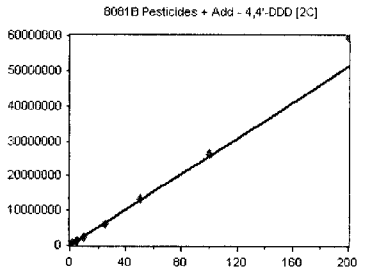


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	173338	173338.000	8.72
9H23034-CALA	2	332170	166085.000	8.72
9H23034-CALB	5	873074	174614.800	8.72
9H23034-CALC	10	1702568	170256.800	8.72
9H23034-CALD	25	4405554	176222.200	8.72
9H23034-CALE	50	8810591	176211.800	8.72
9H23034-CALF	100	899897E+07	189989.700	8.72
9H23034-CALG	200	999923E+07	199996.200	8.72

AVE RF **178339.300** RF RSD **6.24** AVE RT **8.72**

4,4'-DDD [2C]

Curve Fit: **AVERAGE RF**

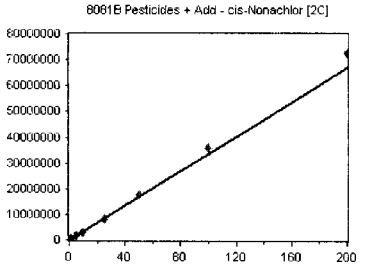


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	251549	251549.000	8.76
9H23034-CAL2	2	488120	244060.000	8.76
9H23034-CAL3	5	1208642	241728.400	8.76
9H23034-CAL4	10	2425496	242549.600	8.76
9H23034-CAL5	25	6146469	245858.800	8.76
9H23034-CAL6	50	315945E+07	263189.000	8.76
9H23034-CAL7	100	629748E+07	262974.800	8.76
9H23034-CAL8	200	956027E+07	297801.400	8.76

AVE RF **256213.900** RF RSD **7.37** AVE RT **8.76**

cis-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

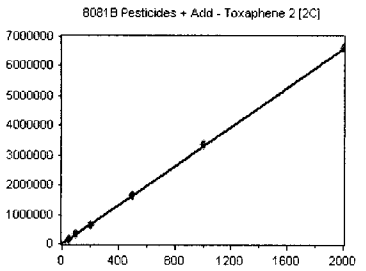


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	332745	332745.000	8.76
9H23034-CALA	2	624783	312391.500	8.76
9H23034-CALB	5	1587243	317448.600	8.76
9H23034-CALC	10	3148054	314805.400	8.76
9H23034-CALD	25	8219393	328775.700	8.76
9H23034-CALE	50	772123E+07	354424.600	8.76
9H23034-CALF	100	607264E+07	360726.400	8.76
9H23034-CALG	200	245582E+07	362279.100	8.76

AVE RF **335449.500** RF RSD **6.23** AVE RT **8.76**

Toxaphene 2 [2C]

Curve Fit: **AVERAGE RF**

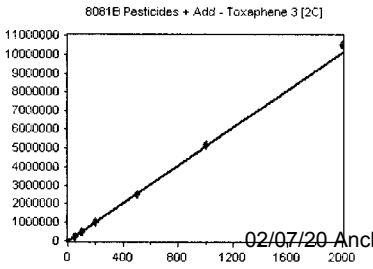


Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	164706	3294.120	8.81
9H23034-CALO	100	324070	3240.700	8.81
9H23034-CALP	200	645322	3226.610	8.81
9H23034-CALQ	500	1647741	3295.482	8.81
9H23034-CALR	1000	3384036	3384.036	8.81
9H23034-CALS	2000	6610397	3305.198	8.81

AVE RF **3291.024** RF RSD **1.70** AVE RT **8.81**

Toxaphene 3 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	254833	5096.660	8.85
9H23034-CALO	100	494430	4944.300	8.85
9H23034-CALP	200	995555	4977.775	8.85
9H23034-CALQ	500	2475022	4950.044	8.85
9H23034-CALR	1000	5168269	5168.269	8.85
9H23034-CALS	2000	054571E+07	5272.855	8.85

AVE RF **5068.317** RF RSD **2.65** AVE RT **8.85**

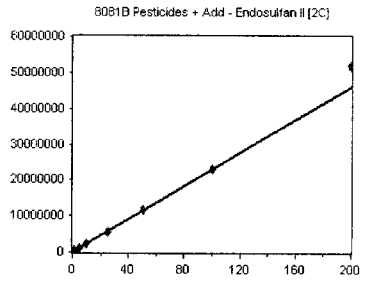
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

Endosulfan II [2C]

Curve Fit: **AVERAGE RF**

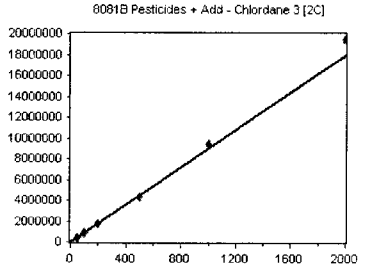


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	232156	232156.000	8.87
9H23034-CAL2	2	462256	231128.000	8.86
9H23034-CAL3	5	1096359	219271.800	8.87
9H23034-CAL4	10	2243610	224361.000	8.86
9H23034-CAL5	25	5447602	217904.100	8.86
9H23034-CAL6	50	153453E+07	230690.600	8.86
9H23034-CAL7	100	301637E+07	230163.700	8.86
9H23034-CAL8	200	183489E+07	259174.400	8.86

AVE RF **230606.200** RF RSD **5.55** AVE RT **8.86**

Chlordane 3 [2C]

Curve Fit: **AVERAGE RF**

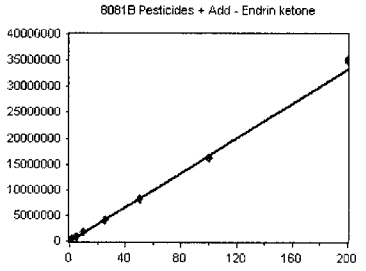


Standard	Concentration	Response	Response Factor	RT
9H23034-CALH	50	439020	8780.400	8.90
9H23034-CALI	100	874465	8744.650	8.90
9H23034-CALJ	200	1731727	8658.635	8.90
9H23034-CALK	500	4271709	8543.418	8.90
9H23034-CALL	1000	9358900	9358.900	8.90
9H23034-CALM	2000	941852E+07	9709.260	8.90

AVE RF **8965.877** RF RSD **5.14** AVE RT **8.90**

Endrin ketone

Curve Fit: **AVERAGE RF**

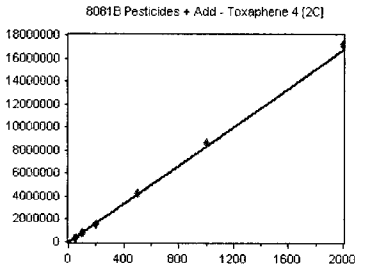


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	177552	177552.000	8.90
9H23034-CAL2	2	331269	165634.500	8.90
9H23034-CAL3	5	811384	162276.800	8.90
9H23034-CAL4	10	1664380	166438.000	8.90
9H23034-CAL5	25	4008958	160358.300	8.90
9H23034-CAL6	50	8190707	163814.100	8.90
9H23034-CAL7	100	525194E+07	162519.400	8.90
9H23034-CAL8	200	509472E+07	175473.600	8.90

AVE RF **166758.300** RF RSD **3.80** AVE RT **8.90**

Toxaphene 4 [2C]

Curve Fit: **AVERAGE RF**

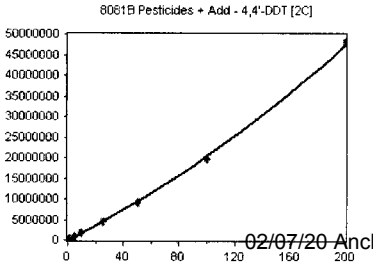


Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	416348	8326.960	8.92
9H23034-CALO	100	811948	8119.480	8.92
9H23034-CALP	200	1580436	7902.180	8.91
9H23034-CALQ	500	4252640	8505.280	8.92
9H23034-CALR	1000	8650068	8650.068	8.92
9H23034-CALS	2000	719004E+07	8595.020	8.91

AVE RF **8349.831** RF RSD **3.51** AVE RT **8.91**

4,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	179700	179700.000	8.99
9H23034-CAL2	2	341782	170891.000	8.99
9H23034-CAL3	5	873653	174730.600	8.99
9H23034-CAL4	10	1841119	184111.900	8.99
9H23034-CAL5	25	4480388	179215.500	8.98
9H23034-CAL6	50	9285492	185709.800	8.99
9H23034-CAL7	100	.97895E+07	197895.000	8.98
9H23034-CAL8	200	820344E+07	241017.200	8.98

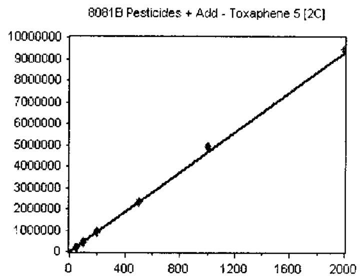
AVE RF **189156.900** RF RSD **11.88** AVE RT **8.99**

Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082:**

Toxaphene 5 [2C]

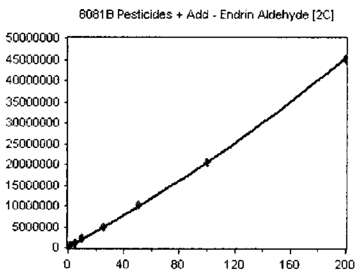


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	233185	4663.700	9.09
9H23034-CALO	100	452209	4522.090	9.09
9H23034-CALP	200	895397	4476.985	9.09
9H23034-CALQ	500	2340668	4681.336	9.09
9H23034-CALR	1000	4900430	4900.430	9.09
9H23034-CALS	2000	9435236	4717.618	9.09

AVE RF **4660.360** RF RSD **3.24** AVE RT **9.09**

Endrin Aldehyde [2C]

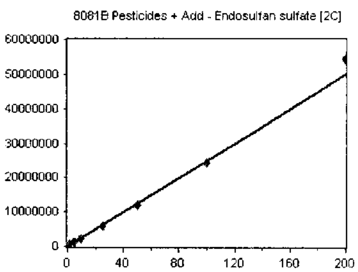


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	348624	348624.000	9.10
9H23034-CAL2	2	477694	238847.000	9.10
9H23034-CAL3	5	1045869	209173.800	9.10
9H23034-CAL4	10	2125028	212502.800	9.10
9H23034-CAL5	25	4848504	193940.200	9.10
9H23034-CAL6	50	020903E+07	204180.600	9.10
9H23034-CAL7	100	050274E+07	205027.400	9.10
9H23034-CAL8	200	508454E+07	225422.700	9.10

AVE RF **229714.800** RF RSD **21.77** AVE RT **9.10**

Endosulfan sulfate [2C]

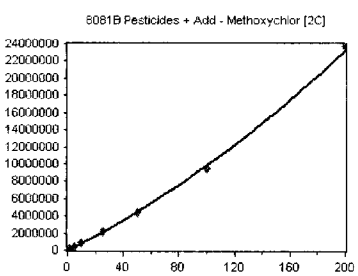


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	265797	265797.000	9.29
9H23034-CAL2	2	498767	249383.500	9.29
9H23034-CAL3	5	1175908	235181.600	9.29
9H23034-CAL4	10	2424584	242458.400	9.29
9H23034-CAL5	25	5978906	239156.200	9.29
9H23034-CAL6	50	214929E+07	242985.800	9.29
9H23034-CAL7	100	447732E+07	244773.200	9.29
9H23034-CAL8	200	459279E+07	272964.000	9.29

AVE RF **249087.500** RF RSD **5.35** AVE RT **9.29**

Methoxychlor [2C]

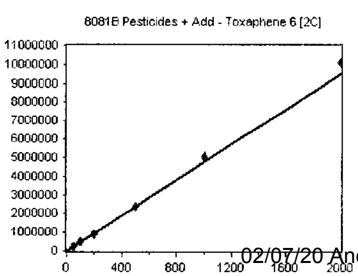


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	95155	95155.000	9.47
9H23034-CAL2	2	178074	89037.000	9.47
9H23034-CAL3	5	413802	82760.400	9.47
9H23034-CAL4	10	883069	88306.900	9.47
9H23034-CAL5	25	2166659	86666.360	9.46
9H23034-CAL6	50	4346199	86923.980	9.46
9H23034-CAL7	100	9444987	94449.870	9.46
9H23034-CAL8	200	:.37141E+07	118570.500	9.46

AVE RF **92733.750** RF RSD **12.09** AVE RT **9.46**

Toxaphene 6 [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	230922	4618.440	9.47
9H23034-CALO	100	452485	4524.850	9.47
9H23034-CALP	200	905244	4526.220	9.47
9H23034-CALQ	500	2369795	4739.590	9.47
9H23034-CALR	1000	5046645	5046.645	9.47
9H23034-CALS	2000	009095E+07	5045.475	9.47

AVE RF **4750.203** RF RSD **5.10** AVE RT **9.47**

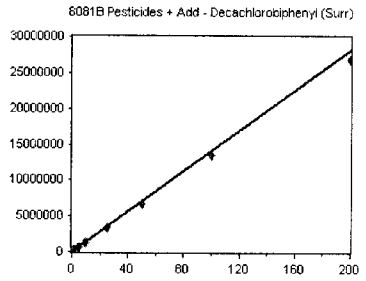
Element Calibration Review Sheet

Calibration ID: **A9H2608** Instrument: **DUALECD5** Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19082**

Decachlorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**

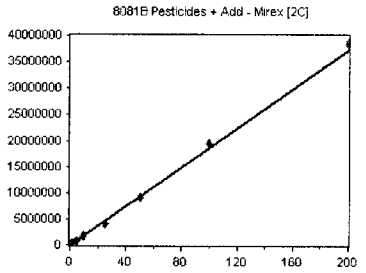


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	163865	163865.000	9.59
9H23034-CAL2	2	309904	154952.000	9.59
9H23034-CAL3	5	701050	140210.000	9.59
9H23034-CAL4	10	1335468	133546.800	9.59
9H23034-CAL5	25	3342634	133705.400	9.59
9H23034-CAL6	50	6678990	133579.800	9.59
9H23034-CAL7	100	.34054E+07	134054.000	9.59
9H23034-CAL8	200	697523E+07	134876.200	9.59

AVE RF **141098.600** RF RSD **8.33** AVE RT **9.59**

Mirex [2C]

Curve Fit: **AVERAGE RF**

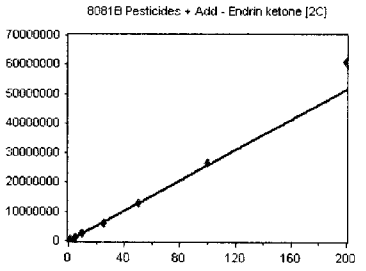


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	209783	209783.000	9.68
9H23034-CALA	2	388199	194099.500	9.68
9H23034-CALB	5	895523	179104.600	9.68
9H23034-CALC	10	1722960	172296.000	9.68
9H23034-CALD	25	4138115	165524.600	9.68
9H23034-CALE	50	9100959	182019.200	9.68
9H23034-CALF	100	.93632E+07	193632.000	9.68
9H23034-CALG	200	842553E+07	192127.600	9.68

AVE RF **186073.300** RF RSD **7.59** AVE RT **9.68**

Endrin ketone [2C]

Curve Fit: **AVERAGE RF**

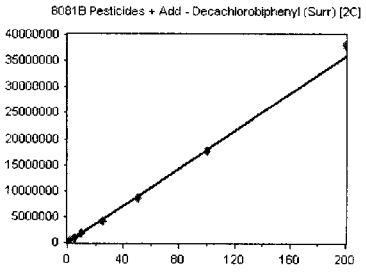


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	255763	255763.000	9.69
9H23034-CAL2	2	493110	246555.000	9.69
9H23034-CAL3	5	1205004	241000.800	9.69
9H23034-CAL4	10	2496985	249698.500	9.69
9H23034-CAL5	25	5893691	235747.600	9.69
9H23034-CAL6	50	295457E+07	259091.400	9.69
9H23034-CAL7	100	563656E+07	266365.600	9.69
9H23034-CAL8	200	086138E+07	304306.900	9.69

AVE RF **257316.100** RF RSD **8.31** AVE RT **9.69**

Decachlorobiphenyl (Surr) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	191572	191572.000	10.54
9H23034-CAL2	2	390006	195003.000	10.54
9H23034-CAL3	5	870921	174184.200	10.54
9H23034-CAL4	10	1678728	167872.800	10.54
9H23034-CAL5	25	4163229	166529.200	10.54
9H23034-CAL6	50	8730692	174613.800	10.54
9H23034-CAL7	100	778407E+07	177840.700	10.54
9H23034-CAL8	200	809778E+07	190488.900	10.54

AVE RF **179763.100** RF RSD **6.18** AVE RT **10.54**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9H23034

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 Pesticides + Adds
608.3 Additionals - DEVELOPMENT
608.3 Chlordane - DEVELOPMENT
608.3 PCBs - DEVELOPMENT
608.3 Pesticides - DEVELOPMENT
608.3 Pesticides + Adds - DEVELOPMENT
608.3 Toxaphene - DEVELOPMENT
8081B Pesticides
8081B 2,4+4,4-DDx Only (+Add)
8081B Chlordane
8081B DDT Only
8081B Pesticides + Add
8081B RSET FW Sed (+Add) (2016)
8081B RSET Sediment List (+Add)
8081B RSET Sediment Marine (2016) (+Add)
8081B Toxaphene

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9H23034

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
9H23034-ICB1	Initial Cal Blank	Water	A19H348		8/23/2019 1:33:00PM
9H23034-CAL1	Cal Standard	Water	A19E245	"	8/23/2019 1:51:00PM
9H23034-CAL2	Cal Standard	Water	A19E246	"	8/23/2019 2:08:00PM
9H23034-CAL3	Cal Standard	Water	A19E247	"	8/23/2019 2:25:00PM
9H23034-CAL4	Cal Standard	Water	A19E249	"	8/23/2019 2:42:00PM
9H23034-CAL5	Cal Standard	Water	A19E250	"	8/23/2019 3:00:00PM
9H23034-CAL6	Cal Standard	Water	A19H383	"	8/23/2019 3:17:00PM
9H23034-CAL7	Cal Standard	Water	A19H384	"	8/23/2019 3:34:00PM
9H23034-CAL8	Cal Standard	Water	A19E244	"	8/23/2019 3:52:00PM
9H23034-ICV1	Initial Cal Check	Water	A19E106	"	8/23/2019 4:26:00PM
9H23034-CAL9	Cal Standard	Water	A19E272	"	8/23/2019 4:44:00PM
9H23034-CALA	Cal Standard	Water	A19E273	"	8/23/2019 5:01:00PM
9H23034-CALB	Cal Standard	Water	A19E274	"	8/23/2019 5:18:00PM
9H23034-CALC	Cal Standard	Water	A19E275	"	8/23/2019 5:35:00PM
9H23034-CALD	Cal Standard	Water	A19E276	"	8/23/2019 5:53:00PM
9H23034-CALE	Cal Standard	Water	A19E154	"	8/23/2019 6:10:00PM
9H23034-CALF	Cal Standard	Water	A19E155	"	8/23/2019 6:27:00PM
9H23034-CALG	Cal Standard	Water	A19E271	"	8/23/2019 6:45:00PM
9H23034-ICV2	Initial Cal Check	Water	A19E043	"	8/23/2019 7:19:00PM
9H23034-CALH	Cal Standard	Water	A19F232	"	8/23/2019 7:36:00PM
9H23034-CALI	Cal Standard	Water	A19F233	"	8/23/2019 7:54:00PM
9H23034-CALJ	Cal Standard	Water	A19F234	"	8/23/2019 8:11:00PM
9H23034-CALK	Cal Standard	Water	A19F235	"	8/23/2019 8:28:00PM
9H23034-CALL	Cal Standard	Water	A19F236	"	8/23/2019 8:45:00PM
9H23034-CALM	Cal Standard	Water	A19F231	"	8/23/2019 9:02:00PM
9H23034-ICV3	Initial Cal Check	Water	A19E108	"	8/23/2019 9:37:00PM
9H23034-CALN	Cal Standard	Water	A19D122	"	8/23/2019 9:54:00PM
9H23034-CALO	Cal Standard	Water	A19D123	"	8/23/2019 10:11:00PM
9H23034-CALP	Cal Standard	Water	A19D124	"	8/23/2019 10:28:00PM
9H23034-CALQ	Cal Standard	Water	A19D125	"	8/23/2019 10:45:00PM
9H23034-CALR	Cal Standard	Water	A19D126	"	8/23/2019 11:03:00PM
9H23034-CALS	Cal Standard	Water	A19D121	"	8/23/2019 11:20:00PM
9H23034-ICV4	Initial Cal Check	Water	A19D127	"	8/23/2019 11:54:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A9H2608** Instrument: **DualECD5F**

1311/8081B TCLP Pest Reg L Sequence: **9H23034** Matrix: **Water**

9H23034-CAL1	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
9H23034-CAL2	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
9H23034-CAL3	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
9H23034-CAL4	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
9H23034-CAL5	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9H23034

9H23034-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALF	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALG	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALH	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALI	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALJ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALK	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALL	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALM	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALN	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALO	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALP	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALQ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALR	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALS	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: 9H23034

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).

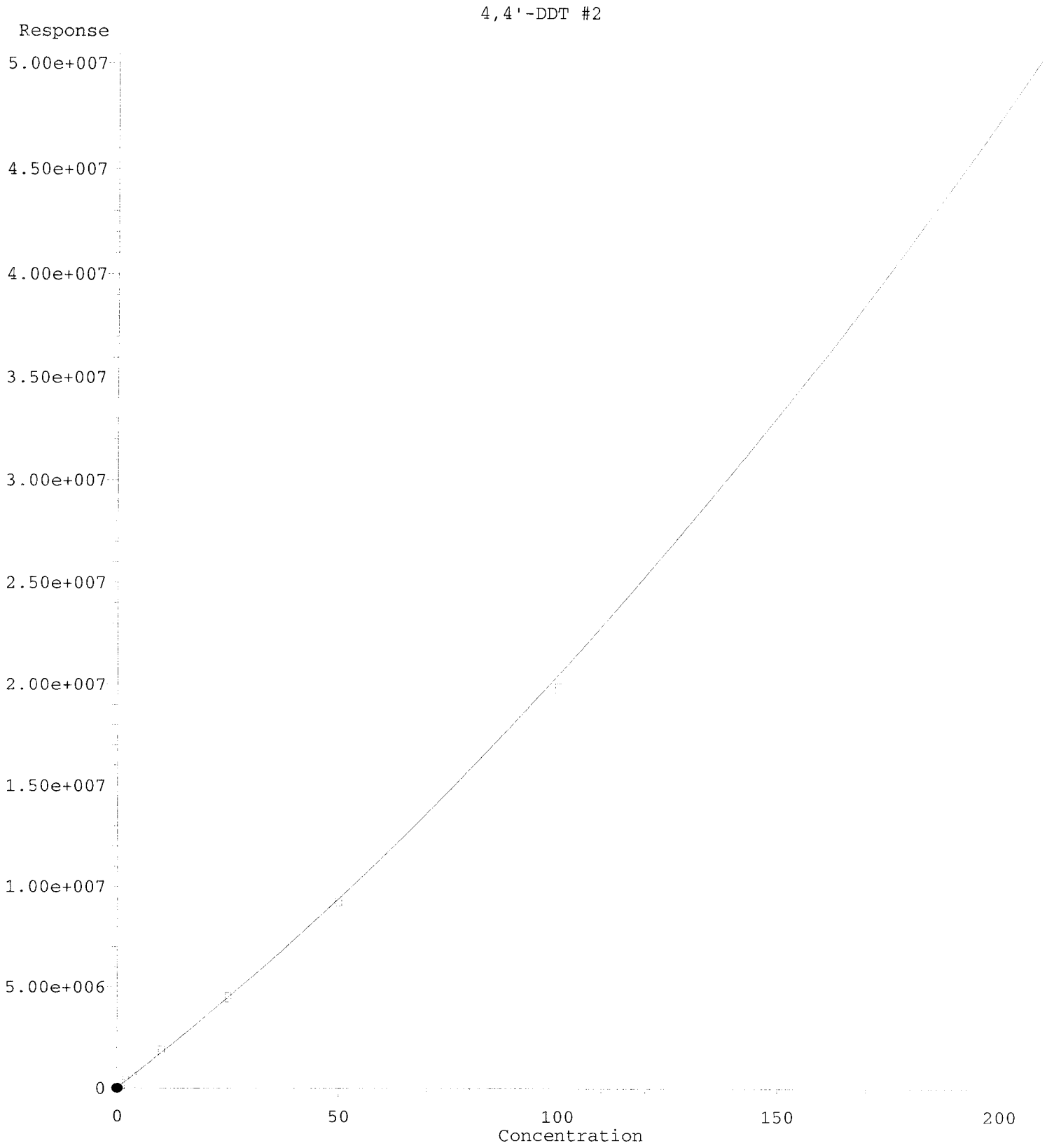
ICV RECOVERIES

Calibration: **A9H2608** Instrument: **DualECD5F**

608 Pesticides (SW) Full List Sequence: **9H23034** Matrix: **Water**

9H23034-ICV1	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
9H23034-ICV2	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
9H23034-ICV3	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
9H23034-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.

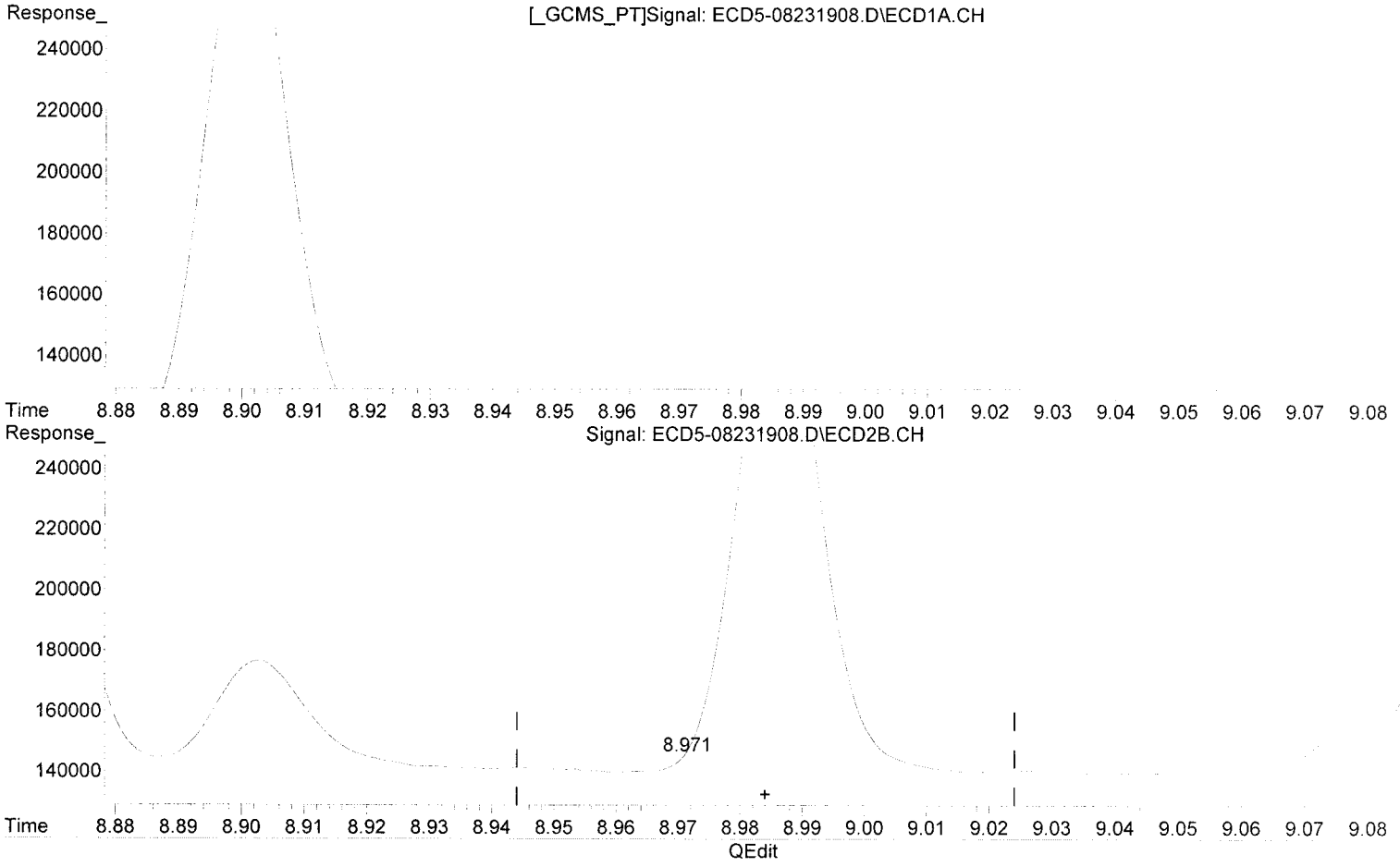


R = 3.30e+002 A*A + 1.71e+005 A + 6.57e+003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_190823.M
Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 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: Aug 26 11:59:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.205min 0.953 ng/mL

response 113897

MJB 8/26/19

(17) 4,4'-DDT #2

8.971min -0.006 ng/mL m

response 5621

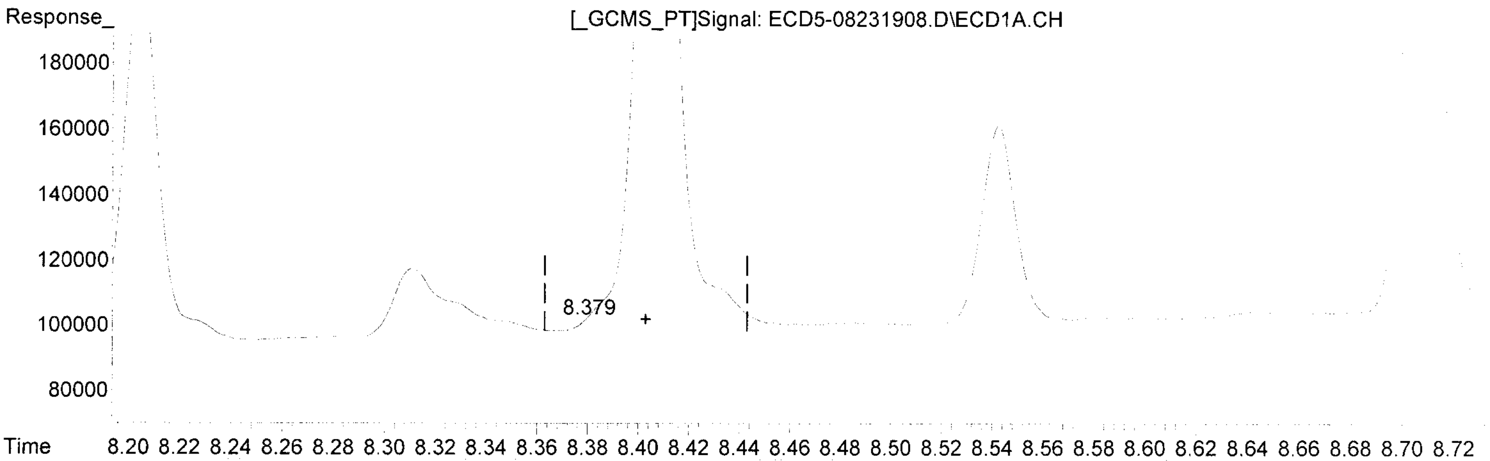
(+) = Expected Retention Time

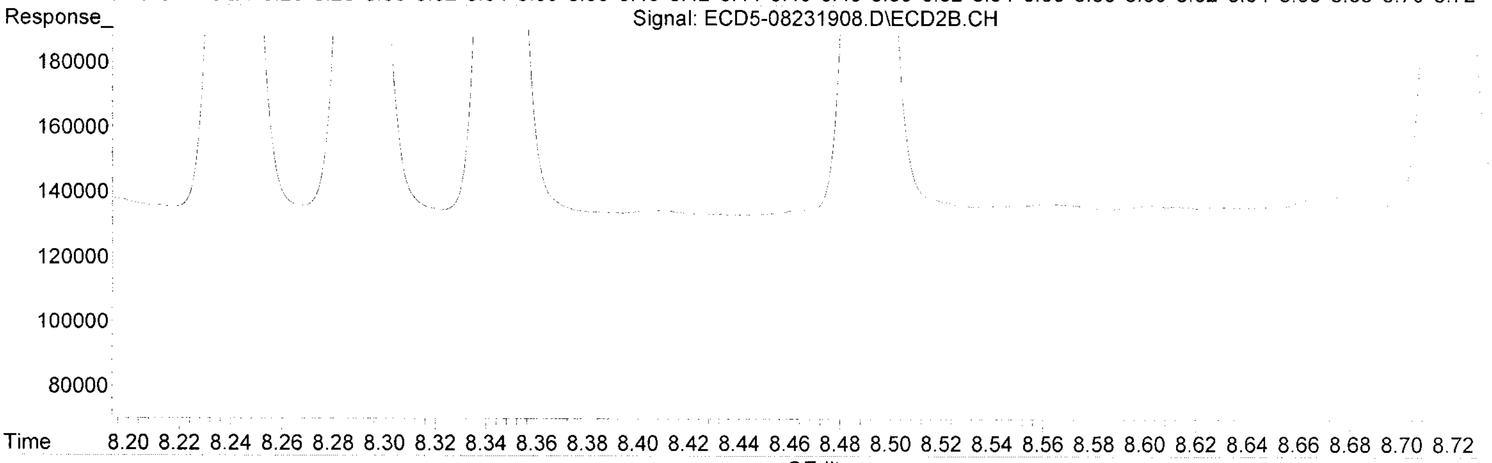
R = 8.05e+001 A*A + 1.16e+005 A + 1.19e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w/(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_190823.M
Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

```
Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 23 Aug 2019  13:51
Operator  : MJB
Sample    : 9H23034-CAL1
Misc      : A19E245, AB 1 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: Aug 26 11:59:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title  : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped
```





QEdit

(18) Endrin Aldehyde

8.379min -0.993 ng/mL (m)

response 3543

MJB 8/26/19

(18) Endrin Aldehyde #2

9.101min 1.058 ng/mL

response 348624

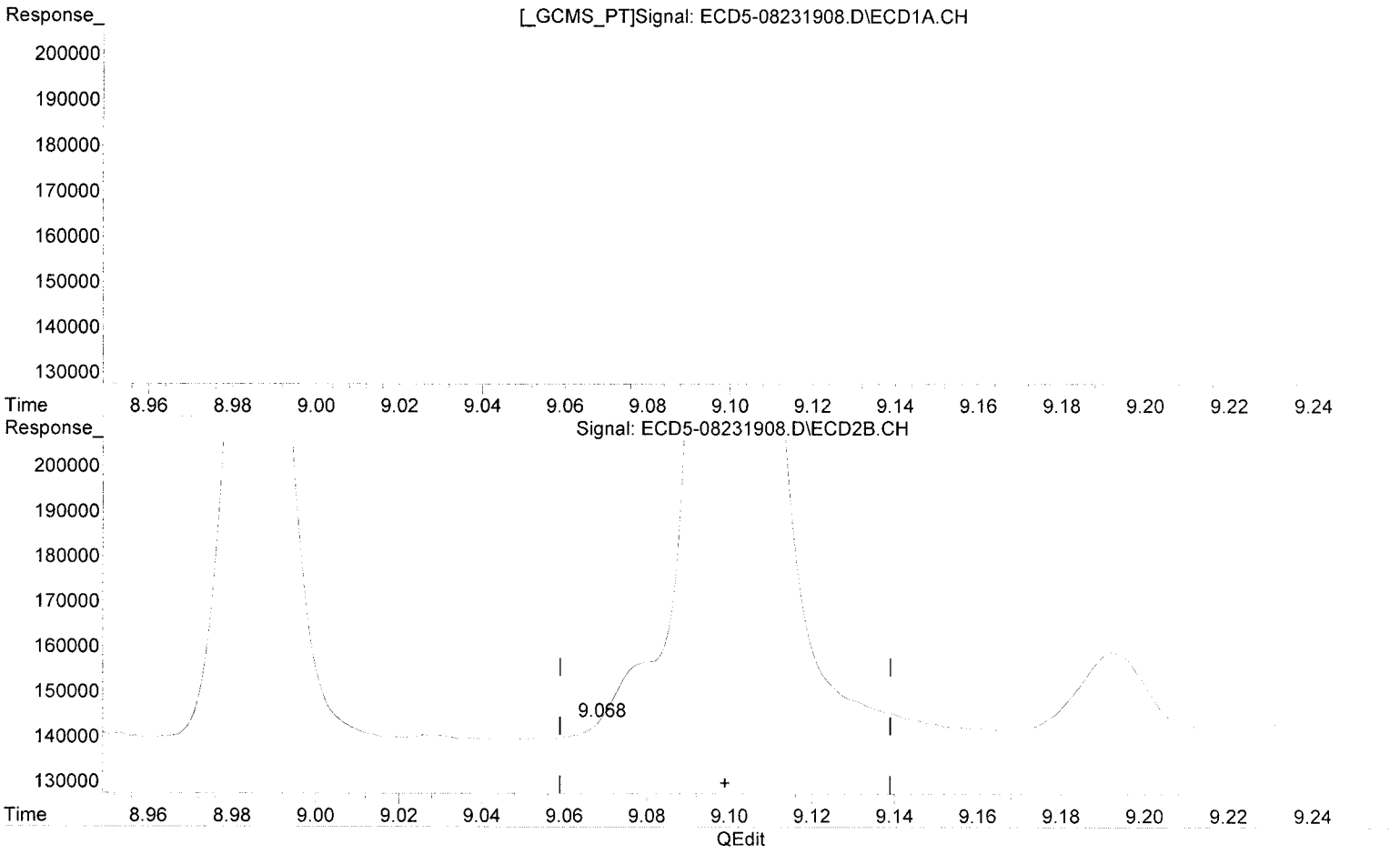
(+) = Expected Retention Time

R = 2.18e+002 A*A + 1.83e+005 A + 1.55e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_190823.M
Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 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: Aug 26 11:59:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(18) Endrin Aldehyde

8.379min -0.993 ng/mL m

response 3543

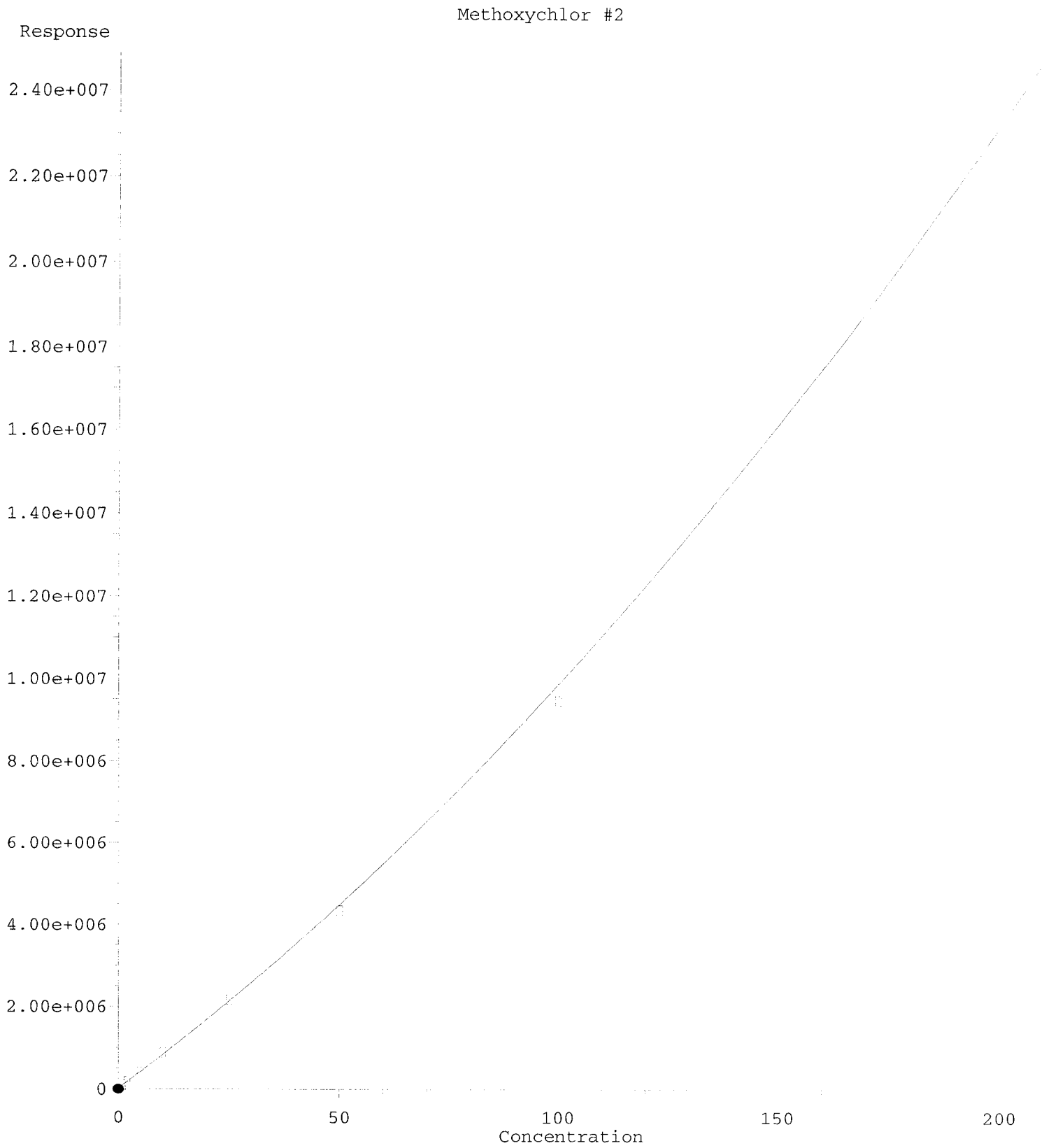
MJB 8/26/19

(18) Endrin Aldehyde #2

9.068min -0.831 ng/mL m

response 3374

(+) = Expected Retention Time

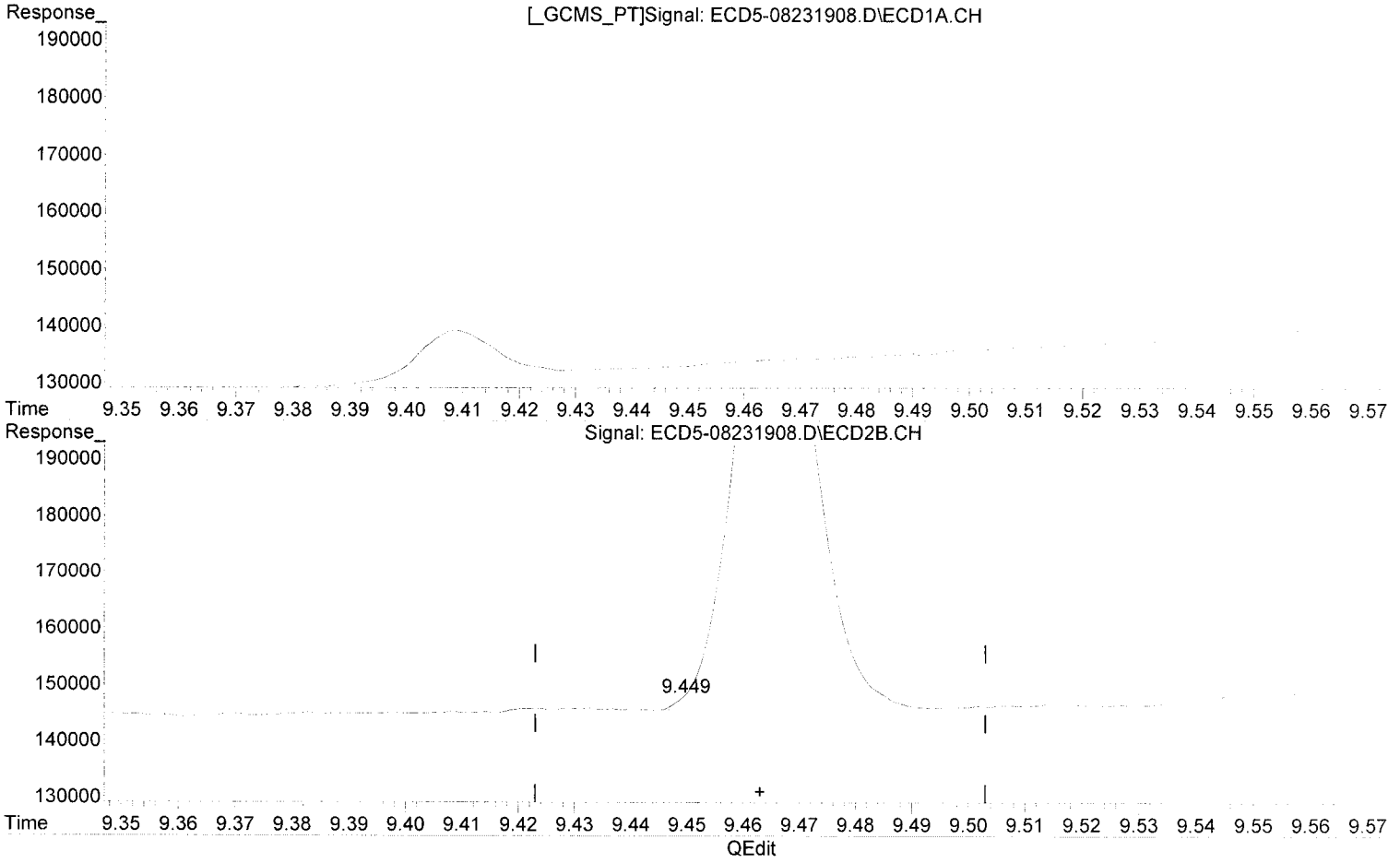


R = 1.78e+002 A*A + 8.05e+004 A + 1.50e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_190823.M
Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 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: Aug 26 11:59:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(20) Methoxychlor

8.543min 1.019 ng/mL

response 59659

MJB 8/26/19

(20) Methoxychlor #2

9.449min -0.161 ng/mL (m)

response 2070

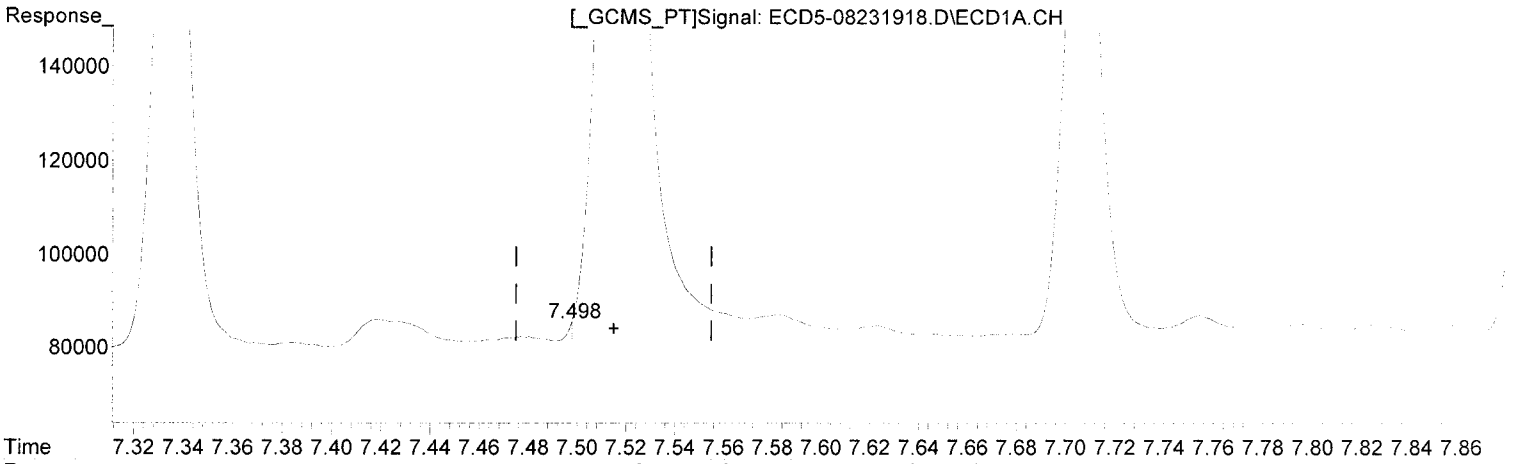
(+) = Expected Retention Time

R = -2.05e+000 A*A + 1.79e+005 A + 5.67e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTFEST_190823.M
Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:44
Operator : MJB
Sample : 9H23034-CAL9
Misc : A19E272, 9-42 1 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: Aug 26 12:02:15 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.498min 87346.675 ng/mL (m)

response 4608

Q-011

MJB 8/26/19

(27) trans-Nonachlor #2

8.195min 1.015 ng/mL

response 306202

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:33
Operator : MJB
Sample : 9H23034-ICB1
Misc : A19H348
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: Aug 26 15:02:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

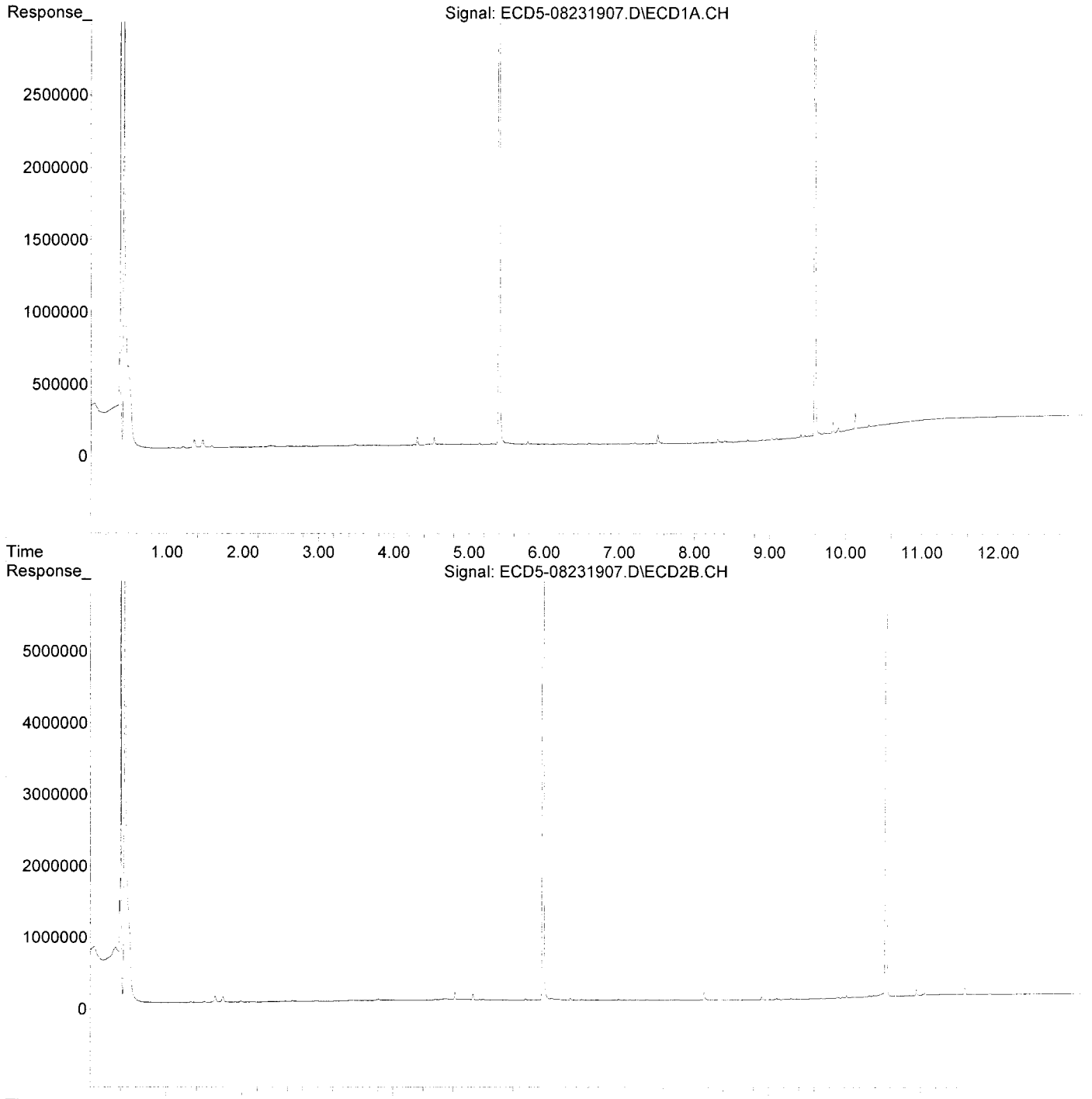
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.398	5.992	15096765	27637017	90.958	94.206	
22) S	DCBP (S)	9.594	10.543	12462090	16576085	88.322	92.211	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.253f	0.000	6973	0	0.035	N.D.	#
4)	b-BHC	0.000	7.003f	0	10802	N.D.	0.068	#
5)	Heptachlor	6.596f	0.000	8260	0	0.046	N.D.	#
6)	d-BHC	6.451	7.234	5541	7061	0.028	0.020	
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	7.318	0.000	2356	0	0.013	N.D.	#
9)	trans-Chl...	0.000	8.140	0	104395	N.D.	0.333	#
10)	cis-Chlor...	7.514	0.000	58774	0	0.323	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...	8.119	0.000	3735	0	0.026	N.D.	#
17)	4,4'-DDT	8.185	0.000	4049	0	0.034	N.D.	#
18)	Endrin Al...	8.408	9.102	14375	14948	BelowCal	BelowCal	
19)	Endosulfa...	8.709	9.292	12123	14809	0.078	0.059	
20)	Methoxychlor	8.542	0.000	4975	0	0.085	N.D.	#
21)	Endrin Ke...	8.903	9.690	4830	7943	0.029	0.031	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.779	0.000	21656	0	0.123	N.D.	#
25)	Oxychlordane	0.000	0.000	0	0	N.D.	N.D.	
26)	2,4'-DDE	7.318	8.140	2356	104395	0.018	0.492	#
27)	trans-Non...	7.514	0.000	58774	0	0.012	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	8.652	9.690	4544	7943	0.036	0.043	
32)	Chlordane...	0.000	8.140	0	104395	N.D.	2.885	#
33)	Chlordane...	7.514	0.000	58774	0	2.345	N.D.	#
34)	Chlordane...	0.000	8.904	0	37260	N.D.	4.156	#
35)	Chlordane...	3.445	0.000	6677	0	NoCal	N.D.	
36)	Toxaphene...	7.514	0.000	58774	0	65.621	N.D.	#
37)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
38)	Toxaphene...	8.119	0.000	3735	0	1.109	N.D.	#
39)	Toxaphene...	8.312f	8.904	24186	37260	7.464	4.462	#
40)	Toxaphene...	8.542f	9.102	4975	14948	2.075	3.207	#
41)	Toxaphene...	8.652	0.000	4544	0	1.436	N.D.	#
42)	Toxaphene...	3.445	0.000	6677	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:33
Operator : MJB
Sample : 9H23034-ICB1
Misc : A19H348
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: Aug 26 15:02:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:09
Operator : MJB
Sample : 9H23034-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: Aug 26 15:02:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Clean

MJB 8/26/19

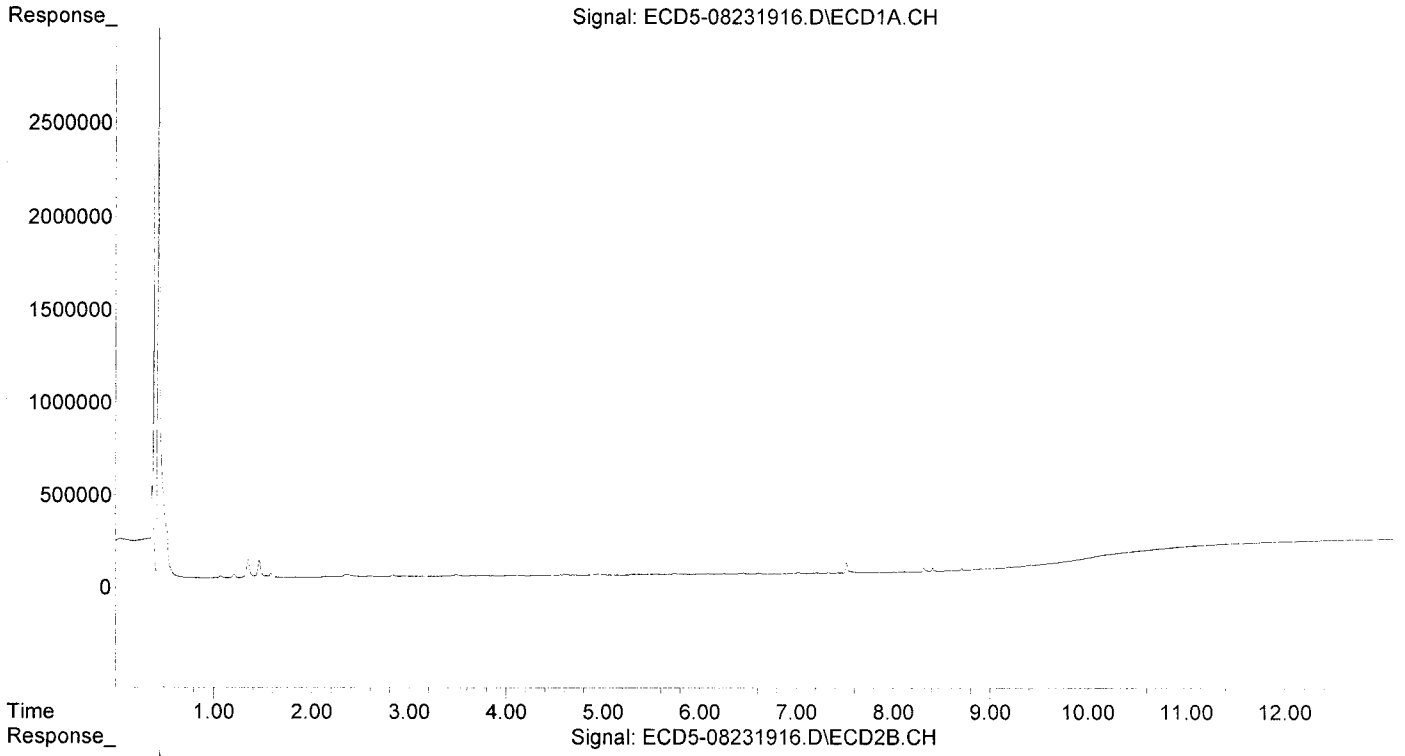
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.984	0	7755	N.D.	0.026	#
22)	S	DCBP (S)	9.595	10.540	5550	5660	0.039	0.031	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.249f	0.000	4370	0	0.022	N.D.	#
4)		b-BHC	0.000	7.003f	0	7432	N.D.	0.047	#
5)		Heptachlor	6.602f	0.000	4945	0	0.027	N.D.	#
6)		d-BHC	6.450	7.233	6336	9226	0.032	0.026	
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	8.142	0	99412	N.D.	0.317	#
10)		cis-Chlor...	7.516	0.000	56525	0	0.310	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	8.007	0.000	1177	0	0.007	N.D.	#
16)		Endosulfa...	8.117	8.865	3391	6280	0.024	0.027	
17)		4,4'-DDT	8.226f	0.000	1460	0	0.012	N.D.	#
18)		Endrin Al...	8.407	9.100	21929	28697	BelowCal	BelowCal	
19)		Endosulfa...	8.707	9.291	12087	18257	0.078	0.073	
20)		Methoxychlor	8.544	0.000	4198	0	0.072	N.D.	#
21)		Endrin Ke...	8.901	9.686	4385	18734	0.026	0.073	#
23)		Hexachlor...	0.000	3.689	0	2782	N.D.	0.007	#
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	0.000	8.142	0	99412	N.D. Q ok	0.469	#
27)		trans-Non...	7.516	0.000	56525	0 ~~87346.385~~		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...	8.007f	0.000	1177	0	0.006	N.D.	#
31)		Mirex	0.000	9.686	0	18734	N.D.	0.101	#
32)		Chlordane...	0.000	8.142	0	99412	N.D.	2.747	#
33)		Chlordane...	7.516	0.000	56525	0	2.255	N.D.	#
34)		Chlordane...	8.065	8.904	2775	39801	0.480	4.439	#
35)		Chlordane...	3.447	0.000	4520	0	NoCal	N.D.	
36)		Toxaphene...	7.516	0.000	56525	0	63.111	N.D.	#
37)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
38)		Toxaphene...	8.117	8.865	3391	6280	1.007	1.239	
39)		Toxaphene...	8.314f	8.904	23317	39801	7.196	4.767	
40)		Toxaphene...	8.583	9.100	2463	28697	1.028	6.158	#
41)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)		Toxaphene...	3.447	0.000	4520	0	NoCal	N.D.	

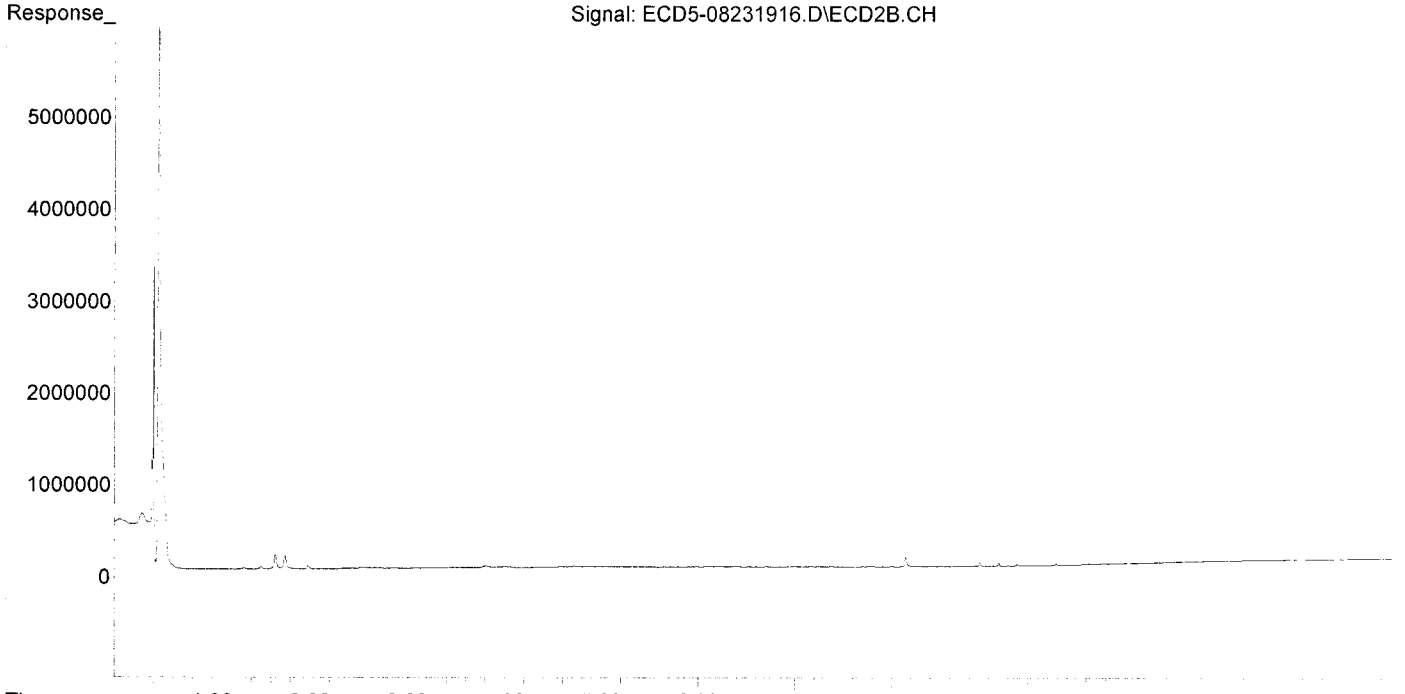
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:09
Operator : MJB
Sample : 9H23034-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: Aug 26 15:02:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:26
Operator : MJB
Sample : 9H23034-ICV1
Misc : A19E106, AB 50 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: Aug 26 15:02:56 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

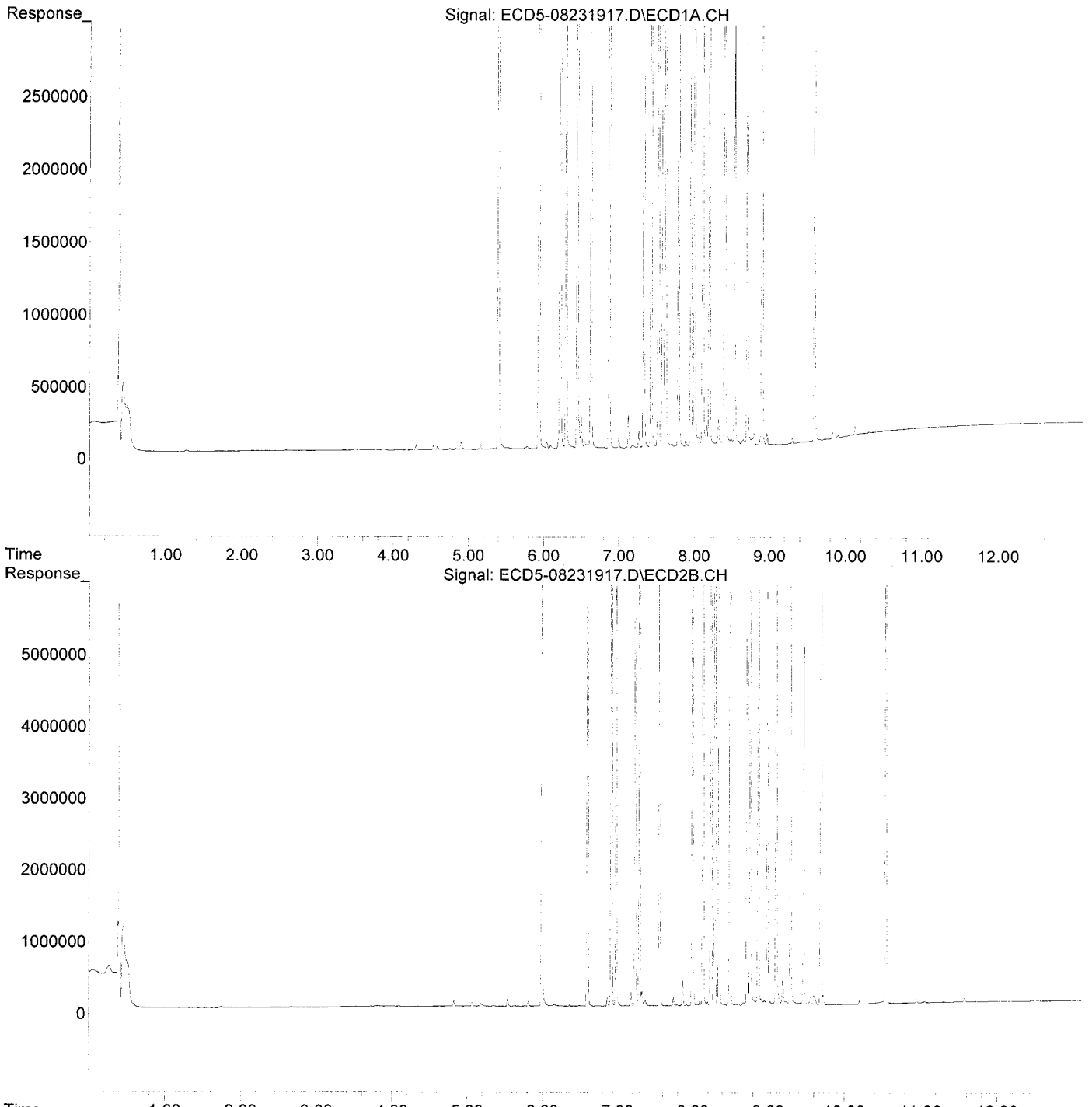
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.395	5.989	8209928	14467910	49.465	49.317	
22)	S	DCBP (S)	9.589	10.539	6928381	8667079	49.103	48.214	
		Target Compounds							
2)		a-BHC	5.935	6.596	11712240	21507667	51.072	52.414	
3)		g-BHC	6.218	6.913	10370774	18809716	51.397	52.732	
4)		b-BHC	6.296	6.977	4410789	7929442	48.801	50.102	
5)		Heptachlor	6.629	7.288	9286546	15998647	51.223	52.287	
6)		d-BHC	6.446	7.231	10162400	18561571	51.667	52.632	
7)		Aldrin	6.870	7.553	10415223	17743229	52.750	53.867	
8)		Heptachlo...	7.330	7.991	9218950	15454788	50.054	51.371	
9)		trans-Chl...	7.427	8.130	9449748	15882363	51.110	50.690	
10)		cis-Chlor...	7.523	8.238	8891439	15040020	48.835	51.640	
11)		Endosulfa...	7.620	8.288	8454858	14042285	49.682	51.030	
12)		4,4'-DDE	7.583	8.343	9669653	16358741	51.290	52.655	
13)		Dieldrin	7.792	8.489	9566646	15751562	49.832	51.789	
14)		Endrin	7.957	8.715	7744641	11999227	52.675	53.135	
15)		4,4'-DDD	8.003	8.758	8044313	14118585	51.192	55.105	
16)		Endosulfa...	8.114	8.862	7639079	12307624	53.193	53.371	
17)		4,4'-DDT	8.201	8.984	6427421	10243965	53.759	54.092	
18)		Endrin Al...	8.403	9.098	7471981	12138603	60.652	61.144	
19)		Endosulfa...	8.704	9.289	8022310	12945664	51.764	51.972	
20)		Methoxychlor	8.537	9.463	3243218	5107379	55.369	56.272	
21)		Endrin Ke...	8.898	9.687	8897553	13958232	53.356	54.245	
23)		Hexachlor...	0.000	3.713f	0	6424	N.D.	0.017	#
24)		Hexachlor...	5.778	6.482f	19713	11218	0.112	0.036	#
25)		Oxychlordane	7.266	7.916	116203	18640	0.706	0.068	#
26)		2,4'-DDE	7.330	8.130	9218950	15882363	71.876	74.868	
27)		trans-Non...	7.523	8.193	8891439	52587	49.340	0.174	#
28)		2,4'-DDD	7.704	8.489	22276	15751562	0.195	83.402	#
29)		2,4'-DDT	7.889	8.715	44366	11999227	0.404	67.283	#
30)		cis-Nonac...	8.003	8.758	8044313	14118585	38.746	42.089	
31)		Mirex	8.653	9.687	40409	13958232	0.322	75.015	#
32)		Chlordane...	7.427	8.130	9449748	15882363	479.936	438.926	
33)		Chlordane...	7.523	8.238	8891439	15040020	354.745	495.323	
34)		Chlordane...	0.000	8.899	0	79876	N.D.	8.909	#
35)		Chlordane...	3.446	0.000	5075	0	NoCal	N.D.	
36)		Toxaphene...	7.523f	8.489f	8891439	15751562	9927.388	6002.292	
37)		Toxaphene...	7.792	0.000	9566646	0	5923.845	N.D.	#
38)		Toxaphene...	8.114	8.862	7639079	12307624	2268.479	2428.346	
39)		Toxaphene...	8.324f	8.899	184731	79876	57.013	9.566	#
40)		Toxaphene...	8.537f	9.098	3243218	12138603	1352.952	2604.650	#
41)		Toxaphene...	8.653	9.463	40409	5107379	12.769	1075.192	#
42)		Toxaphene...	3.446	0.000	5075	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:26
Operator : MJB
Sample : 9H23034-ICV1
Misc : A19E106, AB 50 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: Aug 26 15:02:56 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231926.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:02
Operator : MJB
Sample : 9H23034-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: Aug 26 15:03:03 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

clean
MJB 8/26/19

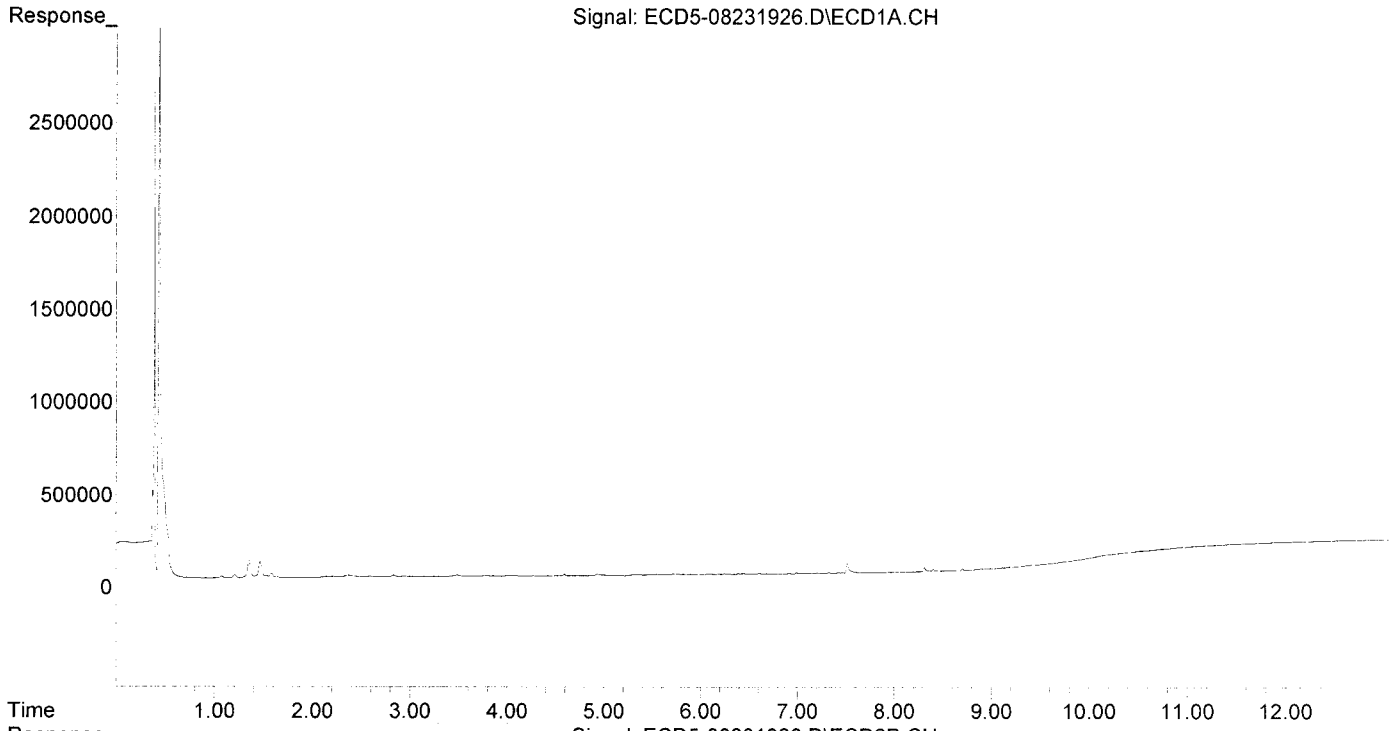
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.979	0	6612	N.D.	0.023	#
22)	S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.246f	0.000	5266	0	0.026	N.D.	#
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	6.606f	0.000	2965	0	0.016	N.D.	#
6)		d-BHC	6.448	7.230	6262	8744	0.032	0.025	
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	8.141	0	95737	N.D.	0.306	#
10)		cis-Chlor...	7.516	0.000	51171	0	0.281	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...	8.115	8.861	2908	5919	0.020	0.026	
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.404	9.098	11210	14199	BelowCal	BelowCal	
19)		Endosulfa...	8.705	9.288	9669	15528	0.062	0.062	
20)		Methoxychlor	8.535	0.000	2114	0	0.036	N.D.	#
21)		Endrin Ke...	8.899	9.685	4160	14028	0.025	0.055	#
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	0.000	8.141	0	95737	N.D. Q-pu	0.451	#
27)		trans-Non...	7.516	0.000	51171	0	~~87346.415~~	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	8.653	9.685	1197	14028	0.010	0.075	#
32)		Chlordane...	0.000	8.141	0	95737	N.D.	2.646	#
33)		Chlordane...	7.516	0.000	51171	0	2.042	N.D.	#
34)		Chlordane...	8.051	8.903	2776	42860	0.480	4.780	#
35)		Chlordane...	3.446	0.000	4206	0	NoCal	N.D.	
36)		Toxaphene...	7.516	0.000	51171	0	57.133	N.D.	#
37)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
38)		Toxaphene...	8.115	8.861	2908	5919	0.863	1.168	
39)		Toxaphene...	8.313f	8.903	23619	42860	7.290	5.133	
40)		Toxaphene...	8.535f	9.098	2114	14199	0.882	3.047	#
41)		Toxaphene...	8.653	0.000	1197	0	0.378	N.D.	#
42)		Toxaphene...	3.446	0.000	4206	0	NoCal	N.D.	

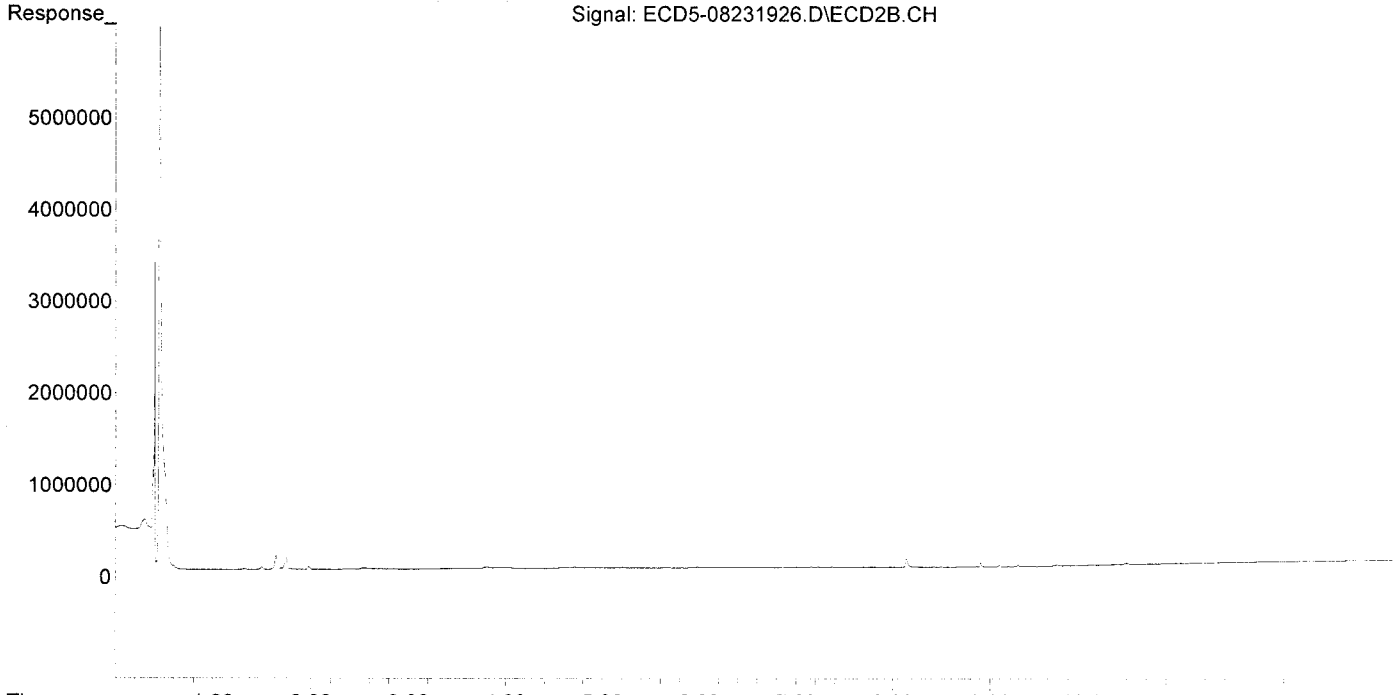
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231926.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:02
Operator : MJB
Sample : 9H23034-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: Aug 26 15:03:03 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:19
Operator : MJB
Sample : 9H23034-ICV2
Misc : A19E043, 9-42 50 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: Aug 26 15:03:09 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

WP 8/26/19

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.367f	5.979	21795	7434	0.131	0.025	#
22)	S	DCBP (S)	9.593	0.000	5164	0	0.037	N.D.	#
		Target Compounds							
2)		a-BHC	5.944	0.000	7626	0	0.033	N.D.	#
3)		g-BHC	6.193f	6.950f	4309	4488	0.021	0.013	#
4)		b-BHC	6.276f	6.950f	4448	4488	0.049	0.028	#
5)		Heptachlor	6.631	7.288	13910	18612	0.077	0.061	
6)		d-BHC	6.450	7.231	4193	7280	0.021	0.021	
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	7.333	7.969f	6044730	30442	32.820	0.101	#
9)		trans-Chl...	7.428	8.122	135885	10152421	0.735	32.402	#
10)		cis-Chlor...	7.515	8.238	9079715	499411	49.869	1.715	#
11)		Endosulfa...	7.623	8.313f	100346	33305	0.590	0.121	#
12)		4,4'-DDE	7.585	8.350	33793	99515	0.179	0.320	#
13)		Dieldrin	7.801	8.494	35090	9221128	0.183	30.318	#
14)		Endrin	7.985f	8.719	9530740	8396212	64.823	37.180	#
15)		4,4'-DDD	7.985	8.758	9530740	16410440	60.651	64.050	
16)		Endosulfa...	0.000	8.903f	0	43832	N.D.	0.190	#
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.400	9.100	6045	8867	BelowCal	BelowCal	
19)		Endosulfa...	0.000	9.288	0	6758	N.D.	0.027	#
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.897	9.678	3909	8640754	0.023	33.580	#
23)		Hexachlor...	3.197	3.687	8657262	18235302	47.375	48.507	
24)		Hexachlor...	5.774	6.453	8419764	15057280	47.760	47.940	
25)		Oxychlordane	7.260	7.920	8060765	13729255	48.990	50.125	
26)		2,4'-DDE	7.333	8.122	6044730	10152421	47.128	47.858	
27)		trans-Non...	7.515	8.194	9079715	15314695	50.392	50.772	
28)		2,4'-DDD	7.704	8.494	5439144	9221128	47.659	48.824	
29)		2,4'-DDT	7.888	8.719	5329154	8396212	48.585	47.080	
30)		cis-Nonac...	7.985	8.758	9530740	16410440	45.906	48.921	
31)		Mirex	8.652	9.678	5900124	8640754	47.063	46.437	
32)		Chlordane...	7.428	8.122	135885	10152421	6.901	280.573	#
33)		Chlordane...	7.515	8.238	9079715	499411	362.257	16.447	#
34)		Chlordane...	0.000	8.903	0	43832	N.D.	4.889	#
35)		Chlordane...	3.444	3.433	15163	32758	NoCal	NoCal	
36)		Toxaphene...	7.515	8.494f	9079715	9221128	10137.600	3513.804	#
37)		Toxaphene...	7.801	0.000	35090	0	21.729	N.D.	#
38)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)		Toxaphene...	8.313f	8.903	24546	43832	7.576	5.249	
40)		Toxaphene...	0.000	9.100	0	8867	N.D.	1.903	#
41)		Toxaphene...	8.652	0.000	5900124	0	1864.424	N.D.	#
42)		Toxaphene...	3.444	3.433	15163	32758	NoCal	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

```
Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231927.D
Signal(s) : Signal #1: ECD1A.CH  Signal #2: ECD2B.CH
Acq On    : 23 Aug 2019  19:19
Operator  : MJB
Sample    : 9H23034-ICV2
Misc      : A19E043, 9-42 50 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: Aug 26 15:03:09 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title  : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped
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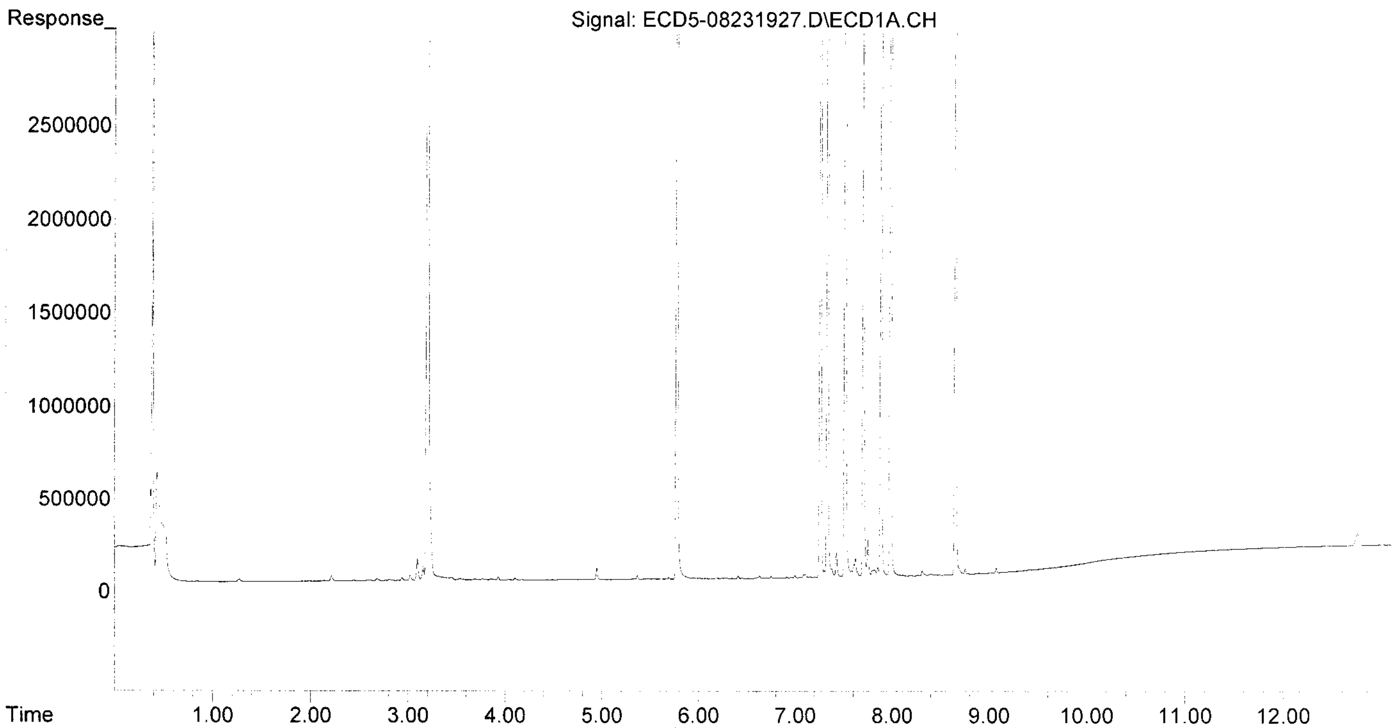
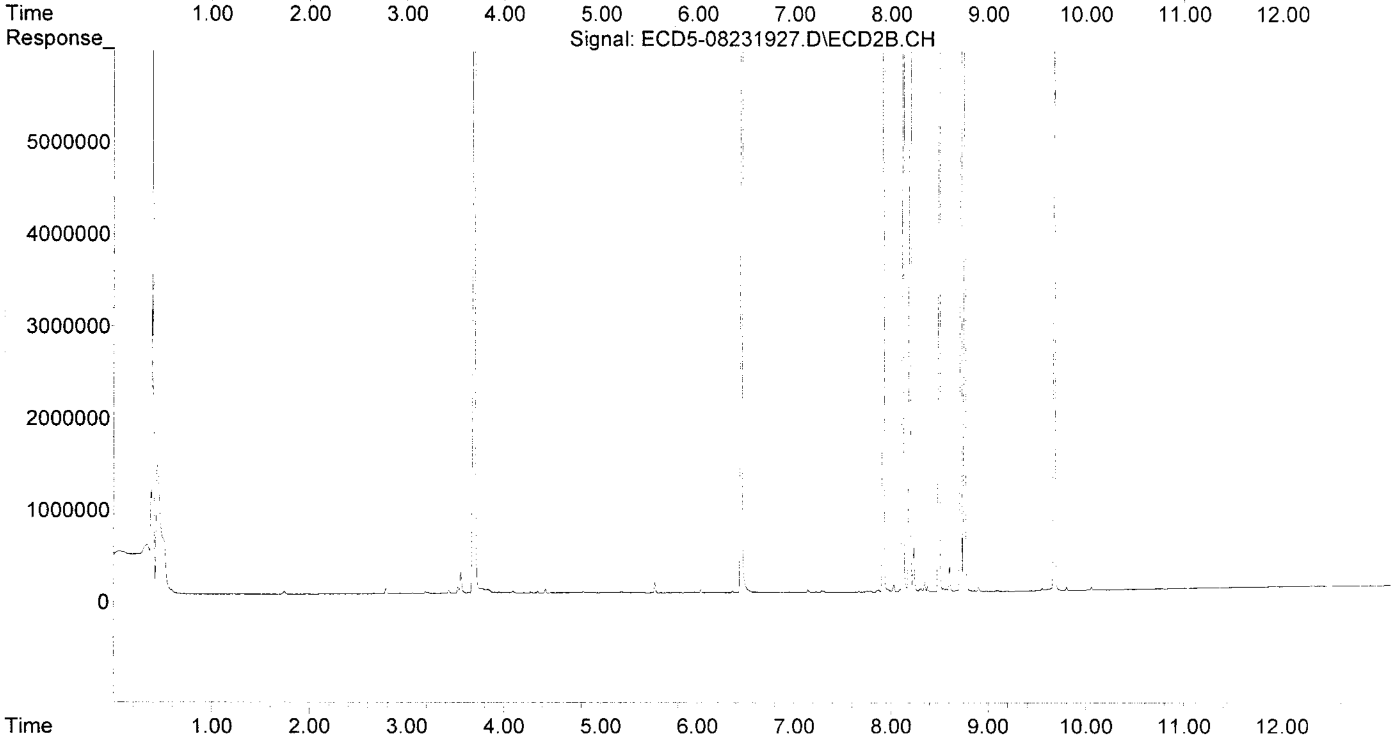




Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231934.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:20
Operator : MJB
Sample : 9H23034-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: Aug 26 15:03:15 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

clear MJB 8/26/19

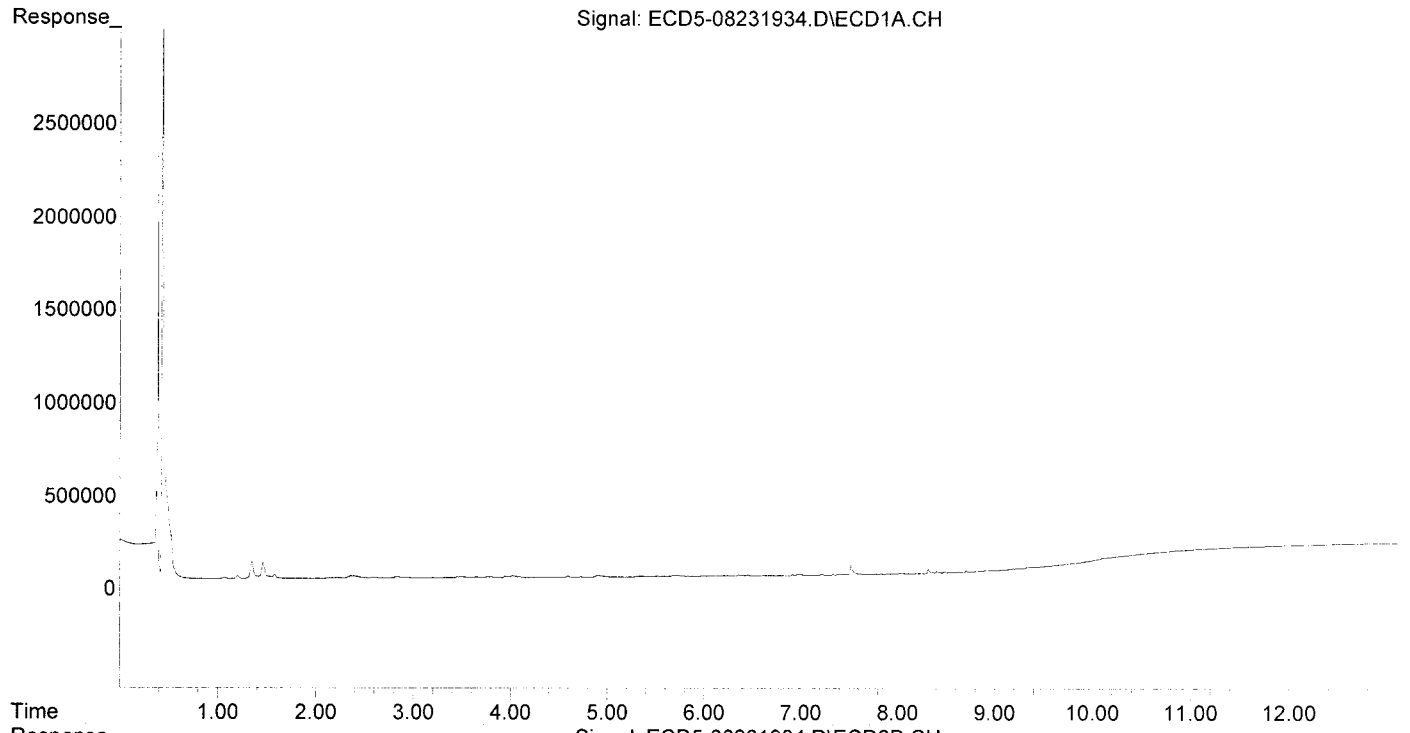
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	0.000	5.976	0	5923	N.D.	0.020	#
22) S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.207	0.000	3774	0	0.019	N.D.	#
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.609f	0.000	2731	0	0.015	N.D.	#
6)	d-BHC	6.450	7.231	5497	6832	0.028	0.019	
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	8.142	0	83130	N.D.	0.265	#
10)	cis-Chlor...	7.519	0.000	51396	0	0.282	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	8.023f	0.000	4578	0	0.029	N.D.	#
16)	Endosulfa...	8.116	8.861	1913	3871	0.013	0.017	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.405	9.098	8970	10610	BelowCal	BelowCal	
19)	Endosulfa...	8.706	9.288	7044	10525	0.045	0.042	
20)	Methoxychlor	8.536	0.000	1701	0	0.029	N.D.	#
21)	Endrin Ke...	8.919f	9.686	4032	9735	0.024	0.038	#
23)	Hexachlor...	0.000	3.679	0	2600	N.D.	0.007	#
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	0.000	8.142	0	83130	N.D. RDel	0.392	#
27)	trans-Non...	7.519	0.000	51396	0 ~~87346.414~~		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...	8.023f	0.000	4578	0	0.022	N.D.	#
31)	Mirex	0.000	9.686	0	9735	N.D.	0.052	#
32)	Chlordane...	0.000	8.142	0	83130	N.D.	2.297	#
33)	Chlordane...	7.519	0.000	51396	0	2.051	N.D.	#
34)	Chlordane...	0.000	8.904	0	38172	N.D.	4.258	#
35)	Chlordane...	3.449	0.000	3828	0	NoCal	N.D.	
36)	Toxaphene...	7.519	0.000	51396	0	57.384	N.D.	#
37)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
38)	Toxaphene...	8.116	8.861	1913	3871	0.568	0.764	
39)	Toxaphene...	8.316f	8.904	21302	38172	6.574	4.572	
40)	Toxaphene...	8.536f	9.098	1701	10610	0.709	2.277	#
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)	Toxaphene...	3.449	0.000	3828	0	NoCal	N.D.	

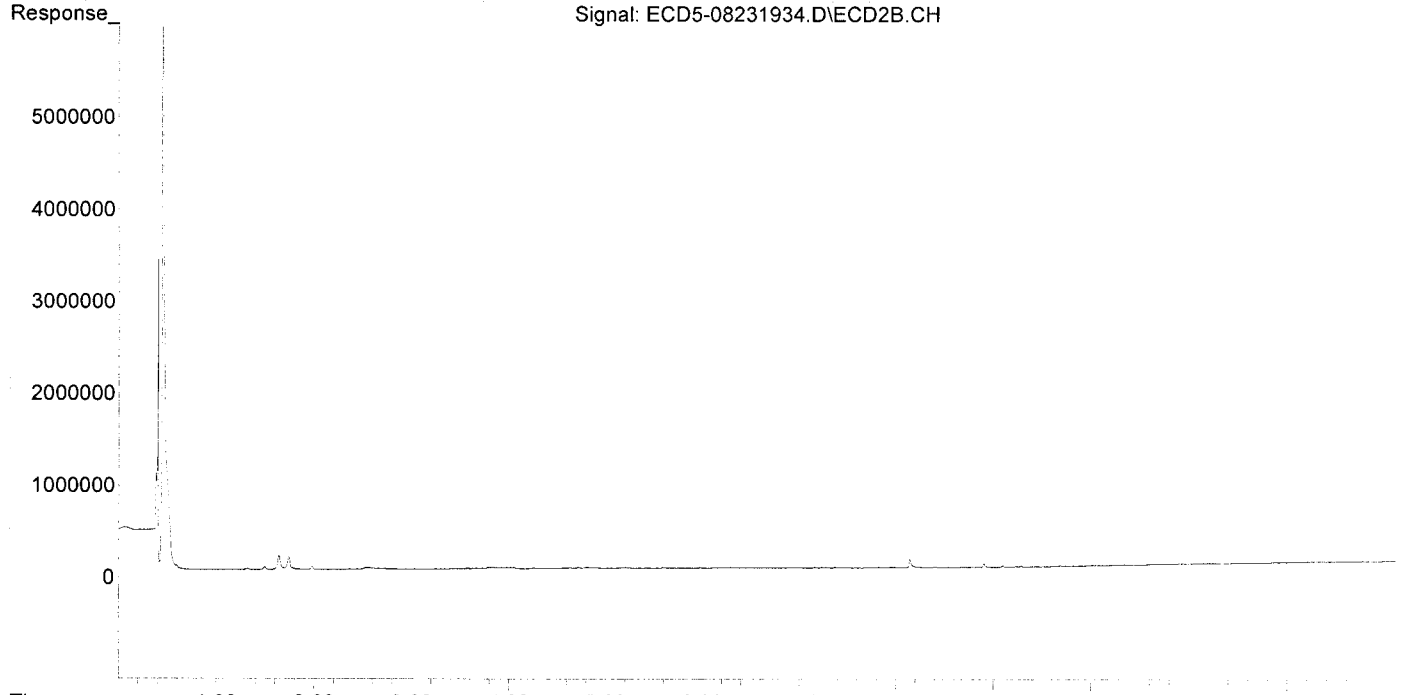
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231934.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:20
Operator : MJB
Sample : 9H23034-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: Aug 26 15:03:15 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231935.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:37
Operator : MJB
Sample : 9H23034-ICV3
Misc : A19F108, 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: Aug 26 15:03:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.975	0	8961	N.D.	0.031	#
22)	S	DCBP (S)	9.601	10.507f	18796	7616	0.133	0.042	#
		Target Compounds							
2)		a-BHC	5.934	6.622f	9141	348363	0.040	0.849	#
3)		g-BHC	6.194f	6.923	92353	182619	0.458	0.512	
4)		b-BHC	6.323f	7.017f	112667	560662	1.247	3.543	#
5)		Heptachlor	6.630	7.288	4625489	7814185	25.513	25.538	
6)		d-BHC	6.412f	7.222	337700	61064	1.717	0.173	#
7)		Aldrin	6.874	7.557	83911	133681	0.425	0.406	
8)		Heptachlo...	7.336	8.010	771372	473989	4.188	1.576	#
9)		trans-Chl...	7.427	8.130	10721056	19872286	57.986	63.424	
10)		cis-Chlor...	7.520	8.238	13401062	16289264	73.603	55.929	
11)		Endosulfa...	7.639	8.310f	285254	253033	1.676	0.920	#
12)		4,4'-DDE	7.578	8.333	311083	429833	1.650	1.384	
13)		Dieldrin	7.806	8.488	355046	1298858	1.849	4.270	#
14)		Endrin	7.984f	8.713	1829350	383068	12.442	1.696	#
15)		4,4'-DDD	7.984	8.759	1829350	3046940	11.641	11.892	
16)		Endosulfa...	8.118	8.873	216170	351371	1.505	1.524	
17)		4,4'-DDT	0.000	8.994	0	130946	N.D.	0.725	#
18)		Endrin Al...	8.427f	9.128f	55387	802635	BelowCal	3.530	
19)		Endosulfa...	8.708	9.290	120383	34589	0.777	0.139	#
20)		Methoxychlor	8.552	9.463	53824	27882	0.919	0.160	#
21)		Endrin Ke...	8.894	9.687	19548	156351	0.117	0.608	#
23)		Hexachlor...	3.198	3.688	5435	10087	0.030	0.027	
24)		Hexachlor...	5.768	6.431f	8591	38244	0.049	0.122	#
25)		Oxychlordane	7.253	7.933	114695	258636	0.697	0.944	
26)		2,4'-DDE	7.336	8.130	771372	19872286	6.014	93.676	#
27)		trans-Non...	7.520	8.195	13401062	14312099	74.546	47.448	
28)		2,4'-DDD	7.674f	8.488	831029	1298858	7.282	6.877	
29)		2,4'-DDT	7.913f	8.713	254540	383068	2.321	2.148	
30)		cis-Nonac...	7.984	8.759	1829350	3046940	8.811	9.083	
31)		Mirex	8.643	9.687	16477	156351	0.131	0.840	#
32)		Chlordane...	7.427	8.130	10721056	19872286	544.503	549.192	
33)		Chlordane...	7.520	8.238	13401062	16289264	534.667	536.465	
34)		Chlordane...	8.068	8.898	3177144	4850138	549.572	540.955	
35)		Chlordane...	3.448	0.000	3889	0	NoCal	N.D.	
36)		Toxaphene...	7.520	8.488f	13401062	1298858	14962.430	494.943	#
37)		Toxaphene...	7.806	8.814	355046	496679	219.851	150.919	
38)		Toxaphene...	8.118	8.851	216170	383467	64.193	75.660	
39)		Toxaphene...	8.347	8.898	132572	4850138	40.915	580.866	#
40)		Toxaphene...	8.552f	9.068f	53824	98957	22.453	21.234	
41)		Toxaphene...	8.643	9.463	16477	27882	5.207	5.870	
42)		Toxaphene...	3.448	0.000	3889	0	NoCal	N.D.	

A 542.91

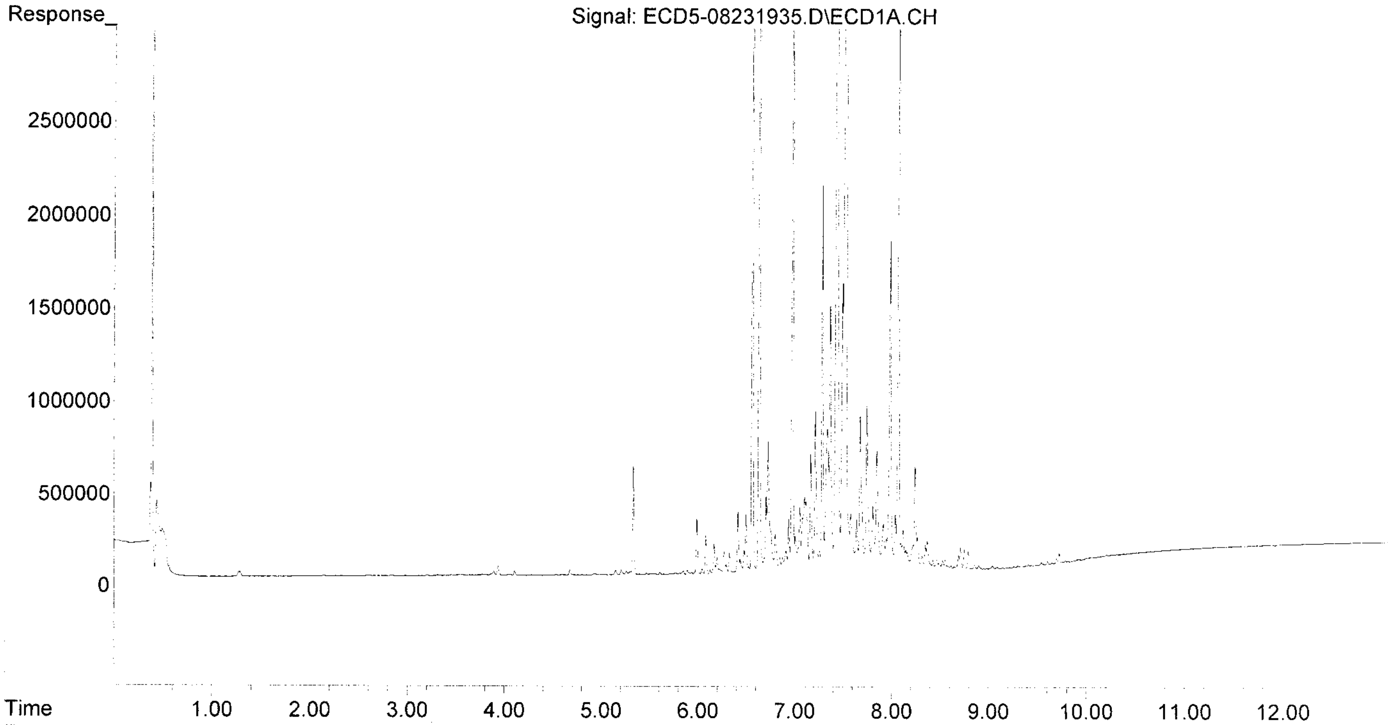
E 542.20

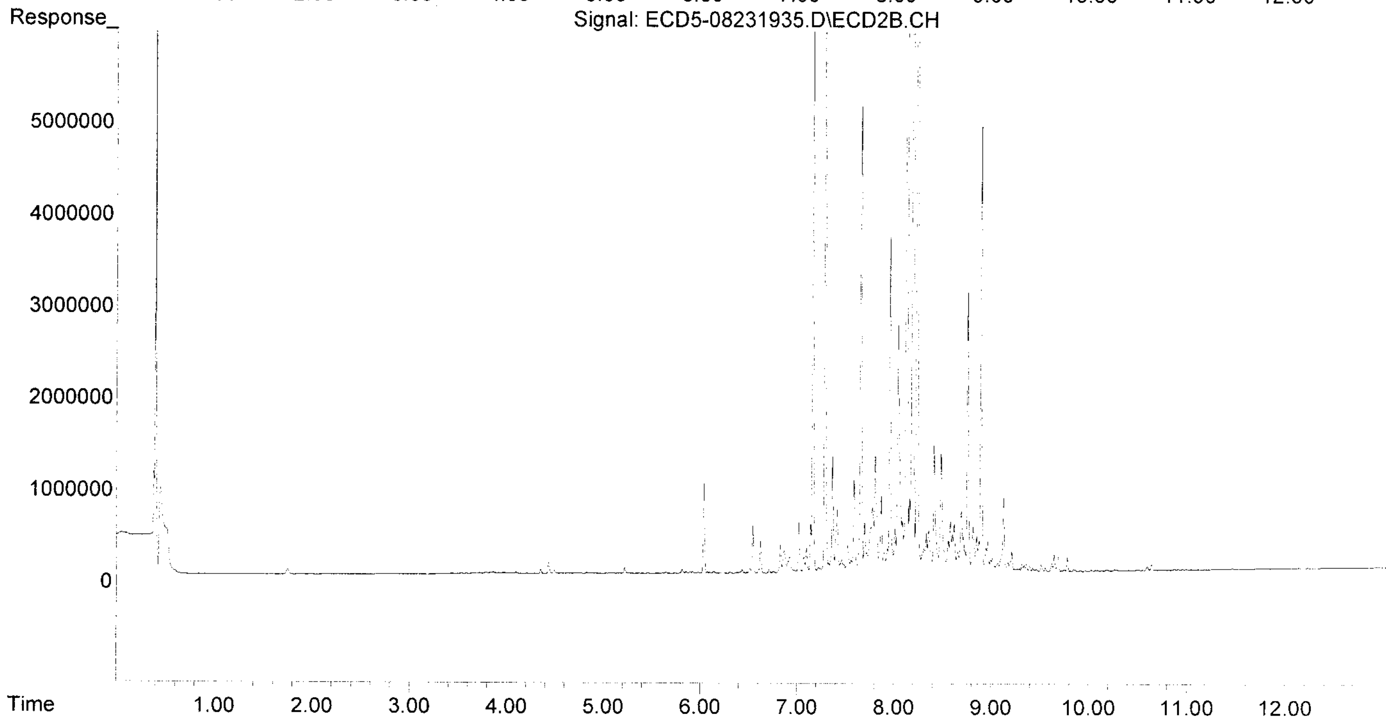
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231935.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:37
Operator : MJB
Sample : 9H23034-ICV3
Misc : A19F108, 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: Aug 26 15:03:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231942.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:37
Operator : MJB
Sample : 9H23034-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: Aug 26 15:03:28 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 9/26/19

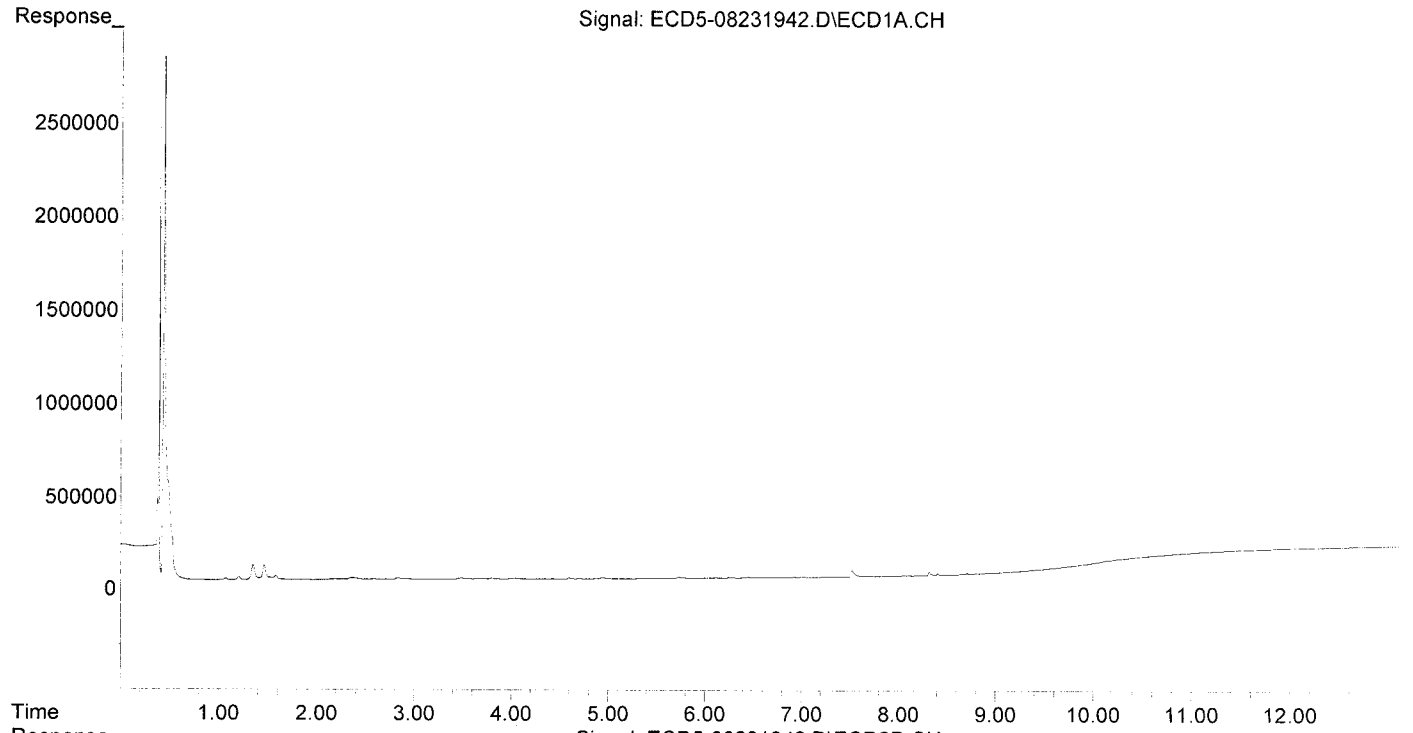
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.983	0	6142	N.D.	0.021	#
22)	S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.248f	0.000	4243	0	0.021	N.D.	#
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	6.450	7.232	5264	7410	0.027	0.021	
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	7.334	0.000	1978	0	0.011	N.D.	#
9)		trans-Chl...	7.425	8.145	1693	72982	0.009	0.233	#
10)		cis-Chlor...	7.522	0.000	38316	0	0.210	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...	8.117	0.000	2505	0	0.017	N.D.	#
17)		4,4'-DDT	8.194	0.000	767	0	0.006	N.D.	#
18)		Endrin Al...	8.406	9.100	10140	13686	BelowCal	BelowCal	
19)		Endosulfa...	8.707	9.290	7273	12897	0.047	0.052	
20)		Methoxychlor	8.540	0.000	2018	0	0.034	N.D.	#
21)		Endrin Ke...	8.901	9.687	3565	7207	0.021	0.028	
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	7.334	8.145f	1978	72982	0.015 Q-DCI	0.344	#
27)		trans-Non...	7.522	0.000	38316	0	~~87346.487~~	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	8.644	9.687	766	7207	0.006	0.039	#
32)		Chlordane...	7.425	8.145	1693	72982	0.086	2.017	#
33)		Chlordane...	7.522	0.000	38316	0	1.529	N.D.	#
34)		Chlordane...	8.049	8.906	2785	37528	0.482	4.186	#
35)		Chlordane...	3.451	0.000	3890	0	NoCal	N.D.	
36)		Toxaphene...	7.522f	0.000	38316	0	42.781	N.D.	#
37)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
38)		Toxaphene...	8.117	0.000	2505	0	0.744	N.D.	#
39)		Toxaphene...	8.318f	8.906	18960	37528	5.852	4.495	
40)		Toxaphene...	8.540f	9.100	2018	13686	0.842	2.937	#
41)		Toxaphene...	8.644	0.000	766	0	0.242	N.D.	#
42)		Toxaphene...	3.451	0.000	3890	0	NoCal	N.D.	

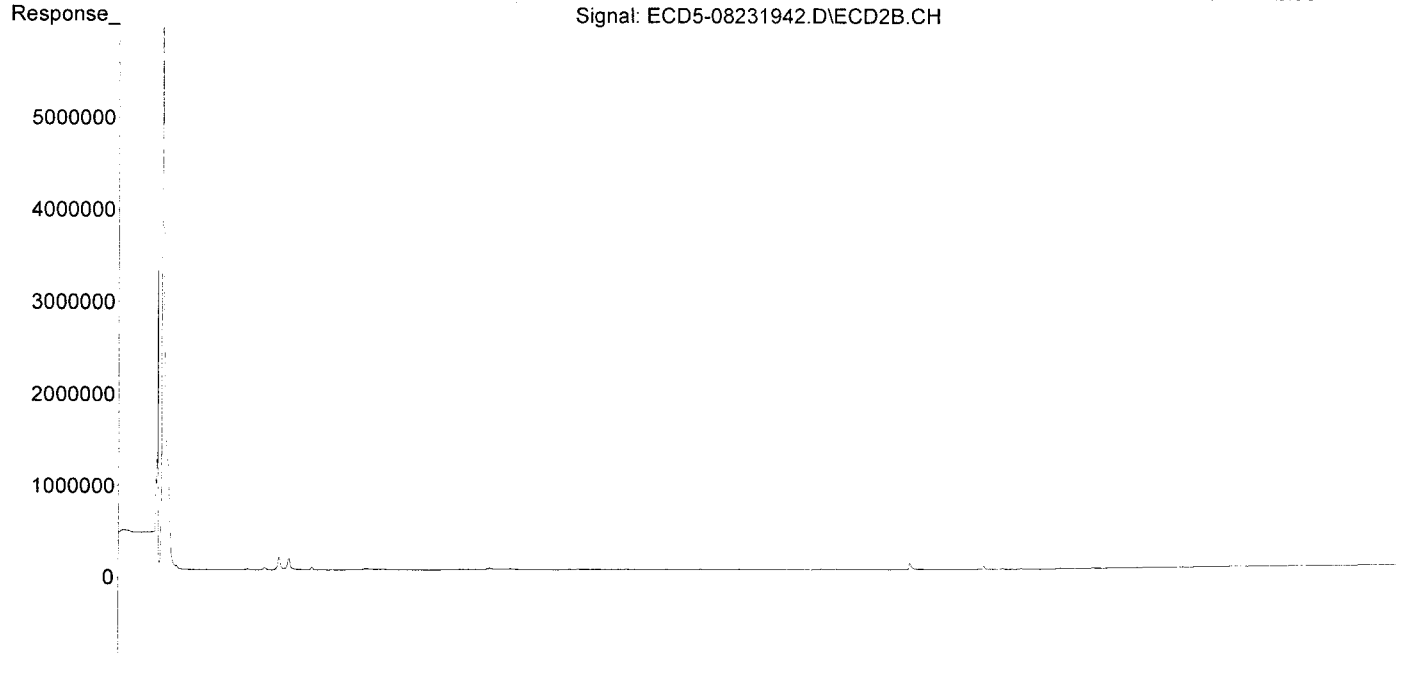
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231942.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:37
Operator : MJB
Sample : 9H23034-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: Aug 26 15:03:28 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231943.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:54
Operator : MJB
Sample : 9H23034-ICV4
Misc : A19D127, TOX 500 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: Aug 26 15:03:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.984	0	5611	N.D.	0.019	#
22)	S	DCBP (S)	9.591	10.521	22246	40017	0.158	0.223	#
		Target Compounds							
2)		a-BHC	5.949	6.596	3272	7415	0.014	0.018	
3)		g-BHC	6.247f	6.907	6246	18839	0.031	0.053	#
4)		b-BHC	6.296	6.966	11447	24200	0.127	0.153	
5)		Heptachlor	6.631	7.293	23849	45477	0.132	0.149	
6)		d-BHC	6.434	7.233	11867	47325	0.060	0.134	#
7)		Aldrin	6.871	7.582f	53004	119759	0.268	0.364	
8)		Heptachlo...	7.358f	7.984	250185	414973	1.358	1.379	
9)		trans-Chl...	7.445	8.135	315388	332556	1.706	1.061	
10)		cis-Chlor...	7.501f	8.220	426074	475646	2.340	1.633	
11)		Endosulfa...	7.629	8.295	511717	592244	3.007	2.152	
12)		4,4'-DDE	7.551f	8.359	359885	753065	1.909	2.424	
13)		Dieldrin	7.794	8.506	766286	726725	3.992	2.389	#
14)		Endrin	7.934f	8.711	607064	1341537	4.129	5.941	#
15)		4,4'-DDD	8.021	8.761	679517	912025	4.324	3.560	
16)		Endosulfa...	8.105	8.848	1638713	2447077	11.411	10.611	
17)		4,4'-DDT	8.184	8.976	1416015	960593	11.844	5.508	#
18)		Endrin Al...	8.392	9.091	1088580	2275708	8.285	11.454	
19)		Endosulfa...	8.709	9.291	549140	929201	3.543	3.730	
20)		Methoxychlor	8.543	9.470	549172	2364076	9.376	27.518	#
21)		Endrin Ke...	8.893	9.712f	380224	458705	2.280	1.783	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.813f	6.462	3660	6563	0.021	0.021	
25)		Oxychlordane	7.265	7.936	334880	406205	2.035	1.483	
26)		2,4'-DDE	7.358f	8.112	250185	466633	1.951	2.200	
27)		trans-Non...	7.501	8.205	426074	457454	2.062	1.517	
28)		2,4'-DDD	7.712	8.506	575777	726725	5.045	3.848	
29)		2,4'-DDT	7.898	8.711	911632	1341537	8.311	7.522	
30)		cis-Nonac...	7.982	8.761	1096031	912025	5.279	2.719	#
31)		Mirex	8.641	9.712f	1546722	458705	12.338	2.465	#
32)		Chlordane...	7.445	8.135	315388	332556	16.018	9.191	#
33)		Chlordane...	7.501	8.220	426074	475646	16.999	15.665	
34)		Chlordane...	8.046f	8.915	705731	4045258	122.075	451.184	#
35)		Chlordane...	3.453	0.000	2732	0	NoCal	N.D.	
36)		Toxaphene...	7.501	8.466	426074	1252556	475.717	477.299	
37)		Toxaphene...	7.794	8.813	766286	1618562	474.499	491.811	
38)		Toxaphene...	8.105	8.848	1638713	2447077	486.627	482.818	
39)		Toxaphene...	8.346	8.915	1570667	4045258	484.751	484.472	
40)		Toxaphene...	8.573	9.091	1186452	2275708	494.944	488.312	
41)		Toxaphene...	8.641	9.470	1546722	2364076	488.760	497.679	
42)		Toxaphene...	3.453	0.000	2732	0	NoCal	N.D.	

A B

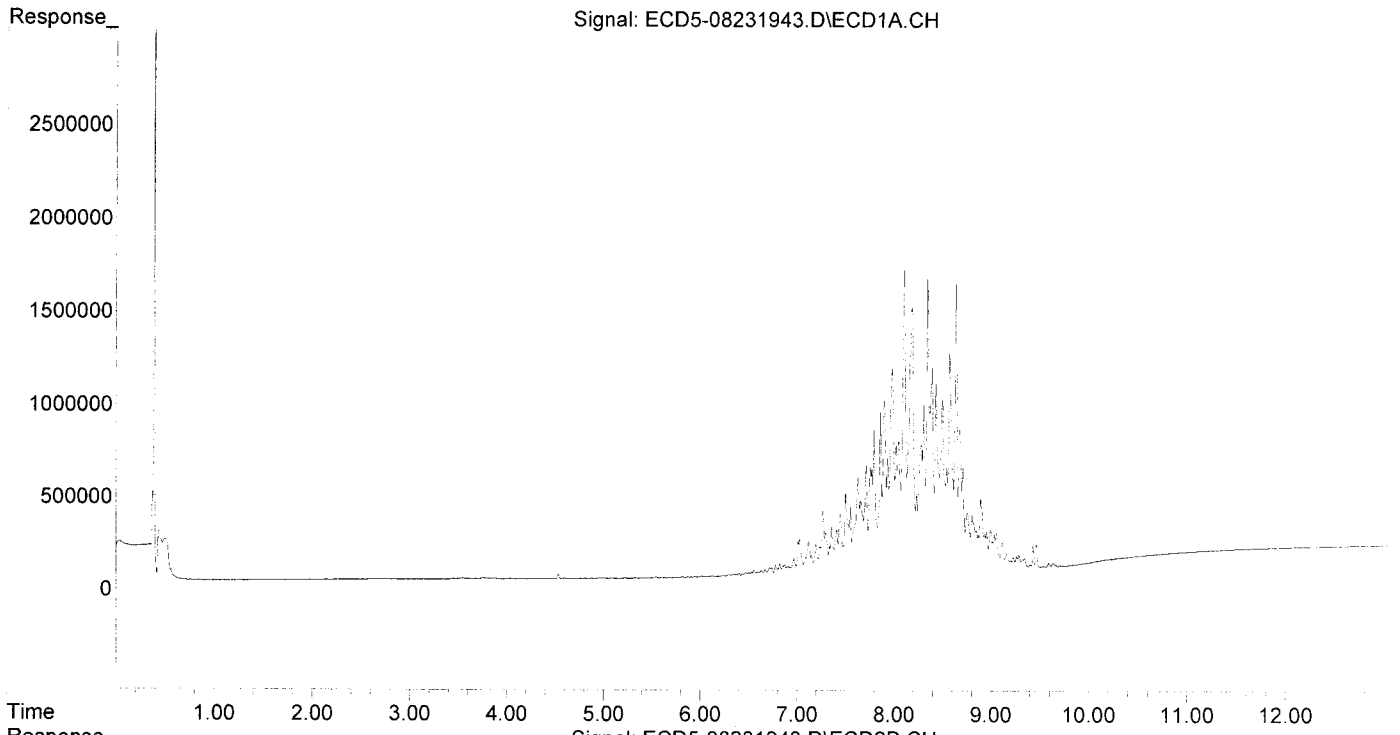
484.22 487.07

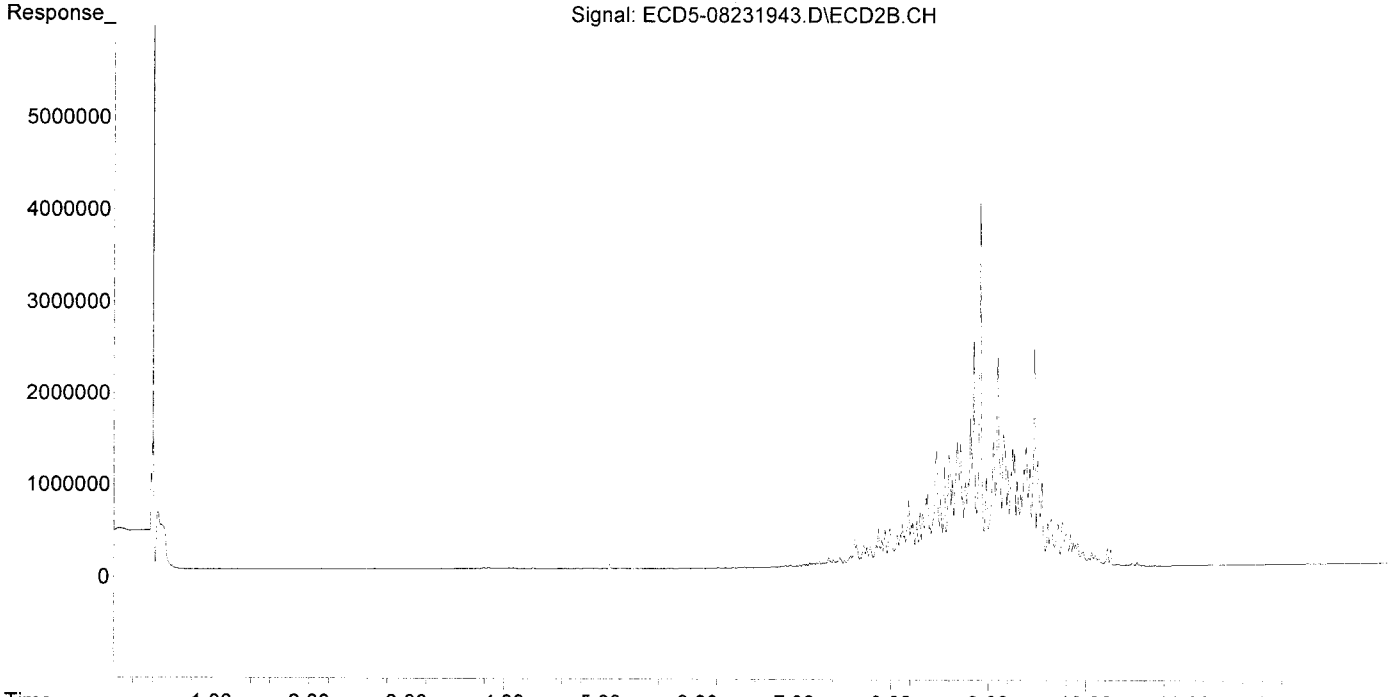
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231943.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:54
Operator : MJB
Sample : 9H23034-ICV4
Misc : A19D127, TOX 500 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: Aug 26 15:03:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 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: Aug 26 11:59:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

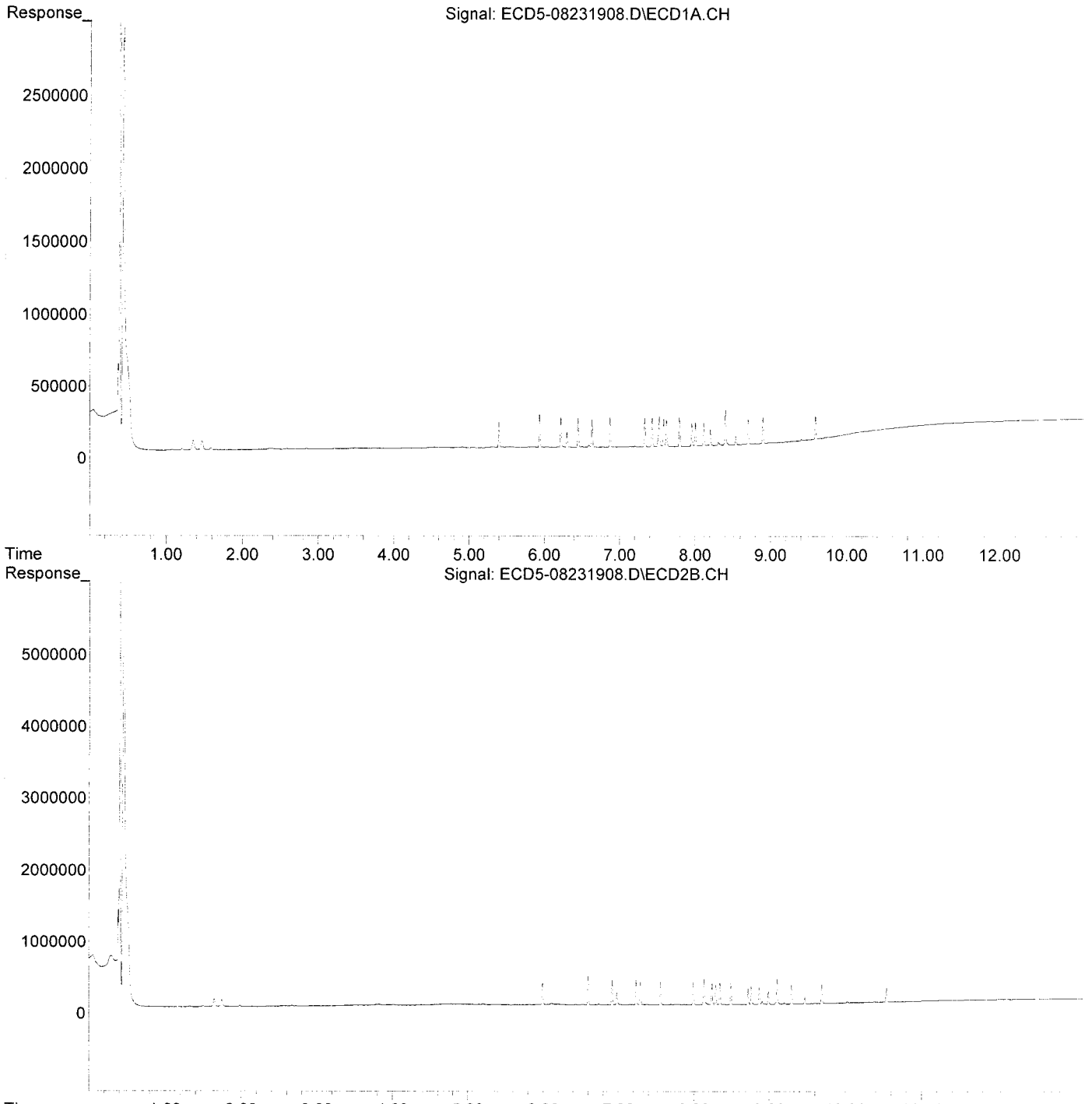
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.397	5.991	176748	300053	1.065	1.023	
22)	S	DCBP (S)	9.593	10.541	163865	191572	1.161	1.066	
		Target Compounds							
2)		a-BHC	5.937	6.597	231994	393119	1.012	0.958	
3)		g-BHC	6.221	6.915	207427	352286	1.028	0.988	
4)		b-BHC	6.300	6.980	104326	176262	1.154	1.114	
5)		Heptachlor	6.635	7.292	192066	309811	1.059	1.013	
6)		d-BHC	6.450	7.234	199840	349123	1.016	0.990	
7)		Aldrin	6.875	7.557	205523	317466	1.041	0.964	
8)		Heptachlo...	7.335	7.994	200503	310098	1.089	1.031	
9)		trans-Chl...	7.433	8.135	197202	364142	1.067	1.162	
10)		cis-Chlor...	7.528	8.241	209780	299422	1.152	1.028	
11)		Endosulfa...	7.625	8.291	185217	278874	1.088	1.013	
12)		4,4'-DDE	7.586	8.346	193435	298463	1.026	0.961	
13)		Dieldrin	7.796	8.491	197721	296684	1.030	0.975	
14)		Endrin	7.961	8.718	156412	222882	1.064	0.987	
15)		4,4'-DDD	8.007	8.760	164956	251549	1.050	0.982	
16)		Endosulfa...	8.118	8.865	158139	232156	1.101	1.007	
17)		4,4'-DDT	8.205	8.986	113897	179700	0.953	1.008	
18)		Endrin Al...	8.407	9.101	241285	348624	1.050	1.058	
19)		Endosulfa...	8.708	9.292	176097	265797	1.136	1.067	
20)		Methoxychlor	8.543	9.466	59659	95155	1.019	0.994	
21)		Endrin Ke...	8.901	9.690	177552	255763	1.065	0.994	
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	7.335	8.135	200503	364142	1.563	1.717	
27)		trans-Non...	7.528	0.000	209780	0	0.855	N.D.	#
28)		2,4'-DDD	0.000	8.491	0	296684	N.D.	1.571	#
29)		2,4'-DDT	0.000	8.718	0	222882	N.D.	1.250	#
30)		cis-Nonac...	8.007f	8.760	164956	251549	0.795	0.750	
31)		Mirex	0.000	9.690	0	255763	N.D.	1.375	#
32)		Chlordane...	7.433	8.135	197202	364142	10.016	10.063	
33)		Chlordane...	7.528	8.241	209780	299422	8.370	9.861	
34)		Chlordane...	0.000	8.903	0	37787	N.D.	4.214	#
35)		Chlordane...	3.445	0.000	4502	0	NoCal	N.D.	
36)		Toxaphene...	7.528f	8.491f	209780	296684	234.222	113.054	#
37)		Toxaphene...	7.796	0.000	197721	0	122.432	N.D.	#
38)		Toxaphene...	8.118	8.865	158139	232156	46.960	45.805	
39)		Toxaphene...	8.312f	8.903	20859	37787	6.438	4.525	
40)		Toxaphene...	8.543f	9.101	59659	348624	24.888	74.806	#
41)		Toxaphene...	0.000	9.466	0	95155	N.D.	20.032	#
42)		Toxaphene...	3.445	0.000	4502	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 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: Aug 26 11:59:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231909.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:08
Operator : MJB
Sample : 9H23034-CAL2
Misc : A19E246, AB 2 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: Aug 26 12:00:13 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

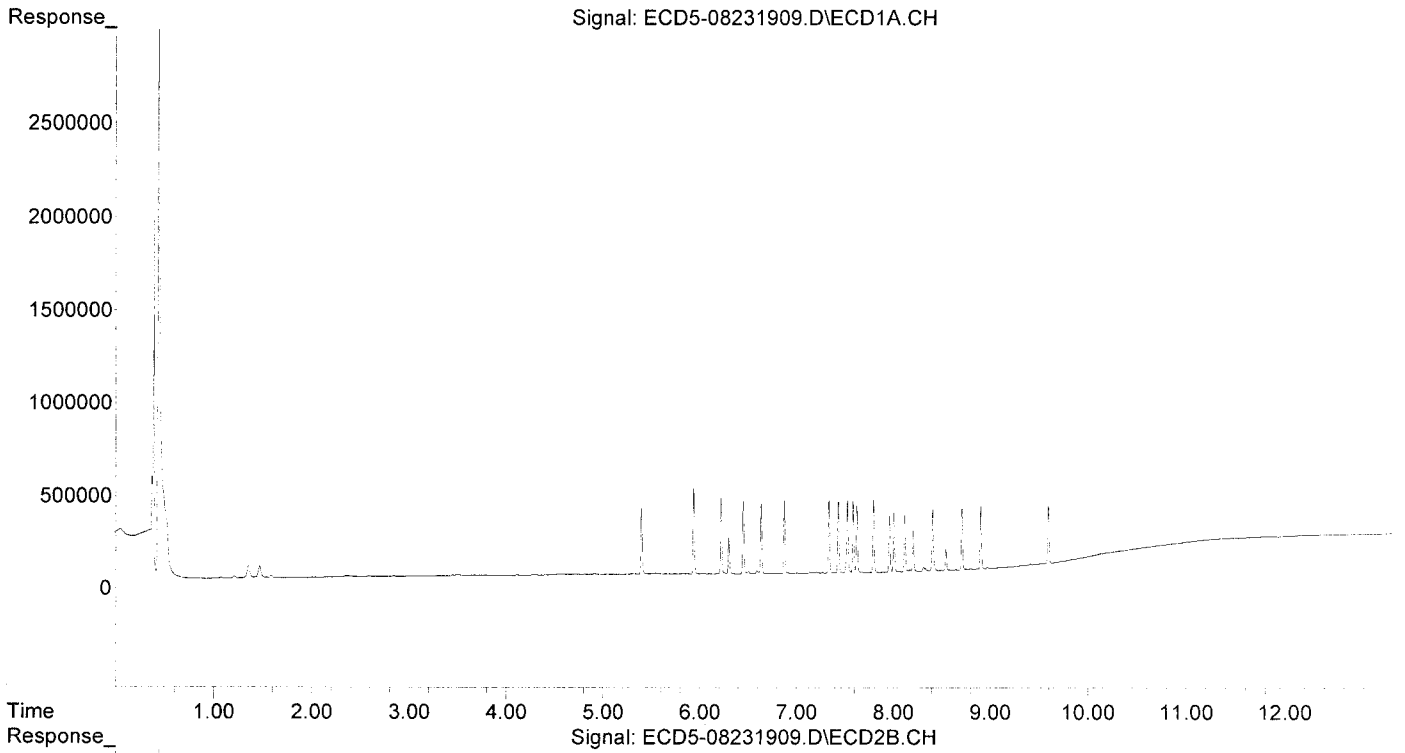
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.396	5.990	349972	600766	2.109	2.048	
22)	S	DCBP (S)	9.593	10.542	309904	390006	2.196	2.170	
		Target Compounds							
2)		a-BHC	5.936	6.597	458365	784586	1.999	1.912	
3)		g-BHC	6.220	6.915	406027	690922	2.012	1.937	
4)		b-BHC	6.300	6.980	194168	335260	2.148	2.118	
5)		Heptachlor	6.635	7.291	369615	586765	2.039	1.918	
6)		d-BHC	6.450	7.233	386980	669122	1.967	1.897	
7)		Aldrin	6.875	7.556	399550	635458	2.024	1.929	
8)		Heptachlo...	7.335	7.993	392052	606240	2.129	2.015	
9)		trans-Chl...	7.432	8.135	382271	644454	2.068	2.057	
10)		cis-Chlor...	7.527	8.241	389999	579667	2.142	1.990	
11)		Endosulfa...	7.625	8.291	357368	540442	2.100	1.964	
12)		4,4'-DDE	7.586	8.345	388618	598066	2.061	1.925	
13)		Dieldrin	7.796	8.491	395728	583812	2.061	1.919	
14)		Endrin	7.960	8.718	298515	424889	2.030	1.881	
15)		4,4'-DDD	8.006	8.760	314622	488120	2.002	1.905	
16)		Endosulfa...	8.118	8.864	299106	462256	2.083	2.005	
17)		4,4'-DDT	8.204	8.986	218190	341782	1.825	1.948	
18)		Endrin Al...	8.407	9.101	328182	477694	1.795	1.763	
19)		Endosulfa...	8.707	9.291	322163	498767	2.079	2.002	
20)		Methoxychlor	8.542	9.465	111466	178074	1.903	2.018	
21)		Endrin Ke...	8.901	9.689	331269	493110	1.987	1.916	
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	7.271	0.000	4709	0	0.029	N.D.	#
26)		2,4'-DDE	7.335	8.135	392052	644454	3.057	3.038	
27)		trans-Non...	7.527	0.000	389999	0	1.861	N.D.	#
28)		2,4'-DDD	0.000	8.491	0	583812	N.D.	3.091	#
29)		2,4'-DDT	0.000	8.718	0	424889	N.D.	2.382	#
30)		cis-Nonac...	8.006f	8.760	314622	488120	1.515	1.455	
31)		Mirex	8.657	9.689	1737	493110	0.014	2.650	#
32)		Chlordane...	7.432	8.135	382271	644454	19.415	17.810	
33)		Chlordane...	7.527	8.241	389999	579667	15.560	19.091	
34)		Chlordane...	8.065	8.903	2900	40429	0.502	4.509	#
35)		Chlordane...	3.445	0.000	4897	0	NoCal	N.D.	
36)		Toxaphene...	7.527f	8.491f	389999	583812	435.438	222.468	#
37)		Toxaphene...	7.796	0.000	395728	0	245.042	N.D.	#
38)		Toxaphene...	8.118	8.864	299106	462256	88.822	91.205	
39)		Toxaphene...	8.312f	8.903	21365	40429	6.594	4.842	
40)		Toxaphene...	8.582	9.101	2314	477694	0.965	102.502	#
41)		Toxaphene...	8.657	9.465	1737	178074	0.549	37.488	#
42)		Toxaphene...	3.445	0.000	4897	0	NoCal	N.D.	

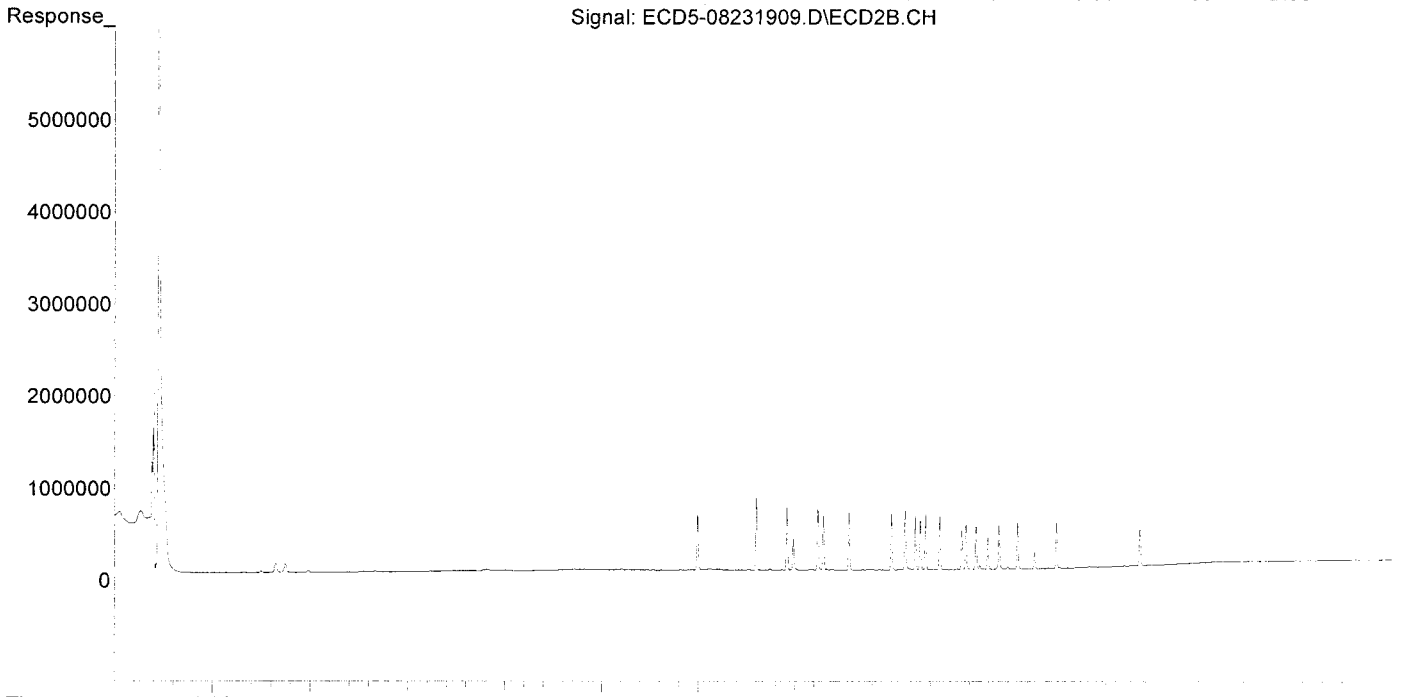
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231909.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:08
Operator : MJB
Sample : 9H23034-CAL2
Misc : A19E246, AB 2 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: Aug 26 12:00:13 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:25
Operator : MJB
Sample : 9H23034-CAL3
Misc : A19E247, AB 5 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: Aug 26 12:00:25 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

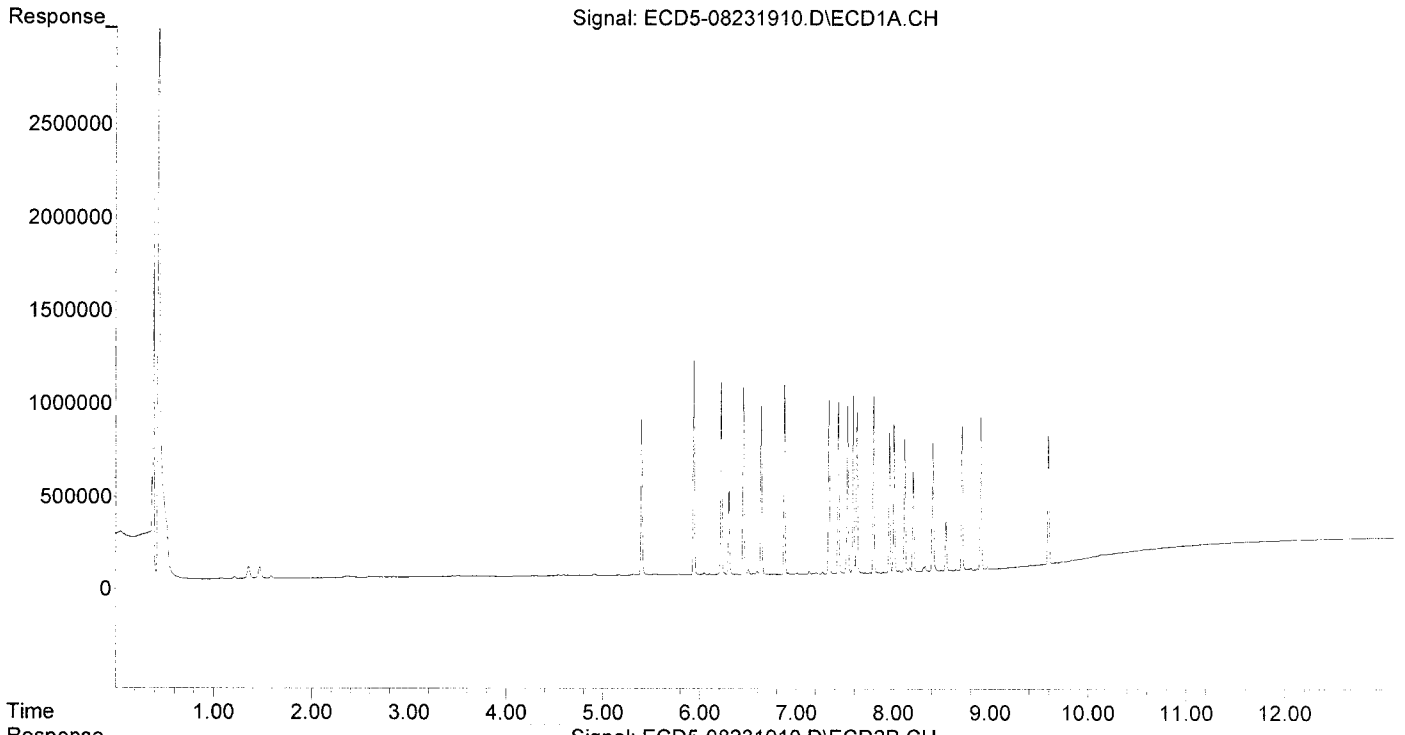
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.396	5.990	834206	1437876	5.026	4.901	
22)	S	DCBP (S)	9.594	10.542	701050	870921	4.969	4.845	
		Target Compounds							
2)		a-BHC	5.937	6.597	1147932	1985438	5.006	4.839	
3)		g-BHC	6.220	6.915	1020724	1742677	5.059	4.885	
4)		b-BHC	6.300	6.980	456954	788630	5.056	4.983	
5)		Heptachlor	6.635	7.291	899091	1508218	4.959	4.929	
6)		d-BHC	6.449	7.233	1004012	1717450	5.105	4.870	
7)		Aldrin	6.875	7.556	1012733	1600995	5.129	4.860	
8)		Heptachlo...	7.335	7.994	923620	1455941	5.015	4.839	
9)		trans-Chl...	7.432	8.134	926577	1502119	5.011	4.794	
10)		cis-Chlor...	7.528	8.241	908795	1434855	4.991	4.927	
11)		Endosulfa...	7.624	8.290	861509	1327191	5.062	4.823	
12)		4,4'-DDE	7.586	8.345	953351	1487999	5.057	4.790	
13)		Dieldrin	7.796	8.491	972009	1462538	5.063	4.809	
14)		Endrin	7.960	8.718	738953	1092877	5.026	4.839	
15)		4,4'-DDD	8.007	8.759	790498	1208642	5.031	4.717	
16)		Endosulfa...	8.118	8.865	709544	1096359	4.941	4.754	
17)		4,4'-DDT	8.205	8.986	553009	873653	4.625	5.010	
18)		Endrin Al...	8.407	9.101	683393	1045869	4.834	4.849	
19)		Endosulfa...	8.708	9.291	768798	1175908	4.961	4.721	
20)		Methoxychlor	8.542	9.466	270388	413802	4.616	4.904	
21)		Endrin Ke...	8.901	9.689	811384	1205004	4.866	4.683	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.782	0.000	4389	0	0.025	N.D.	#
25)		Oxychlordane	7.271	0.000	11672	0	0.071	N.D.	#
26)		2,4'-DDE	7.335	8.134	923620	1502119	7.201	7.081	
27)		trans-Non...	7.528	0.000	908795	0	4.756	N.D.	#
28)		2,4'-DDD	0.000	8.491	0	1462538	N.D.	7.744	#
29)		2,4'-DDT	7.894	8.718	3329	1092877	0.030	6.128	#
30)		cis-Nonac...	8.007f	8.759	790498	1208642	3.808	3.603	
31)		Mirex	8.645	9.689	4292	1205004	0.034	6.476	#
32)		Chlordane...	7.432	8.134	926577	1502119	47.059	41.513	
33)		Chlordane...	7.528	8.241	908795	1434855	36.259	47.255	
34)		Chlordane...	8.063	8.903	7555	42265	1.307	4.714	#
35)		Chlordane...	3.446	0.000	4904	0	NoCal	N.D.	
36)		Toxaphene...	7.528f	8.491f	908795	1462538	1014.680	557.315	#
37)		Toxaphene...	7.796	0.000	972009	0	601.886	N.D.	#
38)		Toxaphene...	8.118	8.865	709544	1096359	210.704	216.316	
39)		Toxaphene...	8.328	8.903	27348	42265	8.440	5.062	#
40)		Toxaphene...	8.542f	9.101	270388	1045869	112.796	224.418	#
41)		Toxaphene...	8.645	9.466	4292	413802	1.356	87.113	#
42)		Toxaphene...	3.446	0.000	4904	0	NoCal	N.D.	

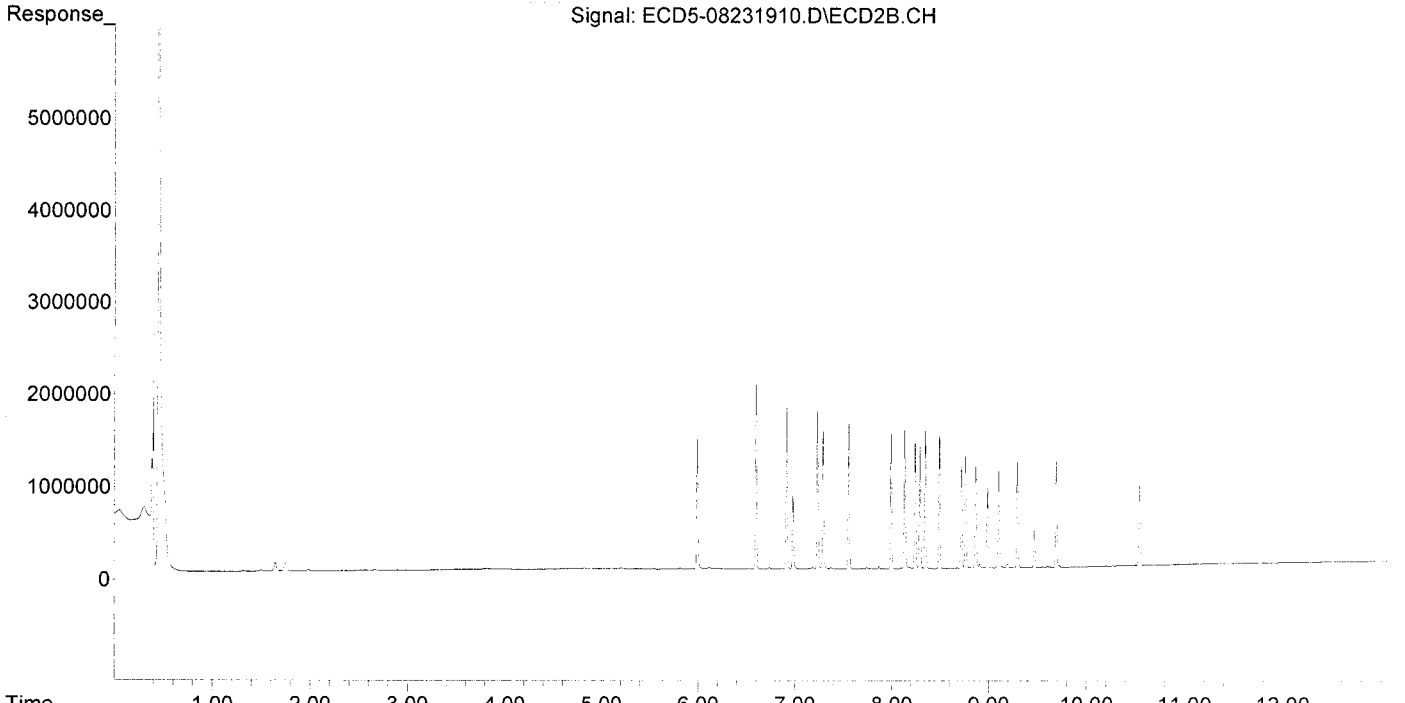
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:25
Operator : MJB
Sample : 9H23034-CAL3
Misc : A19E247, AB 5 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: Aug 26 12:00:25 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231911.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:42
Operator : MJB
Sample : 9H23034-CAL4
Misc : A19E249, AB 10 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: Aug 26 12:00:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

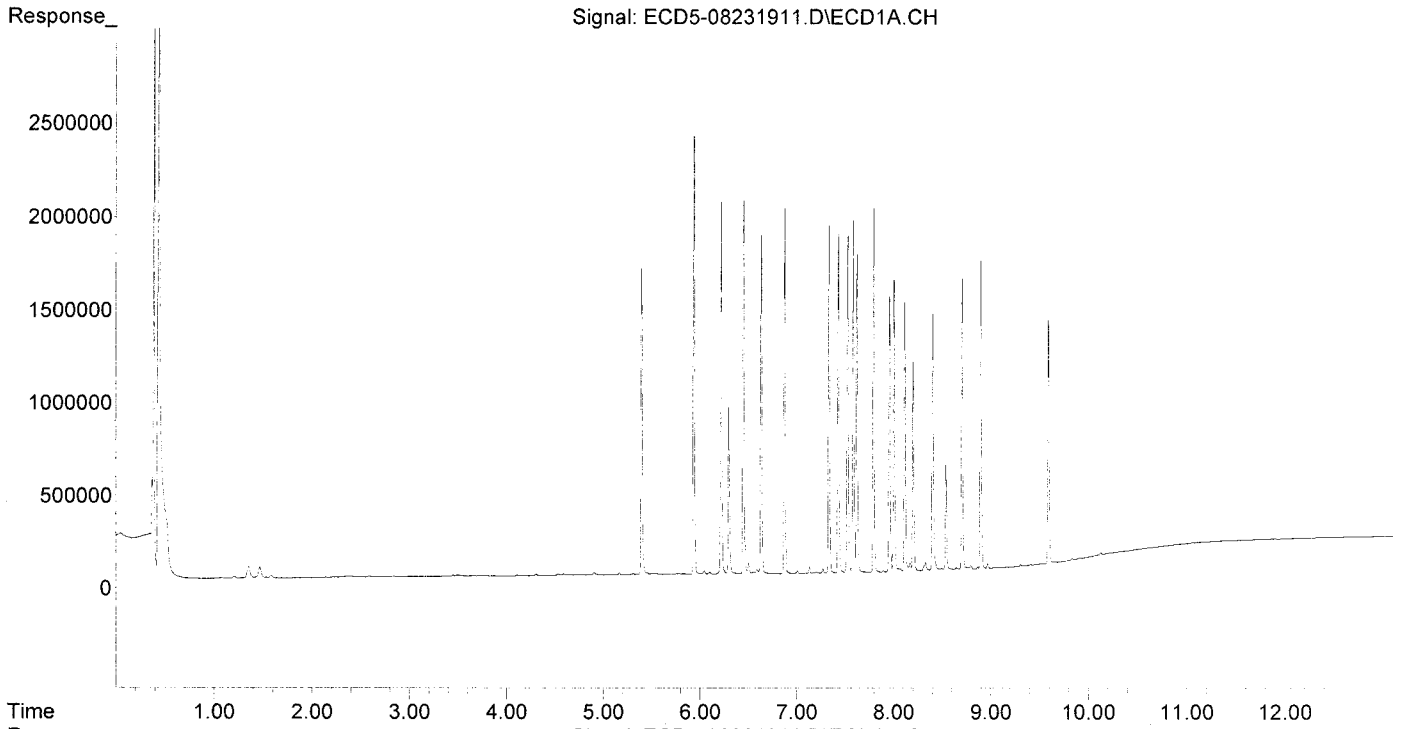
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.396	5.990	1644447	2865854	9.908	9.769	
22)	S	DCBP (S)	9.593	10.541	1335468	1678728	9.465	9.339	
		Target Compounds							
2)		a-BHC	5.936	6.597	2347065	4095890	10.234	9.982	
3)		g-BHC	6.220	6.915	2034859	3476733	10.085	9.747	
4)		b-BHC	6.299	6.980	910875	1580847	10.078	9.989	
5)		Heptachlor	6.634	7.291	1819621	3005915	10.037	9.824	
6)		d-BHC	6.449	7.234	2006493	3613517	10.201	10.246	
7)		Aldrin	6.875	7.556	2010802	3341093	10.184	10.143	
8)		Heptachlo...	7.335	7.994	1865428	2959301	10.128	9.837	
9)		trans-Chl...	7.431	8.134	1847996	3002782	9.995	9.584	
10)		cis-Chlor...	7.527	8.241	1843346	2859573	10.124	9.818	
11)		Endosulfa...	7.623	8.291	1709332	2724272	10.044	9.900	
12)		4,4'-DDE	7.585	8.346	1890931	3049792	10.030	9.817	
13)		Dieldrin	7.795	8.491	1954890	2898866	10.183	9.531	
14)		Endrin	7.960	8.718	1475508	2244483	10.036	9.939	
15)		4,4'-DDD	8.006	8.760	1565974	2425496	9.965	9.467	
16)		Endosulfa...	8.117	8.864	1448080	2243610	10.083	9.729	
17)		4,4'-DDT	8.204	8.987	1146556	1841119	9.590	10.491	
18)		Endrin Al...	8.406	9.101	1375129	2125028	10.716	10.650	
19)		Endosulfa...	8.707	9.292	1553540	2424584	10.024	9.734	
20)		Methoxychlor	8.542	9.465	561706	883069	9.590	10.543	
21)		Endrin Ke...	8.900	9.689	1664380	2496985	9.981	9.704	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.781	0.000	6414	0	0.036	N.D.	#
25)		Oxychlordane	7.271	0.000	23125	0	0.141	N.D.	#
26)		2,4'-DDE	7.335	8.134	1865428	3002782	14.544	14.155	
27)		trans-Non...	7.527	0.000	1843346	0	9.974	N.D.	#
28)		2,4'-DDD	0.000	8.491	0	2898866	N.D.	15.349	#
29)		2,4'-DDT	7.893	8.718	6940	2244483	0.063	12.585	#
30)		cis-Nonac...	8.006f	8.760	1565974	2425496	7.543	7.231	
31)		Mirex	8.644	9.689	9584	2496985	0.076	13.419	#
32)		Chlordane...	7.431	8.134	1847996	3002782	93.856	82.985	
33)		Chlordane...	7.527	8.241	1843346	2859573	73.545	94.176	
34)		Chlordane...	8.062	8.903	15147	46214	2.620	5.154	#
35)		Chlordane...	3.446	0.000	4445	0	NoCal	N.D.	
36)		Toxaphene...	7.527f	8.491f	1843346	2898866	2058.116	1104.642	#
37)		Toxaphene...	7.795	0.000	1954890	0	1210.504	N.D.	#
38)		Toxaphene...	8.117	8.864	1448080	2243610	430.018	442.674	
39)		Toxaphene...	8.328	8.903	47046	46214	14.520	5.535	#
40)		Toxaphene...	8.542f	9.101	561706	2125028	234.323	455.980	#
41)		Toxaphene...	8.644	9.465	9584	883069	3.029	185.901	#
42)		Toxaphene...	3.446	0.000	4445	0	NoCal	N.D.	

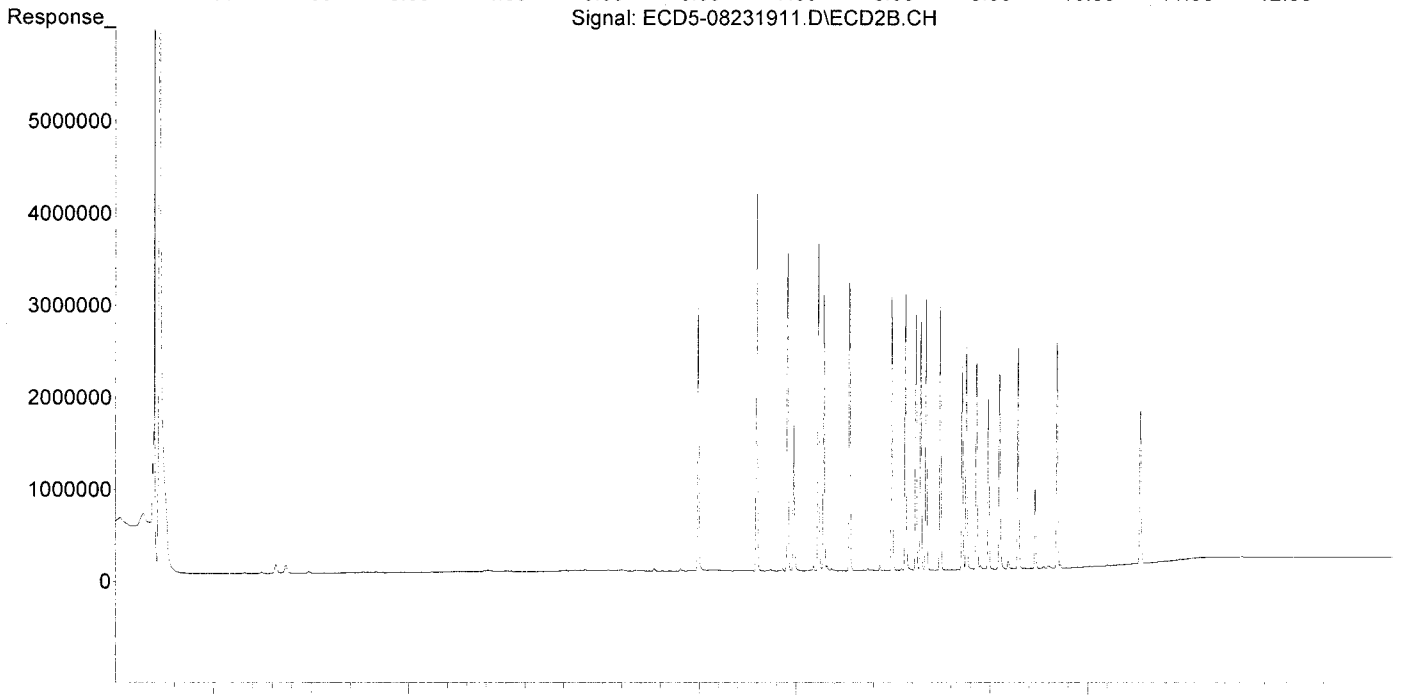
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231911.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:42
Operator : MJB
Sample : 9H23034-CAL4
Misc : A19E249, AB 10 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: Aug 26 12:00:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:00
Operator : MJB
Sample : 9H23034-CAL5
Misc : A19E250, AB 25 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: Aug 26 12:01:01 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 8/26/19

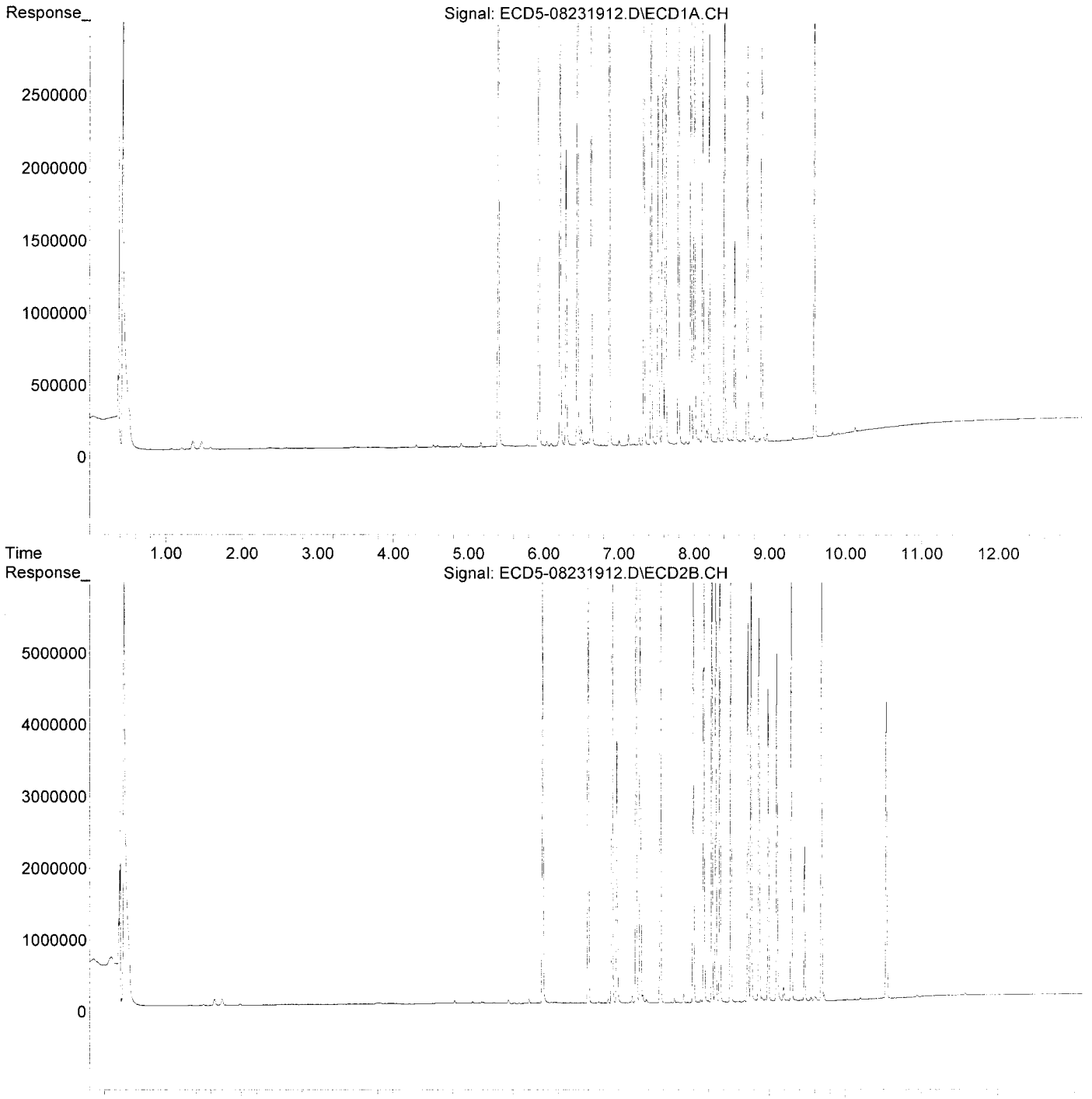
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.394	5.989	4015832	7072923	24.195	24.109	
22)	S	DCBP (S)	9.592	10.539	3342634	4163229	23.690	23.160	
		Target Compounds							
2)		a-BHC	5.935	6.596	5553096	9910863	24.215	24.153	
3)		g-BHC	6.218	6.913	4875657	8508386	24.164	23.853	
4)		b-BHC	6.297	6.978	2060378	3677155	22.796	23.234	
5)		Heptachlor	6.633	7.289	4314306	7282282	23.797	23.800	
6)		d-BHC	6.447	7.232	4667166	8247775	23.729	23.387	
7)		Aldrin	6.873	7.555	4845355	7878574	24.540	23.919	
8)		Heptachlo...	7.332	7.992	4344286	7064729	23.587	23.483	
9)		trans-Chl...	7.429	8.131	4401456	7157480	23.806	22.844	
10)		cis-Chlor...	7.525	8.239	4244413	6935857	23.312	23.814	
11)		Endosulfa...	7.621	8.288	4111285	6571512	24.158	23.881	
12)		4,4'-DDE	7.583	8.343	4571066	7501047	24.246	24.144	
13)		Dieldrin	7.792	8.489	4582306	7333890	23.869	24.113	
14)		Endrin	7.957	8.716	3508904	5325883	23.866	23.584	
15)		4,4'-DDD	8.004	8.758	3727035	6146469	23.718	23.990	
16)		Endosulfa...	8.115	8.862	3371864	5447602	23.479	23.623	
17)		4,4'-DDT	8.202	8.984	2924467	4480388	24.460	24.907	
18)		Endrin Al...	8.404	9.099	3119767	4848504	25.346	24.953	
19)		Endosulfa...	8.705	9.289	3645411	5978906	23.522	24.003	
20)		Methoxychlor	8.540	9.463	1390283	2166659	23.735	25.322	
21)		Endrin Ke...	8.899	9.688	4008958	5893691	24.041	22.904	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.779	0.000	7817	0	0.044	N.D.	#
25)		Oxychlordane	7.269	0.000	51278	0	0.312	N.D.	#
26)		2,4'-DDE	7.332	8.131	4344286	7157480	33.871	33.740	
27)		trans-Non...	7.525	8.192	4244413	24831	23.380	0.082	#
28)		2,4'-DDD	0.000	8.489	0	7333890	N.D.	38.832	#
29)		2,4'-DDT	7.891	8.716	15573	5325883	0.142	29.864	#
30)		cis-Nonac...	8.004	8.758	3727035	6146469	17.952	18.323	
31)		Mirex	8.651	9.688	18145	5893691	0.145	31.674	#
32)		Chlordane...	7.429	8.131	4401456	7157480	223.542	197.805	
33)		Chlordane...	7.525	8.239	4244413	6935857	169.341	228.423	
34)		Chlordane...	8.059	8.901	33094	57884	5.724	6.456	
35)		Chlordane...	3.446	0.000	4689	0	NoCal	N.D.	
36)		Toxaphene...	7.525f	8.489f	4244413	7333890	4738.933	2794.653	#
37)		Toxaphene...	7.792	0.000	4582306	0	2837.449	N.D.	#
38)		Toxaphene...	8.115	8.862	3371864	5447602	1001.299	1074.835	
39)		Toxaphene...	8.326f	8.901	104762	57884	32.332	6.932	#
40)		Toxaphene...	8.540f	9.099	1390283	4848504	579.975	1040.371	#
41)		Toxaphene...	8.651	9.463	18145	2166659	5.734	456.119	#
42)		Toxaphene...	3.446	0.000	4689	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:00
Operator : MJB
Sample : 9H23034-CAL5
Misc : A19E250, AB 25 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: Aug 26 12:01:01 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:17
Operator : MJB
Sample : 9H23034-CAL6
Misc : A19H383, AB 50 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: Aug 26 12:01:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

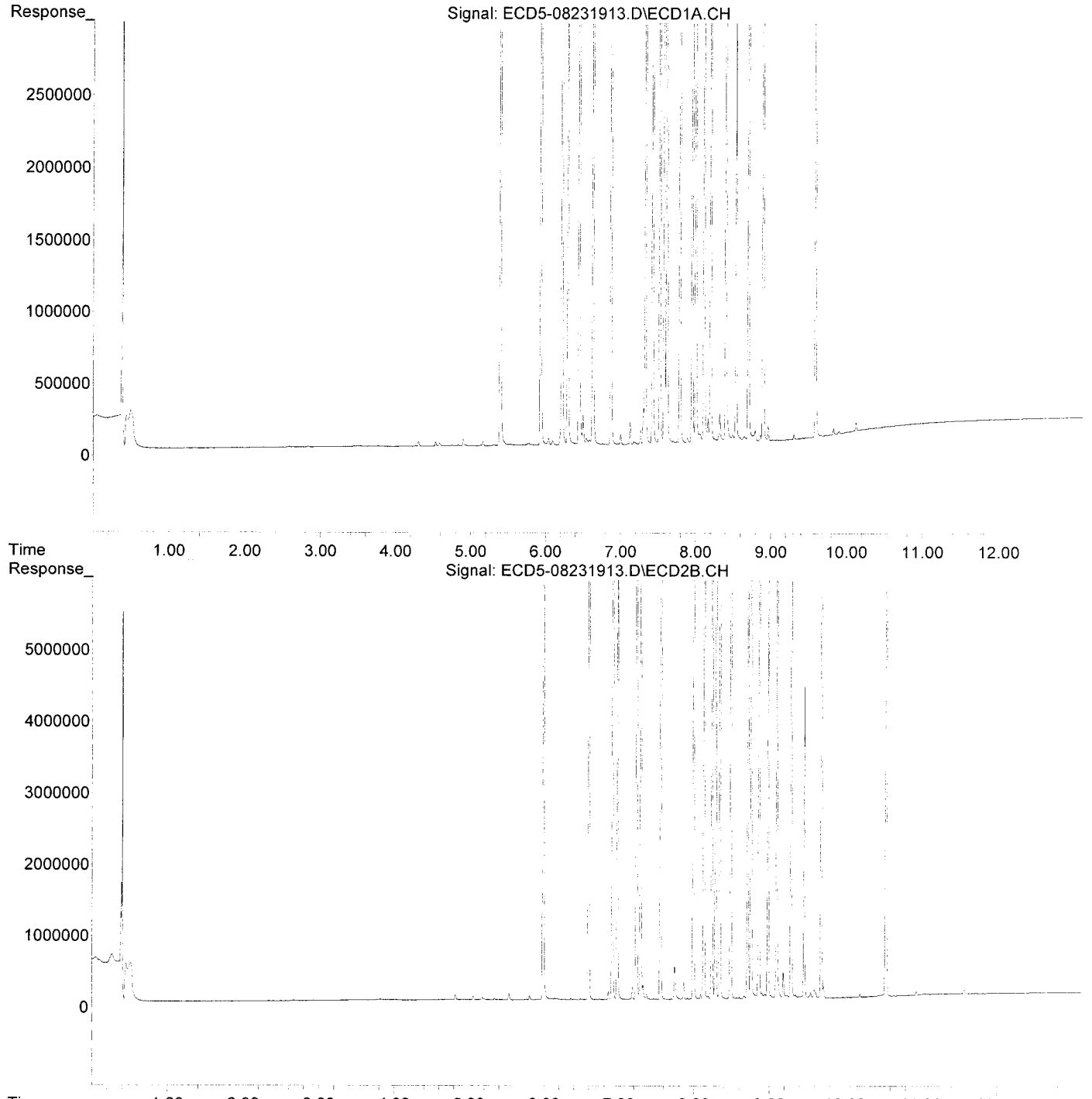
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.394	5.989	8071481	14196745	48.631	48.392	
22)	S	DCBP (S)	9.592	10.541	6678990	8730692	47.336	48.568	
		Target Compounds							
2)		a-BHC	5.935	6.596	11369592	20265817	49.578	49.388	
3)		g-BHC	6.218	6.914	9785999	17381069	48.499	48.727	
4)		b-BHC	6.296	6.978	4100858	7516011	45.372	47.490	
5)		Heptachlor	6.632	7.290	8735158	14595143	48.182	47.700	
6)		d-BHC	6.447	7.232	9610742	17311258	48.862	49.087	
7)		Aldrin	6.873	7.555	9327672	16264416	47.242	49.377	
8)		Heptachlo...	7.332	7.992	8869300	14837794	48.156	49.320	
9)		trans-Chl...	7.428	8.131	8959305	14678719	48.457	46.848	
10)		cis-Chlor...	7.524	8.238	8622674	14002116	47.359	48.076	
11)		Endosulfa...	7.621	8.289	7984410	13712329	46.917	49.831	
12)		4,4'-DDE	7.583	8.344	9177389	15554706	48.679	50.067	
13)		Dieldrin	7.792	8.489	9386664	15434113	48.894	50.745	
14)		Endrin	7.957	8.716	6979572	11015379	47.471	48.778	
15)		4,4'-DDD	8.004	8.758	7726197	13159451	49.167	51.361	
16)		Endosulfa...	8.114	8.863	6840920	11534525	47.635	50.018	
17)		4,4'-DDT	8.202	8.985	6205369	9285492	51.902	49.430	
18)		Endrin Al...	8.404	9.099	6224451	10209034	50.697	51.836	
19)		Endosulfa...	8.705	9.289	7420576	12149289	47.882	48.775	
20)		Methoxychlor	8.540	9.464	2860683	4346199	48.839	48.597	
21)		Endrin Ke...	8.899	9.687	8190707	12954568	49.117	50.345	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.777	6.487f	17034	6623	0.097	0.021	#
25)		Oxychlordane	7.268	7.916	93115	13858	0.566	0.051	#
26)		2,4'-DDE	7.332	8.131	8869300	14678719	69.150	69.194	
27)		trans-Non...	7.524	8.193	8622674	44541	47.838	0.148	#
28)		2,4'-DDD	7.705	8.489	15706	15434113	0.138	81.721	#
29)		2,4'-DDT	7.890	8.716	32276	11015379	0.294	61.766	#
30)		cis-Nonac...	8.004	8.758	7726197	13159451	37.214	39.229	
31)		Mirex	8.653	9.687	33100	12954568	0.264	69.621	#
32)		Chlordane...	7.428	8.131	8959305	14678719	455.027	405.662	
33)		Chlordane...	7.524	8.238	8622674	14002116	344.022	461.141	
34)		Chlordane...	8.059	8.901	56505	76664	9.774	8.551	
35)		Chlordane...	3.445	0.000	3954	0	NoCal	N.D.	
36)		Toxaphene...	7.524f	8.489f	8622674	15434113	9627.309	5881.324	
37)		Toxaphene...	7.792	8.823	9386664	45987	5812.397	13.973	#
38)		Toxaphene...	8.114	8.863	6840920	11534525	2031.460	2275.810	
39)		Toxaphene...	8.325f	8.901	190344	76664	58.746	9.182	#
40)		Toxaphene...	8.540f	9.099	2860683	10209034	1193.372	2190.611	#
41)		Toxaphene...	8.653	9.464	33100	4346199	10.460	914.950	#
42)		Toxaphene...	3.445	0.000	3954	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:17
Operator : MJB
Sample : 9H23034-CAL6
Misc : A19H383, AB 50 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: Aug 26 12:01:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:34
Operator : MJB
Sample : 9H23034-CAL7
Misc : A19H382, AB 100 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: Aug 26 12:01:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

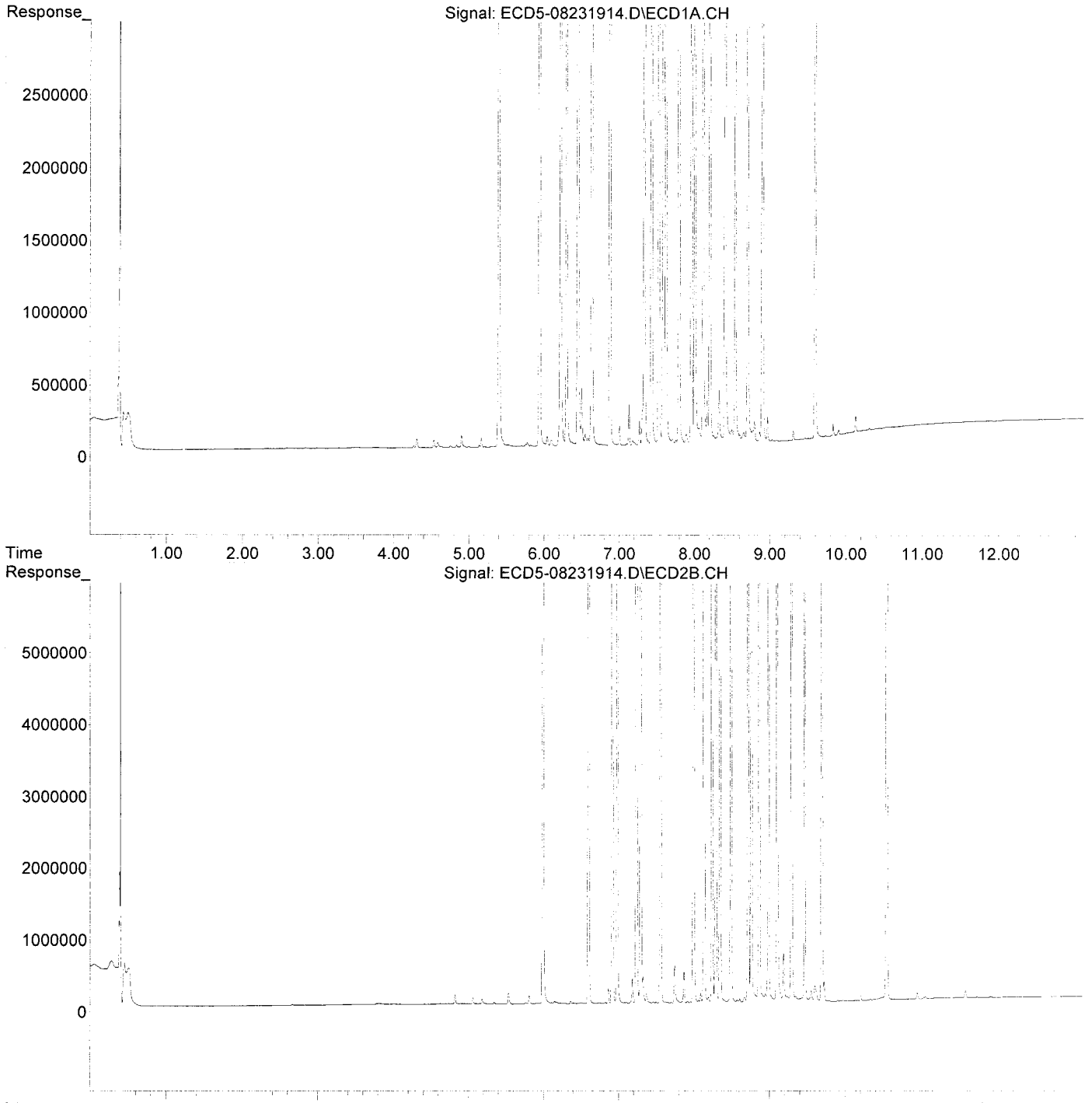
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.395	5.989	15850922	29256334	95.502	99.726	
22)	S	DCBP (S)	9.592	10.540	13405396	17784069	95.007	98.931	
		Target Compounds							
2)		a-BHC	5.935	6.596	22363584	41699210	97.517	101.621	
3)		g-BHC	6.218	6.914	19595093	36788994	97.113	103.136	
4)		b-BHC	6.296	6.977	8355416	14625175	92.444	92.409	
5)		Heptachlor	6.632	7.289	17551528	30277818	96.811	98.955	
6)		d-BHC	6.446	7.232	19475580	35176633	99.016	99.745	
7)		Aldrin	6.872	7.555	19108074	33906422	96.776	102.936	
8)		Heptachlo...	7.331	7.991	17318444	30045511	94.031	99.869	
9)		trans-Chl...	7.427	8.131	17732791	30742272	95.909	98.116	
10)		cis-Chlor...	7.523	8.238	16742584	29042863	91.956	99.719	
11)		Endosulfa...	7.619	8.288	16089996	27212707	94.547	98.892	
12)		4,4'-DDE	7.582	8.344	18052552	32499603	95.754	104.609	
13)		Dieldrin	7.791	8.488	18324422	31001958	95.450	101.930	
14)		Endrin	7.957	8.715	13812708	23102413	93.947	102.301	
15)		4,4'-DDD	8.003	8.758	15437146	26297484	98.238	102.639	
16)		Endosulfa...	8.113	8.861	13543500	23016371	94.307	99.808	
17)		4,4'-DDT	8.201	8.984	12176961	19789501	101.848	97.215	
18)		Endrin Al...	8.403	9.098	12363806	20502737	98.526	99.562	
19)		Endosulfa...	8.704	9.289	14366789	24477320	92.702	98.268	
20)		Methoxychlor	8.539	9.463	5877329	9444987	100.340	96.538	
21)		Endrin Ke...	8.898	9.687	16251943	26636559	97.458	103.517	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.777	0.000	29252	0	0.166	N.D.	#
25)		Oxychlordane	7.267	7.915	165864	25145	1.008	0.092	#
26)		2,4'-DDE	7.331	8.131	17318444	30742272	135.025	144.916	
27)		trans-Non...	7.523	8.192	16742584	77338	93.233	0.256	#
28)		2,4'-DDD	7.704	8.488	32176	31001958	0.282	164.150	#
29)		2,4'-DDT	7.889	8.715	66298	23102413	0.604	129.542	#
30)		cis-Nonac...	8.003	8.758	15437146	26297484	74.355	78.395	
31)		Mirex	8.651	9.687	63592	26636559	0.507	143.151	#
32)		Chlordane...	7.427	8.131	17732791	30742272	900.616	849.596	
33)		Chlordane...	7.523	8.238	16742584	29042863	667.985	956.488	#
34)		Chlordane...	8.059	8.899	102306	115089	17.697	12.836	
35)		Chlordane...	3.447	0.000	5362	0	NoCal	N.D.	
36)		Toxaphene...	7.523f	8.488f	16742584	31001958	18693.275	11813.609	
37)		Toxaphene...	7.791	0.000	18324422	0	11346.823	N.D.	#
38)		Toxaphene...	8.113	8.861	13543500	23016371	4021.839	4541.226	
39)		Toxaphene...	8.324f	8.899	362066	115089	111.744	13.783	#
40)		Toxaphene...	8.598f	9.098	51910	20502737	21.655	4399.391	#
41)		Toxaphene...	8.651	9.463	63592	9444987	20.095	1988.334	#
42)		Toxaphene...	3.447	0.000	5362	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:34
Operator : MJB
Sample : 9H23034-CAL7
Misc : A19H382, AB 100 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: Aug 26 12:01:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:52
Operator : MJB
Sample : 9H23034-CAL8
Misc : A19E244, AB 200 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: Aug 26 12:01:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

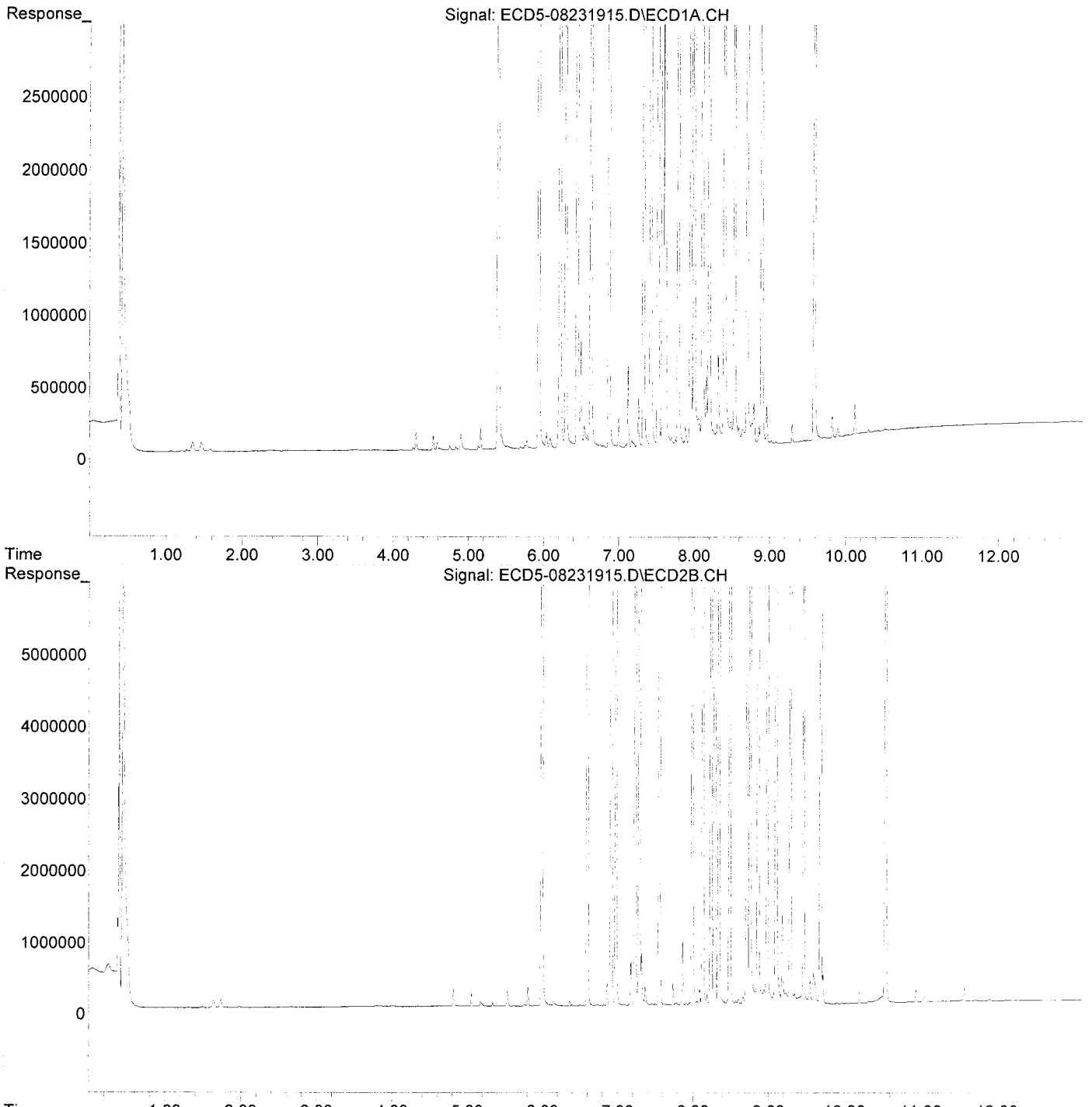
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.394	5.990	32842535	62584449	197.876	213.332	
22)	S	DCBP (S)	9.591	10.539	26975231	38097779	191.180	211.933	
		Target Compounds							
2)		a-BHC	5.935	6.597	47202252	94376748	205.828	229.997	
3)		g-BHC	6.218	6.914	41889726	80765680	207.604	226.422	
4)		b-BHC	6.294	6.977	18238696	32553433	201.792	205.688	
5)		Heptachlor	6.630	7.289	37785699	71283176	208.419	232.969	
6)		d-BHC	6.445	7.232	41016592	80979751	208.534	229.622	
7)		Aldrin	6.870	7.554	39838403	73228186	201.769	222.313	
8)		Heptachlo...	7.330	7.991	36258170	65330070	196.864	217.153	
9)		trans-Chl...	7.425	8.130	37621413	66447972	203.478	212.073	
10)		cis-Chlor...	7.521	8.238	35207945	63977063	193.375	219.666	
11)		Endosulfa...	7.618	8.288	33852593	61043507	198.922	221.834	
12)		4,4'-DDE	7.581	8.344	38763081	69842351	205.607	224.807	
13)		Dieldrin	7.791	8.489	39217772	70031781	204.281	230.254	
14)		Endrin	7.955	8.715	31426311	52779585	213.745	233.717	
15)		4,4'-DDD	8.002	8.758	32436804	59560270	206.419	232.463	
16)		Endosulfa...	8.112	8.862	29471042	51834888	205.214	224.777	
17)		4,4'-DDT	8.200	8.984	29075222	48203441	243.185	202.337	
18)		Endrin Al...	8.402	9.098	26627672	45084544	200.132	198.781	
19)		Endosulfa...	8.704	9.289	31126520	54592794	200.845	219.171	
20)		Methoxychlor	8.537	9.463	14271143	23714100	243.642	203.084	
21)		Endrin Ke...	8.898	9.688	35094718	60861376	210.452	236.524	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.776	0.000	55469	0	0.315	N.D.	#
25)		Oxychlordane	7.265	7.915	336226	30124	2.043	0.110	#
26)		2,4'-DDE	7.330	8.130	36258170	66447972	282.690	313.230	
27)		trans-Non...	7.521	8.191	35207945	140624	196.641	0.466	#
28)		2,4'-DDD	7.703	8.489	57049	70031781	0.500	370.806	#
29)		2,4'-DDT	7.886	8.715	129876	52779585	1.184	295.950	#
30)		cis-Nonac...	8.002	8.758	32436804	59560270	156.235	177.554	
31)		Mirex	8.651	9.688	103310	60861376	0.824	327.083	#
32)		Chlordane...	7.425	8.130	37621413	66447972	1910.724	1836.362	
33)		Chlordane...	7.521	8.238	35207945	63977063	1404.705	2106.999	#
34)		Chlordane...	8.058	8.862f	183720	51834888	31.779	5781.350	#
35)		Chlordane...	3.445	0.000	4872	0	NoCal	N.D.	
36)		Toxaphene...	7.521	8.489f	35207945	70031781	39310.050	26686.316	
37)		Toxaphene...	7.791	0.000	39217772	0	24284.375	N.D.	#
38)		Toxaphene...	8.112	8.862	29471042	51834888	8751.637	10227.240	
39)		Toxaphene...	8.322f	8.943f	634260	207653	195.750	24.869	#
40)		Toxaphene...	8.537f	9.098	14271143	45084544	5953.399	9674.052	#
41)		Toxaphene...	8.651	9.463	103310	23714100	32.646	4992.230	#
42)		Toxaphene...	3.445	0.000	4872	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:52
Operator : MJB
Sample : 9H23034-CAL8
Misc : A19E244, AB 200 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: Aug 26 12:01:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:44
Operator : MJB
Sample : 9H23034-CAL9
Misc : A19E272, 9-42 1 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: Aug 26 12:02:15 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

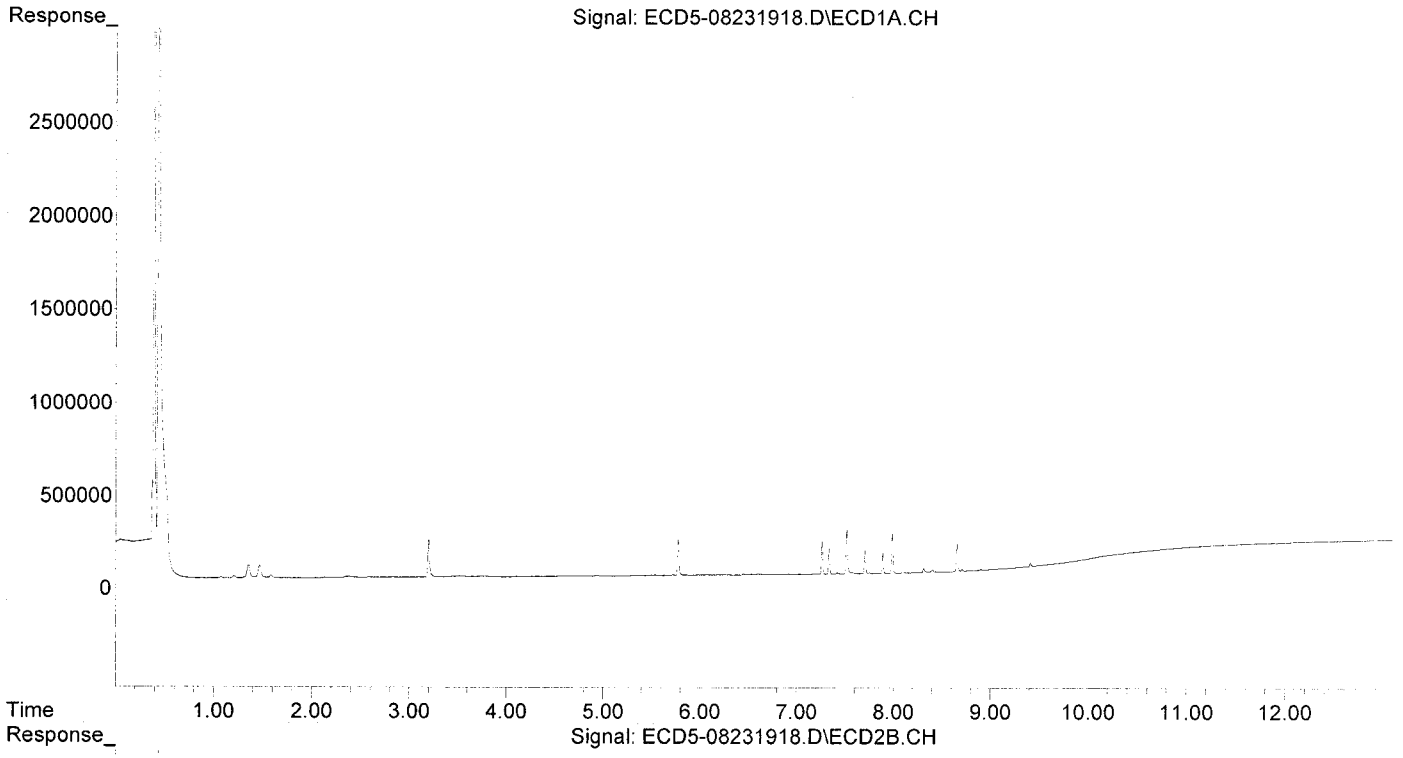
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.984	0	6576	N.D.	0.022	#
22)	S	DCBP (S)	9.593	10.540	2255	5805	0.016	0.032	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.249f	0.000	4648	0	0.023	N.D.	#
4)		b-BHC	0.000	7.002f	0	7162	N.D.	0.045	#
5)		Heptachlor	6.601f	0.000	3572	0	0.020	N.D.	#
6)		d-BHC	6.449	7.232	5321	8483	0.027	0.024	
7)		Aldrin	0.000	7.577f	0	8990	N.D.	0.027	#
8)		Heptachlo...	7.335	0.000	137947	0	0.749	N.D.	#
9)		trans-Chl...	7.420	8.123	5532	219164	0.030	0.699	#
10)		cis-Chlor...	7.518	0.000	236836	0	1.301	N.D.	#
11)		Endosulfa...	7.582f	0.000	5522	0	0.032	N.D.	#
12)		4,4'-DDE	7.582	0.000	5522	0	0.029	N.D.	#
13)		Dieldrin	7.755f	8.495	4087	192040	0.021	0.631	#
14)		Endrin	7.987f	8.719	219220	173338	1.491	0.768	#
15)		4,4'-DDD	7.987	8.759	219220	332745	1.395	1.299	
16)		Endosulfa...	8.116	8.903f	2586	40443	0.018	0.175	#
17)		4,4'-DDT	8.202	0.000	1027	0	0.009	N.D.	#
18)		Endrin Al...	8.404	9.099	13122	17799	BelowCal	BelowCal	
19)		Endosulfa...	8.706	9.290	8041	12118	0.052	0.049	
20)		Methoxychlor	8.548	0.000	665	0	0.011	N.D.	#
21)		Endrin Ke...	8.900	9.680	3962	209783	0.024	0.815	#
23)		Hexachlor...	3.198	3.687	198207	383198	1.085	1.019	
24)		Hexachlor...	5.775	6.453	194679	328025	1.104	1.044	
25)		Oxychlordane	7.263	7.922	176844	279143	1.075	1.019	
26)		2,4'-DDE	7.335	8.123	137947	219164	1.076	1.033	
27)		trans-Non...	7.518	8.195	236836	306202	1.006	1.015	
28)		2,4'-DDD	7.707	8.495	120240	192040	1.054	1.017	
29)		2,4'-DDT	7.890	8.719	107110	173338	0.977	0.972	
30)		cis-Nonac...	7.987	8.759	219220	332745	1.056	0.992	
31)		Mirex	8.655	9.680	147356	209783	1.175	1.127	
32)		Chlordane...	7.420	8.123	5532	219164	0.281	6.057	#
33)		Chlordane...	7.518	0.000	236836	0	9.449	N.D.	#
34)		Chlordane...	0.000	8.903	0	40443	N.D.	4.511	#
35)		Chlordane...	3.444	0.000	4642	0	NoCal	N.D.	
36)		Toxaphene...	7.518	8.495f	236836	192040	264.430	73.179	#
37)		Toxaphene...	7.755f	0.000	4087	0	2.531	N.D.	#
38)		Toxaphene...	8.116	0.000	2586	0	0.768	N.D.	#
39)		Toxaphene...	8.312f	8.903	22217	40443	6.857	4.844	
40)		Toxaphene...	8.548f	9.099	665	17799	0.277	3.819	#
41)		Toxaphene...	8.655	0.000	147356	0	46.564	N.D.	#
42)		Toxaphene...	3.444	0.000	4642	0	NoCal	N.D.	

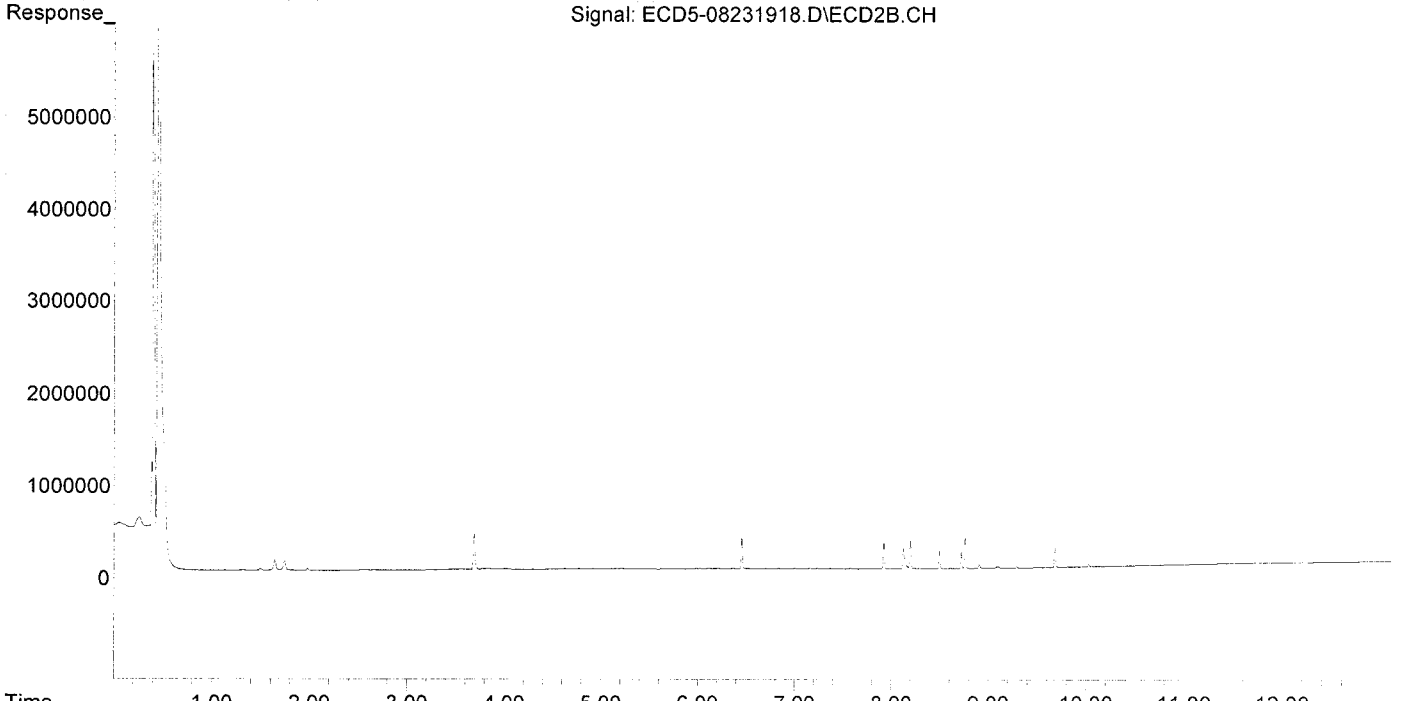
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:44
Operator : MJB
Sample : 9H23034-CAL9
Misc : A19E272, 9-42 1 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: Aug 26 12:02:15 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:01
Operator : MJB
Sample : 9H23034-CALA
Misc : A19E273, 9-42 2 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: Aug 26 12:02:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

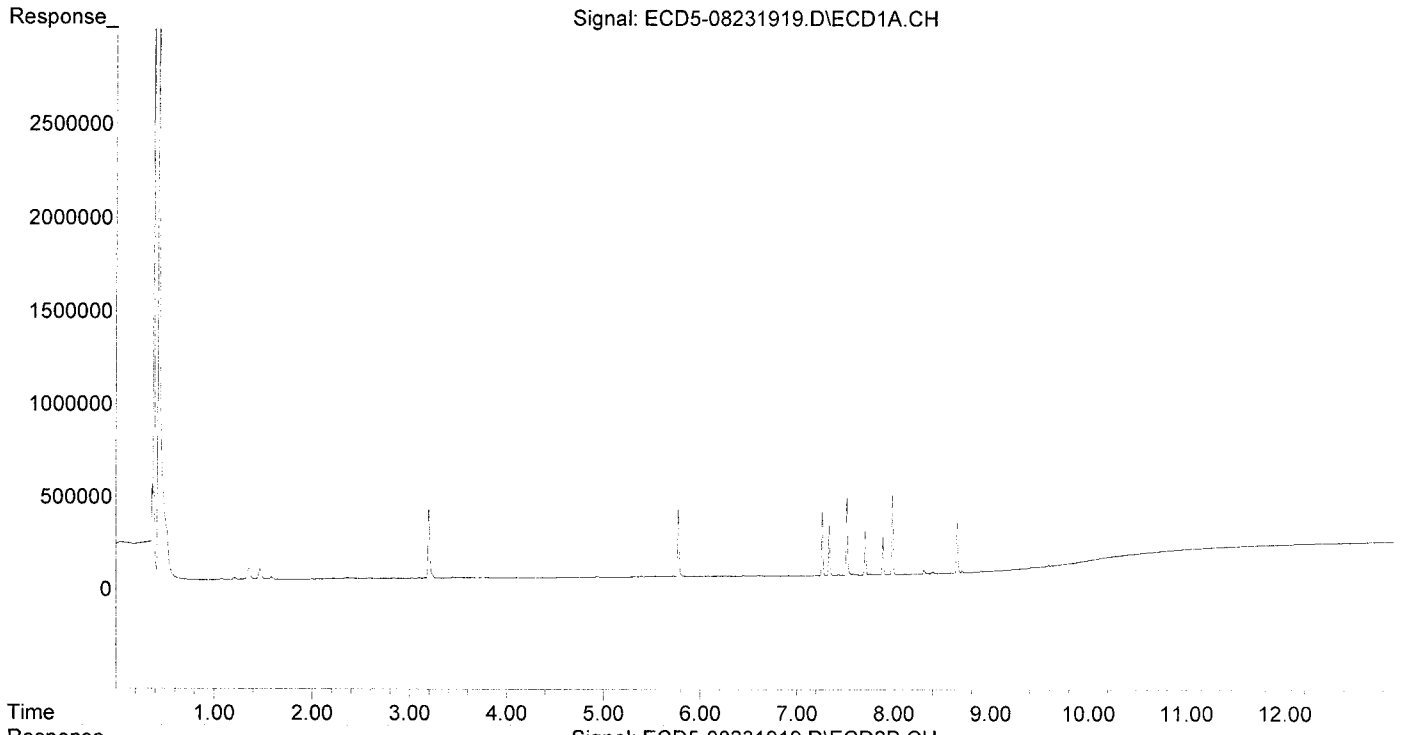
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.394	5.986	6323	13044	0.038	0.044	
22) S	DCBP (S)	9.592	10.539	6116	7474	0.043	0.042	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.248f	0.000	3811	0	0.019	N.D.	#
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.631	0.000	3915	0	0.022	N.D.	#
6)	d-BHC	6.449	7.231	6839	9605	0.035	0.027	
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	7.334	0.000	265212	0	1.440	N.D.	#
9)	trans-Chl...	7.429	8.123	4955	411812	0.027	1.314	#
10)	cis-Chlor...	7.518	0.000	415126	0	2.280	N.D.	#
11)	Endosulfa...	7.582f	0.000	3811	0	0.022	N.D.	#
12)	4,4'-DDE	7.582	0.000	3811	0	0.020	N.D.	#
13)	Dieldrin	7.754f	8.495	8020	373596	0.042	1.228	#
14)	Endrin	7.986f	8.718	423442	332170	2.880	1.471	#
15)	4,4'-DDD	7.986	8.758	423442	624783	2.695	2.439	
16)	Endosulfa...	8.116	8.862	3733	5461	0.026	0.024	
17)	4,4'-DDT	8.200	0.000	1311	0	0.011	N.D.	#
18)	Endrin Al...	8.405	9.099	11160	14424	BelowCal	BelowCal	
19)	Endosulfa...	8.705	9.289	10006	14488	0.065	0.058	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.899	9.680	5404	388199	0.032	1.509	#
23)	Hexachlor...	3.198	3.687	375794	754548	2.056	2.007	
24)	Hexachlor...	5.775	6.453	362082	632830	2.054	2.015	
25)	Oxychlordane	7.262	7.921	339370	541023	2.063	1.975	
26)	2,4'-DDE	7.334	8.123	265212	411812	2.068	1.941	
27)	trans-Non...	7.518	8.194	415126	587765	2.001	1.949	
28)	2,4'-DDD	7.707	8.495	233089	373596	2.042	1.978	
29)	2,4'-DDT	7.889	8.718	204209	332170	1.862	1.863	
30)	cis-Nonac...	7.986	8.758	423442	624783	2.040	1.863	
31)	Mirex	8.655	9.680	266770	388199	2.128	2.086	
32)	Chlordane...	7.429	8.123	4955	411812	0.252	11.381	#
33)	Chlordane...	7.518	0.000	415126	0	16.562	N.D.	#
34)	Chlordane...	0.000	8.903	0	41985	N.D.	4.683	#
35)	Chlordane...	3.444	0.000	5015	0	NoCal	N.D.	
36)	Toxaphene...	7.518	8.495f	415126	373596	463.493	142.363	#
37)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
38)	Toxaphene...	8.116	8.862	3733	5461	1.108	1.077	
39)	Toxaphene...	8.312f	8.903	22876	41985	7.060	5.028	
40)	Toxaphene...	0.000	9.099	0	14424	N.D.	3.095	#
41)	Toxaphene...	8.655	0.000	266770	0	84.299	N.D.	#
42)	Toxaphene...	3.444	0.000	5015	0	NoCal	N.D.	

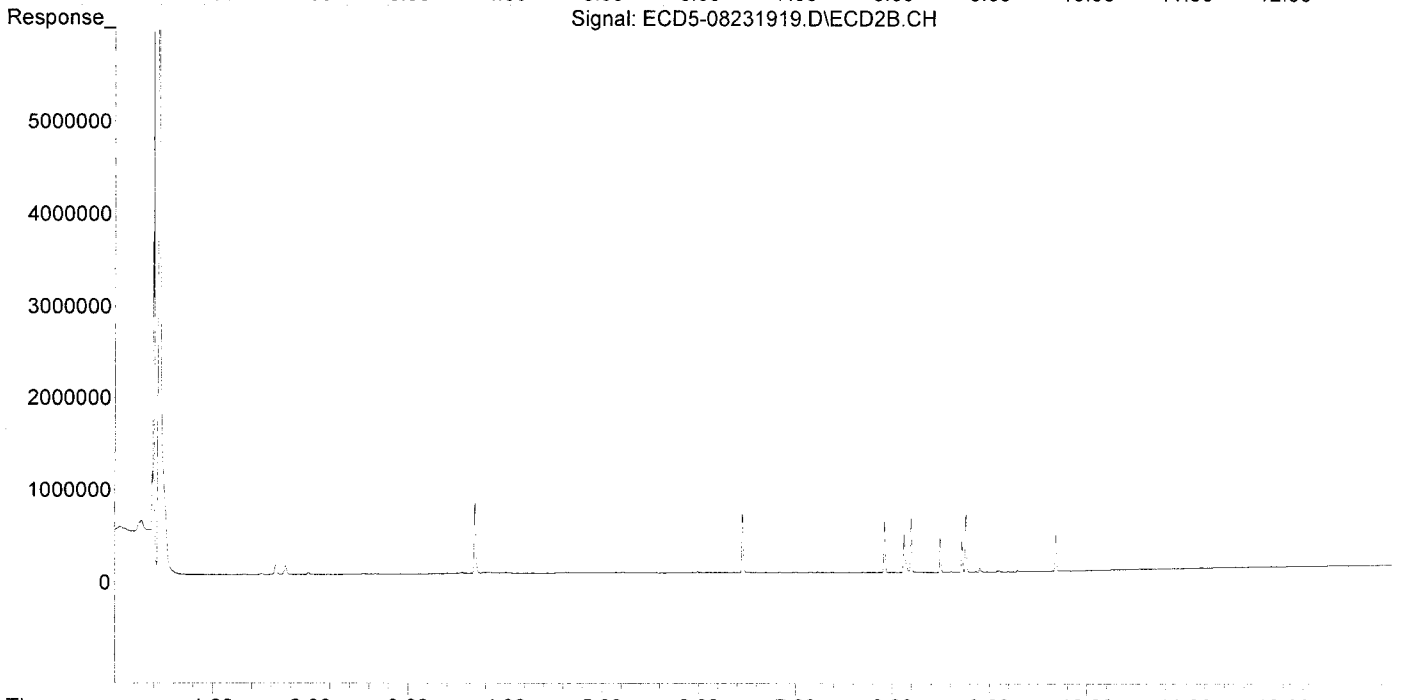
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:01
Operator : MJB
Sample : 9H23034-CALA
Misc : A19E273, 9-42 2 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: Aug 26 12:02:30 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:18
Operator : MJB
Sample : 9H23034-CALB
Misc : A19E274, 9-42 5 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: Aug 26 12:02:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

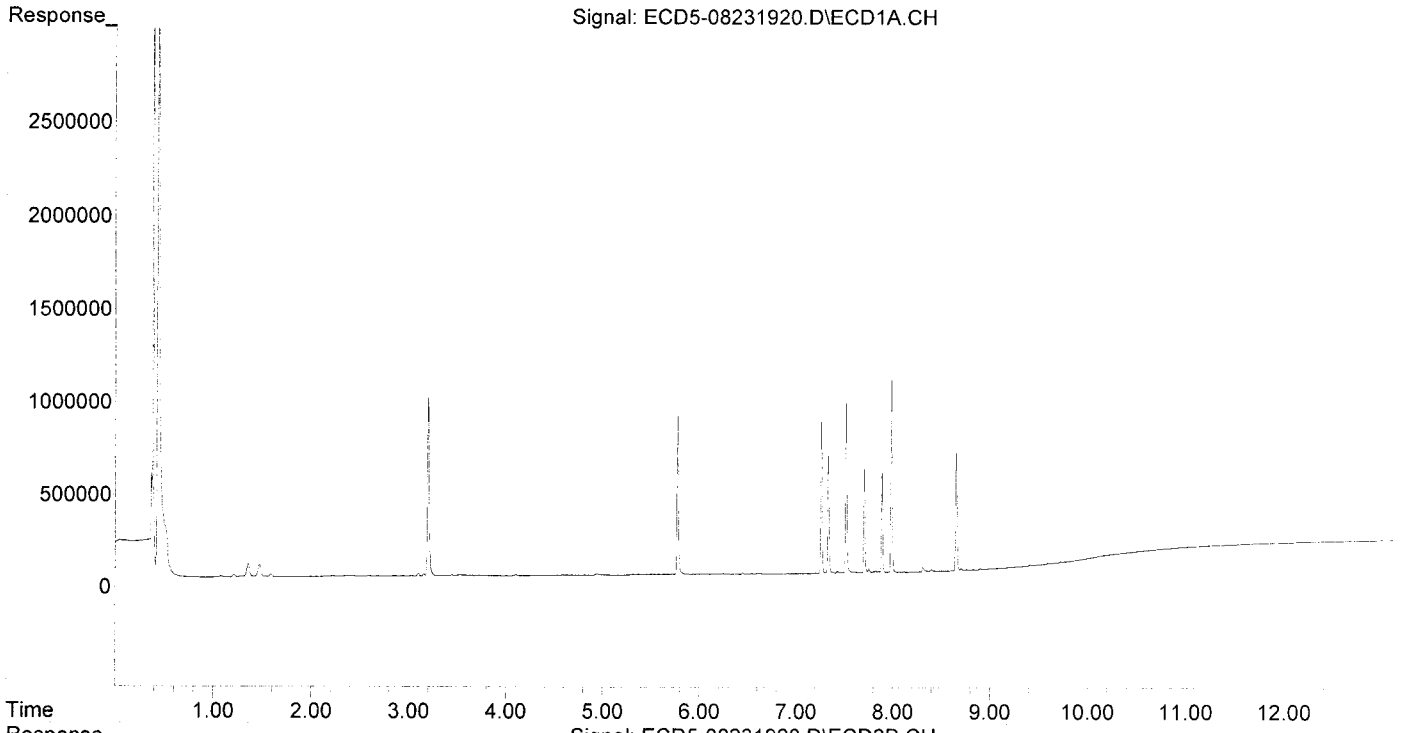
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.368f	5.982	4403	6341	0.027	0.022	
22)	S	DCBP (S)	9.592	10.539	7940	5412	0.056	0.030	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.247f	0.000	5412	0	0.027	N.D.	#
4)		b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)		Heptachlor	6.631	7.289	4685	5276	0.026	0.017	
6)		d-BHC	6.449	7.232	7597	11663	0.039	0.033	
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	7.334	7.991	633168	6408	3.438	0.021	#
9)		trans-Chl...	7.429	8.123	9886	1029687	0.053	3.286	#
10)		cis-Chlor...	7.518	8.236	933222	8550	5.126	0.029	#
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	7.799	8.495	5522	898697	0.029	2.955	#
14)		Endrin	7.986f	8.719	1025899	873074	6.978	3.866	#
15)		4,4'-DDD	7.986	8.759	1025899	1587243	6.529	6.195	
16)		Endosulfa...	8.116	8.862	3810	5519	0.027	0.024	
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.404	9.098	10319	12495	BelowCal	BelowCal	
19)		Endosulfa...	8.705	9.289	10733	14179	0.069	0.057	
20)		Methoxychlor	8.550	0.000	617	0	0.011	N.D.	#
21)		Endrin Ke...	8.899	9.679	5632	895523	0.034	3.480	#
23)		Hexachlor...	3.198	3.687	959211	1877484	5.249	4.994	
24)		Hexachlor...	5.775	6.453	853793	1485583	4.843	4.730	
25)		Oxychlordane	7.262	7.921	819748	1325543	4.982	4.839	
26)		2,4'-DDE	7.334	8.123	633168	1029687	4.937	4.854	
27)		trans-Non...	7.518	8.194	933222	1467723	4.893	4.866	
28)		2,4'-DDD	7.705	8.495	560942	898697	4.915	4.758	
29)		2,4'-DDT	7.889	8.719	536967	873074	4.895	4.896	
30)		cis-Nonac...	7.986	8.759	1025899	1587243	4.941	4.732	
31)		Mirex	8.654	9.679	628618	895523	5.014	4.813	
32)		Chlordane...	7.429	8.123	9886	1029687	0.502	28.457	#
33)		Chlordane...	7.518	8.236	933222	8550	37.233	0.282	#
34)		Chlordane...	0.000	8.903	0	41570	N.D.	4.636	#
35)		Chlordane...	3.443	3.434	5083	3848	NoCal	NoCal	
36)		Toxaphene...	7.518	8.495f	933222	898697	1041.953	342.457	#
37)		Toxaphene...	7.799	0.000	5522	0	3.419	N.D.	#
38)		Toxaphene...	8.116	8.862	3810	5519	1.131	1.089	
39)		Toxaphene...	8.312f	8.903	22738	41570	7.017	4.979	
40)		Toxaphene...	8.550f	9.098	617	12495	0.257	2.681	#
41)		Toxaphene...	8.654	0.000	628618	0	198.642	N.D.	#
42)		Toxaphene...	3.443	3.434	5083	3848	NoCal	NoCal	

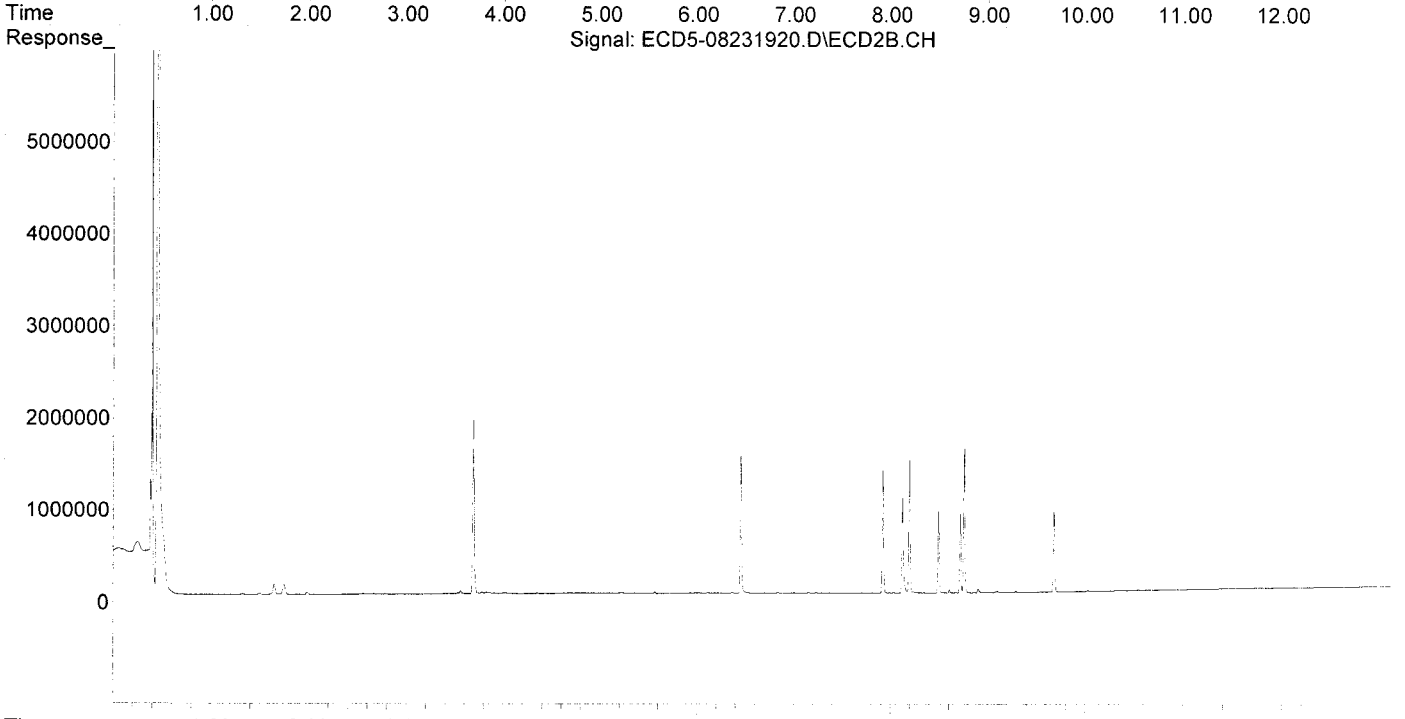
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:18
Operator : MJB
Sample : 9H23034-CALB
Misc : A19E274, 9-42 5 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: Aug 26 12:02:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:35
Operator : MJB
Sample : 9H23034-CALC
Misc : A19E275, 9-42 10 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: Aug 26 12:02:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/27/19

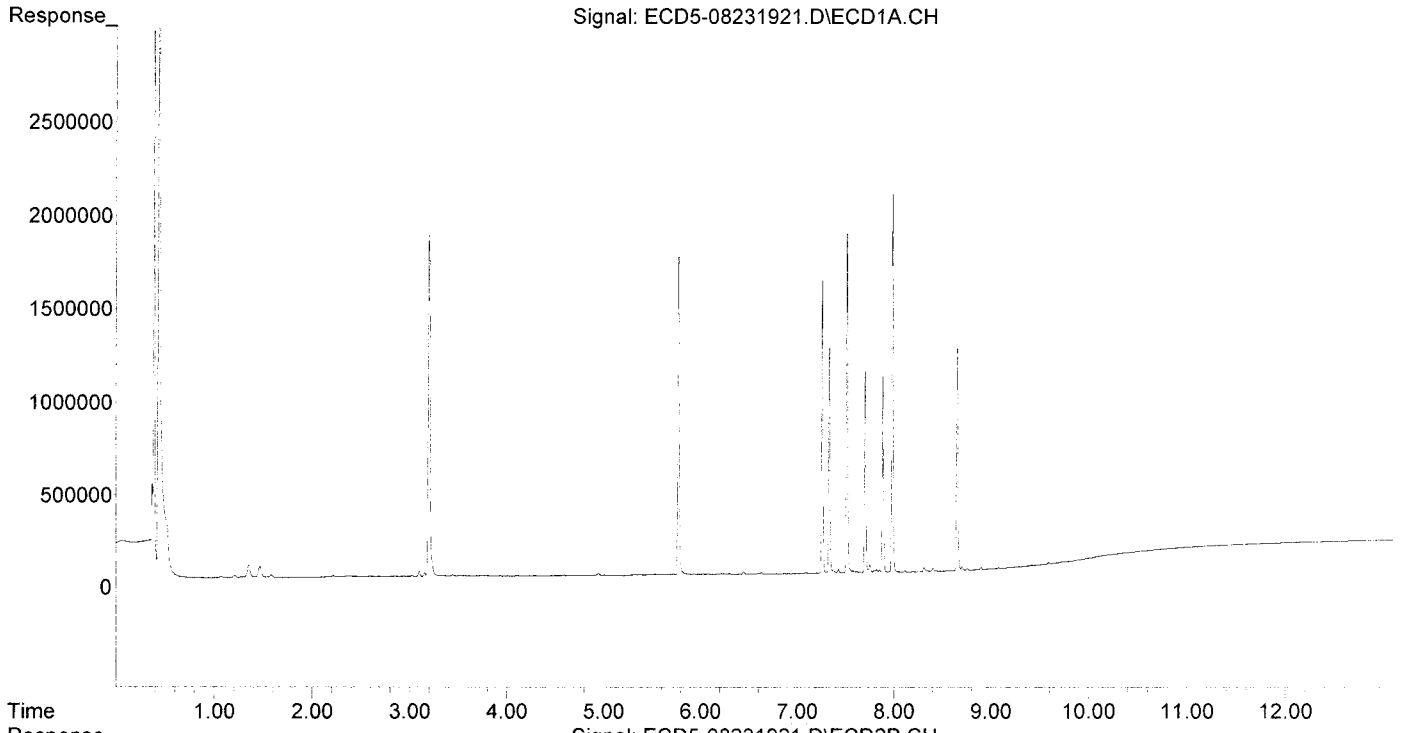
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.367f	5.983	5244	8048	0.032	0.027	
22)	S	DCBP (S)	9.591	10.539	8426	10511	0.060	0.058	
		Target Compounds							
2)		a-BHC	5.934	6.594	5268	9085	0.023	0.022	
3)		g-BHC	6.219	6.912	5161	7308	0.026	0.020	
4)		b-BHC	6.300	6.978	6085	7741	0.067	0.049	
5)		Heptachlor	6.631	7.288	8267	12275	0.046	0.040	
6)		d-BHC	6.449	7.232	14325	24245	0.073	0.069	
7)		Aldrin	6.872	7.553	3901	5863	0.020	0.018	
8)		Heptachlo...	7.333	7.990	1245265	15714	6.761	0.052	#
9)		trans-Chl...	7.428	8.122	20597	2018331	0.111	6.442	#
10)		cis-Chlor...	7.516	8.236	1817552	21137	9.983	0.073	#
11)		Endosulfa...	7.620	8.289	8045	10794	0.047	0.039	
12)		4,4'-DDE	7.582	8.342	11334	7910	0.060	0.025	#
13)		Dieldrin	7.797	8.495	12142	1778790	0.063	5.848	#
14)		Endrin	7.986f	8.719	2032010	1702568	13.821	7.539	#
15)		4,4'-DDD	7.986	8.759	2032010	3148054	12.931	12.287	
16)		Endosulfa...	8.115	8.863	8267	13466	0.058	0.058	
17)		4,4'-DDT	8.202	0.000	2833	0	0.024	N.D.	#
18)		Endrin Al...	8.404	9.098	18899	26666	BelowCal	BelowCal	
19)		Endosulfa...	8.705	9.289	20232	26713	0.131	0.107	
20)		Methoxychlor	8.543	0.000	1294	0	0.022	N.D.	#
21)		Endrin Ke...	8.899	9.679	11108	1722960	0.067	6.696	#
23)		Hexachlor...	3.198	3.687	1838187	3701532	10.059	9.846	
24)		Hexachlor...	5.774	6.453	1711884	2936294	9.710	9.349	
25)		Oxychlordane	7.261	7.921	1591613	2538903	9.673	9.269	
26)		2,4'-DDE	7.333	8.122	1245265	2018331	9.709	9.514	
27)		trans-Non...	7.516	8.194	1817552	2844404	9.830	9.430	
28)		2,4'-DDD	7.705	8.495	1103587	1778790	9.670	9.418	
29)		2,4'-DDT	7.888	8.719	1051565	1702568	9.587	9.547	
30)		cis-Nonac...	7.986	8.759	2032010	3148054	9.787	9.385	
31)		Mirex	8.654	9.679	1196365	1722960	9.543	9.260	
32)		Chlordane...	7.428	8.122	20597	2018331	1.046	55.779	#
33)		Chlordane...	7.516	8.236	1817552	21137	72.516	0.696	#
34)		Chlordane...	0.000	8.903	0	42511	N.D.	4.741	#
35)		Chlordane...	3.445	3.433	6229	7261	NoCal	NoCal	
36)		Toxaphene...	7.516	8.495f	1817552	1778790	2029.316	677.826	#
37)		Toxaphene...	7.797	0.000	12142	0	7.518	N.D.	#
38)		Toxaphene...	8.115	8.863	8267	13466	2.455	2.657	
39)		Toxaphene...	8.312f	8.903	23581	42511	7.278	5.091	
40)		Toxaphene...	8.582	9.098	560	26666	0.234	5.722	#
41)		Toxaphene...	8.654	0.000	1196365	0	378.048	N.D.	#
42)		Toxaphene...	3.445	3.433	6229	7261	NoCal	NoCal	

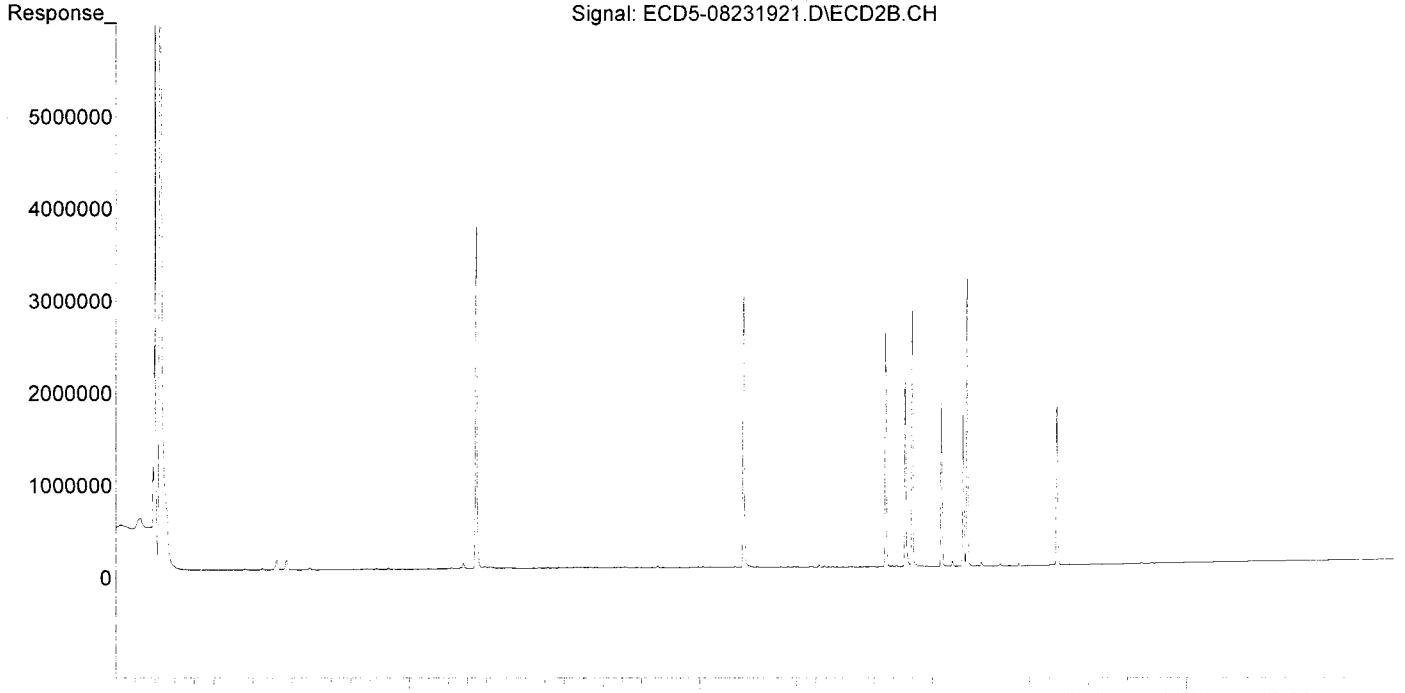
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:35
Operator : MJB
Sample : 9H23034-CALC
Misc : A19E275, 9-42 10 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: Aug 26 12:02:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:53
Operator : MJB
Sample : 9H23034-CALD
Misc : A19E276, 9-42 25 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: Aug 26 12:03:06 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

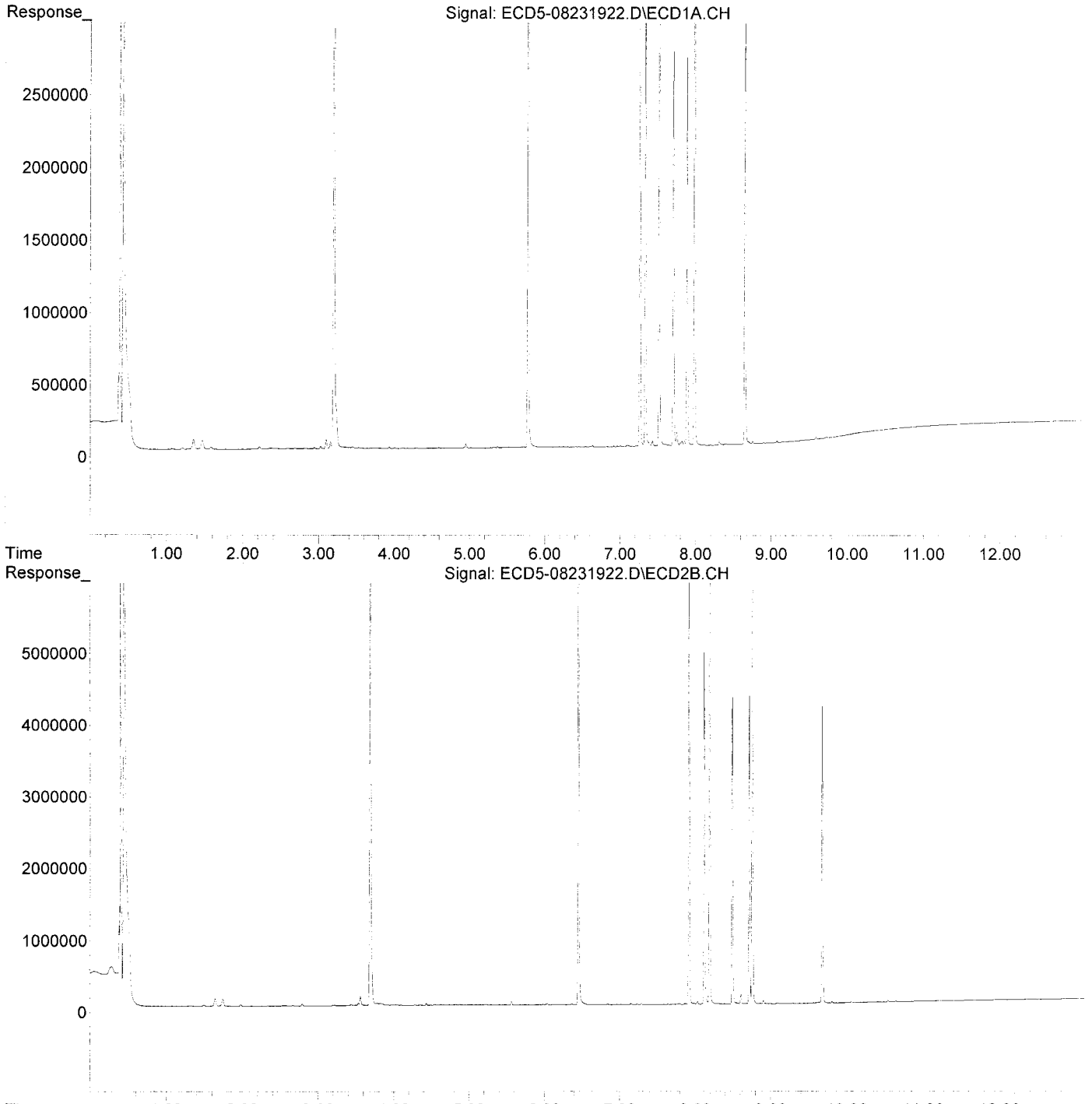
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.367f	5.981	10828	6833	0.065	0.023	#
22) S	DCBP (S)	9.592	10.539	20297	20262	0.144	0.113	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.248f	0.000	5786	0	0.029	N.D.	#
4)	b-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	Heptachlor	6.632	7.288	9958	12977	0.055	0.042	
6)	d-BHC	6.450	7.231	5090	7876	0.026	0.022	
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	7.333	7.989	3059421	19960	16.611	0.066	#
9)	trans-Chl...	7.428	8.122	36083	4999232	0.195	15.955	#
10)	cis-Chlor...	7.516	8.235	4391046	27018	24.117	0.093	#
11)	Endosulfa...	7.604	8.299	11350	9999	0.067	0.036	#
12)	4,4'-DDE	7.604f	0.000	11350	0	0.060	N.D.	#
13)	Dieldrin	7.800	8.495	19961	4389185	0.104	14.431	#
14)	Endrin	7.986f	8.719	4993110	4405554	33.960	19.509	#
15)	4,4'-DDD	7.986	8.759	4993110	8219393	31.775	32.080	
16)	Endosulfa...	0.000	8.862	0	7977	N.D.	0.035	#
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.404	9.098	7779	9076	BelowCal	BelowCal	
19)	Endosulfa...	0.000	9.289	0	11382	N.D.	0.046	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.899	9.679	4709	4138115	0.028	16.082	#
23)	Hexachlor...	3.198	3.687	4363988	8892238	23.881	23.654	
24)	Hexachlor...	5.774	6.453	4184551	7416324	23.736	23.612	
25)	Oxychlordane	7.261	7.920	3881255	6202791	23.589	22.646	
26)	2,4'-DDE	7.333	8.122	3059421	4999232	23.853	23.566	
27)	trans-Non...	7.516	8.194	4391046	7092288	24.199	23.513	
28)	2,4'-DDD	7.705	8.495	2745178	4389185	24.054	23.240	
29)	2,4'-DDT	7.888	8.719	2728794	4405554	24.878	24.703	
30)	cis-Nonac...	7.986	8.759	4993110	8219393	24.050	24.503	
31)	Mirex	8.654	9.679	2910818	4138115	23.218	22.239	
32)	Chlordane...	7.428	8.122	36083	4999232	1.833	138.159	#
33)	Chlordane...	7.516	8.235	4391046	27018	175.191	0.890	#
34)	Chlordane...	0.000	8.903	0	43328	N.D.	4.833	#
35)	Chlordane...	3.444	3.433	9286	16581	NoCal	NoCal	
36)	Toxaphene...	7.516	8.495f	4391046	4389185	4902.650	1672.543	#
37)	Toxaphene...	7.800	0.000	19961	0	12.360	N.D.	#
38)	Toxaphene...	0.000	8.862	0	7977	N.D.	1.574	#
39)	Toxaphene...	8.313f	8.903	24731	43328	7.633	5.189	
40)	Toxaphene...	8.607f	9.098	797	9076	0.332	1.947	#
41)	Toxaphene...	8.654	0.000	2910818	0	919.811	N.D.	#
42)	Toxaphene...	3.444	3.433	9286	16581	NoCal	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:53
Operator : MJB
Sample : 9H23034-CALD
Misc : A19E276, 9-42 25 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: Aug 26 12:03:06 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:10
Operator : MJB
Sample : 9H23034-CALE
Misc : A19E154, 9-42 50 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: Aug 26 12:03:18 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

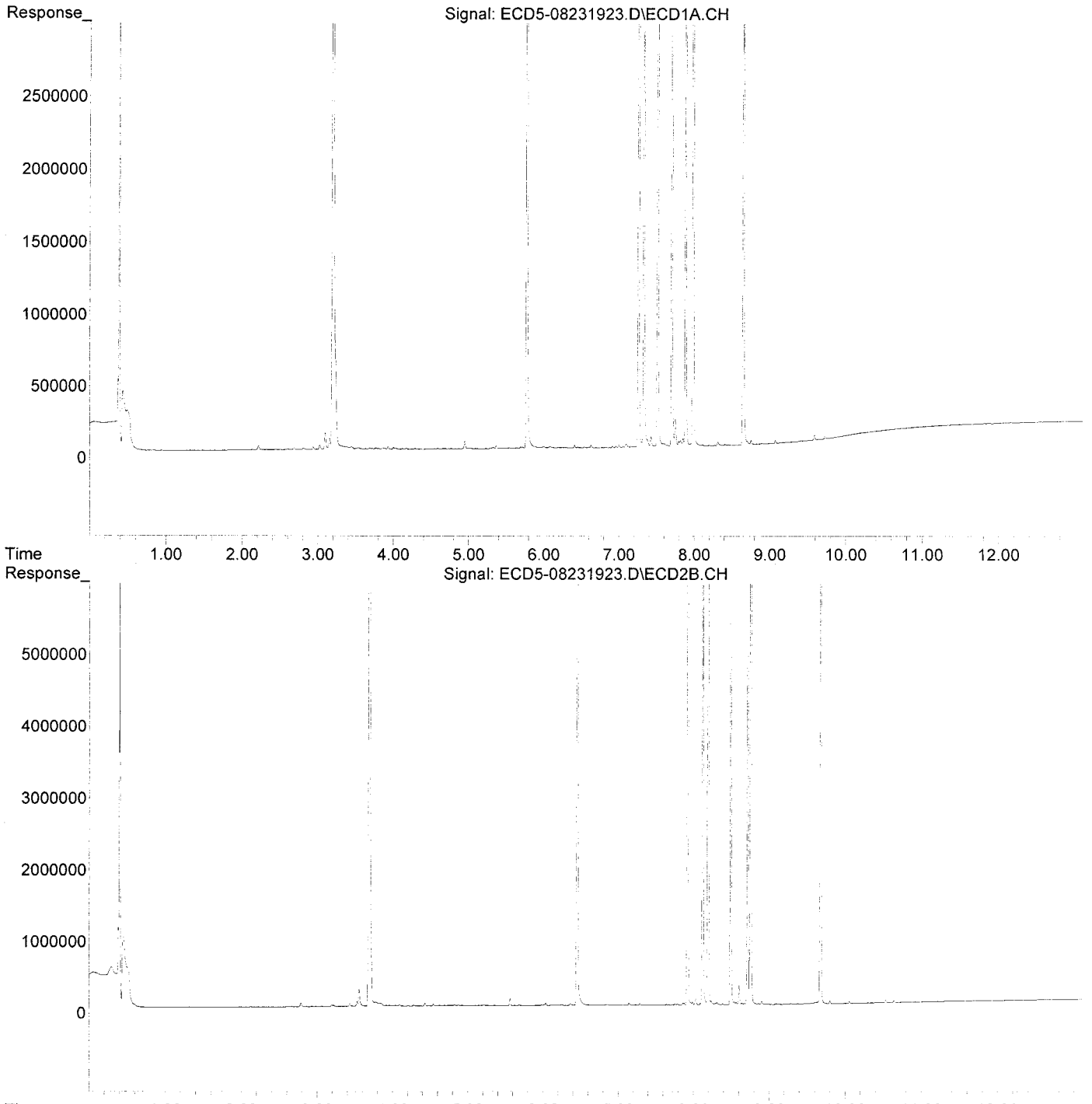
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.367f	5.981	19019	8441	0.115	0.029	#
22) S	DCBP (S)	9.591	10.538	35203	39503	0.249	0.220	
	Target Compounds							
2)	a-BHC	5.949	0.000	5252	0	0.023	N.D.	#
3)	g-BHC	6.196f	6.951f	4084	3735	0.020	0.010	#
4)	b-BHC	0.000	6.951f	0	3735	N.D.	0.024	#
5)	Heptachlor	6.632	7.289	17900	26152	0.099	0.085	
6)	d-BHC	6.450	7.232	4458	7173	0.023	0.020	
7)	Aldrin	0.000	7.520f	0	4998	N.D.	0.015	#
8)	Heptachlo...	7.333	7.989	6510588	39220	35.349	0.130	#
9)	trans-Chl...	7.428	8.122	71663	11006400	0.388	35.128	#
10)	cis-Chlor...	7.516	8.236	9581794	53379	52.627	0.183	#
11)	Endosulfa...	7.604	8.299	22096	24918	0.130	0.091	
12)	4,4'-DDE	7.604f	8.314f	22096	29928	0.117	0.096	
13)	Dieldrin	7.798	8.495	33203	9924934	0.173	32.632	#
14)	Endrin	7.985f	8.718	10616019	8810591	72.204	39.015	#
15)	4,4'-DDD	7.985	8.758	10616019	17721229	67.557	69.166	
16)	Endosulfa...	0.000	8.862	0	12791	N.D.	0.055	#
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.409	9.099	5626	7468	BelowCal	BelowCal	
19)	Endosulfa...	0.000	9.289	0	9409	N.D.	0.038	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.898	9.679	5162	9100959	0.031	35.369	#
23)	Hexachlor...	3.198	3.688	8761747	18635615	47.947	49.572	
24)	Hexachlor...	5.774	6.454	8911624	16094159	50.550	51.241	
25)	Oxychlordane	7.261	7.920	8382873	14172543	50.948	51.743	
26)	2,4'-DDE	7.333	8.122	6510588	11006400	50.760	51.883	
27)	trans-Non...	7.516	8.194	9581794	15807712	53.197	52.407	
28)	2,4'-DDD	7.705	8.495	5920095	9924934	51.874	52.551	
29)	2,4'-DDT	7.888	8.718	5687323	8810591	51.850	49.404	
30)	cis-Nonac...	7.985	8.758	10616019	17721229	51.133	52.828	
31)	Mirex	8.652	9.679	6218341	9100959	49.601	48.911	
32)	Chlordane...	7.428	8.122	71663	11006400	3.640	304.174	#
33)	Chlordane...	7.516	8.236	9581794	53379	382.289	1.758	#
34)	Chlordane...	0.000	8.903	0	43859	N.D.	4.892	#
35)	Chlordane...	3.445	3.433	16729	32384	NoCal	NoCal	
36)	Toxaphene...	7.516	8.495f	9581794	9924934	10698.176	3781.996	#
37)	Toxaphene...	7.798	0.000	33203	0	20.560	N.D.	#
38)	Toxaphene...	0.000	8.862	0	12791	N.D.	2.524	#
39)	Toxaphene...	8.314f	8.903	24262	43859	7.488	5.253	
40)	Toxaphene...	8.605f	9.099	1073	7468	0.448	1.603	#
41)	Toxaphene...	8.652	0.000	6218341	0	1964.980	N.D.	#
42)	Toxaphene...	3.445	3.433	16729	32384	NoCal	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:10
Operator : MJB
Sample : 9H23034-CALE
Misc : A19E154, 9-42 50 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: Aug 26 12:03:18 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:27
Operator : MJB
Sample : 9H23034-CALF
Misc : A19E155, 9-42 100 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: Aug 26 12:03:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

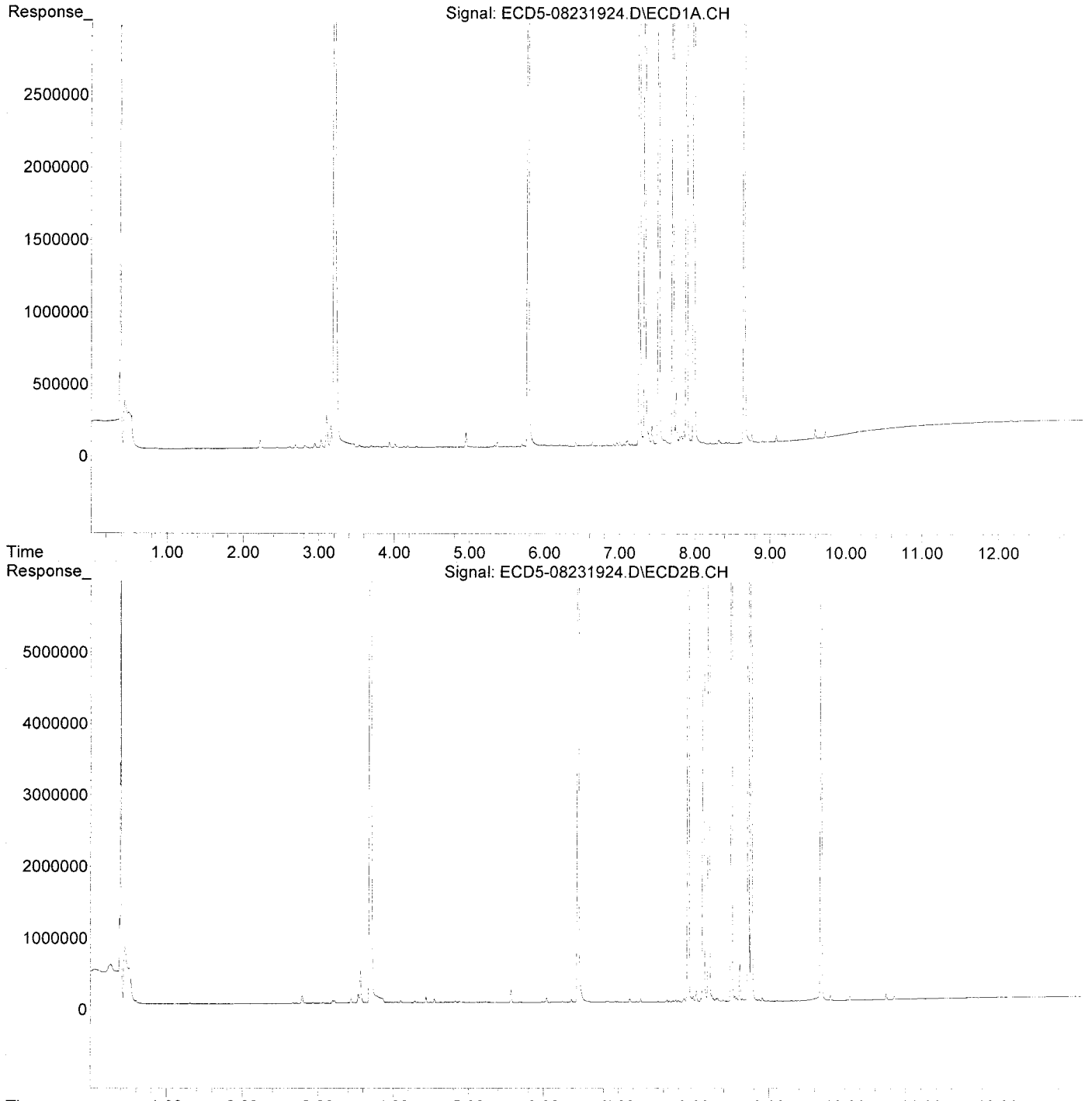
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.368f	5.981	33988	9402	0.205	0.032	#
22)	S	DCBP (S)	9.592	10.540	62236	73549	0.441	0.409	
		Target Compounds							
2)		a-BHC	5.950	0.000	8055	0	0.035	N.D.	#
3)		g-BHC	6.198	6.952f	8435	9250	0.042	0.026	
4)		b-BHC	6.301	6.979	5312	6852	0.059	0.043	
5)		Heptachlor	6.634	7.290	29320	42832	0.162	0.140	
6)		d-BHC	6.451	7.234	4881	8440	0.025	0.024	
7)		Aldrin	0.000	7.521f	0	8525	N.D.	0.026	#
8)		Heptachlo...	7.334	7.990	12769067	71027	69.330	0.236	#
9)		trans-Chl...	7.428	8.123	131019	22164400	0.709	70.739	#
10)		cis-Chlor...	7.516	8.237	18351251	88947	100.792	0.305	#
11)		Endosulfa...	7.604	8.299	36455	42308	0.214	0.154	
12)		4,4'-DDE	7.604f	8.315f	36455	43813	0.193	0.141	
13)		Dieldrin	7.798	8.496	56666	20118925	0.295	66.148	#
14)		Endrin	7.986f	8.721	20932641	18998968	142.373	84.131	#
15)		4,4'-DDD	7.986	8.760	20932641	36072644	133.210	140.791	
16)		Endosulfa...	8.115	8.863	14279	23343	0.099	0.101	
17)		4,4'-DDT	8.202	8.985	6473	9074	0.054	0.015	#
18)		Endrin Al...	8.415	9.101	7567	8073	BelowCal	BelowCal	
19)		Endosulfa...	0.000	9.290	0	9186	N.D.	0.037	#
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.898	9.680	6812	19363200	0.041	75.251	#
23)		Hexachlor...	3.199	3.690	17952134	39298885	98.239	104.537	
24)		Hexachlor...	5.776	6.455	17670025	32766708	100.231	104.324	
25)		Oxychlordane	7.261	7.922	16359215	29732149	99.425	108.550	
26)		2,4'-DDE	7.334	8.123	12769067	22164400	99.555	104.481	
27)		trans-Non...	7.516	8.195	18351251	31975271	102.232	106.006	
28)		2,4'-DDD	7.705	8.496	11587554	20118925	101.534	106.526	
29)		2,4'-DDT	7.888	8.721	11771354	18998968	107.317	106.533	
30)		cis-Nonac...	7.986	8.760	20932641	36072644	100.824	107.535	
31)		Mirex	8.653	9.680	11960753	19363200	95.406	104.062	
32)		Chlordane...	7.428	8.123	131019	22164400	6.654	612.537	#
33)		Chlordane...	7.516	8.237	18351251	88947	732.167	2.929	#
34)		Chlordane...	0.000	8.905	0	44814	N.D.	4.998	#
35)		Chlordane...	3.443	3.434	27193	63535	NoCal	NoCal	
36)		Toxaphene...	7.516	8.496f	18351251	20118925	20489.369	7666.519	#
37)		Toxaphene...	7.798	0.000	56666	0	35.089	N.D.	#
38)		Toxaphene...	8.115	8.863	14279	23343	4.240	4.606	
39)		Toxaphene...	8.316f	8.905	25592	44814	7.898	5.367	
40)		Toxaphene...	8.604f	9.101	1951	8073	0.814	1.732	#
41)		Toxaphene...	8.653	0.000	11960753	0	3779.567	N.D.	#
42)		Toxaphene...	3.443	3.434	27193	63535	NoCal	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:27
Operator : MJB
Sample : 9H23034-CALF
Misc : A19E155, 9-42 100 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: Aug 26 12:03:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:45
Operator : MJB
Sample : 9H23034-CALG
Misc : A19E271, 9-42 200 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: Aug 26 12:03:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/26/19

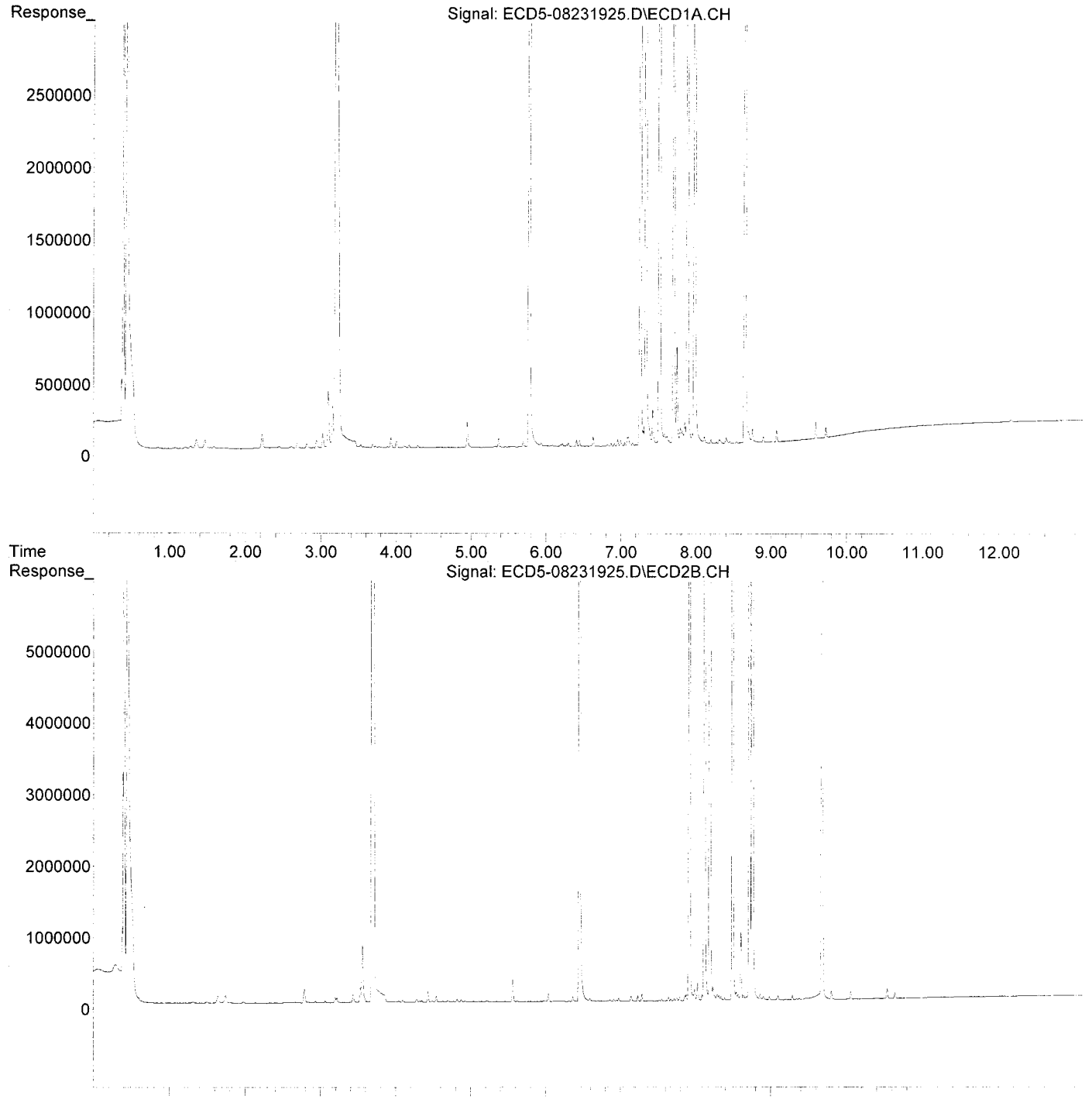
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.367f	5.980	60549	10992	0.365	0.037	#
22)	S	DCBP (S)	9.590	10.538	118766	140925	0.842	0.784	
		Target Compounds							
2)		a-BHC	5.933	6.593	27118	40902	0.118	0.100	
3)		g-BHC	6.218	6.912	21255	30993	0.105	0.087	
4)		b-BHC	6.299	6.977	25058	44238	0.277	0.280	
5)		Heptachlor	6.630	7.287	63252	104459	0.349	0.341	
6)		d-BHC	6.448	7.231	43545	78794	0.221	0.223	
7)		Aldrin	6.870	7.552	17012	29944	0.086	0.091	
8)		Heptachlo...	7.331	7.988	24819199	162906	134.756	0.541	#
9)		trans-Chl...	7.425	8.122	250239	44504592	1.353	142.039	#
10)		cis-Chlor...	7.514	8.235	35027918	188111	192.386	0.646	#
11)		Endosulfa...	7.581f	8.289	74592	84898	0.438	0.309	
12)		4,4'-DDE	7.581	8.341	74592	59877	0.396	0.193	#
13)		Dieldrin	7.794	8.494	114089	39839303	0.594	130.986	#
14)		Endrin	7.984f	8.719	40046185	39999231	272.373	177.123	
15)		4,4'-DDD	7.984	8.759	40046185	72455823	254.843	282.794	
16)		Endosulfa...	8.113	8.861	50946	84198	0.355	0.365	
17)		4,4'-DDT	8.201	8.983	28640	48189	0.240	0.243	
18)		Endrin Al...	8.404	9.098	39025	57504	BelowCal	BelowCal	
19)		Endosulfa...	0.000	9.289	0	61418	N.D.	0.247	#
20)		Methoxychlor	8.541	9.464	9687	26335	0.165	0.141	
21)		Endrin Ke...	8.898	9.679	37586	38425530	0.225	149.332	#
23)		Hexachlor...	3.199	3.689	34166533	75988565	186.969	202.134	
24)		Hexachlor...	5.774	6.454	34073459	66261966	193.277	210.967	
25)		Oxychlordane	7.258	7.920	32032634	58736982	194.683	214.445	
26)		2,4'-DDE	7.331	8.122	24819199	44504592	193.505	209.791	
27)		trans-Non...	7.514	8.194	35027918	63083636	195.632	209.138	
28)		2,4'-DDD	7.703	8.494	21916962	39839303	192.043	210.942	
29)		2,4'-DDT	7.887	8.719	23024956	39999231	209.914	224.287	
30)		cis-Nonac...	7.984	8.759	40046185	72455823	192.886	215.996	
31)		Mirex	8.652	9.679	23284997	38425530	185.735	206.507	
32)		Chlordane...	7.425	8.122	250239	44504592	12.709	1229.933	#
33)		Chlordane...	7.514	8.235	35027918	188111	1397.523	6.195	#
34)		Chlordane...	0.000	8.902	0	52051	N.D.	5.805	#
35)		Chlordane...	3.438	3.433	48985	106773	NoCal	NoCal	
36)		Toxaphene...	7.514	8.494f	35027918	39839303	39109.048	15181.168	#
37)		Toxaphene...	7.794	0.000	114089	0	70.646	N.D.	#
38)		Toxaphene...	8.113	8.861	50946	84198	15.129	16.613	
39)		Toxaphene...	8.313f	8.902	28693	52051	8.856	6.234	
40)		Toxaphene...	8.602f	9.098	3169	57504	1.322	12.339	#
41)		Toxaphene...	8.652	9.464	23284997	26335	7357.999	5.544	#
42)		Toxaphene...	3.438	3.433	48985	106773	NoCal	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:45
Operator : MJB
Sample : 9H23034-CALG
Misc : A19E271, 9-42 200 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: Aug 26 12:03:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:36
Operator : MJB
Sample : 9H23034-CALH
Misc : A19F232, CHLOR 50 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: Aug 26 12:04:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 8/26/19

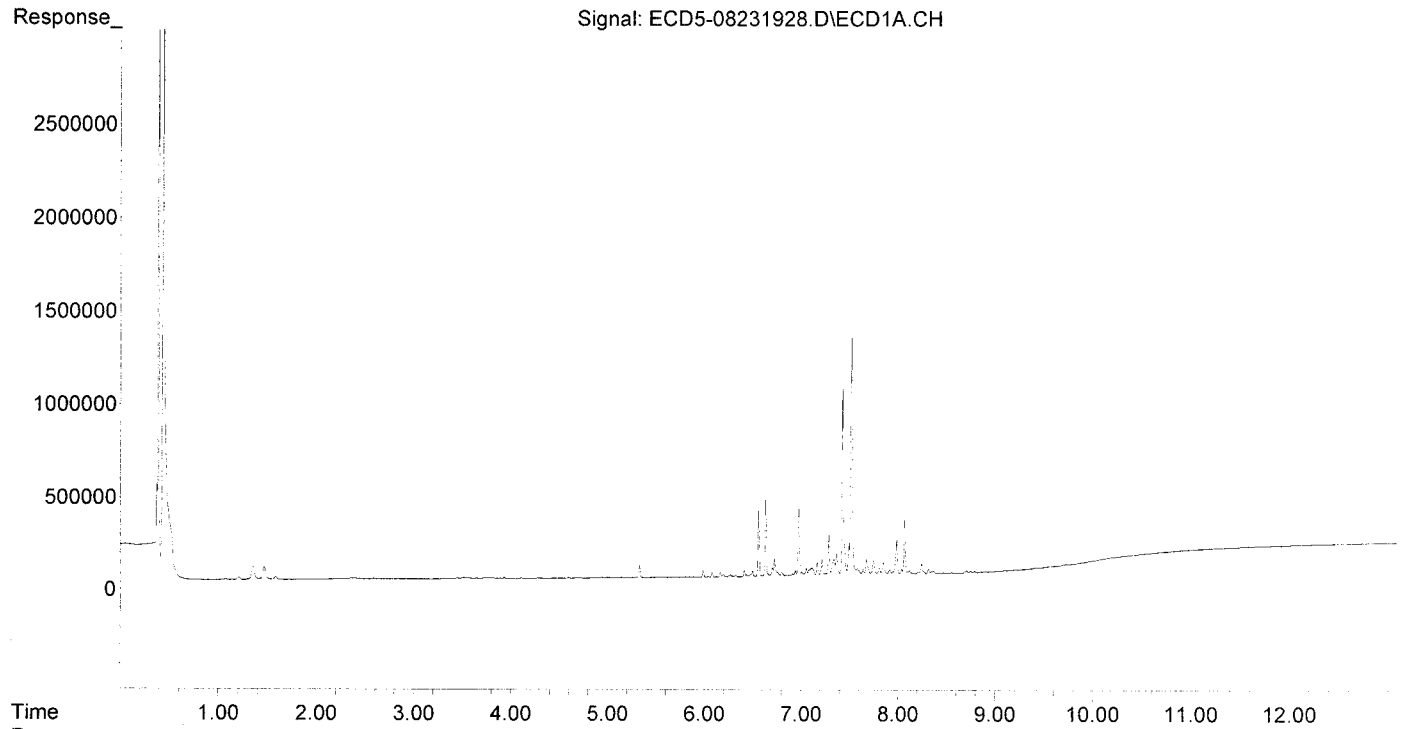
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	0.000	0	0	N.D.	N.D.	
22)	S	DCBP (S)	9.606	0.000	5901	0	0.042	N.D.	#
		Target Compounds							
2)		a-BHC	0.000	6.622f	0	41997	N.D.	0.102	#
3)		g-BHC	6.194f	6.924	13212	19652	0.065	0.055	
4)		b-BHC	6.323f	7.016f	10976	62438	0.121	0.395	#
5)		Heptachlor	6.632	7.288	412192	714454	2.274	2.335	
6)		d-BHC	6.412f	0.000	34416	0	0.175	N.D.	#
7)		Aldrin	6.877	7.558	6150	10093	0.031	0.031	
8)		Heptachlo...	7.337	8.010	84467	51183	0.459	0.170	#
9)		trans-Chl...	7.429	8.131	1009143	1754707	5.458	5.600	
10)		cis-Chlor...	7.521	8.237	1286655	1472400	7.067	5.056	
11)		Endosulfa...	7.640	8.308	29794	24027	0.175	0.087	#
12)		4,4'-DDE	7.579	8.333	33953	45018	0.180	0.145	
13)		Dieldrin	7.807	8.488	35520	119533	0.185	0.393	#
14)		Endrin	7.986f	8.714	182097	37218	1.239	0.165	#
15)		4,4'-DDD	7.986	8.759	182097	301826	1.159	1.178	
16)		Endosulfa...	8.118	8.873	19535	32870	0.136	0.143	
17)		4,4'-DDT	0.000	8.994	0	11155	N.D.	0.027	#
18)		Endrin Al...	8.368f	9.128f	14946	80647	BelowCal	BelowCal	
19)		Endosulfa...	8.708	9.316f	13079	6249	0.084	0.025	#
20)		Methoxychlor	8.553	0.000	3815	0	0.065	N.D.	#
21)		Endrin Ke...	8.899	9.686	2603	18155	0.016	0.071	#
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	7.256	7.934	11579	24468	0.070	0.089	
26)		2,4'-DDE	7.337	8.131	84467	1754707	0.659	8.272	#
27)		trans-Non...	7.521	8.194	1286655	1274306	6.866	4.225	
28)		2,4'-DDD	7.675f	8.488	83034	119533	0.728	0.633	
29)		2,4'-DDT	7.914f	8.714	22312	37218	0.203	0.209	
30)		cis-Nonac...	7.986	8.759	182097	301826	0.877	0.900	
31)		Mirex	0.000	9.686	0	18155	N.D.	0.098	#
32)		Chlordane...	7.429	8.131	1009143	1754707	51.253	48.493	
33)		Chlordane...	7.521	8.237	1286655	1472400	51.334	48.492	
34)		Chlordane...	8.068	8.897	288087	439020	49.832	48.966	
35)		Chlordane...	3.446	0.000	5365	0	NoCal	N.D.	
36)		Toxaphene...	7.521	8.488f	1286655	119533	1436.564	45.549	#
37)		Toxaphene...	7.807	8.814	35520	51904	21.995	15.771	
38)		Toxaphene...	8.118	8.851	19535	35575	5.801	7.019	
39)		Toxaphene...	8.348	8.897	14389	439020	4.441	52.578	#
40)		Toxaphene...	8.553f	9.128f	3815	80647	1.591	17.305	#
41)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)		Toxaphene...	3.446	0.000	5365	0	NoCal	N.D.	

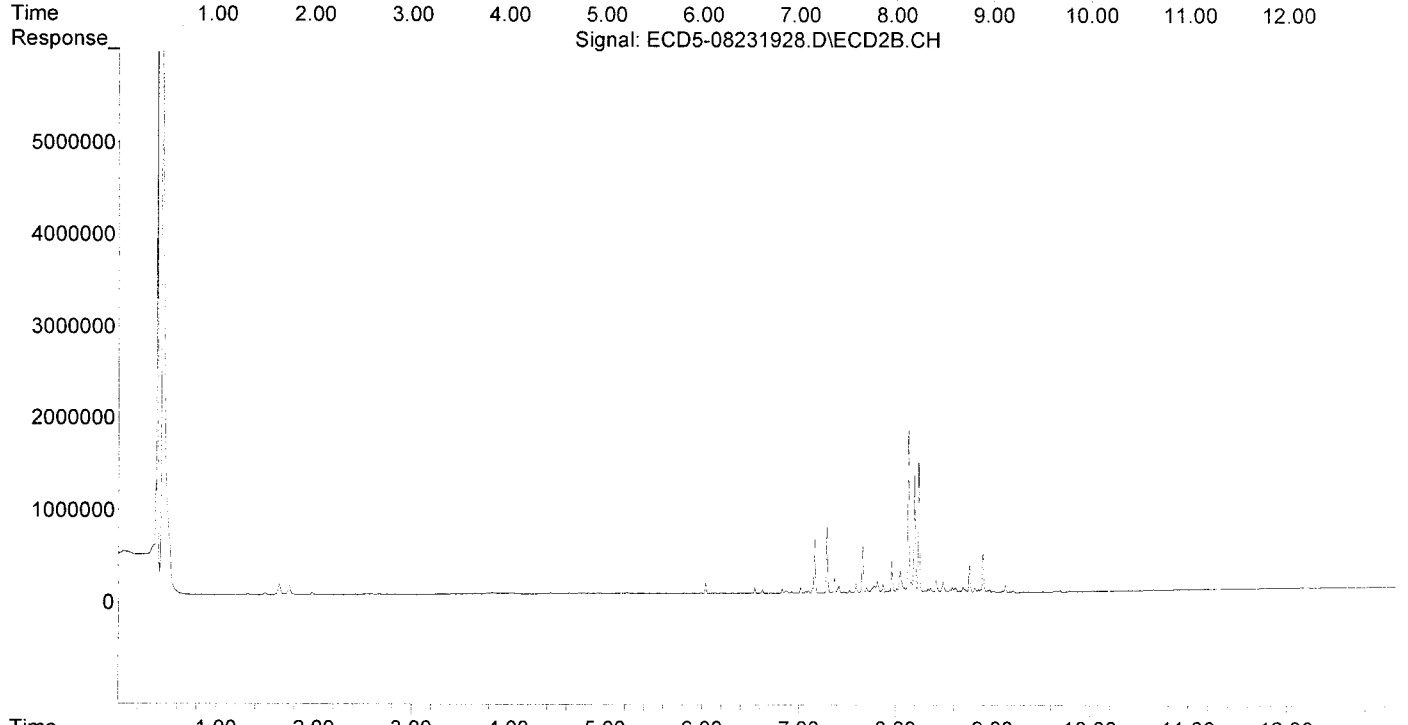
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:36
Operator : MJB
Sample : 9H23034-CALH
Misc : A19F232, CHLOR 50 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: Aug 26 12:04:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231929.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:54
Operator : MJB
Sample : 9H23034-CALI
Misc : A19F233, CHLOR 100 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: Aug 26 12:04:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

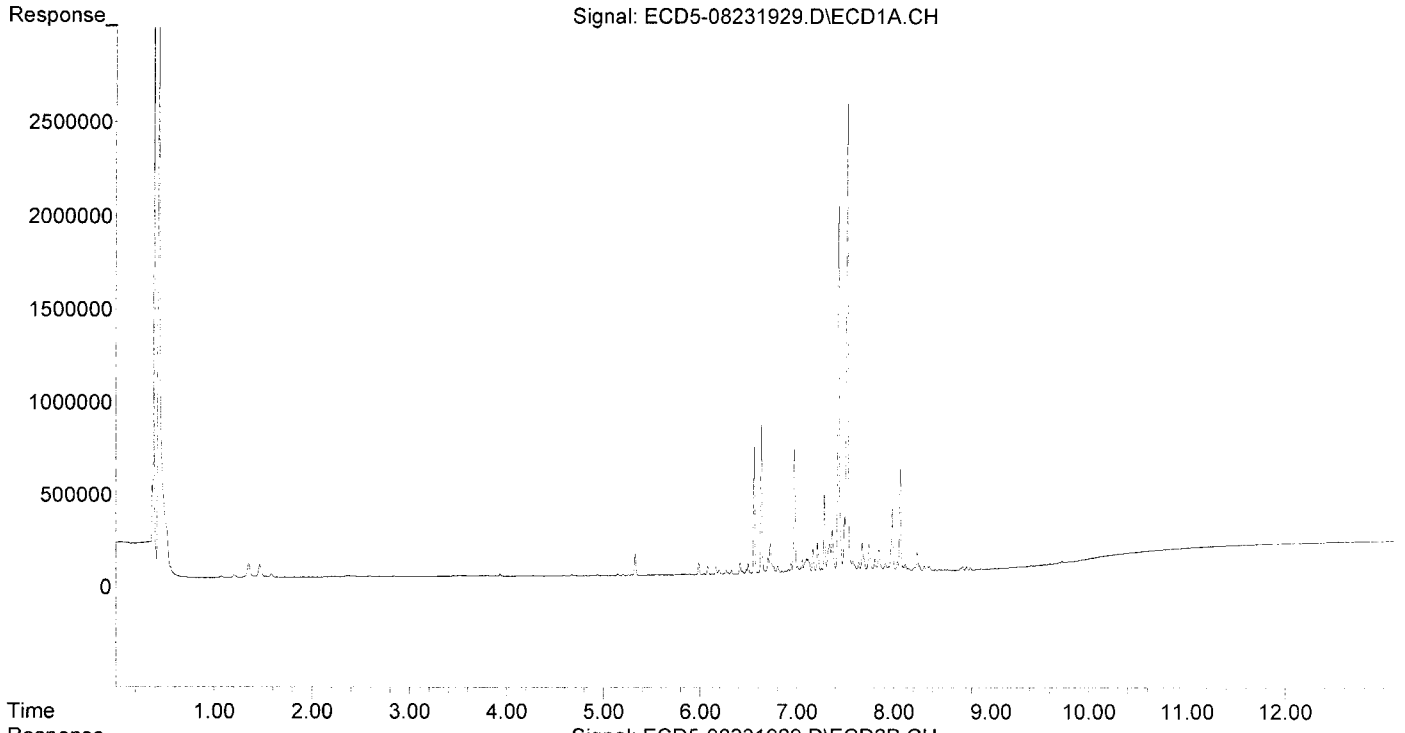
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.984	0	5943	N.D.	0.020	#
22)	S	DCBP (S)	9.606	0.000	7472	0	0.053	N.D.	#
		Target Compounds							
2)		a-BHC	0.000	6.622f	0	77932	N.D.	0.190	#
3)		g-BHC	6.194f	6.923	23514	36662	0.117	0.103	
4)		b-BHC	6.323f	7.016f	21053	115009	0.233	0.727	#
5)		Heptachlor	6.632	7.288	802906	1372147	4.429	4.484	
6)		d-BHC	6.412f	0.000	63497	0	0.323	N.D.	#
7)		Aldrin	6.877	7.558	12864	20481	0.065	0.062	
8)		Heptachlo...	7.338	8.010	155514	93915	0.844	0.312	#
9)		trans-Chl...	7.429	8.130	1978897	3378388	10.703	10.782	
10)		cis-Chlor...	7.521	8.238	2519520	2905941	13.838	9.978	
11)		Endosulfa...	7.641f	8.309f	56850	48968	0.334	0.178	#
12)		4,4'-DDE	7.579	8.334	63125	84256	0.335	0.271	
13)		Dieldrin	7.807	8.488	69910	230931	0.364	0.759	#
14)		Endrin	7.986f	8.713	344068	89428	2.340	0.396	#
15)		4,4'-DDD	7.986	8.760	344068	593441	2.190	2.316	
16)		Endosulfa...	8.118	8.873	39271	74727	0.273	0.324	
17)		4,4'-DDT	0.000	8.995	0	22043	N.D.	0.090	#
18)		Endrin Al...	8.428f	9.128f	7592	153472	BelowCal	BelowCal	
19)		Endosulfa...	8.709	9.317f	21141	11695	0.136	0.047	#
20)		Methoxychlor	8.553	0.000	6889	0	0.118	N.D.	#
21)		Endrin Ke...	8.897	9.687	3240	29883	0.019	0.116	#
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	0.000	6.430f	0	7921	N.D.	0.025	#
25)		Oxychlordane	7.255	7.934	24127	50634	0.147	0.185	
26)		2,4'-DDE	7.338	8.130	155514	3378388	1.212	15.925	#
27)		trans-Non...	7.521	8.195	2519520	2542319	13.749	8.428	
28)		2,4'-DDD	7.676f	8.488	159771	230931	1.400	1.223	
29)		2,4'-DDT	7.914f	8.713	44472	89428	0.405	0.501	
30)		cis-Nonac...	7.986	8.760	344068	593441	1.657	1.769	
31)		Mirex	0.000	9.687	0	29883	N.D.	0.161	#
32)		Chlordane...	7.429	8.130	1978897	3378388	100.505	93.365	
33)		Chlordane...	7.521	8.238	2519520	2905941	100.522	95.703	
34)		Chlordane...	8.068	8.898	548196	874465	94.825	97.533	
35)		Chlordane...	3.446	0.000	4938	0	NoCal	N.D.	
36)		Toxaphene...	7.521	8.488f	2519520	230931	2813.072	87.999	#
37)		Toxaphene...	7.807	8.815	69910	108014	43.289	32.821	
38)		Toxaphene...	8.118	8.851	39271	84269	11.662	16.627	#
39)		Toxaphene...	8.349	8.898	25383	874465	7.834	104.728	#
40)		Toxaphene...	8.553f	9.068f	6889	13931	2.874	2.989	
41)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)		Toxaphene...	3.446	0.000	4938	0	NoCal	N.D.	

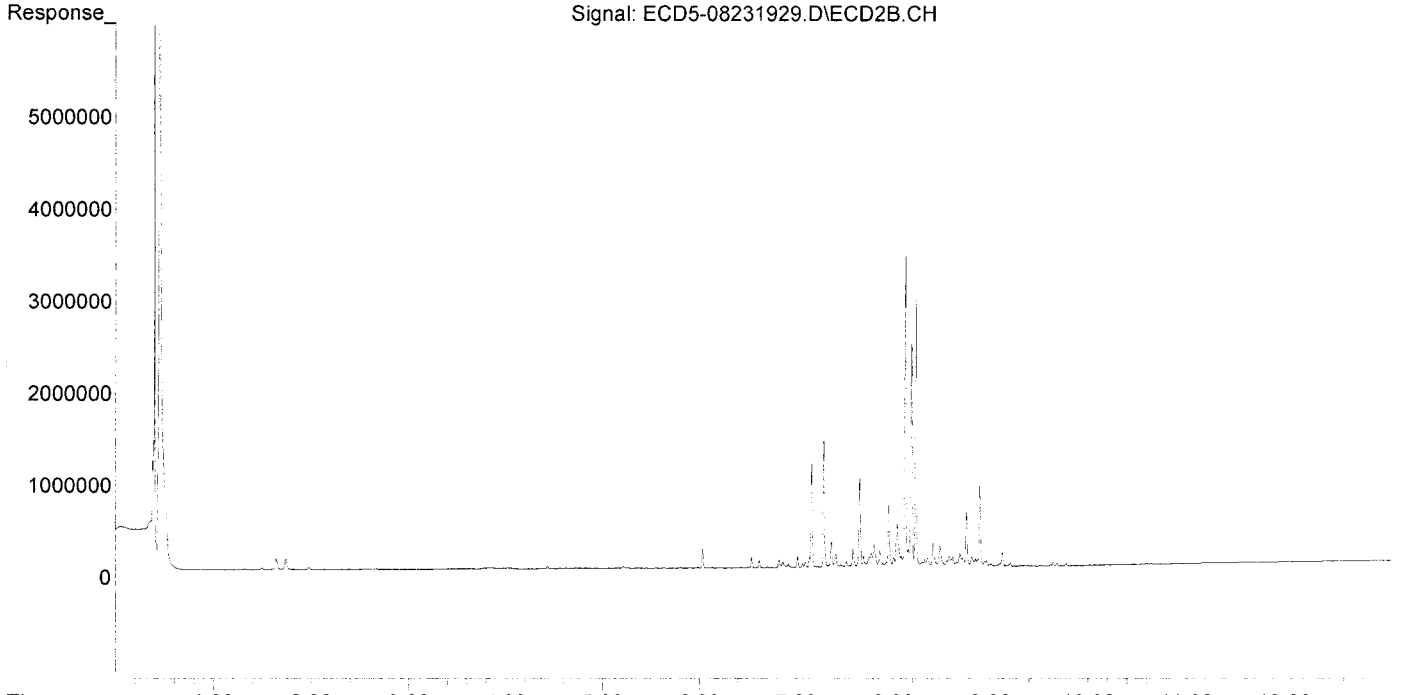
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231929.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:54
Operator : MJB
Sample : 9H23034-CALI
Misc : A19F233, CHLOR 100 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: Aug 26 12:04:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231930.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:11
Operator : MJB
Sample : 9H23034-CALJ
Misc : A19F234, CHLOR 200 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: Aug 26 12:04:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

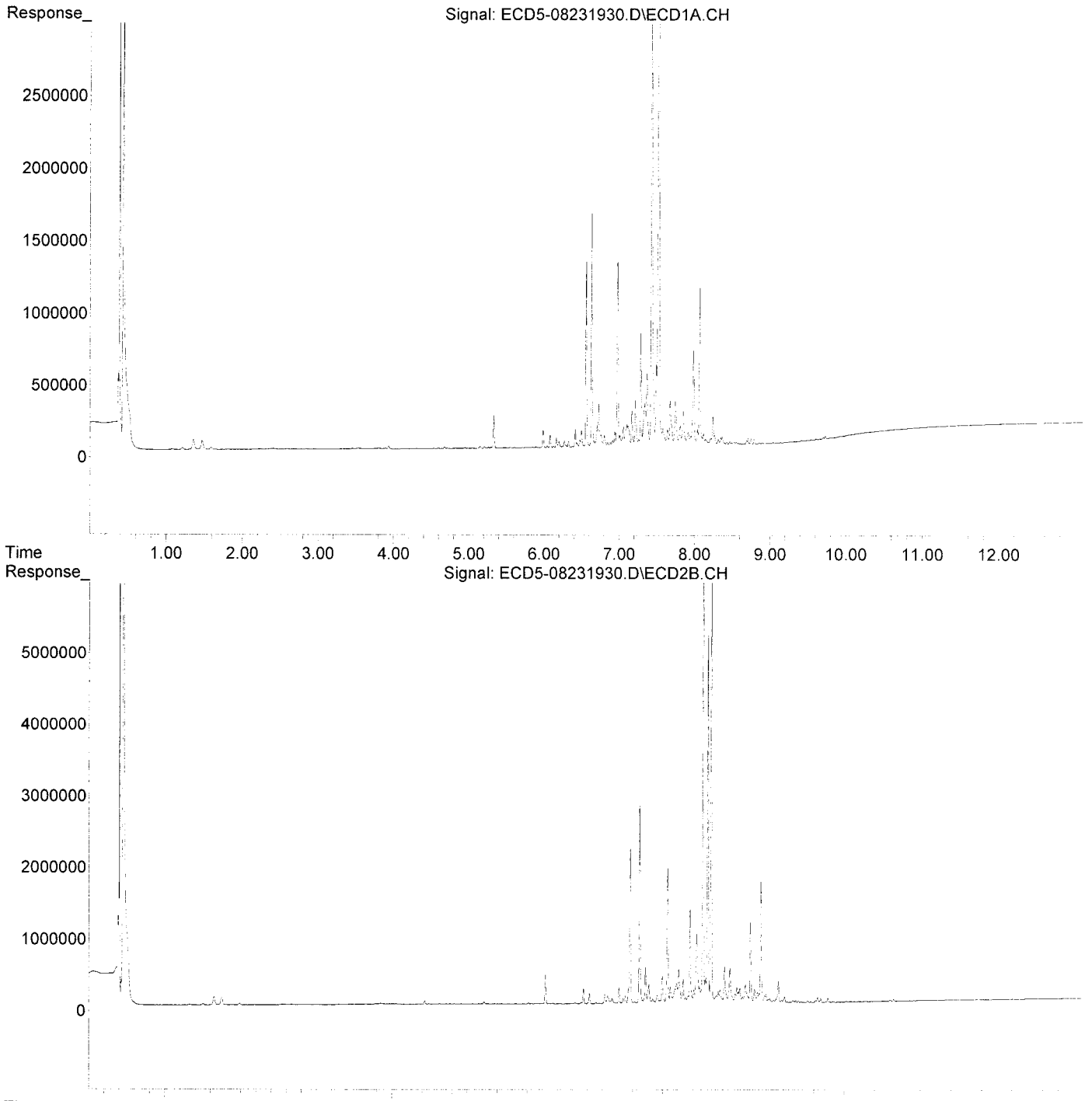
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	0.000	0	0	N.D.	N.D.	
22)	S	DCBP (S)	9.605	0.000	9631	0	0.068	N.D.	#
		Target Compounds							
2)		a-BHC	0.000	6.623f	0	141009	N.D.	0.344	#
3)		g-BHC	6.197f	6.925	44236	70355	0.219	0.197	
4)		b-BHC	6.269f	0.000	45994	0	0.509	N.D.	#
5)		Heptachlor	6.633	7.290	1604459	2790294	8.850	9.119	
6)		d-BHC	6.414f	7.222	125171	21783	0.636	0.062	#
7)		Aldrin	6.878	7.559	27966	42088	0.142	0.128	
8)		Heptachlo...	7.339	8.011	296306	184421	1.609	0.613	#
9)		trans-Chl...	7.429	8.131	3849299	6751197	20.819	21.547	
10)		cis-Chlor...	7.522	8.239	4906320	5883615	26.947	20.201	
11)		Endosulfa...	7.641f	8.311f	111658	101195	0.656	0.368	#
12)		4,4'-DDE	7.579	8.334	119469	162236	0.634	0.522	
13)		Dieldrin	7.808	8.488	135995	479651	0.708	1.577	#
14)		Endrin	7.986f	8.714	662867	142098	4.508	0.629	#
15)		4,4'-DDD	7.986	8.759	662867	1113368	4.218	4.345	
16)		Endosulfa...	8.119	8.852	78177	142714	0.544	0.619	
17)		4,4'-DDT	0.000	8.995	0	47222	N.D.	0.237	#
18)		Endrin Al...	8.429f	9.129f	17160	296262	BelowCal	0.772	
19)		Endosulfa...	8.709	9.317f	39967	28714	0.258	0.115	#
20)		Methoxychlor	8.528	9.426f	15895	10981	0.271	BelowCal	#
21)		Endrin Ke...	8.895	9.688	5405	57534	0.032	0.224	#
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.768	6.432f	3592	14719	0.020	0.047	#
25)		Oxychlordane	7.256	7.935	46857	97946	0.285	0.358	
26)		2,4'-DDE	7.339	8.131	296306	6751197	2.310	31.825	#
27)		trans-Non...	7.522	8.196	4906320	5159253	27.077	17.104	
28)		2,4'-DDD	7.676f	8.488	310109	479651	2.717	2.540	
29)		2,4'-DDT	7.915f	8.714	90205	142098	0.822	0.797	
30)		cis-Nonac...	7.986	8.759	662867	1113368	3.193	3.319	
31)		Mirex	8.690f	9.688	25315	57534	0.202	0.309	#
32)		Chlordane...	7.429	8.131	3849299	6751197	195.499	186.577	
33)		Chlordane...	7.522	8.239	4906320	5883615	195.749	193.769	
34)		Chlordane...	8.069	8.898	1101677	1731727	190.565	193.146	
35)		Chlordane...	3.448	0.000	4503	0	NoCal	N.D.	
36)		Toxaphene...	7.522f	8.488f	4906320	479651	5477.960	182.776	#
37)		Toxaphene...	7.808	8.815	135995	186597	84.211	56.699	
38)		Toxaphene...	8.119	8.852	78177	142714	23.215	28.158	
39)		Toxaphene...	8.349	8.898	48611	1731727	15.003	207.397	#
40)		Toxaphene...	8.553f	9.069f	15795	32796	6.589	7.037	
41)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)		Toxaphene...	3.448	0.000	4503	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231930.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:11
Operator : MJB
Sample : 9H23034-CALJ
Misc : A19F234, CHLOR 200 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: Aug 26 12:04:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:28
Operator : MJB
Sample : 9H23034-CALK
Misc : A19F235, CHLOR 500 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: Aug 26 12:04:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 6/26/19

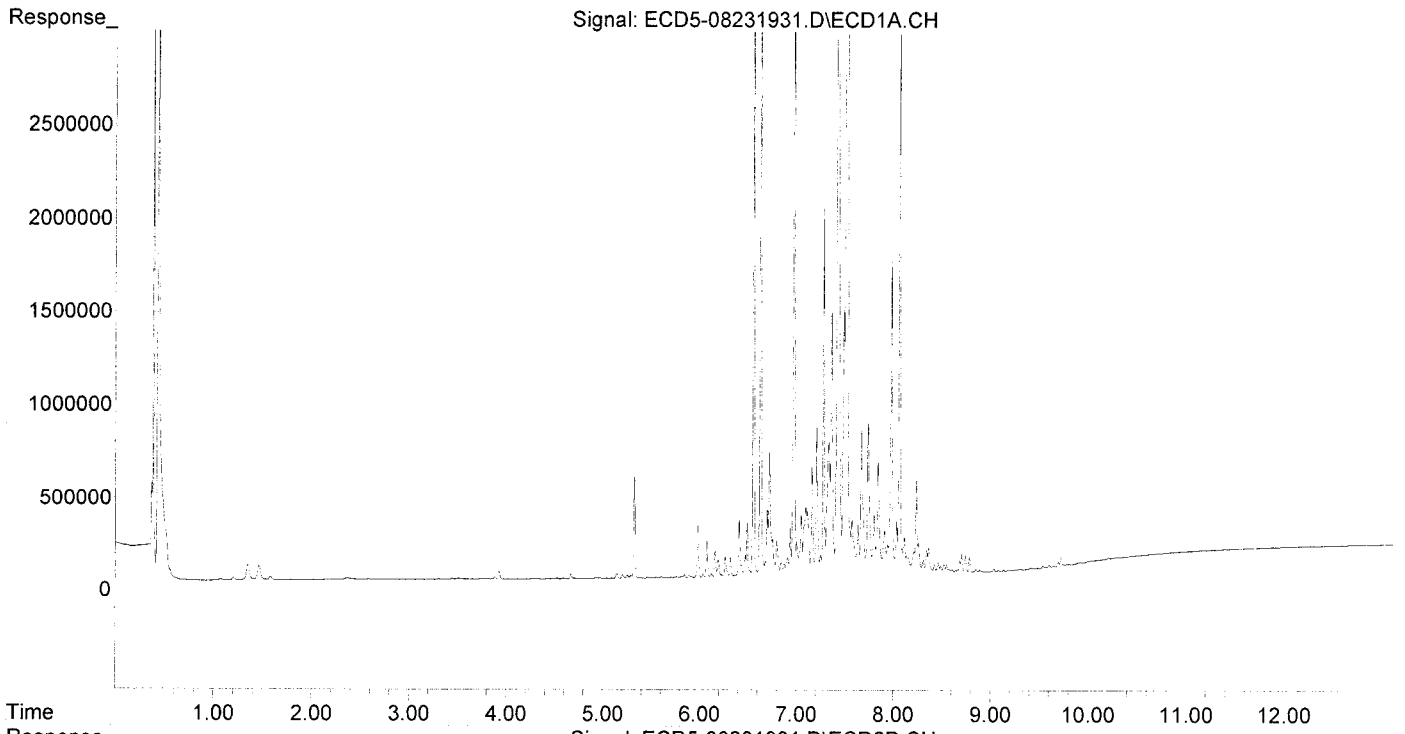
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	0.000	5.982	0	9372	N.D.	0.032	#
22) S	DCBP (S)	9.605	10.512f	13871	6664	0.098	0.037	#
	Target Compounds							
2)	a-BHC	0.000	6.621f	0	314411	N.D.	0.766	#
3)	g-BHC	6.194f	6.923	92958	161395	0.461	0.452	
4)	b-BHC	6.322f	7.016f	105835	520011	1.171	3.286	#
5)	Heptachlor	6.631	7.288	4107971	7192687	22.659	23.507	
6)	d-BHC	6.412f	7.219	305503	51612	1.553	0.146	#
7)	Aldrin	6.876	7.558	67201	101902	0.340	0.309	
8)	Heptachlo...	7.336	8.009	709786	434942	3.854	1.446	#
9)	trans-Chl...	7.427	8.129	9628671	17830433	52.077	56.907	
10)	cis-Chlor...	7.520	8.237	12176524	14812273	66.878	50.858	
11)	Endosulfa...	7.639	8.308	267451	260205	1.572	0.946	
12)	4,4'-DDE	7.577	8.332	288716	403680	1.531	1.299	
13)	Dieldrin	7.806	8.487	320749	1311343	1.671	4.312	#
14)	Endrin	7.984f	8.712	1680286	346653	11.428	1.535	#
15)	4,4'-DDD	7.984	8.758	1680286	2798638	10.693	10.923	
16)	Endosulfa...	8.118	8.872	194466	323054	1.354	1.401	
17)	4,4'-DDT	0.000	8.994	0	120742	N.D.	0.665	#
18)	Endrin Al...	8.427f	9.127f	45775	749534	BelowCal	3.242	
19)	Endosulfa...	8.708	9.316f	99125	76741	0.640	0.308	#
20)	Methoxychlor	8.552	9.462	44336	19918	0.757	0.061	#
21)	Endrin Ke...	8.892	9.686	12903	140715	0.077	0.547	#
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	5.767	6.430f	6475	34351	0.037	0.109	#
25)	Oxychlordane	7.283f	7.933	1963331	230983	11.932	0.843	#
26)	2,4'-DDE	7.336	8.129	709786	17830433	5.534	84.051	#
27)	trans-Non...	7.520	8.194	12176524	13173616	67.700	43.674	
28)	2,4'-DDD	7.674f	8.487	765105	1311343	6.704	6.943	
29)	2,4'-DDT	7.913f	8.712	230360	346653	2.100	1.944	
30)	cis-Nonac...	7.984	8.758	1680286	2798638	8.093	8.343	
31)	Mirex	8.645	9.686	12290	140715	0.098	0.756	#
32)	Chlordane...	7.427	8.129	9628671	17830433	489.023	492.763	
33)	Chlordane...	7.520	8.237	12176524	14812273	485.812	487.822	
34)	Chlordane...	8.067	8.896	2921278	4271709	505.313	476.441	
35)	Chlordane...	3.447	0.000	4056	0	NoCal	N.D.	
36)	Toxaphene...	7.520	8.487f	12176524	1311343	13595.220	499.701	#
37)	Toxaphene...	7.806	8.813	320749	462807	198.614	140.627	
38)	Toxaphene...	8.118	8.850	194466	348421	57.748	68.745	
39)	Toxaphene...	8.348	8.896	120098	4271709	37.065	511.592	#
40)	Toxaphene...	8.552f	9.067f	44336	90716	18.495	19.465	
41)	Toxaphene...	8.645	9.462	12290	19918	3.884	4.193	
42)	Toxaphene...	3.447	0.000	4056	0	NoCal	N.D.	

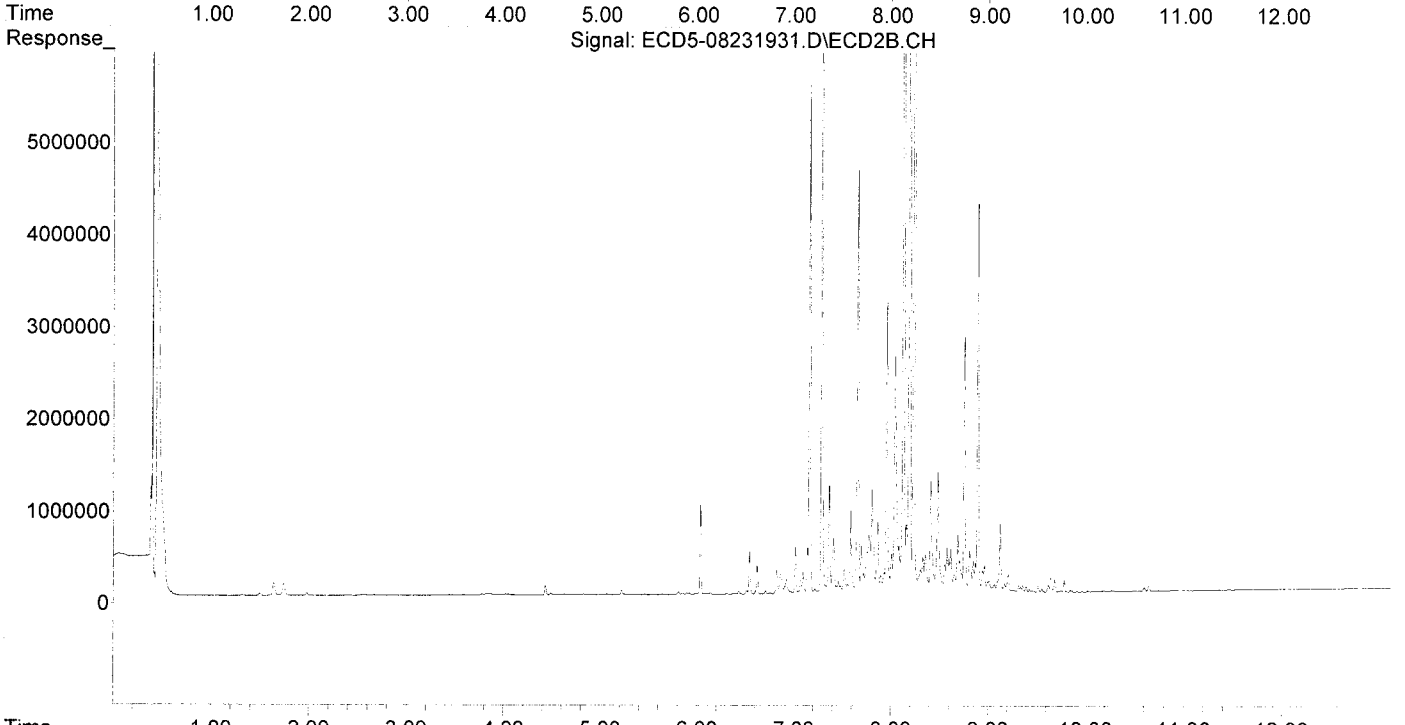
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:28
Operator : MJB
Sample : 9H23034-CALK
Misc : A19F235, CHLOR 500 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: Aug 26 12:04:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231932.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:45
Operator : MJB
Sample : 9H23034-CALL
Misc : A19F236, CHLOR 1000 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: Aug 26 12:05:04 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

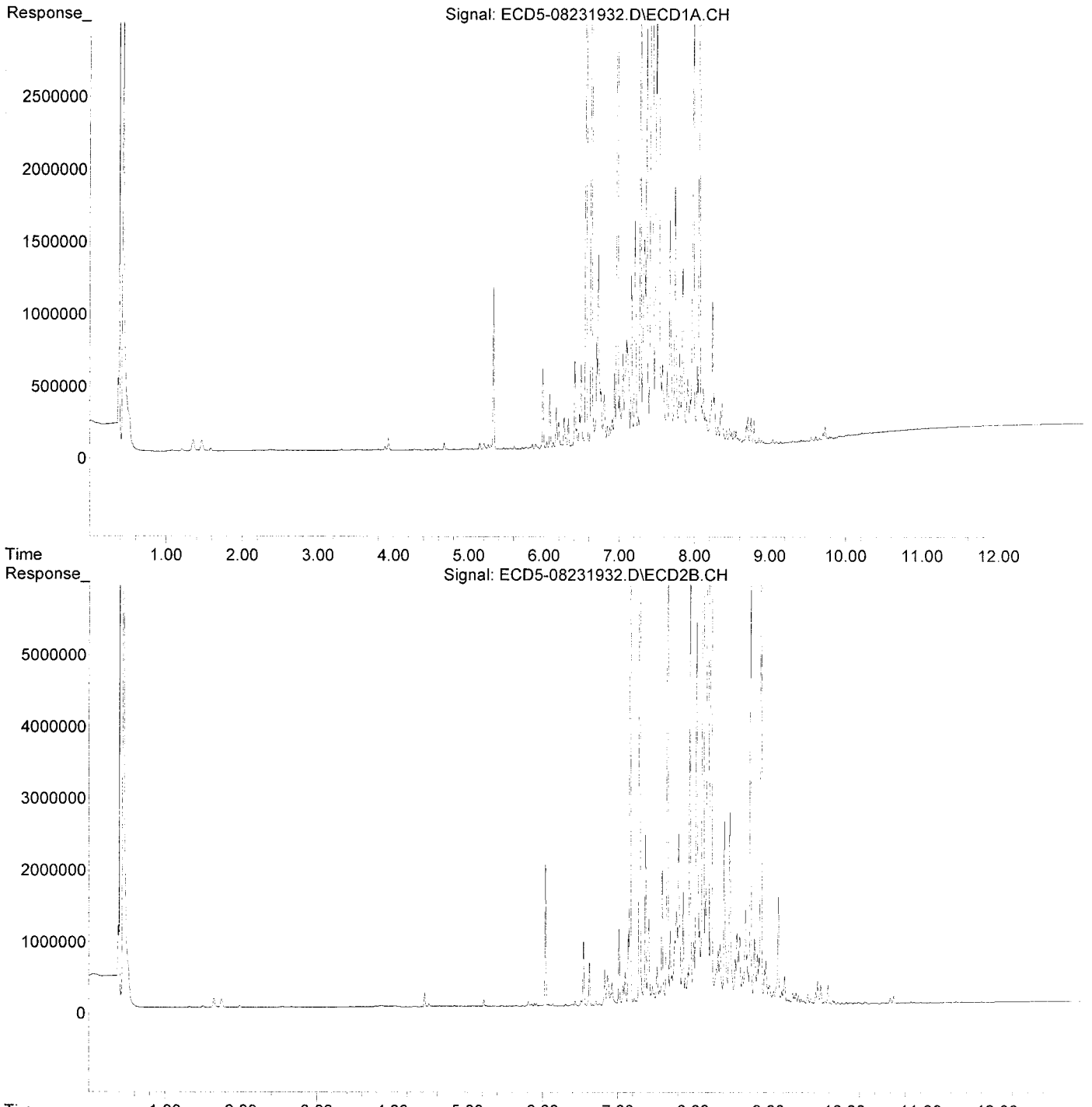
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.393	5.980	6433	11040	0.039	0.038	
22)	S	DCBP (S)	9.604	10.553	33011	8716	0.234	0.048	#
		Target Compounds							
2)		a-BHC	0.000	6.622f	0	610263	N.D.	1.487	#
3)		g-BHC	6.194f	6.923	179715	319626	0.891	0.896	
4)		b-BHC	6.322f	7.016f	206312	1070369	2.283	6.763	#
5)		Heptachlor	6.631	7.288	8491782	15019038	46.839	49.085	
6)		d-BHC	6.411f	7.241	615917	64884	3.131	0.184	#
7)		Aldrin	6.875	7.558	134371	205192	0.681	0.623	
8)		Heptachlo...	7.335	8.009	1431988	873449	7.775	2.903	#
9)		trans-Chl...	7.426	8.130	19643766	37966746	106.245	121.173	
10)		cis-Chlor...	7.519	8.237	25083239	31493677	137.766	108.134	
11)		Endosulfa...	7.638	8.309f	523226	508009	3.075	1.846	
12)		4,4'-DDE	7.576	8.332	564335	775935	2.993	2.498	
13)		Dieldrin	7.805	8.487	632206	2703774	3.293	8.890	#
14)		Endrin	7.985f	8.713	3305895	704023	22.485	3.118	#
15)		4,4'-DDD	7.985	8.758	3305895	5865563	21.038	22.893	
16)		Endosulfa...	8.118	8.872	392448	653843	2.733	2.835	
17)		4,4'-DDT	8.241f	8.994	1019486	242495	8.527	1.373	#
18)		Endrin Al...	8.427f	9.128f	96085	1500188	BelowCal	7.301	
19)		Endosulfa...	8.708	9.269	190049	57556	1.226	0.231	#
20)		Methoxychlor	8.552	9.462	93194	45695	1.591	0.381	#
21)		Endrin Ke...	8.891	9.687	25043	266287	0.150	1.035	#
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.767	6.430f	12323	65416	0.070	0.208	#
25)		Oxychlordane	7.252	7.933	207847	466300	1.263	1.702	
26)		2,4'-DDE	7.335	8.130	1431988	37966746	11.165	178.972	#
27)		trans-Non...	7.519	8.194	25083239	27721467	139.911	91.904	
28)		2,4'-DDD	7.673f	8.487	1536407	2703774	13.462	14.316	
29)		2,4'-DDT	7.912f	8.713	462112	704023	4.213	3.948	
30)		cis-Nonac...	7.985	8.758	3305895	5865563	15.923	17.486	
31)		Mirex	8.645	9.687	28961	266287	0.231	1.431	#
32)		Chlordane...	7.426	8.130	19643766	37966746	997.671	1049.252	
33)		Chlordane...	7.519	8.237	25083239	31493677	1000.756	1037.202	
34)		Chlordane...	8.067	8.897	5987927	9358900	1035.773	1043.835	
35)		Chlordane...	3.447	0.000	4825	0	NoCal	N.D.	
36)		Toxaphene...	7.519	8.487f	25083239	2703774	28005.706	1030.300	#
37)		Toxaphene...	7.805	8.814	632206	927954	391.474	281.965	
38)		Toxaphene...	8.118	8.850	392448	706508	116.540	139.397	
39)		Toxaphene...	8.348	8.897	233440	9358900	72.046	1120.849	#
40)		Toxaphene...	8.552f	9.067f	93194	183092	38.877	39.287	
41)		Toxaphene...	8.645	9.462	28961	45695	9.152	9.620	
42)		Toxaphene...	3.447	0.000	4825	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231932.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:45
Operator : MJB
Sample : 9H23034-CALL
Misc : A19F236, CHLOR 1000 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: Aug 26 12:05:04 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231933.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:02
Operator : MJB
Sample : 9H23034-CALM
Misc : A19F231, CHLOR 2000 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: Aug 26 12:05:14 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

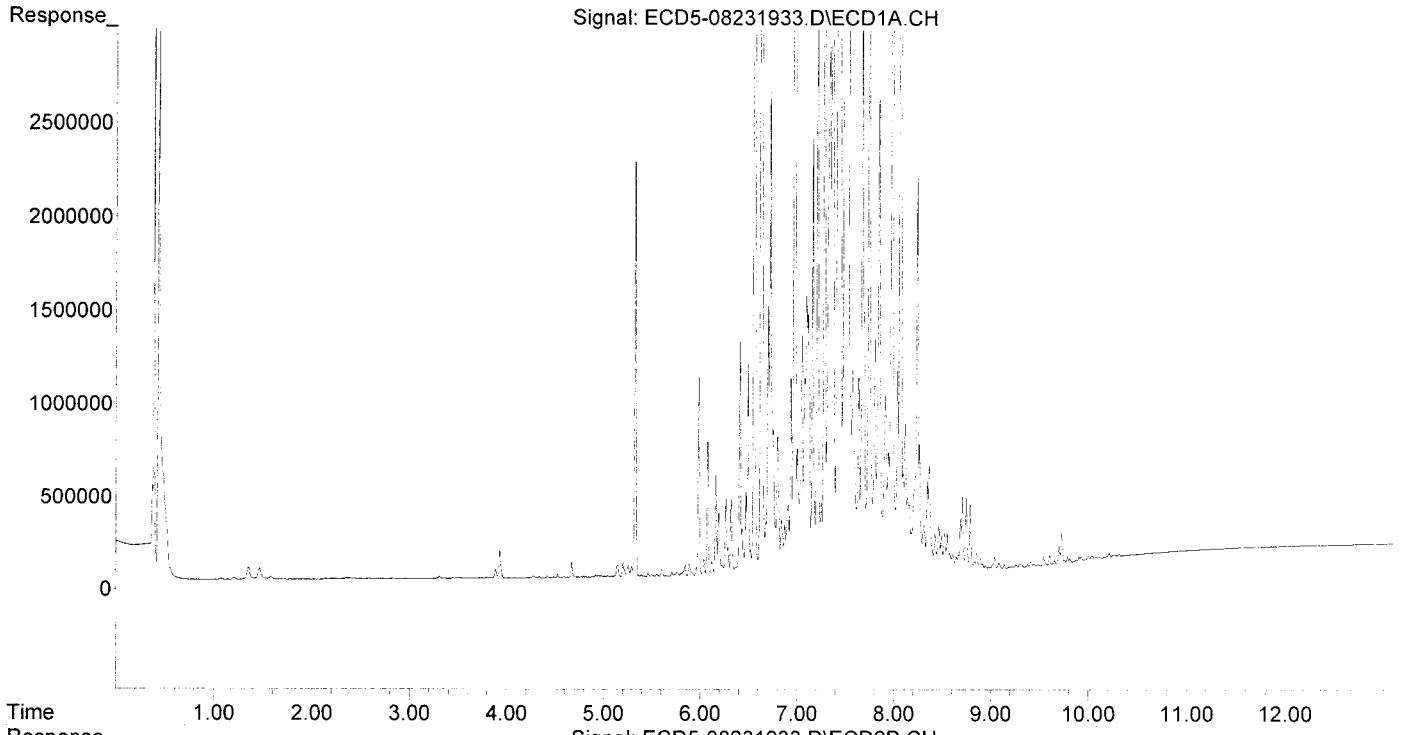
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.393	5.971	11655	15748	0.070	0.054	
22)	S	DCBP (S)	9.604	10.552	57777	17575	0.409	0.098	#
		Target Compounds							
2)		a-BHC	0.000	6.621f	0	1174704	N.D.	2.863	#
3)		g-BHC	6.193f	6.922	334417	594314	1.657	1.666	
4)		b-BHC	6.321f	7.016f	403109	2092681	4.460	13.223	#
5)		Heptachlor	6.630	7.288	16898199	31950039	93.207	104.420	
6)		d-BHC	6.411f	7.240	1241284	122584	6.311	0.348	#
7)		Aldrin	6.874	7.557	258489	381283	1.309	1.158	
8)		Heptachlo...	7.335	8.008	2829322	1755780	15.362	5.836	#
9)		trans-Chl...	7.426	8.130	40036500	81691713	216.541	260.724	
10)		cis-Chlor...	7.519	8.238	50979142	66281388	279.996	227.578	
11)		Endosulfa...	7.638	8.308	1047673	1022624	6.156	3.716	
12)		4,4'-DDE	7.576	8.332	1098754	1565142	5.828	5.038	
13)		Dieldrin	7.805	8.486	1246658	5614133	6.494	18.458	#
14)		Endrin	7.984f	8.692f	6820662	2823722	46.391	12.504	#
15)		4,4'-DDD	7.984	8.759	6820662	12014776	43.405	46.894	
16)		Endosulfa...	8.118	8.872	787524	1320218	5.484	5.725	
17)		4,4'-DDT	8.242f	8.993	2107649	483614	17.628	2.768	#
18)		Endrin Al...	8.427f	9.128f	193793	3090717	0.642	15.775	#
19)		Endosulfa...	8.709	9.268f	400484	128754	2.584	0.517	#
20)		Methoxychlor	8.552	9.462	195767	96597	3.342	1.012	#
21)		Endrin Ke...	8.892	9.686	57711	528113	0.346	2.052	#
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.766	6.430f	22503	117032	0.128	0.373	#
25)		Oxychlordane	7.252	7.932	378689	930396	2.302	3.397	#
26)		2,4'-DDE	7.335	8.130	2829322	81691713	22.059	385.087	#
27)		trans-Non...	7.519	8.194	50979142	59315099	285.157	196.645	
28)		2,4'-DDD	7.673f	8.486	3134690	5614133	27.467	29.726	
29)		2,4'-DDT	7.912f	8.692f	956476	2823722	8.720	15.833	#
30)		cis-Nonac...	7.984	8.759	6820662	12014776	32.852	35.817	
31)		Mirex	8.645	9.686	70178	528113	0.560	2.838	#
32)		Chlordane...	7.426	8.130	40036500	81691713	2033.382	2257.639	
33)		Chlordane...	7.519	8.238	50979142	66281388	2033.935	2182.889	
34)		Chlordane...	8.067	8.897	12208306	19418517	2111.754	2165.824	
35)		Chlordane...	3.449	0.000	4939	0	NoCal	N.D.	
36)		Toxaphene...	7.519	8.486f	50979142	5614133	56918.762	2139.322	#
37)		Toxaphene...	7.805	8.814	1246658	1872513	771.954	568.976	
38)		Toxaphene...	8.118	8.850	787524	1450920	233.861	286.273	
39)		Toxaphene...	8.368f	8.897	565943	19418517	174.666	2325.617	#
40)		Toxaphene...	8.552f	9.067f	195767	367185	81.667	78.789	
41)		Toxaphene...	8.645	9.462	70178	96597	22.176	20.335	
42)		Toxaphene...	3.449	0.000	4939	0	NoCal	N.D.	

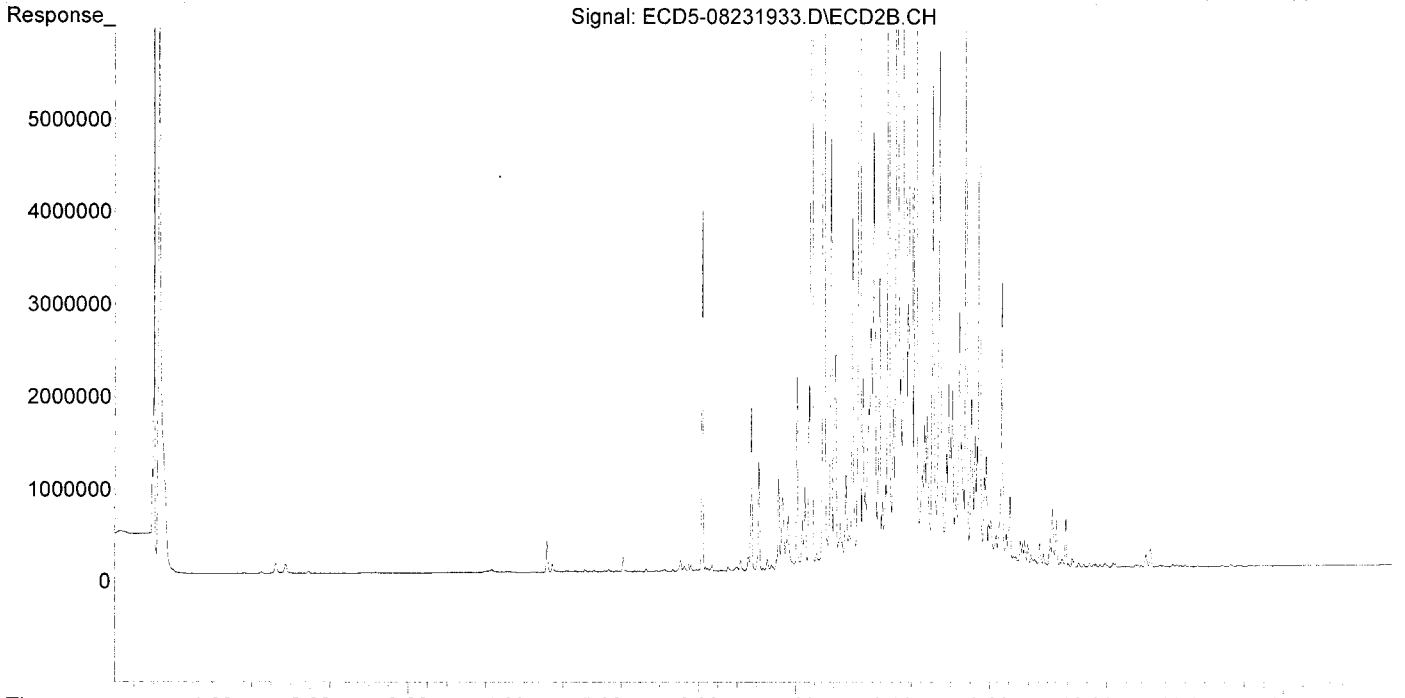
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231933.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:02
Operator : MJB
Sample : 9H23034-CALM
Misc : A19F231, CHLOR 2000 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: Aug 26 12:05:14 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 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: Aug 26 12:06:20 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

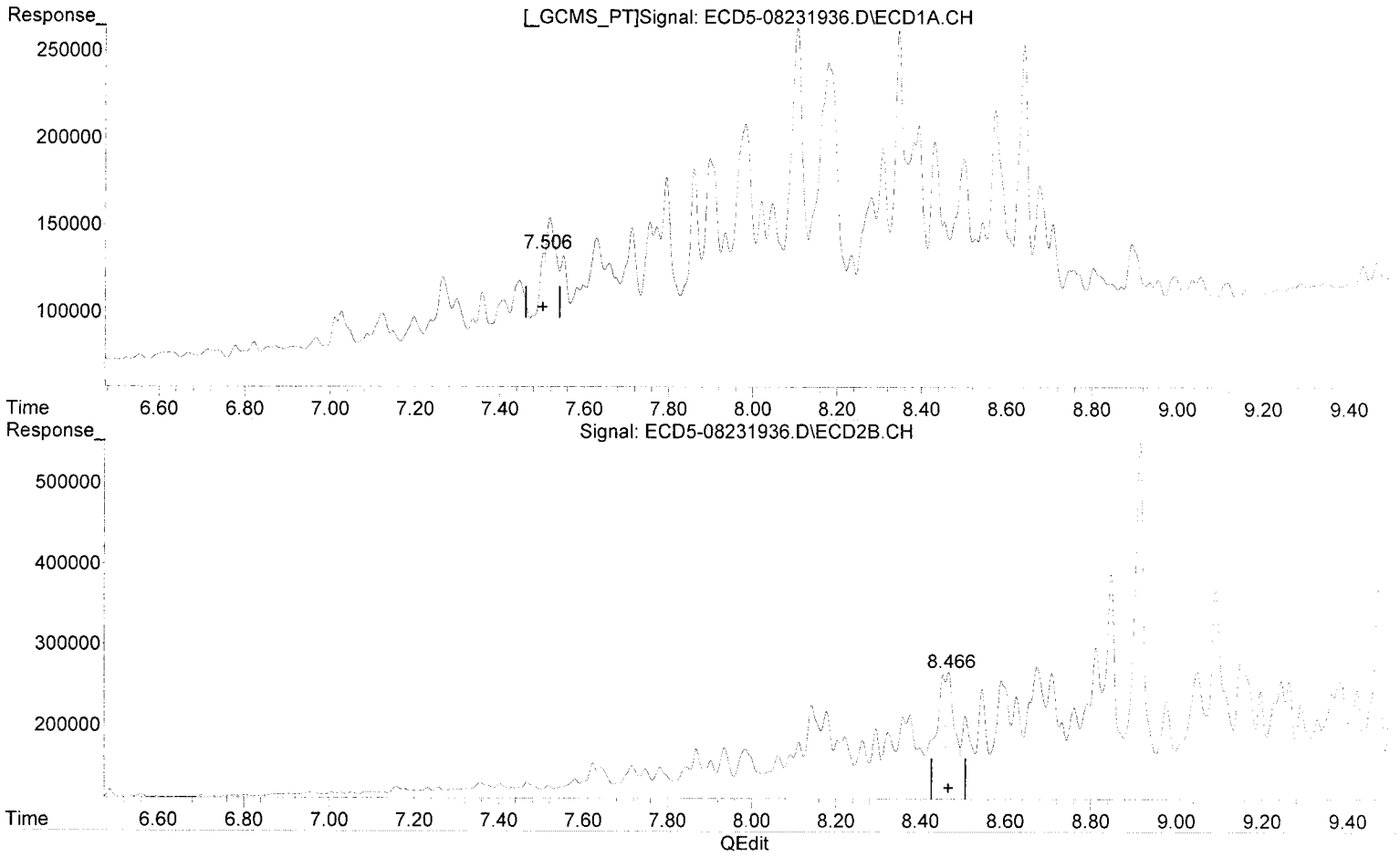
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	0.000	5.984	0	6201	N.D.	0.021	#
22) S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.249f	0.000	4430	0	0.022	N.D.	#
4)	b-BHC	6.297	0.000	3017	0	0.033	N.D.	#
5)	Heptachlor	6.627	0.000	4370	0	0.024	N.D.	#
6)	d-BHC	6.469f	0.000	2958	0	0.015	N.D.	#
7)	Aldrin	6.871	7.582f	4859	11806	0.025	0.036	#
8)	Heptachlo...	7.336	7.985	13601	46078	0.074	0.153	#
9)	trans-Chl...	7.446	8.142	34060	99117	0.184	0.316	#
10)	cis-Chlor...	7.518	8.221	69068	59106	0.379	0.203	#
11)	Endosulfa...	7.629	8.294	55946	68659	0.329	0.250	
12)	4,4'-DDE	7.550f	8.359	47125	82546	0.250	0.266	
13)	Dieldrin	7.794	8.505	88321	82204	0.460	0.270	#
14)	Endrin	7.934f	8.709	54457	133121	0.370	0.589	#
15)	4,4'-DDD	8.020	8.762	70973	90688	0.452	0.354	
16)	Endosulfa...	8.105	8.847	169381	254833	1.179	1.105	
17)	4,4'-DDT	8.180f	8.977	146997	96725	1.229	0.525	#
18)	Endrin Al...	8.392	9.091	108459	233185	BelowCal	0.427	
19)	Endosulfa...	8.708	9.291	48053	90329	0.310	0.363	
20)	Methoxychlor	8.573f	9.470	114720	230922	1.959	2.668	
21)	Endrin Ke...	8.894	9.711f	33550	36259	0.201	0.141	
23)	Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)	Hexachlor...	0.000	6.487f	0	8846	N.D.	0.028	#
25)	Oxychlordane	7.265	7.935	38772	48452	0.236	0.177	
26)	2,4'-DDE	7.336	8.112	13601	53529	0.106	0.252	#
27)	trans-Non...	7.518	8.204	69068	54722	0.069	0.181	#
28)	2,4'-DDD	7.713	8.505	60294	82204	0.528	0.435	
29)	2,4'-DDT	7.899	8.709	96979	133121	0.884	0.746	
30)	cis-Nonac...	7.981	8.762	116026	90688	0.559	0.270	#
31)	Mirex	8.641	9.711f	153138	36259	1.222	0.195	#
32)	Chlordane...	7.446	8.142	34060	99117	1.730	2.739	#
33)	Chlordane...	7.518	8.221	69068	59106	2.756	1.947	
34)	Chlordane...	8.047f	8.915	69875	416348	12.087	46.437	#
35)	Chlordane...	3.449	0.000	4023	0	NoCal	N.D.	
36)	Toxaphene...	7.506	8.466	49110	136848	54.832m	52.147	
37)	Toxaphene...	7.794	8.813	88321	164706	54.690	50.047	
38)	Toxaphene...	8.105	8.847	169381	254833	50.299	50.280	
39)	Toxaphene...	8.346	8.915	164317	416348	50.713	49.863	
40)	Toxaphene...	8.573	9.091	114720	233185	47.857	50.036	
41)	Toxaphene...	8.641	9.470	153138	230922	48.391	48.613	
42)	Toxaphene...	3.449	0.000	4023	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 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: Aug 26 12:05:49 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.506min 54.832 ng/mL m

response 49110

MJB 8/26/19

(36) Toxaphene (1) #2

8.466min 52.147 ng/mL

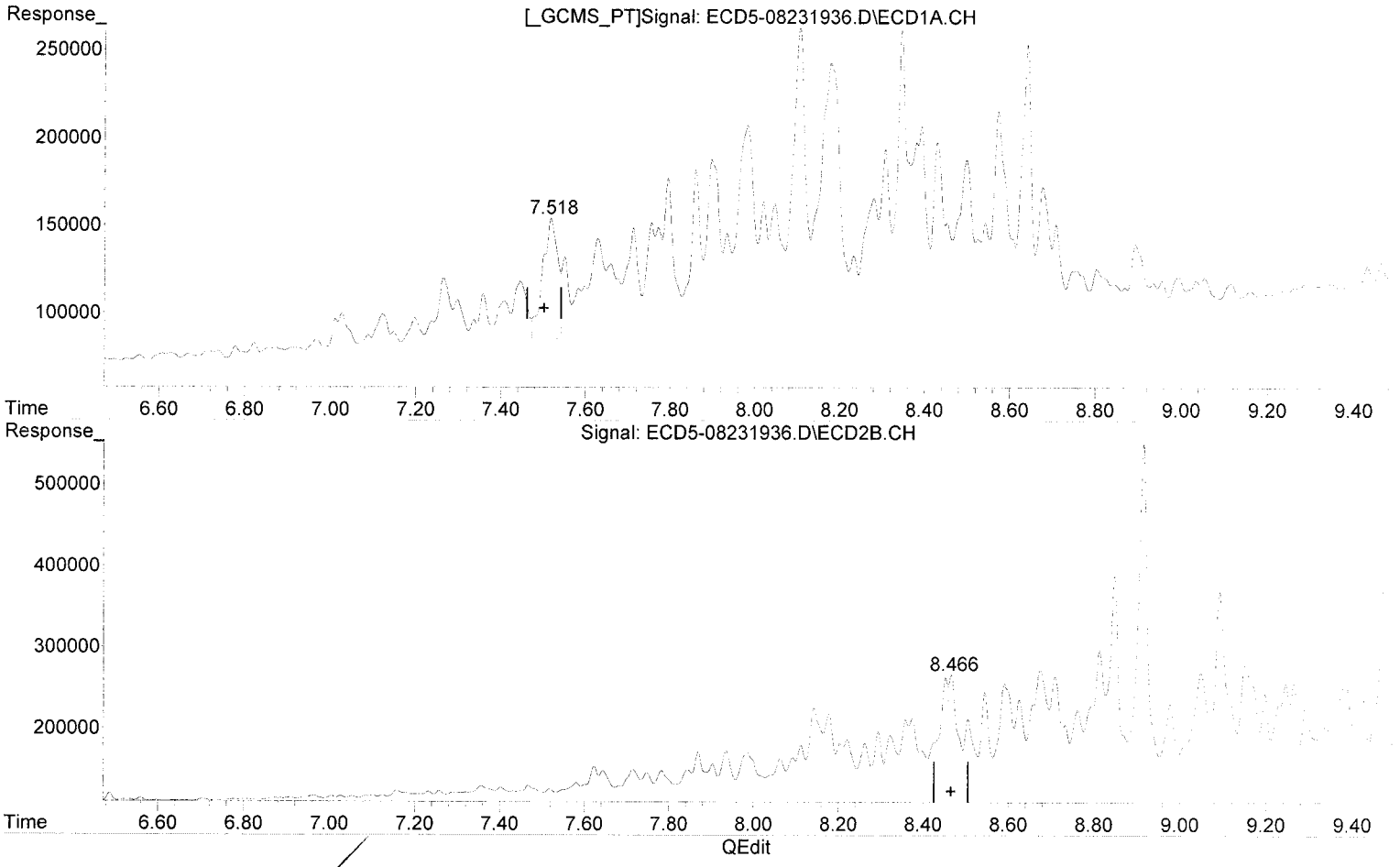
response 136848

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 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: Aug 26 12:05:49 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.518min 77.115 ng/mL

response 69068

MJB 8/26/19

(36) Toxaphene (1) #2

8.466min 52.147 ng/mL

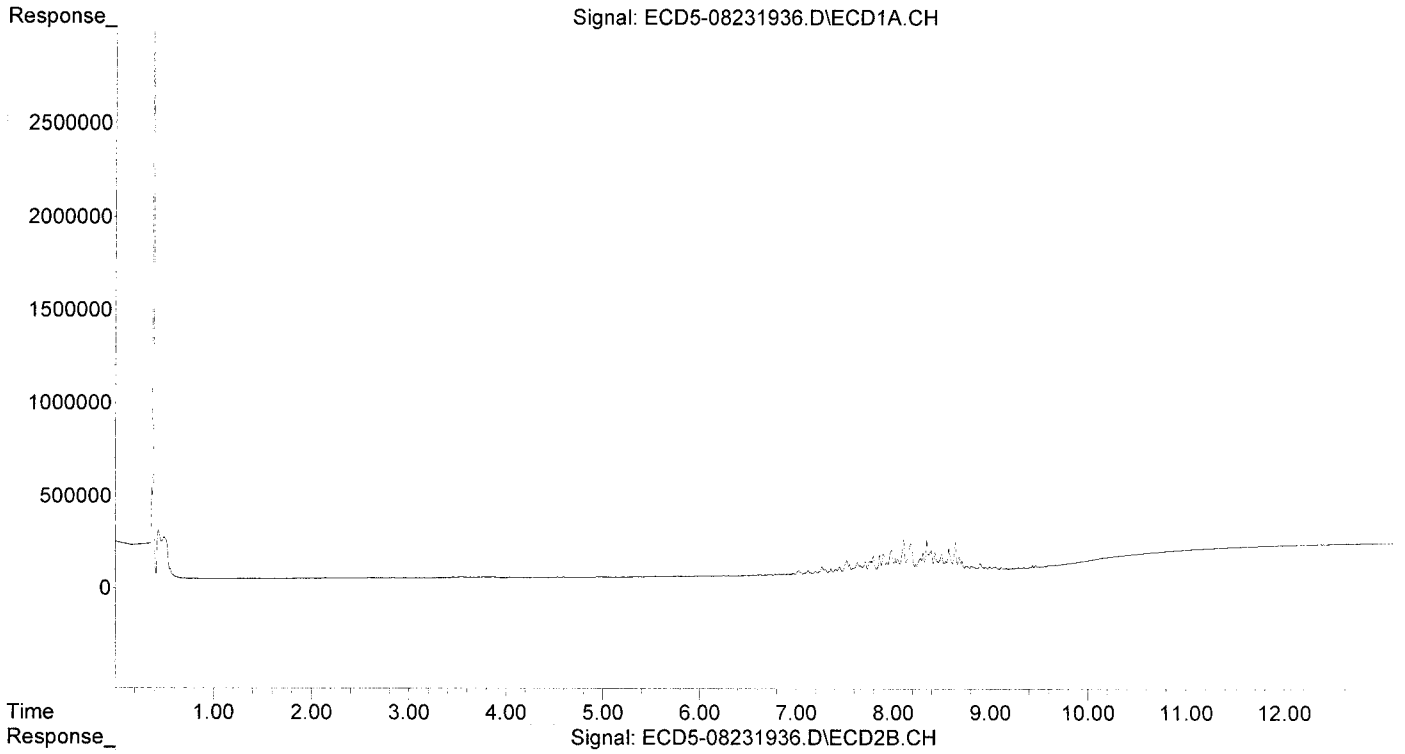
response 136848

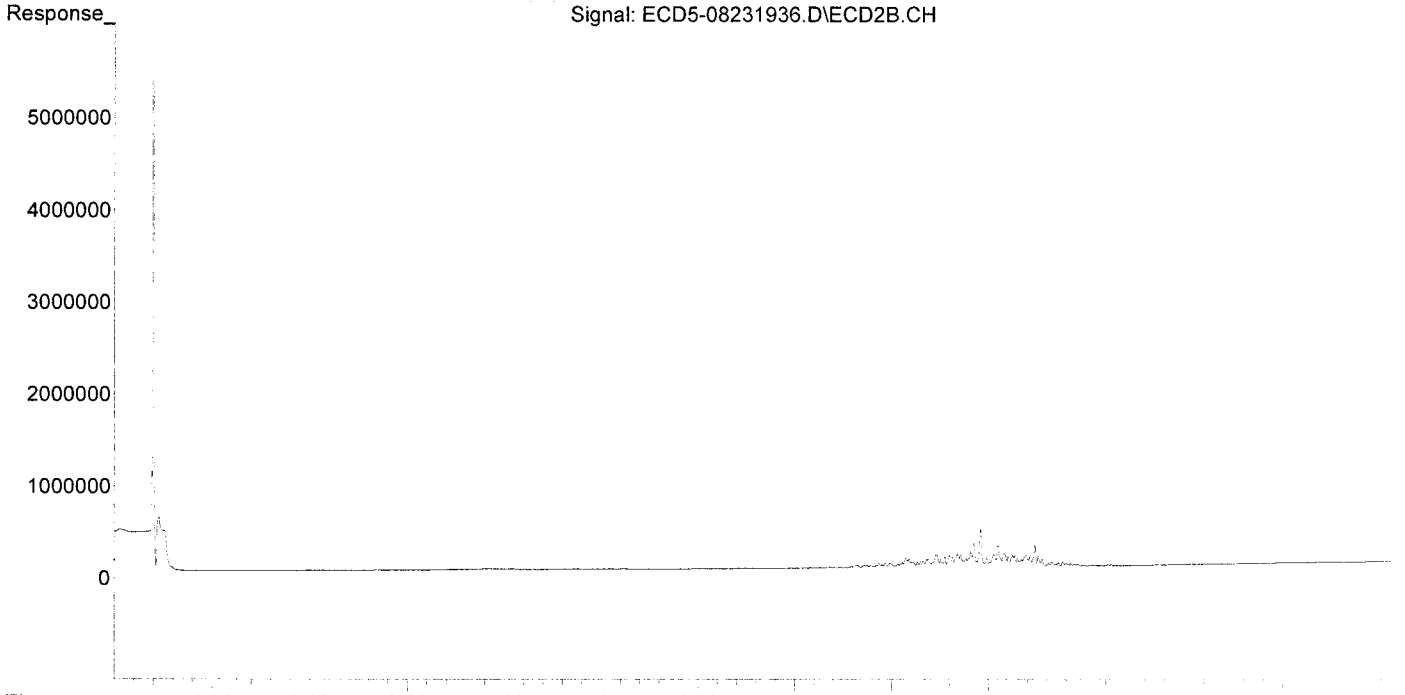
(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 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: Aug 26 12:06:20 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 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: Aug 26 12:07:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

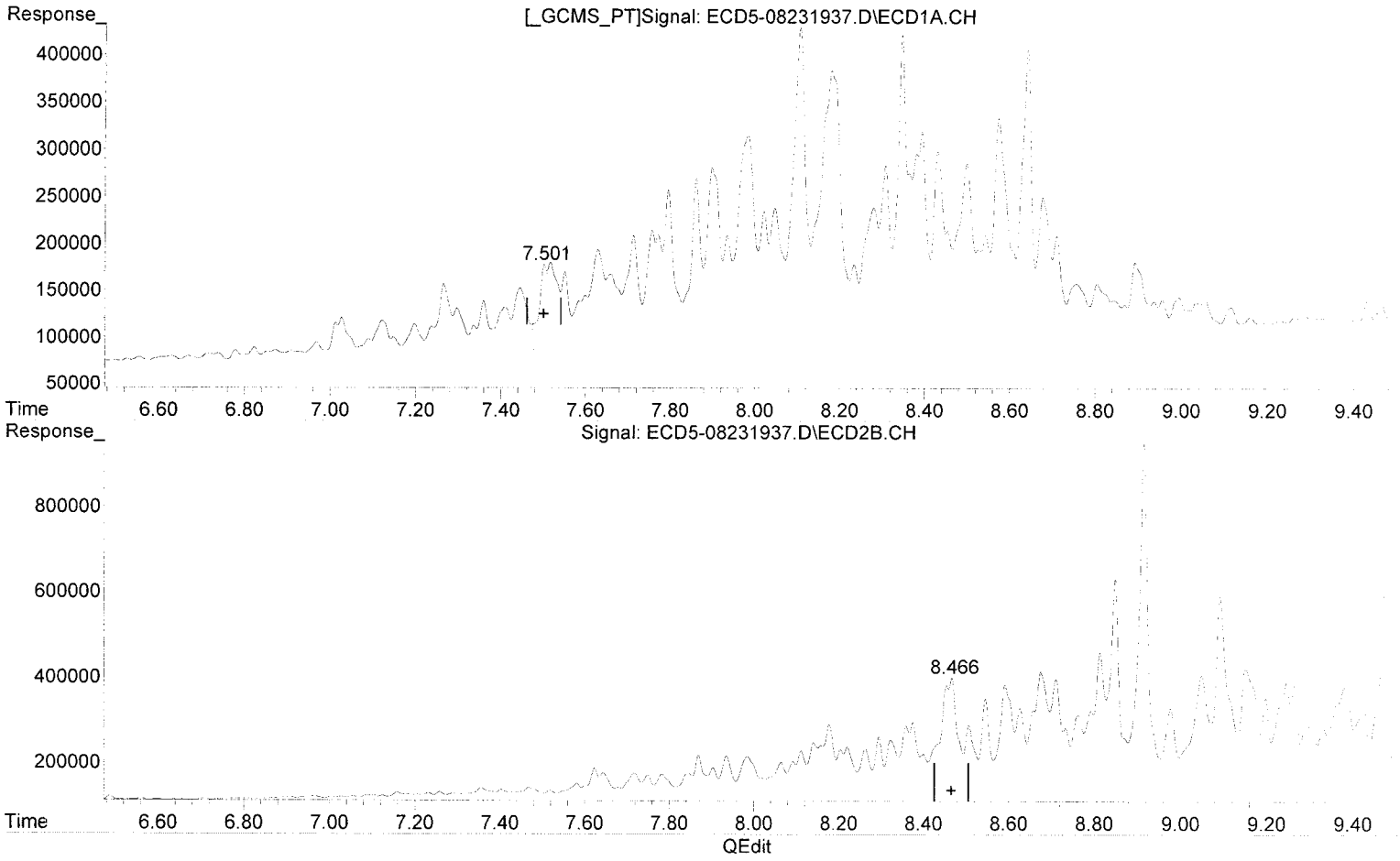
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.985	0	6562	N.D.	0.022	#
22)	S	DCBP (S)	9.592	0.000	4802	0	0.034	N.D.	#
		Target Compounds							
2)		a-BHC	5.952	0.000	2451	0	0.011	N.D.	#
3)		g-BHC	6.250f	0.000	4208	0	0.021	N.D.	#
4)		b-BHC	6.297	6.965	3419	5803	0.038	0.037	
5)		Heptachlor	6.629	7.259f	5698	7338	0.031	0.024	
6)		d-BHC	6.470f	7.259f	3844	7338	0.020	0.021	
7)		Aldrin	6.872	7.582f	9196	24729	0.047	0.075	#
8)		Heptachlo...	7.359f	7.984	53934	87078	0.293	0.289	
9)		trans-Chl...	7.445	8.141	66985	117380	0.362	0.375	
10)		cis-Chlor...	7.517	8.220	93146	107177	0.512	0.368	
11)		Endosulfa...	7.629	8.295	104883	129689	0.616	0.471	
12)		4,4'-DDE	7.551f	8.359	82562	155356	0.438	0.500	
13)		Dieldrin	7.795	8.506	166085	156611	0.865	0.515	#
14)		Endrin	7.934f	8.710	115324	262153	0.784	1.161	#
15)		4,4'-DDD	8.021	8.762	139852	178338	0.890	0.696	
16)		Endosulfa...	8.106	8.848	332842	494430	2.318	2.144	
17)		4,4'-DDT	8.182f	8.977	285351	192921	2.387	1.085	#
18)		Endrin Al...	8.393	9.091	215405	452209	0.828	1.624	#
19)		Endosulfa...	8.710	9.291	103697	183737	0.669	0.738	
20)		Methoxychlor	8.543	9.471	105544	452485	1.802	5.374	#
21)		Endrin Ke...	8.894	9.712f	71764	83930	0.430	0.326	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.811f	6.488f	2684	8988	0.015	0.029	#
25)		Oxychlordane	7.266	7.935	73507	87358	0.447	0.319	
26)		2,4'-DDE	7.359f	8.112	53934	99205	0.420	0.468	
27)		trans-Non...	7.517	8.204	93146	102328	0.204	0.339	#
28)		2,4'-DDD	7.713	8.506	118203	156611	1.036	0.829	
29)		2,4'-DDT	7.899	8.710	187872	262153	1.713	1.470	
30)		cis-Nonac...	7.982	8.762	219963	178338	1.059	0.532	#
31)		Mirex	8.641	9.712f	302577	83930	2.414	0.451	#
32)		Chlordane...	7.410	8.141	46689	117380	2.371	3.244	
33)		Chlordane...	7.517	8.220	93146	107177	3.716	3.530	
34)		Chlordane...	8.047f	8.915	142490	811948	24.647	90.560	#
35)		Chlordane...	3.450	0.000	3536	0	NoCal	N.D.	
36)		Toxaphene...	7.501	8.466	91358	267534	102.002m	101.946	
37)		Toxaphene...	7.795	8.813	166085	324070	102.843	98.471	
38)		Toxaphene...	8.106	8.848	332842	494430	98.840	97.553	
39)		Toxaphene...	8.346	8.915	320313	811948	98.857	97.241	
40)		Toxaphene...	8.574	9.091	228960	452209	95.514	97.033	
41)		Toxaphene...	8.641	9.471	302577	452485	95.614	95.256	
42)		Toxaphene...	3.450	0.000	3536	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 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: Aug 26 12:06:39 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.501min 102.002 ng/mL (m)

response 91358

(36) Toxaphene (1) #2

8.466min 101.946 ng/mL

response 267534

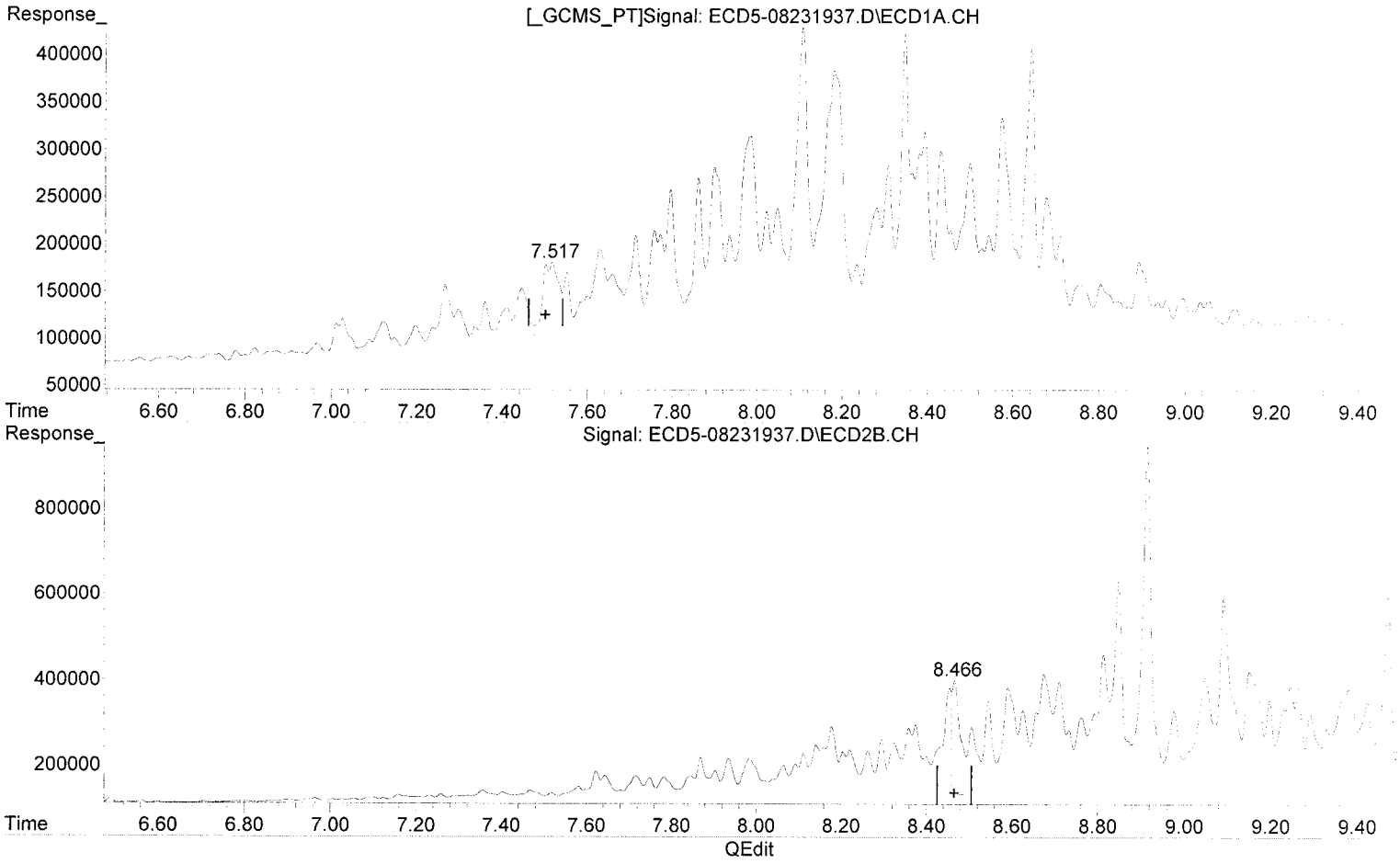
MJB 6/26/19
MJB 6/26/19

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 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: Aug 26 12:06:39 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.517min 103.998 ng/mL

response 93146

MJB 8/26/19

(36) Toxaphene (1) #2

8.466min 101.946 ng/mL

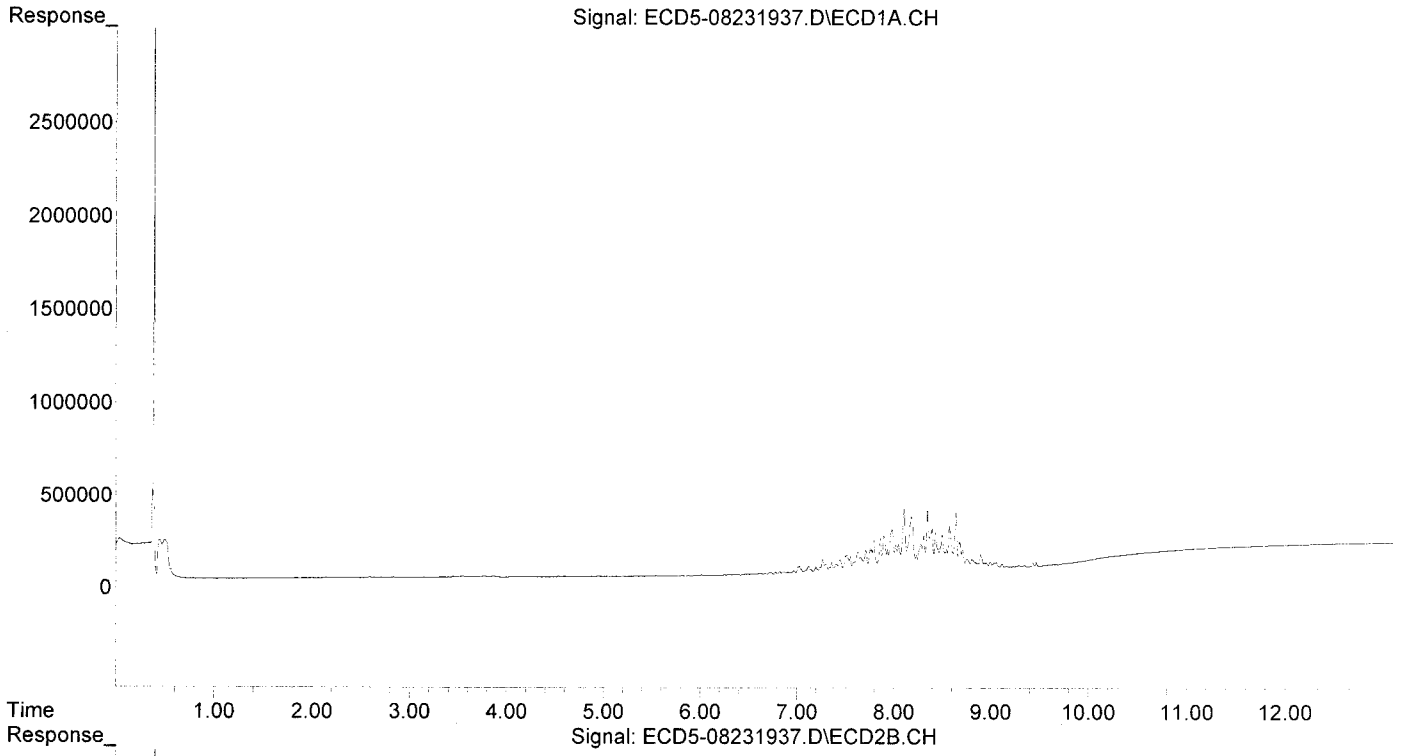
response 267534

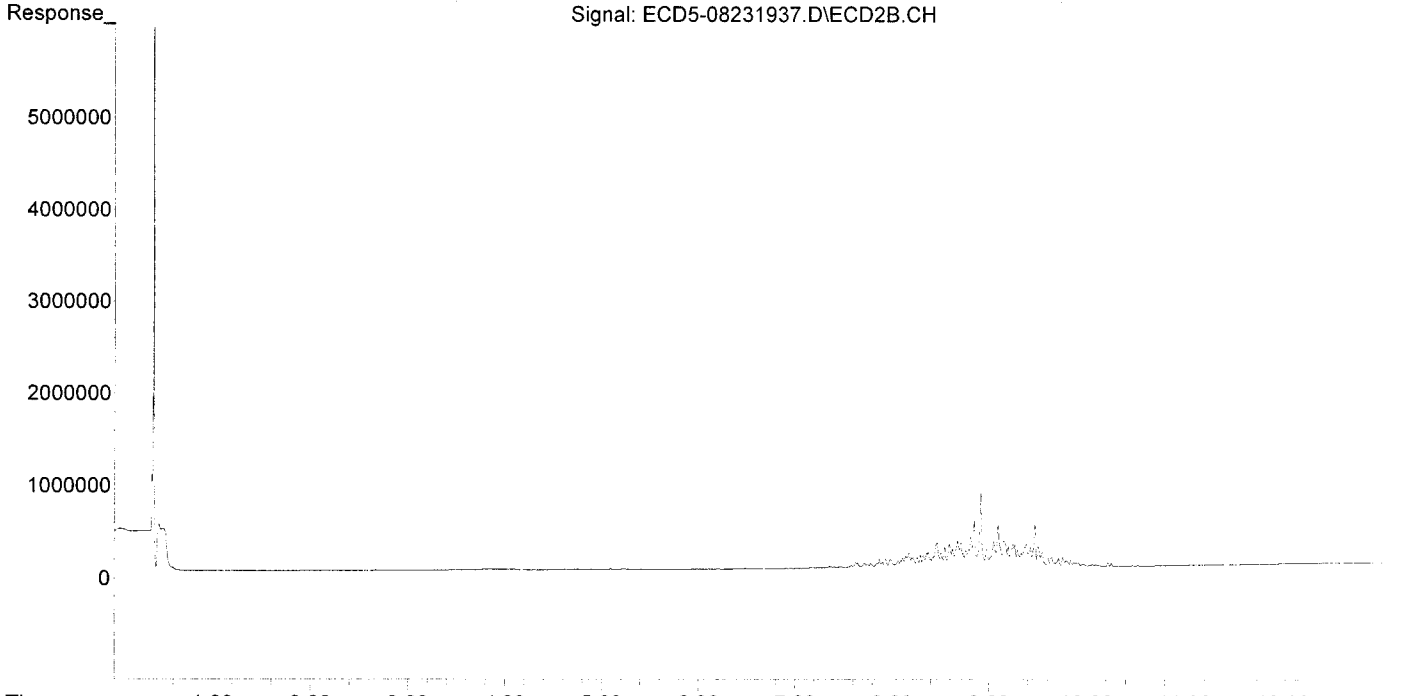
(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 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: Aug 26 12:07:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:28
Operator : MJB
Sample : 9H23034-CALP
Misc : A19D124, TOX 200 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: Aug 26 12:07:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MWB 8/20/19

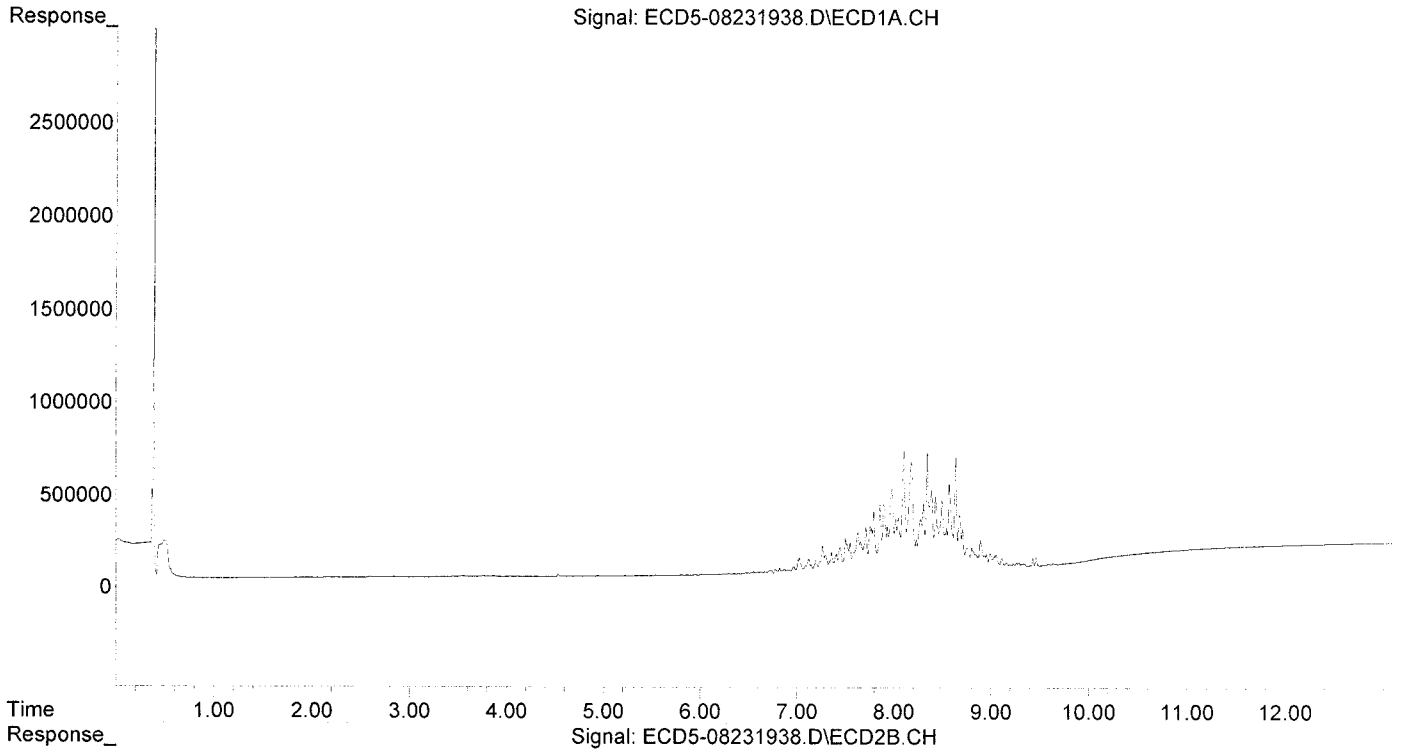
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.984	0	6031	N.D.	0.021	#
22)	S	DCBP (S)	9.591	10.521	8317	11024	0.059	0.061	
		Target Compounds							
2)		a-BHC	5.950	0.000	2445	0	0.011	N.D.	#
3)		g-BHC	6.249f	6.906	4762	8484	0.024	0.024	
4)		b-BHC	6.297	6.965	5553	11866	0.061	0.075	
5)		Heptachlor	6.630	7.292	9834	18991	0.054	0.062	
6)		d-BHC	6.469f	7.232	7279	22404	0.037	0.064	#
7)		Aldrin	6.872	7.582f	20475	52234	0.104	0.159	#
8)		Heptachlo...	7.336	7.984	58943	180203	0.320	0.599	#
9)		trans-Chl...	7.445	8.139	130754	171469	0.707	0.547	
10)		cis-Chlor...	7.502f	8.220	176047	207038	0.967	0.711	
11)		Endosulfa...	7.629	8.294	203563	255143	1.196	0.927	
12)		4,4'-DDE	7.551f	8.358	153844	307212	0.816	0.989	
13)		Dieldrin	7.795	8.506	317587	302159	1.654	0.993	
14)		Endrin	7.934f	8.709	233827	517355	1.590	2.291	#
15)		4,4'-DDD	8.021	8.761	271844	361076	1.730	1.409	
16)		Endosulfa...	8.105	8.847	644464	995555	4.488	4.317	
17)		4,4'-DDT	8.182f	8.976	572615	378347	4.789	2.160	#
18)		Endrin Al...	8.392	9.090	423151	895397	2.609	4.034	#
19)		Endosulfa...	8.709	9.290	207483	368442	1.339	1.479	
20)		Methoxychlor	8.543	9.469	215126	905244	3.673	10.806	#
21)		Endrin Ke...	8.893	9.711f	142657	173912	0.855	0.676	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.811f	6.487f	2563	8587	0.015	0.027	#
25)		Oxychlordane	7.266	7.935	140581	179085	0.854	0.654	
26)		2,4'-DDE	7.336	8.112	58943	198883	0.460	0.938	#
27)		trans-Non...	7.502	8.205	176047	199265	0.666	0.661	
28)		2,4'-DDD	7.713	8.506	232393	302159	2.036	1.600	
29)		2,4'-DDT	7.899	8.709	356627	517355	3.251	2.901	
30)		cis-Nonac...	7.982	8.761	437778	361076	2.109	1.076	#
31)		Mirex	8.640	9.711f	597991	173912	4.770	0.935	#
32)		Chlordane...	7.445	8.139	130754	171469	6.641	4.739	
33)		Chlordane...	7.502	8.220	176047	207038	7.024	6.819	
34)		Chlordane...	8.047f	8.914	280898	1580436	48.589	176.272	#
35)		Chlordane...	3.451	0.000	3919	0	NoCal	N.D.	
36)		Toxaphene...	7.502	8.466	176047	508983	196.559	193.953	
37)		Toxaphene...	7.795	8.812	317587	645322	196.656	196.085	
38)		Toxaphene...	8.105	8.847	644464	995555	191.378	196.427	
39)		Toxaphene...	8.346	8.914	632351	1580436	195.161	189.278	
40)		Toxaphene...	8.574	9.090	454431	895397	189.572	192.130	
41)		Toxaphene...	8.640	9.469	597991	905244	188.964	190.570	
42)		Toxaphene...	3.451	0.000	3919	0	NoCal	N.D.	

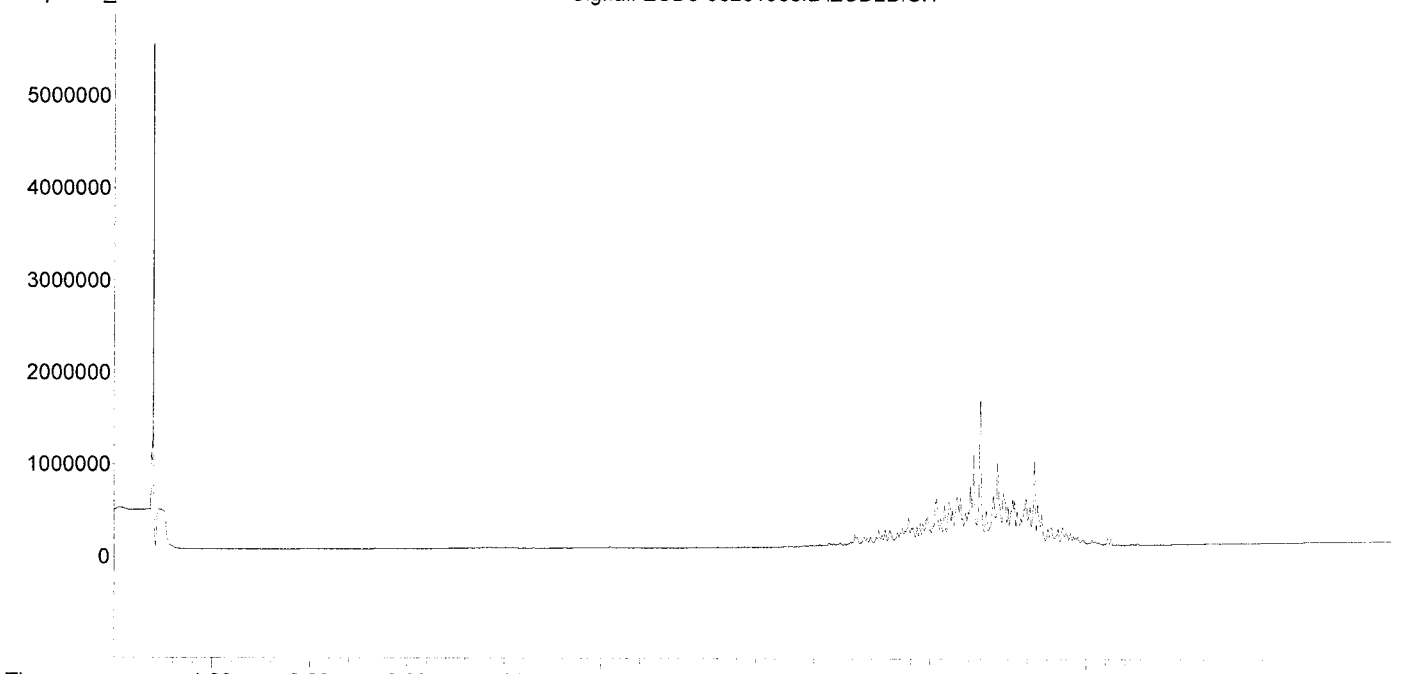
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:28
Operator : MJB
Sample : 9H23034-CALP
Misc : A19D124, TOX 200 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: Aug 26 12:07:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:45
Operator : MJB
Sample : 9H23034-CALQ
Misc : A19D125, TOX 500 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: Aug 26 12:07:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

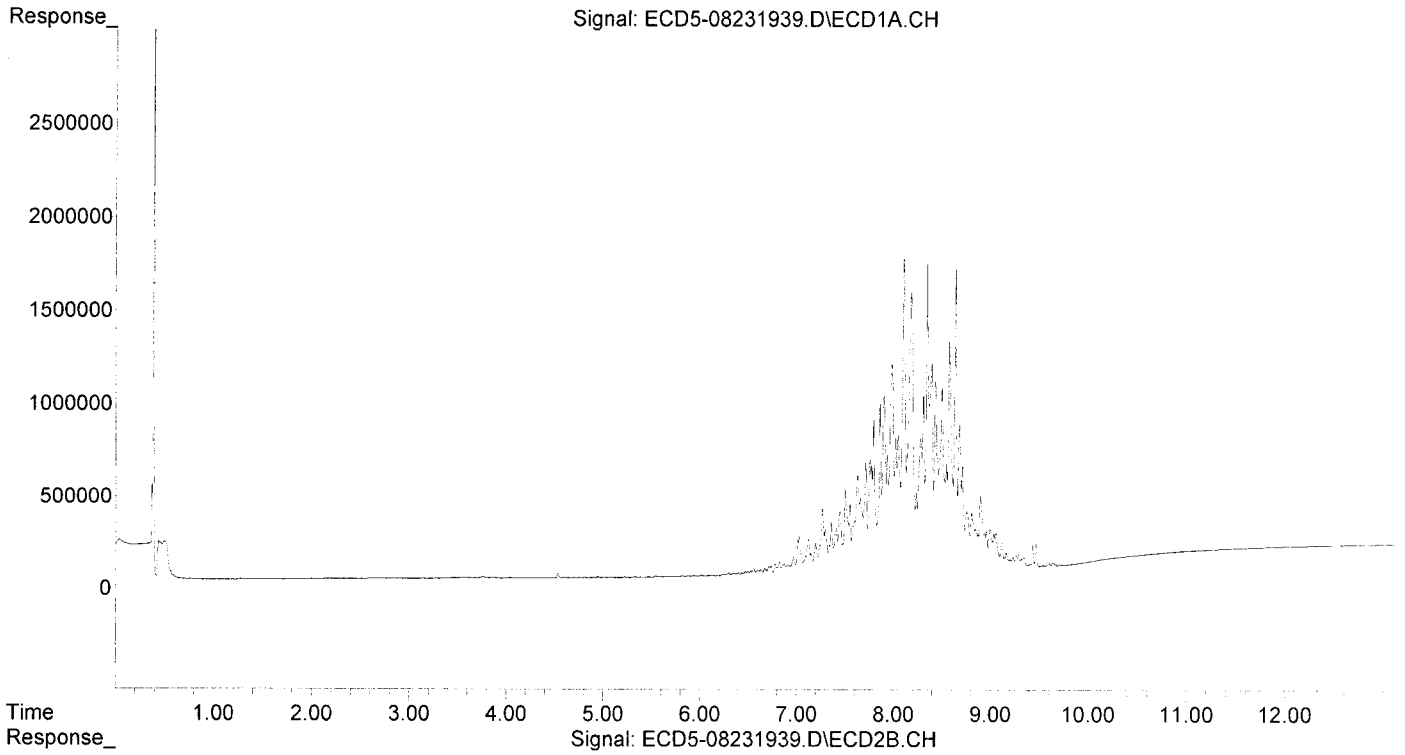
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.984	0	5601	N.D.	0.019	#
22)	S	DCBP (S)	9.591	10.521	21035	39647	0.149	0.221	#
		Target Compounds							
2)		a-BHC	5.938	6.598	3646	8422	0.016	0.021	
3)		g-BHC	6.246f	6.908	6276	21315	0.031	0.060	#
4)		b-BHC	6.296	6.966	12656	26420	0.140	0.167	
5)		Heptachlor	6.631	7.291	26275	48687	0.145	0.159	
6)		d-BHC	6.434	7.233	12949	50866	0.066	0.144	#
7)		Aldrin	6.871	7.582f	54986	128738	0.278	0.391	#
8)		Heptachlo...	7.337	7.985	148782	431601	0.808	1.435	#
9)		trans-Chl...	7.445	8.136	326510	348418	1.766	1.112	
10)		cis-Chlor...	7.502f	8.220	441826	492762	2.427	1.692	
11)		Endosulfa...	7.629	8.295	523361	619890	3.075	2.253	
12)		4,4'-DDE	7.551f	8.358	370244	790371	1.964	2.544	
13)		Dieldrin	7.794	8.506	819454	752423	4.268	2.474	#
14)		Endrin	7.934f	8.711	624315	1366705	4.246	6.052	#
15)		4,4'-DDD	8.021	8.761	715456	940917	4.553	3.672	
16)		Endosulfa...	8.105	8.848	1677481	2475022	11.681	10.733	
17)		4,4'-DDT	8.182f	8.977	1480674	1000646	12.384	5.736	#
18)		Endrin Al...	8.392	9.091	1117641	2340668	8.532	11.800	
19)		Endosulfa...	8.709	9.290	555797	952729	3.586	3.825	
20)		Methoxychlor	8.574f	9.470	1221560	2369795	20.855	27.582	
21)		Endrin Ke...	8.894	9.711f	386326	477017	2.317	1.854	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.814f	6.461	4241	6767	0.024	0.022	
25)		Oxychlordane	7.265	7.936	350487	422818	2.130	1.544	
26)		2,4'-DDE	7.337	8.112	148782	485681	1.160	2.289	#
27)		trans-Non...	7.502	8.205	441826	487255	2.150	1.615	
28)		2,4'-DDD	7.713	8.506	583556	752423	5.113	3.984	
29)		2,4'-DDT	7.899	8.711	935213	1366705	8.526	7.664	
30)		cis-Nonac...	7.981	8.761	1117997	940917	5.385	2.805	#
31)		Mirex	8.640	9.711f	1623402	477017	12.949	2.564	#
32)		Chlordane...	7.408	8.136	238293	348418	12.102	9.629	
33)		Chlordane...	7.502	8.220	441826	492762	17.628	16.228	
34)		Chlordane...	8.046f	8.915	731630	4252640	126.555	474.314	#
35)		Chlordane...	3.450	0.000	4132	0	NoCal	N.D.	
36)		Toxaphene...	7.502	8.466	441826	1308994	493.303	498.805	
37)		Toxaphene...	7.794	8.812	819454	1647741	507.421	500.677	
38)		Toxaphene...	8.105	8.848	1677481	2475022	498.140	488.332	
39)		Toxaphene...	8.346	8.915	1649569	4252640	509.102	509.308	
40)		Toxaphene...	8.574	9.091	1221560	2340668	509.590	502.251	
41)		Toxaphene...	8.640	9.470	1623402	2369795	512.991	498.883	
42)		Toxaphene...	3.450	0.000	4132	0	NoCal	N.D.	

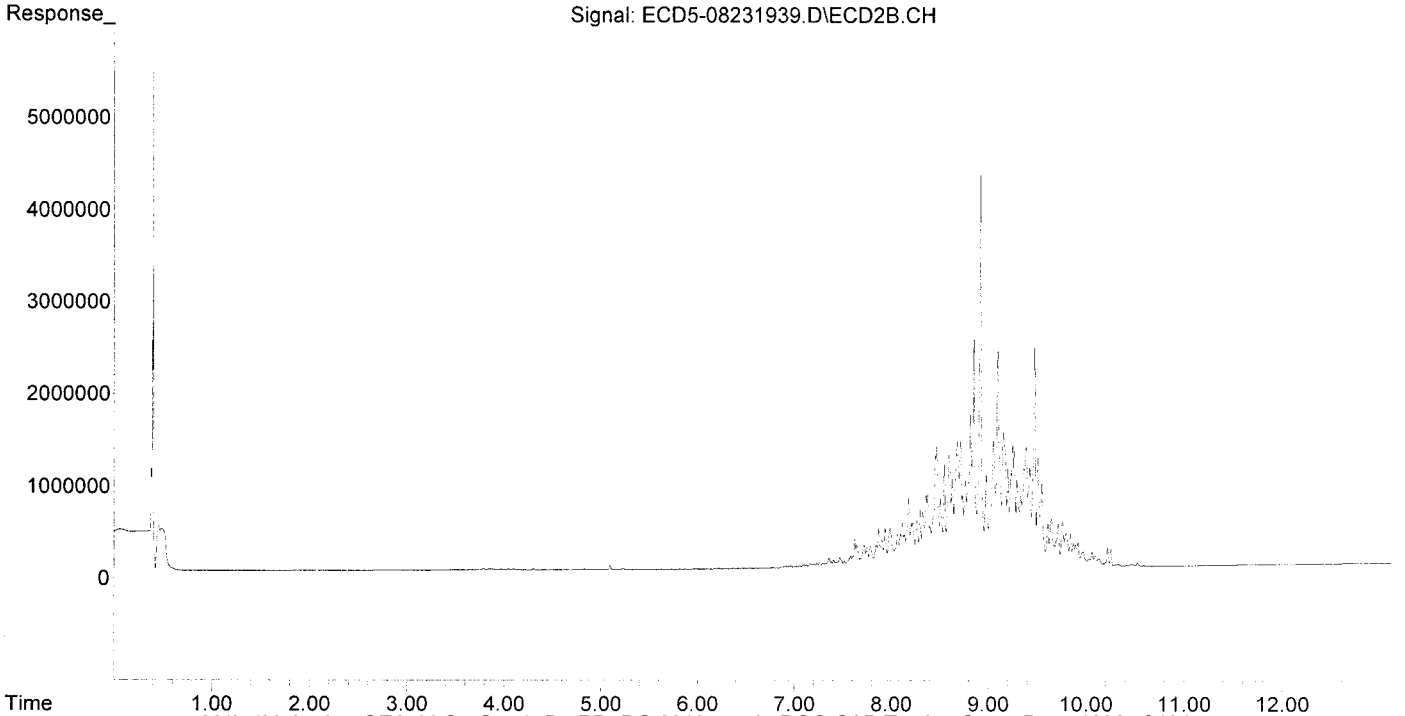
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:45
Operator : MJB
Sample : 9H23034-CALQ
Misc : A19D125, TOX 500 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: Aug 26 12:07:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:03
Operator : MJB
Sample : 9H23034-CALR
Misc : A19D126, TOX 1000 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: Aug 26 12:07:46 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 9/26/19

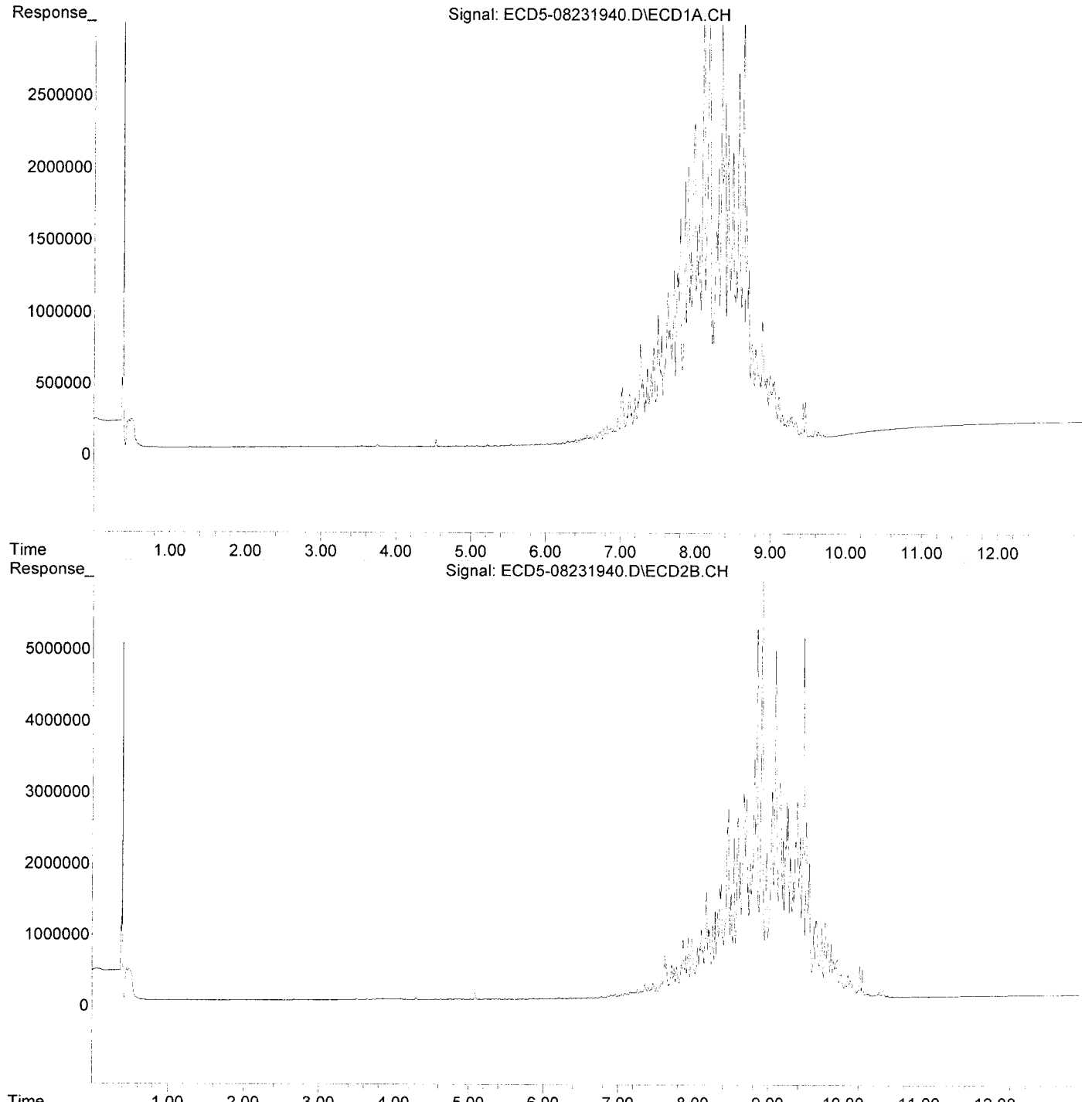
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.415f	5.982	2381	5264	0.014	0.018	
22)	S	DCBP (S)	9.591	10.522	47060	86882	0.334	0.483	#
		Target Compounds							
2)		a-BHC	5.937	6.597	7133	14957	0.031	0.036	
3)		g-BHC	6.231	6.907	12268	49388	0.061	0.138	#
4)		b-BHC	6.296	6.967	24041	58985	0.266	0.373	#
5)		Heptachlor	6.632	7.293	48435	95609	0.267	0.312	
6)		d-BHC	6.434	7.233	28416	100471	0.144	0.285	#
7)		Aldrin	6.871	7.551	108360	147580	0.549	0.448	
8)		Heptachlo...	7.336	7.985	294905	840940	1.601	2.795	#
9)		trans-Chl...	7.445	8.111f	659823	964498	3.569	3.078	
10)		cis-Chlor...	7.501f	8.220	871889	947518	4.789	3.253	
11)		Endosulfa...	7.628	8.295	1038833	1226540	6.104	4.457	
12)		4,4'-DDE	7.550f	8.358	746675	1543581	3.961	4.968	
13)		Dieldrin	7.793	8.506	1556013	1462579	8.105	4.809	#
14)		Endrin	7.933f	8.711	1312768	2786774	8.929	12.340	
15)		4,4'-DDD	8.020	8.762	1452045	1895471	9.240	7.398	
16)		Endosulfa...	8.105	8.848	3495877	5168269	24.343	22.412	
17)		4,4'-DDT	8.183	8.977	2996314	2028436	25.061	11.540	#
18)		Endrin Al...	8.391	9.091	2338006	4900430	18.826	25.221	
19)		Endosulfa...	8.709	9.291	1188299	2002950	7.668	8.041	
20)		Methoxychlor	8.543	9.470	1177404	5046645	20.101	55.668	#
21)		Endrin Ke...	8.893	9.712f	829327	990858	4.973	3.851	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.745f	6.463	2404	9221	0.014	0.029	#
25)		Oxychlordane	7.265	7.936	684836	845822	4.162	3.088	
26)		2,4'-DDE	7.336	8.111	294905	964498	2.299	4.547	#
27)		trans-Non...	7.501	8.204	871889	963521	4.550	3.194	
28)		2,4'-DDD	7.712	8.506	1203385	1462579	10.544	7.744	
29)		2,4'-DDT	7.898	8.711	1885482	2786774	17.190	15.626	
30)		cis-Nonac...	7.981	8.762	2207076	1895471	10.631	5.651	#
31)		Mirex	8.640	9.712f	3406737	990858	27.174	5.325	#
32)		Chlordane...	7.445	8.111	659823	964498	33.511	26.655	
33)		Chlordane...	7.501	8.220	871889	947518	34.786	31.205	
34)		Chlordane...	8.045f	8.915	1508434	8650068	260.924	964.776	#
35)		Chlordane...	3.451	0.000	2687	0	NoCal	N.D.	
36)		Toxaphene...	7.501	8.467	871889	2654886	973.473	1011.671	
37)		Toxaphene...	7.793	8.813	1556013	3384036	963.512	1028.262	
38)		Toxaphene...	8.105	8.848	3495877	5168269	1038.126	1019.721	
39)		Toxaphene...	8.345	8.915	3287014	8650068	1014.463	1035.957	
40)		Toxaphene...	8.573	9.091	2546293	4900430	1062.220	1051.514	
41)		Toxaphene...	8.640	9.470	3406737	5046645	1076.520	1062.406	
42)		Toxaphene...	3.451	0.000	2687	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:03
Operator : MJB
Sample : 9H23034-CALR
Misc : A19D126, TOX 1000 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: Aug 26 12:07:46 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:20
Operator : MJB
Sample : 9H23034-CALS
Misc : A19D121, TOX 2000 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: Aug 26 12:07:58 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

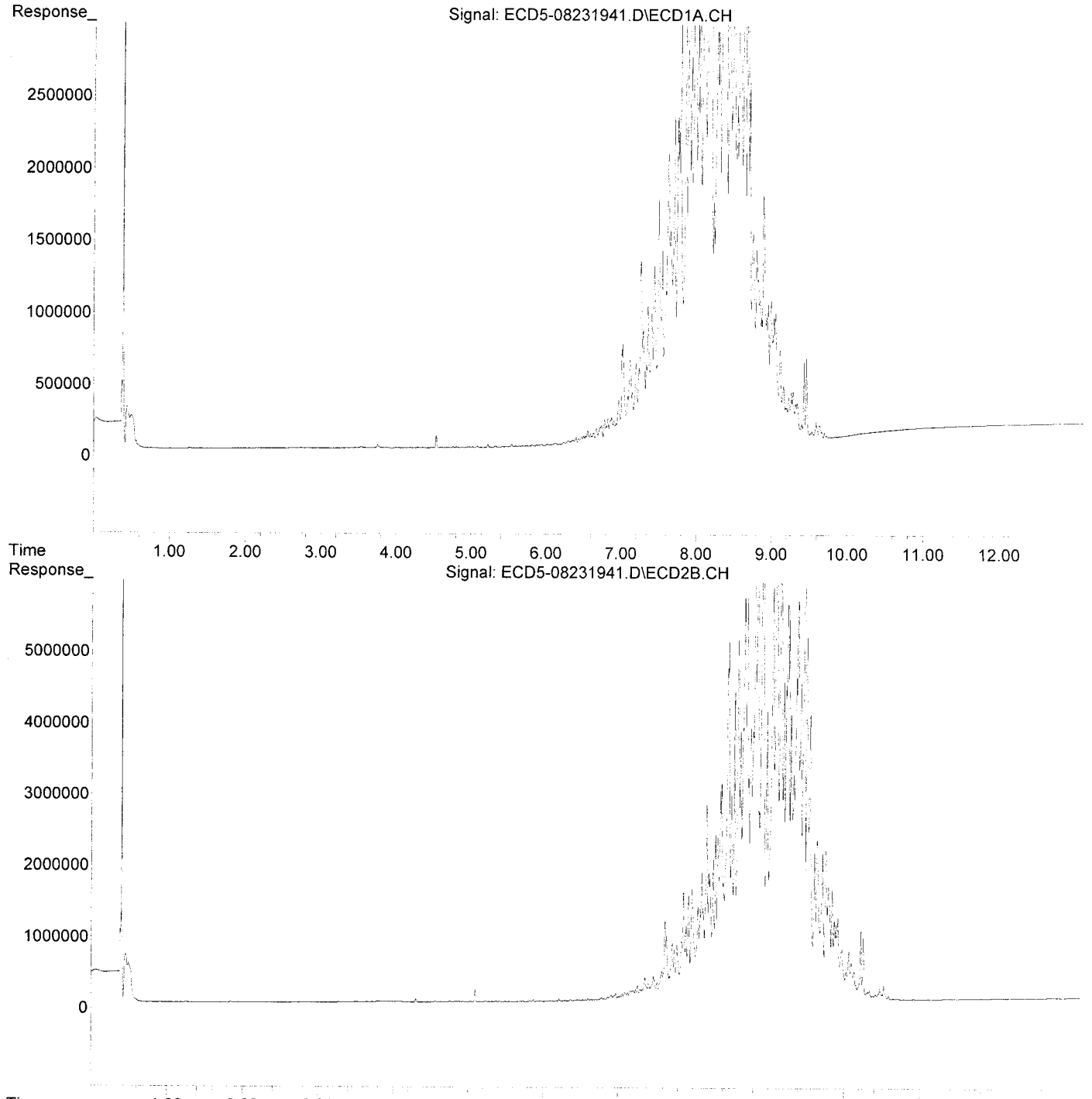
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.416f	5.979	3411	9459	0.021	0.032	#
22)	S	DCBP (S)	9.591	10.521	106938	194794	0.758	1.084	#
		Target Compounds							
2)		a-BHC	5.935	6.596	13246	39719	0.058	0.097	#
3)		g-BHC	6.231	6.908	20790	85564	0.103	0.240	#
4)		b-BHC	6.295	6.967	35592	107682	0.394	0.680	#
5)		Heptachlor	6.633	7.293	79787	161818	0.440	0.529	
6)		d-BHC	6.433	7.233	46116	159995	0.234	0.454	#
7)		Aldrin	6.871	7.581f	182635	424827	0.925	1.290	
8)		Heptachlo...	7.357f	7.984	952857	1568607	5.174	5.214	
9)		trans-Chl...	7.444	8.111f	1223688	1798529	6.618	5.740	
10)		cis-Chlor...	7.500f	8.218f	1674674	1710240	9.198	5.872	
11)		Endosulfa...	7.627	8.294	1999949	2341198	11.752	8.508	
12)		4,4'-DDE	7.549f	8.357	1335034	2938735	7.081	9.459	
13)		Dieldrin	7.792	8.505	2958997	2895788	15.413	9.521	
14)		Endrin	7.981f	8.711	4441487	5651216	30.209	25.025	
15)		4,4'-DDD	8.020	8.761	2883315	3832878	18.349	14.960	
16)		Endosulfa...	8.104	8.848	6831460	10545708	47.569	45.730	
17)		4,4'-DDT	8.183	8.977	5897786	4051156	49.329	22.612	#
18)		Endrin Al...	8.391	9.091	4718611	9435236	38.506	48.051	
19)		Endosulfa...	8.708	9.291	2483005	4046643	16.022	16.246	
20)		Methoxychlor	8.542	9.471	2322878	10090951	39.657	102.111	#
21)		Endrin Ke...	8.893	9.712f	1725359	2080010	10.346	8.083	
23)		Hexachlor...	0.000	0.000	0	0	N.D.	N.D.	
24)		Hexachlor...	5.744f	6.462	3614	25550	0.021	0.081	#
25)		Oxychlordane	7.264	7.935	1262060	1485955	7.670	5.425	
26)		2,4'-DDE	7.357f	8.111	952857	1798529	7.429	8.478	
27)		trans-Non...	7.500	8.204	1674674	1791431	9.032	5.939	
28)		2,4'-DDD	7.712	8.505	2255144	2895788	19.760	15.333	
29)		2,4'-DDT	7.898	8.711	3633258	5651216	33.124	31.688	
30)		cis-Nonac...	7.981	8.761	4441487	3832878	21.393	11.426	#
31)		Mirex	8.640	9.712f	6510950	2080010	51.935	11.178	#
32)		Chlordane...	7.444	8.111	1223688	1798529	62.149	49.704	
33)		Chlordane...	7.500	8.218	1674674	1710240	66.815	56.324	
34)		Chlordane...	8.044f	8.914	2935856	17190037	507.835	1917.273	#
35)		Chlordane...	3.452	0.000	4166	0	NoCal	N.D.	
36)		Toxaphene...	7.500	8.466	1674674	5030917	1869.791	1917.082	
37)		Toxaphene...	7.792	8.813	2958997	6610397	1832.266	2008.613	
38)		Toxaphene...	8.104	8.848	6831460	10545708	2028.651	2080.712	
39)		Toxaphene...	8.345	8.914	6407070	17190037	1977.398	2058.728	
40)		Toxaphene...	8.572	9.091	5074570	9435236	2116.925	2024.573	
41)		Toxaphene...	8.640	9.471	6510950	10090951	2057.443	2124.320	
42)		Toxaphene...	3.452	0.000	4166	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\
Data File : ECD5-08231941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:20
Operator : MJB
Sample : 9H23034-CALS
Misc : A19D121, TOX 2000 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: Aug 26 12:07:58 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:48:23 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Sequence Name: C:\msdchem\4\sequence\9H23034.s
Comment: Pesticides
Operator: MJB
Data Path: C:\MSDCHEM\4\DATA\2019-08\9H23034\
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	100	CONDITIONING RUN
	Datafile		ECD5-08231901
	Method		ECD5_AQUPEST_160111
2)	Sample	100	CONDITIONING RUN
	Datafile		ECD5-08231902
	Method		ECD5_AQUPEST_160111
3)	Sample	1	Hexane
	Datafile		ECD5-08231903
	Method		ECD5_AQUPEST_160111
4)	Sample	2	9H23034-BKD1
	Datafile		ECD5-08231904
	Method		ECD5_AQUPEST_160111
5)	Sample	1	Hexane
	Datafile		ECD5-08231905
	Method		ECD5_AQUPEST_160111
6)	Sample	2	9H23034-BKD2
	Datafile		ECD5-08231906
	Method		ECD5_AQUPEST_160111
7)	Sample	3	9H23034-ICB1
	Datafile		ECD5-08231907
	Method		ECD5_AQUPEST_160111
8)	Sample	4	9H23034-CAL1
	Datafile		ECD5-08231908
	Method		ECD5_AQUPEST_160111
9)	Sample	5	9H23034-CAL2
	Datafile		ECD5-08231909
	Method		ECD5_AQUPEST_160111
10)	Sample	6	9H23034-CAL3
	Datafile		ECD5-08231910
	Method		ECD5_AQUPEST_160111
11)	Sample	7	9H23034-CAL4
	Datafile		ECD5-08231911
	Method		ECD5_AQUPEST_160111
12)	Sample	8	9H23034-CAL5
	Datafile		ECD5-08231912
	Method		ECD5_AQUPEST_160111
13)	Sample	9	9H23034-CAL6
	Datafile		ECD5-08231913
	Method		ECD5_AQUPEST_160111
14)	Sample	10	9H23034-CAL7
	Datafile		ECD5-08231914
	Method		ECD5_AQUPEST_160111
15)	Sample	11	9H23034-CAL8
	Datafile		ECD5-08231915
	Method		ECD5_AQUPEST_160111
16)	Sample	1	9H23034-IBL1
	Datafile		ECD5-08231916
	Method		ECD5_AQUPEST_160111
17)	Sample	12	9H23034-ICV1
	Datafile		ECD5-08231917
	Method		ECD5_AQUPEST_160111
18)	Sample	13	9H23034-CAL9
	Datafile		ECD5-08231918
	Method		ECD5_AQUPEST_160111
19)	Sample	14	9H23034-CALA
	Datafile		ECD5-08231919
	Method		ECD5_AQUPEST_160111
20)	Sample	15	9H23034-CALB

MB 8/26/19

	Datafile		ECD5-08231920
	Method		ECD5_AQUPEST_160111
21)	Sample	16	9H23034-CALC
	Datafile		ECD5-08231921
	Method		ECD5_AQUPEST_160111
22)	Sample	17	9H23034-CALD
	Datafile		ECD5-08231922
	Method		ECD5_AQUPEST_160111
23)	Sample	18	9H23034-CALE
	Datafile		ECD5-08231923
	Method		ECD5_AQUPEST_160111
24)	Sample	19	9H23034-CALF
	Datafile		ECD5-08231924
	Method		ECD5_AQUPEST_160111
25)	Sample	20	9H23034-CALG
	Datafile		ECD5-08231925
	Method		ECD5_AQUPEST_160111
26)	Sample	1	9H23034-IBL2
	Datafile		ECD5-08231926
	Method		ECD5_AQUPEST_160111
27)	Sample	21	9H23034-ICV2
	Datafile		ECD5-08231927
	Method		ECD5_AQUPEST_160111
28)	Sample	22	9H23034-CALH
	Datafile		ECD5-08231928
	Method		ECD5_AQUPEST_160111
29)	Sample	23	9H23034-CALI
	Datafile		ECD5-08231929
	Method		ECD5_AQUPEST_160111
30)	Sample	24	9H23034-CALJ
	Datafile		ECD5-08231930
	Method		ECD5_AQUPEST_160111
31)	Sample	25	9H23034-CALK
	Datafile		ECD5-08231931
	Method		ECD5_AQUPEST_160111
32)	Sample	26	9H23034-CALL
	Datafile		ECD5-08231932
	Method		ECD5_AQUPEST_160111
33)	Sample	27	9H23034-CALM
	Datafile		ECD5-08231933
	Method		ECD5_AQUPEST_160111
34)	Sample	1	9H23034-IBL3
	Datafile		ECD5-08231934
	Method		ECD5_AQUPEST_160111
35)	Sample	28	9H23034-ICV3
	Datafile		ECD5-08231935
	Method		ECD5_AQUPEST_160111
36)	Sample	29	9H23034-CALN
	Datafile		ECD5-08231936
	Method		ECD5_AQUPEST_160111
37)	Sample	30	9H23034-CALO
	Datafile		ECD5-08231937
	Method		ECD5_AQUPEST_160111
38)	Sample	31	9H23034-CALP
	Datafile		ECD5-08231938
	Method		ECD5_AQUPEST_160111
39)	Sample	32	9H23034-CALQ
	Datafile		ECD5-08231939
	Method		ECD5_AQUPEST_160111
40)	Sample	33	9H23034-CALR
	Datafile		ECD5-08231940
	Method		ECD5_AQUPEST_160111
41)	Sample	34	9H23034-CALS
	Datafile		ECD5-08231941
	Method		ECD5_AQUPEST_160111
42)	Sample	1	9H23034-IBL4
	Datafile		ECD5-08231942
	Method		ECD5_AQUPEST_160111
43)	Sample	35	9H23034-ICV4
	Datafile		ECD5-08231943
	Method		ECD5_AQUPEST_160111

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-08\9H23034\
Data File : ECD5-08231904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 12:24
Operator : MJB
Sample : 9H23034-BKD1
Misc : A19G138
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: Aug 23 12:40:24 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
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	7.587	1120444	NoCal	ng/mL
2)	Endrin	7.960	63253664	NoCal	ng/mL
3)	4,4'-DDD	8.007	6621952	NoCal	ng/mL
4)	4,4'-DDT	8.205	107029729	NoCal	ng/mL
5)	Endrin Aldehyde	8.407	4202397	NoCal	ng/mL
6)	Endrin Ketone	8.901	6297738	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.347	1706439	NoCal	ng/mL
9)	Endrin [2C]	8.719	95742281	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.761	11347306	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.102	6529476	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.988	167003448	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.690	10363842	NoCal	ng/mL

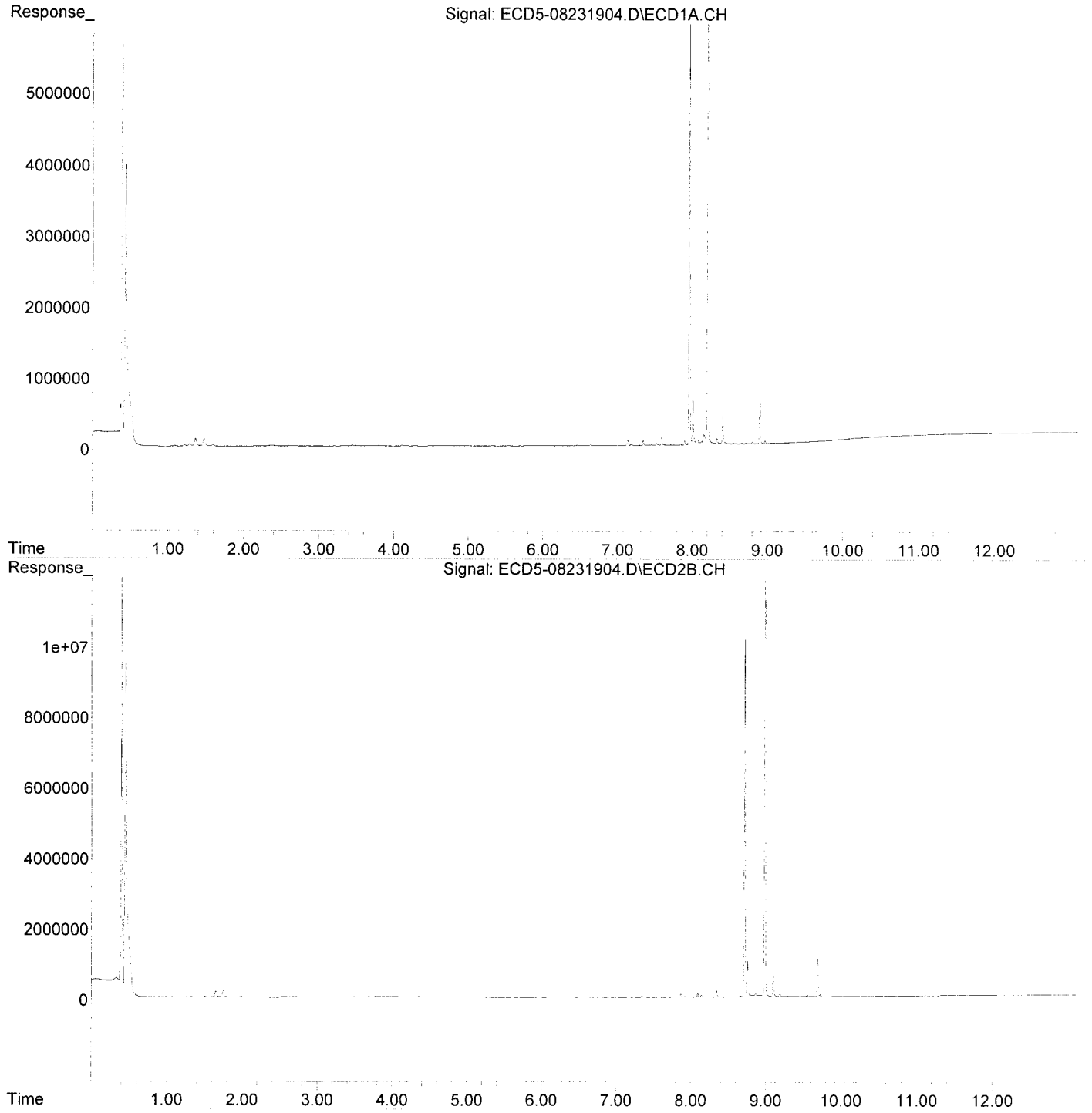
(f)=RT Delta > 1/2 Window (m)=manual int.

Breakdown passing, but ~~the~~ High. Maintenance performed
MJB 8/26/19
MJB 8/26/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-08\9H23034\
Data File : ECD5-08231904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 12:24
Operator : MJB
Sample : 9H23034-BKD1
Misc : A19G138
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: Aug 23 12:40:24 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 9H23034 BKD2
Data File: ECD5-08231906.D

First Column Area Counts		Percent Breakdown	
DDE	734891		
DDD	4530463		
DDT	125149199	**4.04**	**PASS**
Endrin	70846235	**8.91**	**PASS**
Endrin Aldehyde	2399187		
Endrin Ketone	4532548		

Second Column Area Counts		Percent Breakdown	
DDE	977816		
DDD	7819328		
DDT	188765825	**4.45**	**PASS**
Endrin	109289125	**8.73**	**PASS**
Endrin Aldehyde	3703608		
Endrin Ketone	6751447		

Breakdown must be less than 15% to accept sample data.

MJB 9/26/17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-08\9H23034\
Data File : ECD5-08231906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:16
Operator : MJB
Sample : 9H23034-BKD2
Misc : A19G138
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: Aug 23 13:30:06 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
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	7.586	734891	NoCal	ng/mL
2)	Endrin	7.960	70846235	NoCal	ng/mL
3)	4,4'-DDD	8.007	4530463	NoCal	ng/mL
4)	4,4'-DDT	8.205	125149199	NoCal	ng/mL
5)	Endrin Aldehyde	8.407	2399187	NoCal	ng/mL
6)	Endrin Ketone	8.902	4532548	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.345	977816	NoCal	ng/mL
9)	Endrin [2C]	8.718	109289125	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.760	7819328	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.101	3703608	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.988	188765825	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.690	6751447	NoCal	ng/mL

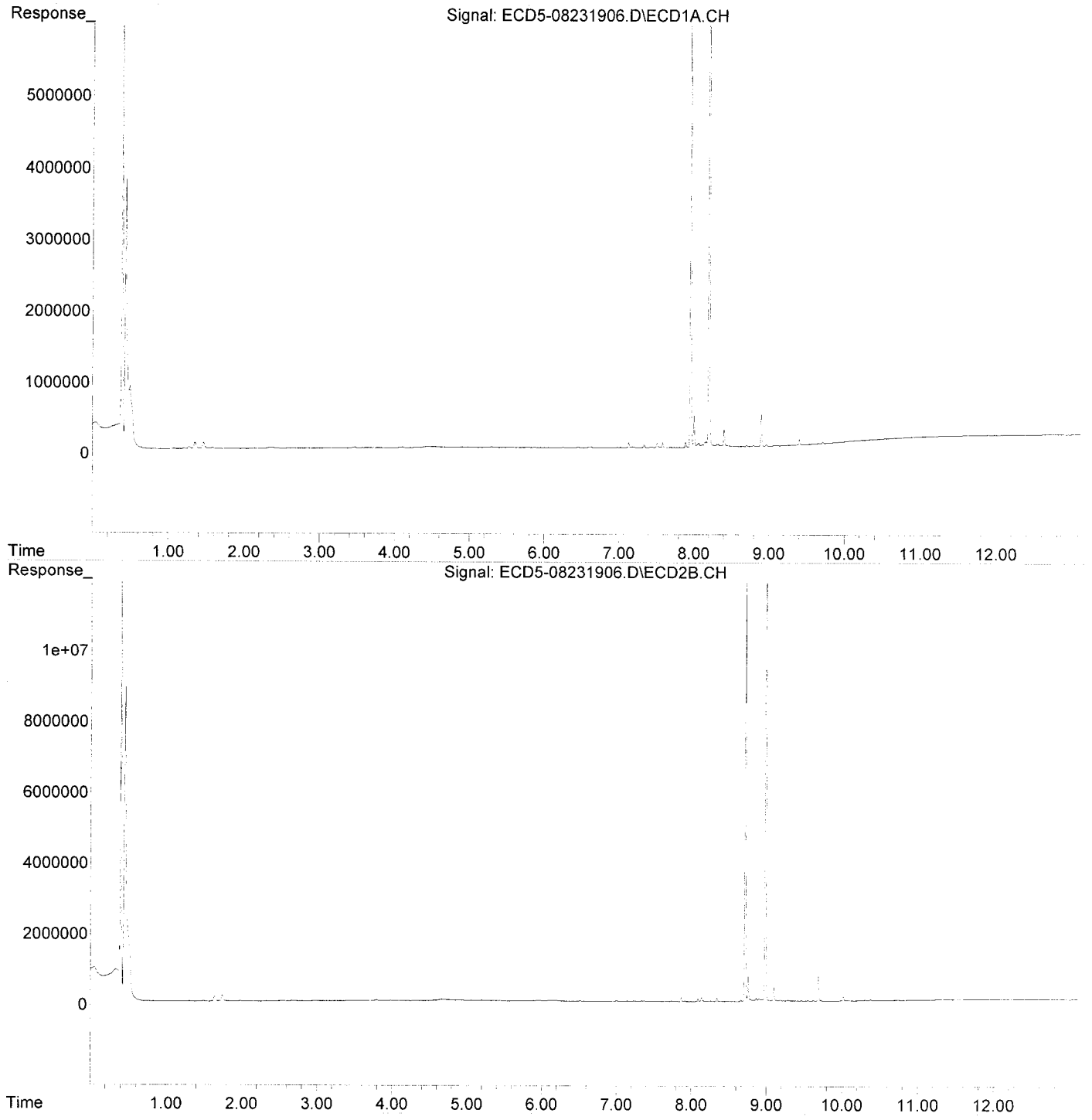
(f)=RT Delta > 1/2 Window (m)=manual int.

Swabbed in IBA w/ Hexane. MWP 8/26/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-08\9H23034\
Data File : ECD5-08231906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:16
Operator : MJB
Sample : 9H23034-BKD2
Misc : A19G138
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: Aug 23 13:30:06 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_190823.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 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: Aug 26 11:15:45 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJT 8/26/19

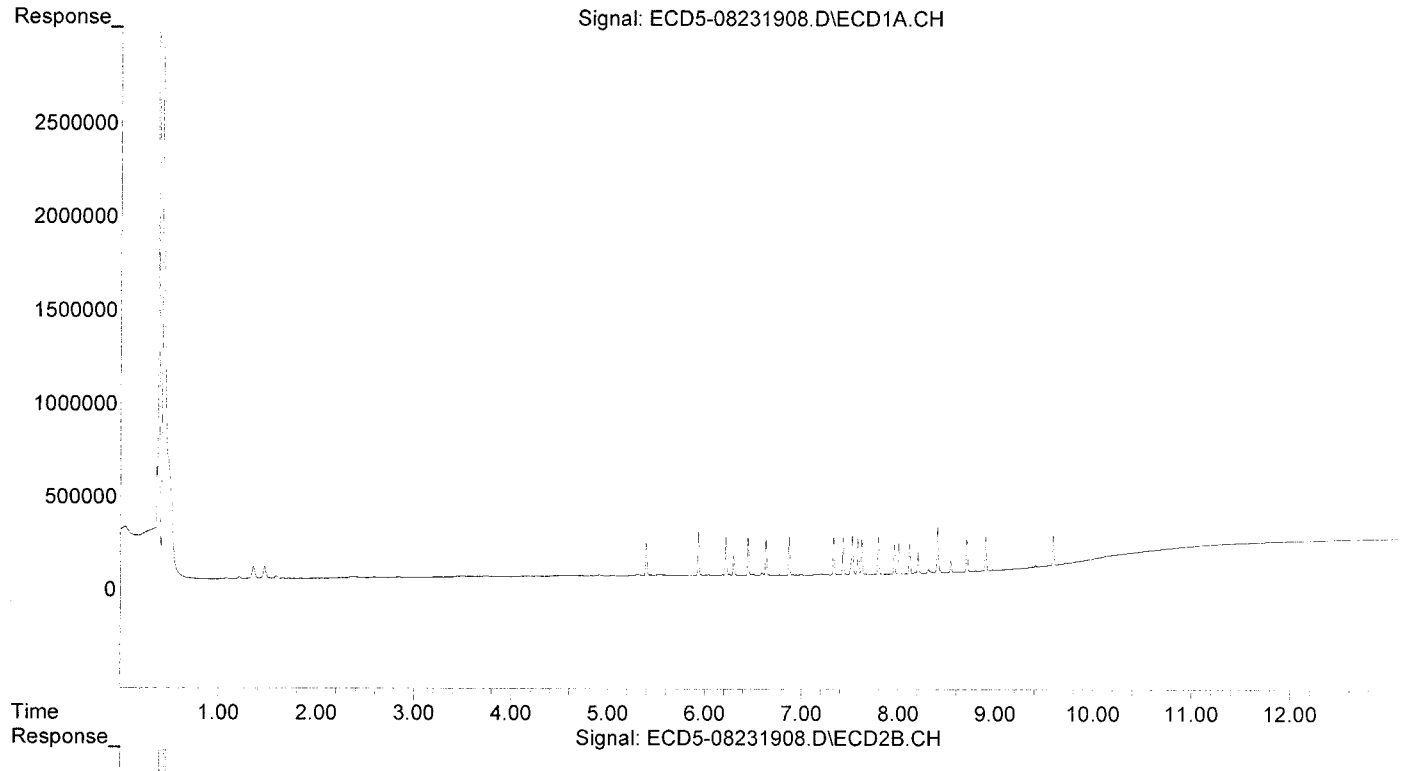
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.397	5.991	176748	300053	1.633	1.607
22) S	DCBP (S)	9.593	10.541	163865	191572	1.202	1.206
	Target Compounds						
2)	a-BHC	5.937	6.597	231994	393119	1.665	1.296
3)	g-BHC	6.221	6.915	207427	352286	1.380	1.170
4)	b-BHC	6.300	6.980	104326	176262	1.760	1.450
5)	Heptachlor	6.635	7.292	192066	309811	1.183	1.054
6)	d-BHC	6.450	7.234	199840	349123	1.893	1.474
7)	Aldrin	6.875	7.557	205523	317466	1.221	1.096
8)	Heptachlo...	7.335	7.994	200503	310098	1.276	1.175
9)	trans-Chl...	7.433	8.135	197202	364142	1.276	1.384
10)	cis-Chlor...	7.528	8.241	209780	299422	1.367	1.179
11)	Endosulfa...	7.625	8.291	185217	278874	1.245	1.173
12)	4,4'-DDE	7.586	8.346	193435	298463	1.647	1.374
13)	Dieldrin	7.796	8.491	197721	296684	1.194	1.095
14)	Endrin	7.961	8.718	156412	222882	1.190	1.096
15)	4,4'-DDD	8.007	8.760	164956	251549	1.683	1.281
16)	Endosulfa...	8.118	8.865	158139	232156	1.378	1.183
17)	4,4'-DDT	8.205	8.986	113897	179700	1.686	1.607
18)	Endrin Al...	8.407	9.101	241285	348624	2.337	2.034
19)	Endosulfa...	8.708	9.292	176097	265797	1.418	1.337
20)	Methoxychlor	8.543	9.466	59659	95155	1.698	1.611
21)	Endrin Ke...	8.901	9.690	177552	255763	1.293	1.268
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

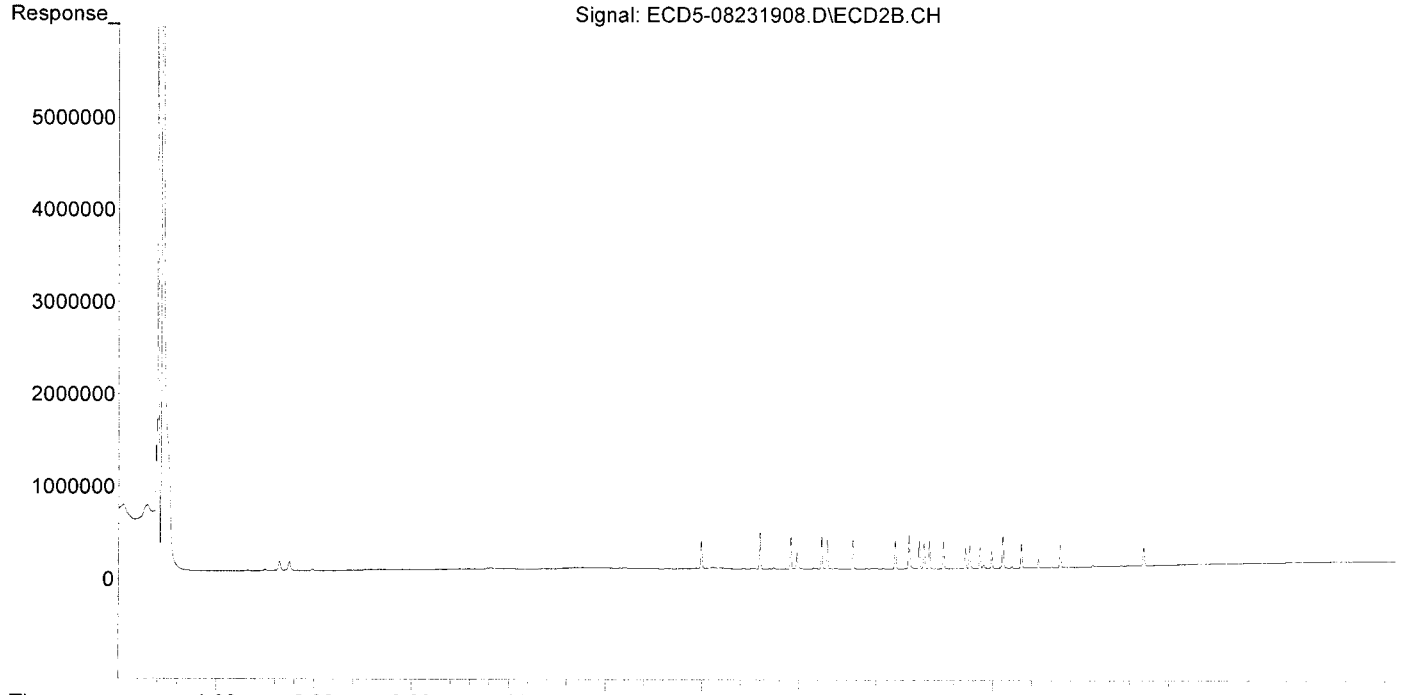
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 13:51
Operator : MJB
Sample : 9H23034-CAL1
Misc : A19E245, AB 1 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: Aug 26 11:15:45 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231909.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:08
Operator : MJB
Sample : 9H23034-CAL2
Misc : A19E246, AB 2 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: Aug 26 11:16:21 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

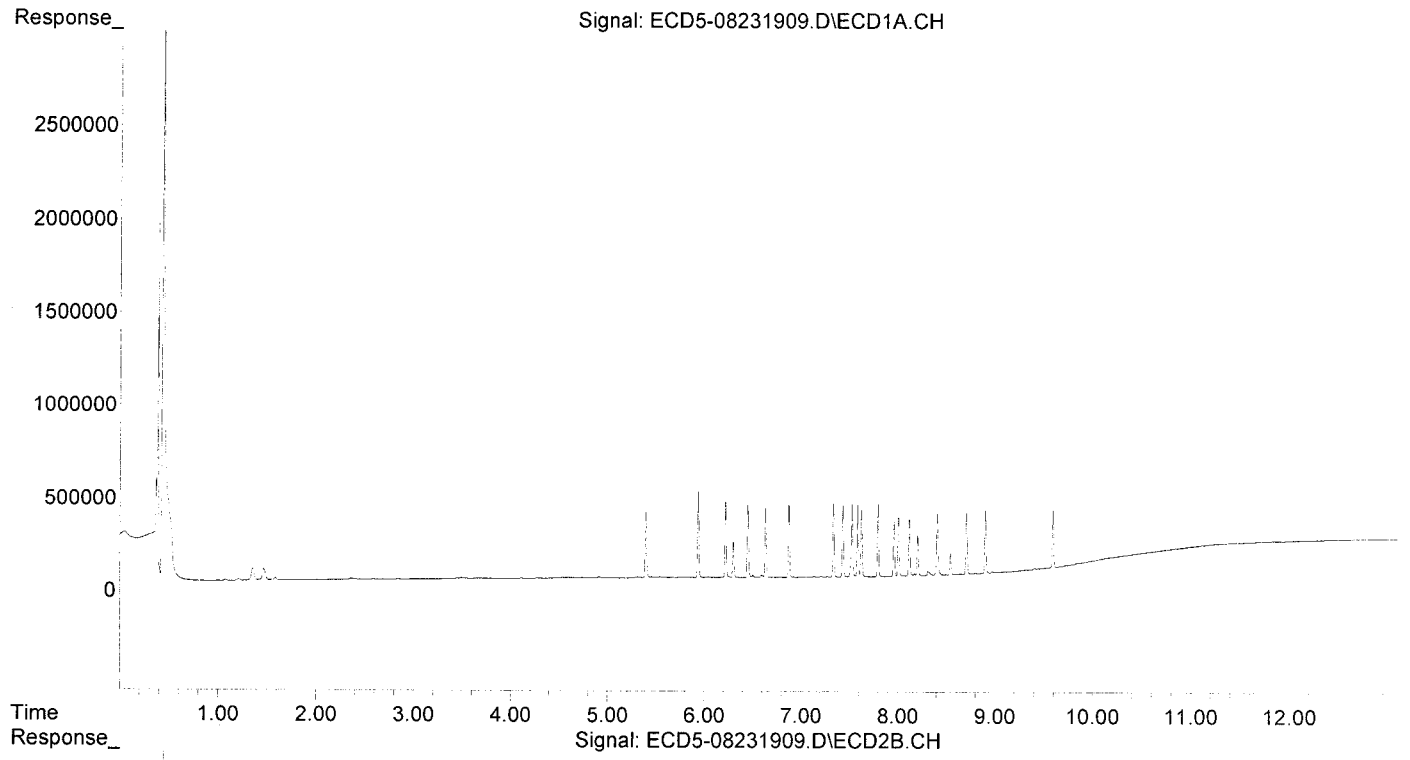
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.396	5.990	349972	600766	3.233	3.230
22)	S	DCBP (S)	9.593	10.542	309904	390006	2.547	2.456
		Target Compounds						
2)		a-BHC	5.936	6.597	458365	784586	3.177	2.540
3)		g-BHC	6.220	6.915	406027	690922	2.702	2.295
4)		b-BHC	6.300	6.980	194168	335260	3.275	2.757
5)		Heptachlor	6.635	7.291	369615	586765	2.276	1.995
6)		d-BHC	6.450	7.233	386980	669122	3.575	2.783
7)		Aldrin	6.875	7.556	399550	635458	2.375	2.194
8)		Heptachlo...	7.335	7.993	392052	606240	2.495	2.296
9)		trans-Chl...	7.432	8.135	382271	644454	2.473	2.449
10)		cis-Chlor...	7.527	8.241	389999	579667	2.541	2.282
11)		Endosulfa...	7.625	8.291	357368	540442	2.402	2.273
12)		4,4'-DDE	7.586	8.345	388618	598066	3.268	2.709
13)		Dieldrin	7.796	8.491	395728	583812	2.390	2.154
14)		Endrin	7.960	8.718	298515	424889	2.271	2.149
15)		4,4'-DDD	8.006	8.760	314622	488120	3.236	2.486
16)		Endosulfa...	8.118	8.864	299106	462256	2.607	2.355
17)		4,4'-DDT	8.204	8.986	218190	341782	3.052	2.875
18)		Endrin Al...	8.407	9.101	328182	477694	3.179	2.786
19)		Endosulfa...	8.707	9.291	322163	498767	2.595	2.558
20)		Methoxychlor	8.542	9.465	111466	178074	3.136	2.980
21)		Endrin Ke...	8.901	9.689	331269	493110	2.413	2.461
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

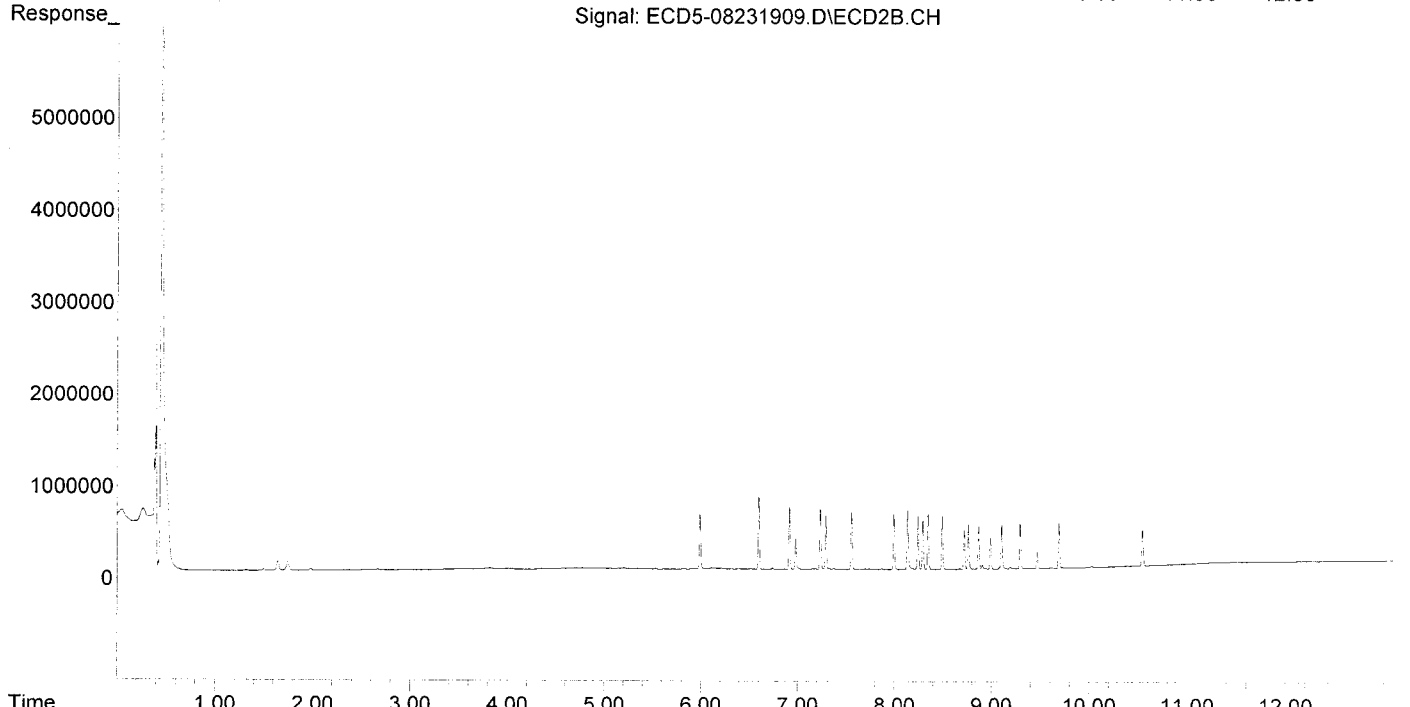
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231909.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:08
Operator : MJB
Sample : 9H23034-CAL2
Misc : A19E246, AB 2 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: Aug 26 11:16:21 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:25
Operator : MJB
Sample : 9H23034-CAL3
Misc : A19E247, AB 5 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: Aug 26 11:16:57 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

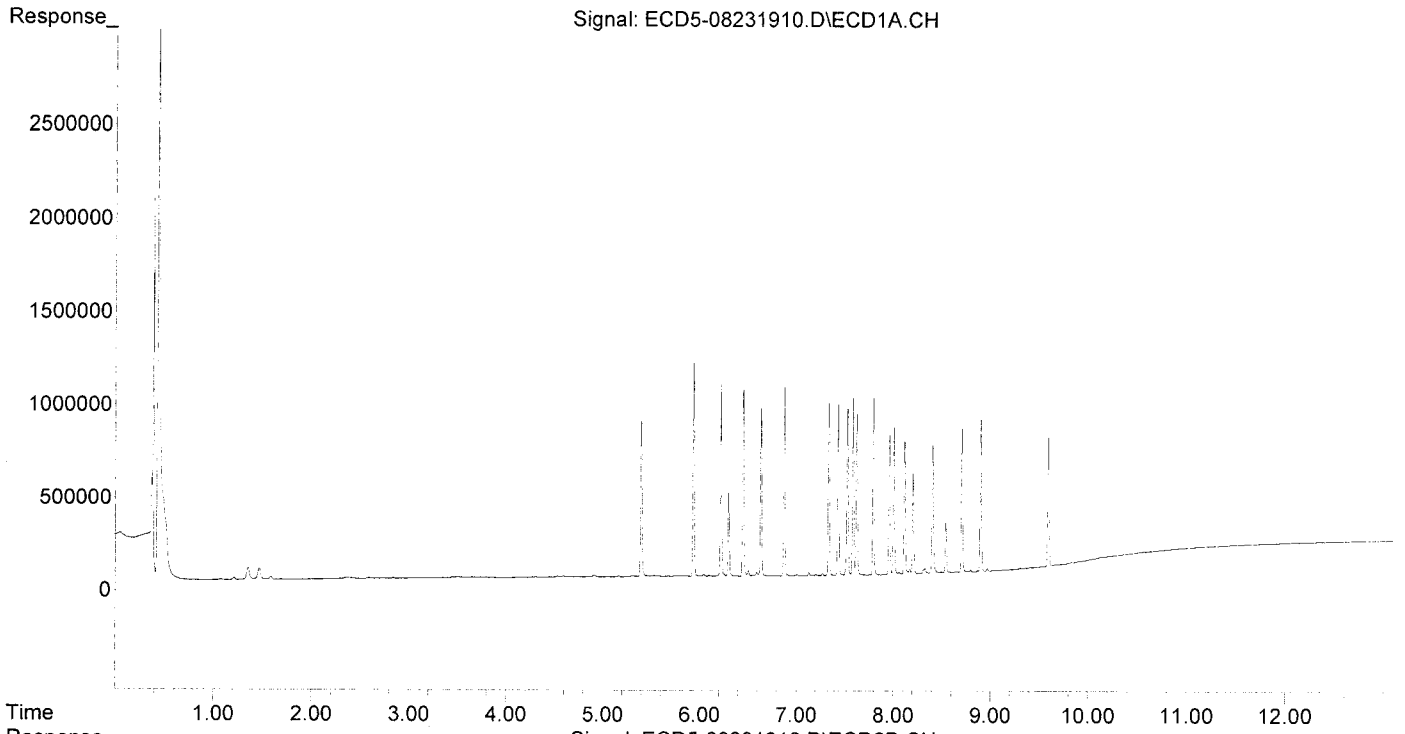
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.396	5.990	834206	1437876	7.707	7.700
22)	S	DCBP (S)	9.594	10.542	701050	870921	6.146	5.485
		Target Compounds						
2)		a-BHC	5.937	6.597	1147932	1985438	7.742	6.328
3)		g-BHC	6.220	6.915	1020724	1742677	6.792	5.790
4)		b-BHC	6.300	6.980	456954	788630	7.708	6.486
5)		Heptachlor	6.635	7.291	899091	1508218	5.537	5.129
6)		d-BHC	6.449	7.233	1004012	1717450	9.061	7.030
7)		Aldrin	6.875	7.556	1012733	1600995	6.019	5.528
8)		Heptachlo...	7.335	7.994	923620	1455941	5.877	5.514
9)		trans-Chl...	7.432	8.134	926577	1502119	5.993	5.707
10)		cis-Chlor...	7.528	8.241	908795	1434855	5.922	5.649
11)		Endosulfa...	7.624	8.290	861509	1327191	5.790	5.583
12)		4,4'-DDE	7.586	8.345	953351	1487999	7.901	6.642
13)		Dieldrin	7.796	8.491	972009	1462538	5.870	5.397
14)		Endrin	7.960	8.718	738953	1092877	5.622	5.608
15)		4,4'-DDD	8.007	8.759	790498	1208642	8.130	6.156
16)		Endosulfa...	8.118	8.865	709544	1096359	6.185	5.586
17)		4,4'-DDT	8.205	8.986	553009	873653	7.371	6.957
18)		Endrin Al...	8.407	9.101	683393	1045869	6.620	6.101
19)		Endosulfa...	8.708	9.291	768798	1175908	6.192	6.083
20)		Methoxychlor	8.542	9.466	270388	413802	7.493	6.808
21)		Endrin Ke...	8.901	9.689	811384	1205004	5.910	6.014
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

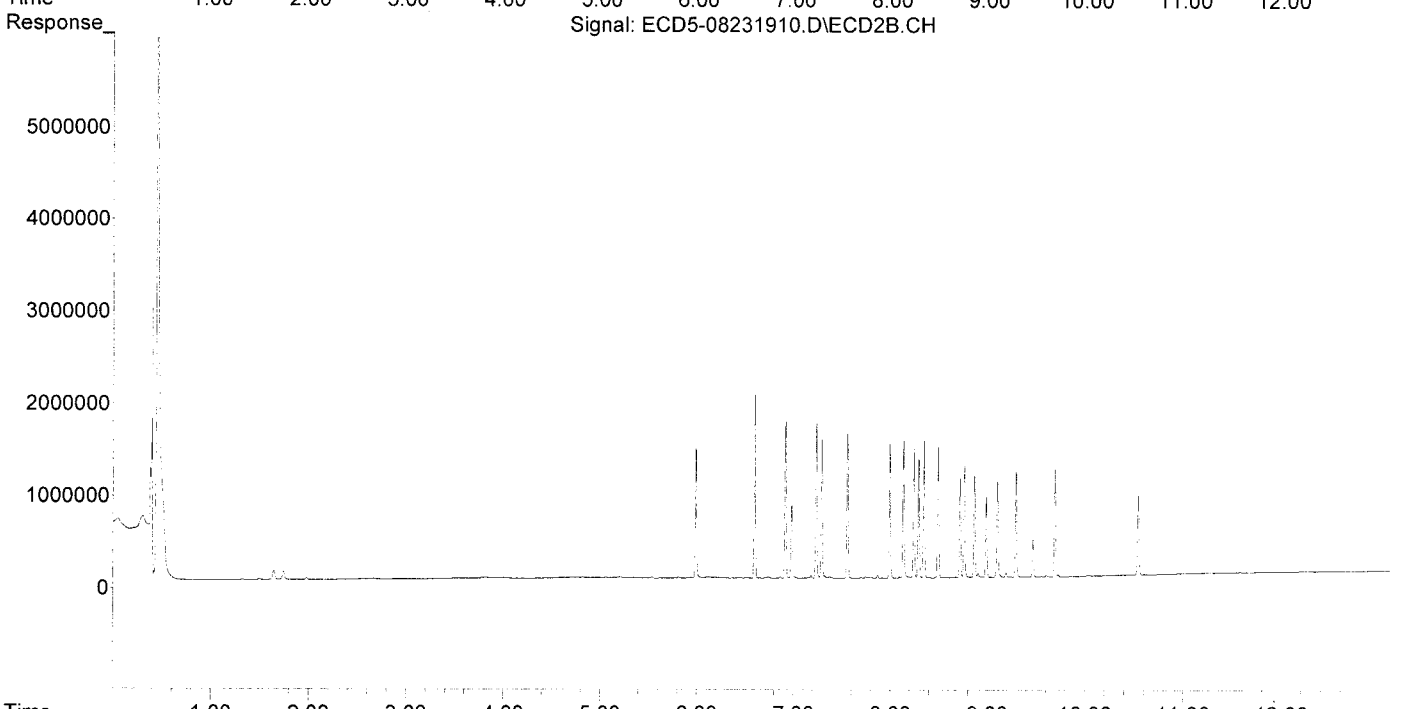
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:25
Operator : MJB
Sample : 9H23034-CAL3
Misc : A19E247, AB 5 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: Aug 26 11:16:57 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231911.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:42
Operator : MJB
Sample : 9H23034-CAL4
Misc : A19E249, AB 10 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: Aug 26 11:19:05 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

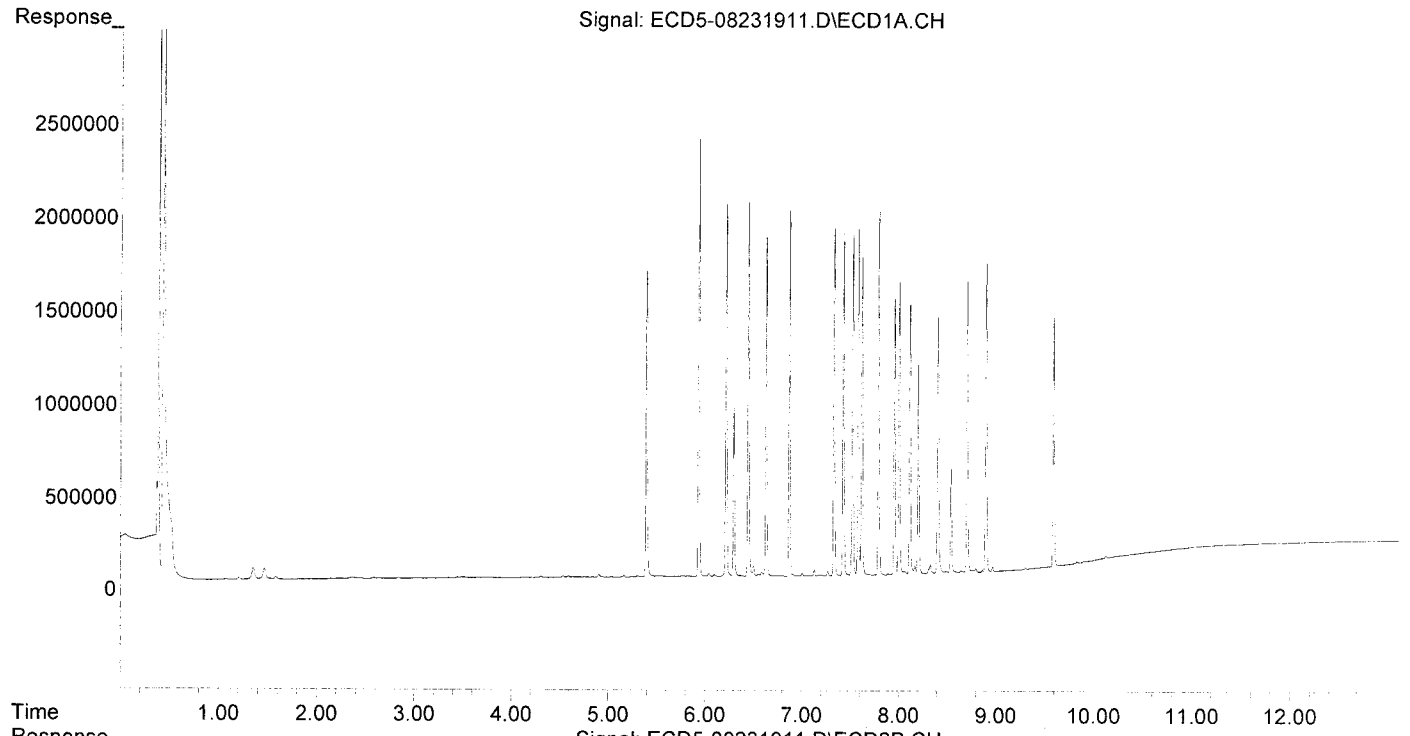
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.396	5.990	1644447	2865854	15.193	15.177
22) S	DCBP (S)	9.593	10.541	1335468	1678728	11.976	10.572
	Target Compounds						
2)	a-BHC	5.936	6.597	2347065	4095890	15.530	12.883
3)	g-BHC	6.220	6.915	2034859	3476733	13.541	11.551
4)	b-BHC	6.299	6.980	910875	1580847	15.365	13.002
5)	Heptachlor	6.634	7.291	1819621	3005915	11.206	10.223
6)	d-BHC	6.449	7.234	2006493	3613517	17.784	14.564
7)	Aldrin	6.875	7.556	2010802	3341093	11.950	11.536
8)	Heptachlo...	7.335	7.994	1865428	2959301	11.869	11.208
9)	trans-Chl...	7.431	8.134	1847996	3002782	11.953	11.409
10)	cis-Chlor...	7.527	8.241	1843346	2859573	12.012	11.257
11)	Endosulfa...	7.623	8.291	1709332	2724272	11.488	11.460
12)	4,4'-DDE	7.585	8.346	1890931	3049792	15.482	13.444
13)	Dieldrin	7.795	8.491	1954890	2898866	11.805	10.697
14)	Endrin	7.960	8.718	1475508	2244483	11.225	11.476
15)	4,4'-DDD	8.006	8.760	1565974	2425496	15.969	12.353
16)	Endosulfa...	8.117	8.864	1448080	2243610	12.623	11.432
17)	4,4'-DDT	8.204	8.987	1146556	1841119	14.788	14.109
18)	Endrin Al...	8.406	9.101	1375129	2125028	13.321	12.396
19)	Endosulfa...	8.707	9.292	1553540	2424584	12.512	12.489
20)	Methoxychlor	8.542	9.465	561706	883069	15.275	14.167
21)	Endrin Ke...	8.900	9.689	1664380	2496985	12.124	12.365
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

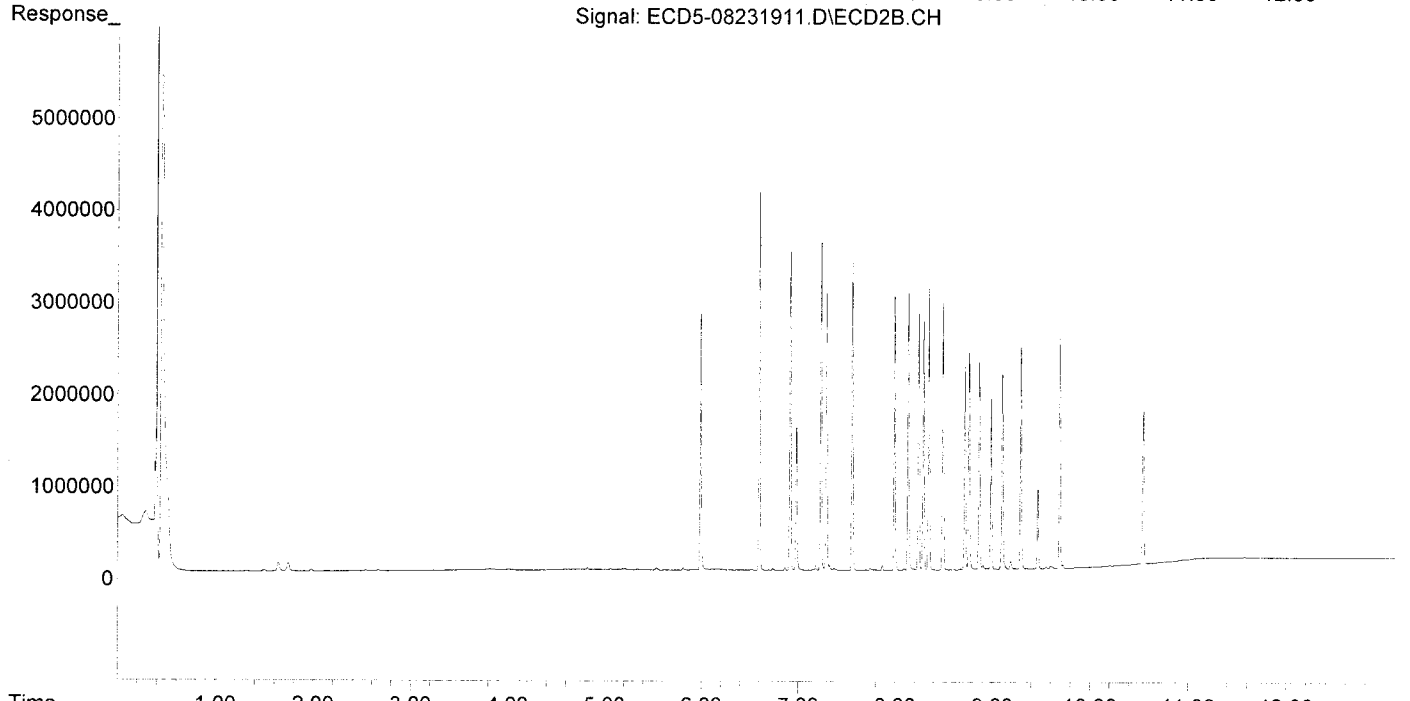
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231911.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 14:42
Operator : MJB
Sample : 9H23034-CAL4
Misc : A19E249, AB 10 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: Aug 26 11:19:05 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:00
Operator : MJB
Sample : 9H23034-CAL5
Misc : A19E250, AB 25 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: Aug 26 11:19:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

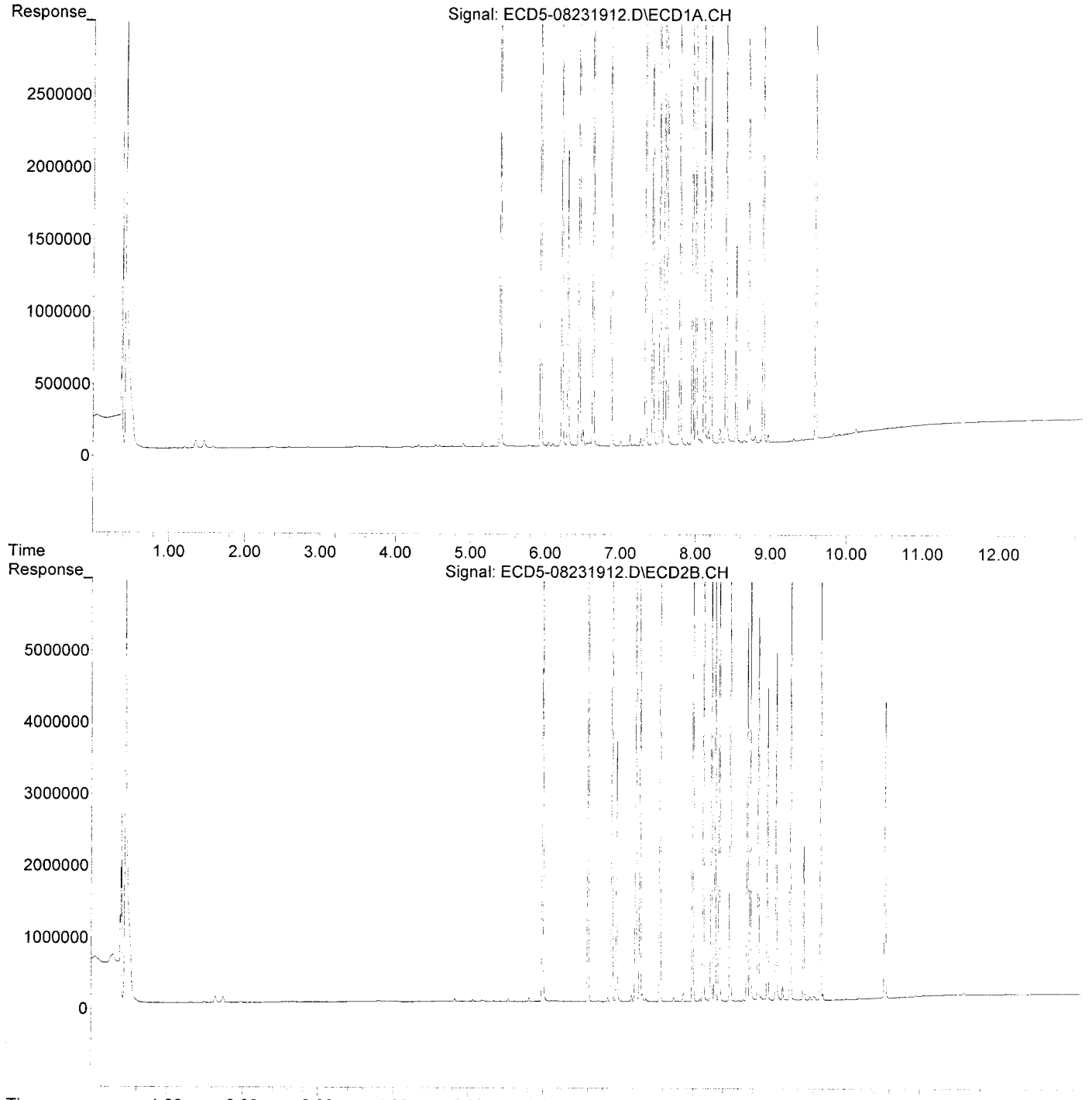
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.394	5.989	4015832	7072923	37.101	36.221
22)	S DCBP (S)	9.592	10.539	3342634	4163229	30.365	26.219
	Target Compounds						
2)	a-BHC	5.935	6.596	5553096	9910863	35.515	30.324
3)	g-BHC	6.218	6.913	4875657	8508386	32.445	28.267
4)	b-BHC	6.297	6.978	2060378	3677155	34.755	30.244
5)	Heptachlor	6.633	7.289	4314306	7282282	26.568	24.766
6)	d-BHC	6.447	7.232	4667166	8247775	39.910	32.244
7)	Aldrin	6.873	7.555	4845355	7878574	28.797	27.203
8)	Heptachlo...	7.332	7.992	4344286	7064729	27.642	26.758
9)	trans-Chl...	7.429	8.131	4401456	7157480	28.469	27.194
10)	cis-Chlor...	7.525	8.239	4244413	6935857	27.657	27.304
11)	Endosulfa...	7.621	8.288	4111285	6571512	27.630	27.643
12)	4,4'-DDE	7.583	8.343	4571066	7501047	36.397	32.167
13)	Dieldrin	7.792	8.489	4582306	7333890	27.672	27.063
14)	Endrin	7.957	8.716	3508904	5325883	26.694	26.642
15)	4,4'-DDD	8.004	8.758	3727035	6146469	37.001	31.304
16)	Endosulfa...	8.115	8.862	3371864	5447602	29.393	27.758
17)	4,4'-DDT	8.202	8.984	2924467	4480388	36.460	32.123
18)	Endrin Al...	8.404	9.099	3119767	4848504	30.221	28.282
19)	Endosulfa...	8.705	9.289	3645411	5978906	29.360	30.102
20)	Methoxychlor	8.540	9.463	1390283	2166659	36.145	32.800
21)	Endrin Ke...	8.899	9.688	4008958	5893691	29.202	28.514
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 : R:\data\2019-08\9H23034\
Data File : ECD5-08231912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:00
Operator : MJB
Sample : 9H23034-CAL5
Misc : A19E250, AB 25 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: Aug 26 11:19:37 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:17
Operator : MJB
Sample : 9H23034-CAL6
Misc : A19H383, AB 50 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: Aug 26 10:58:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Aug 07 17:49:44 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

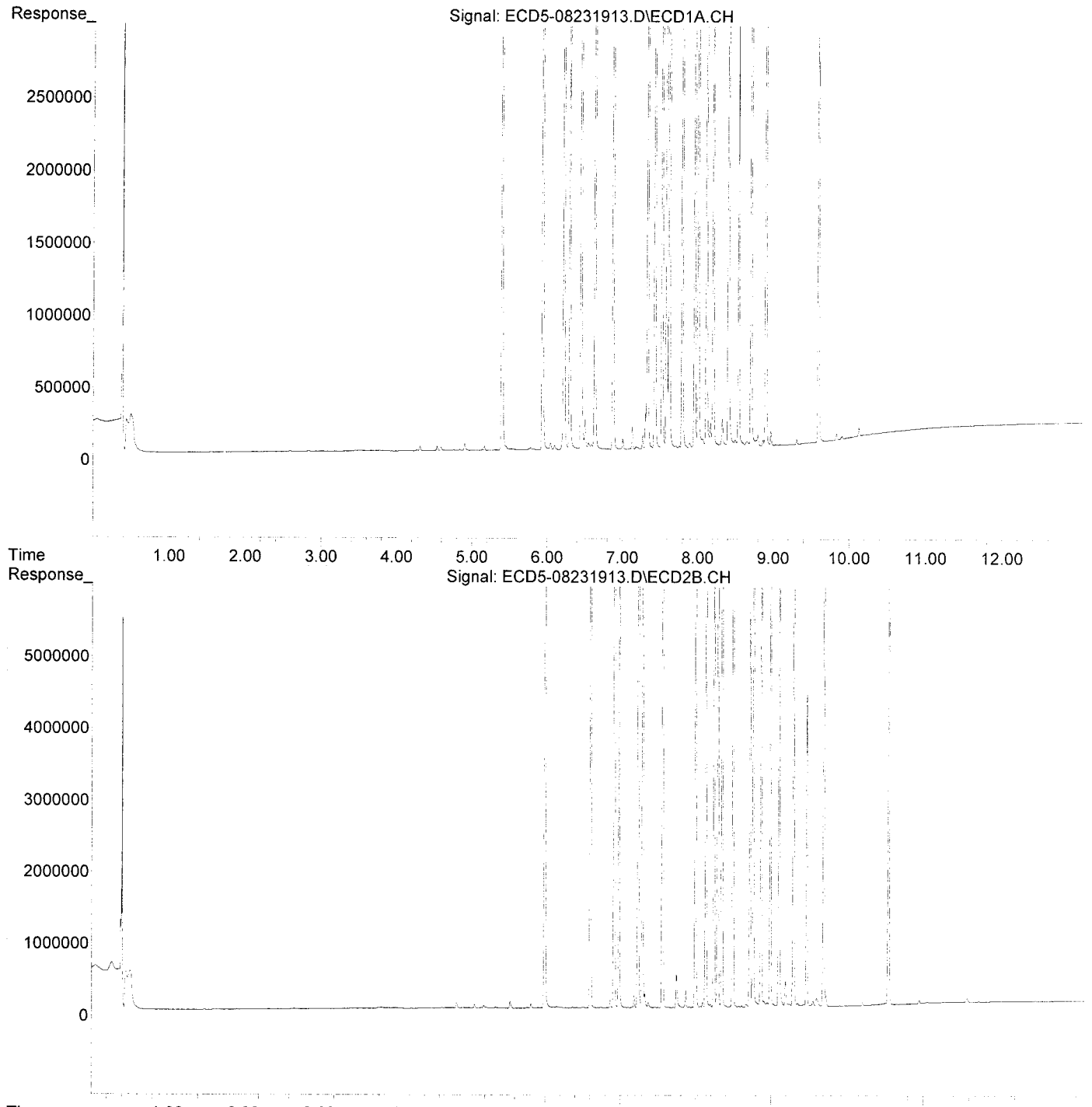
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.394	5.989	8071481	14196745	74.571	69.077
22) S	DCBP (S)	9.592	10.541	6678990	8730692	60.740	54.984
	Target Compounds						
2)	a-BHC	5.935	6.596	11369592	20265817	69.154	59.445
3)	g-BHC	6.218	6.914	9785999	17381069	65.120	57.745
4)	b-BHC	6.296	6.978	4100858	7516011	69.174	61.818
5)	Heptachlor	6.632	7.290	8735158	14595143	53.793	49.636
6)	d-BHC	6.447	7.232	9610742	17311258	77.761	64.308
7)	Aldrin	6.873	7.555	9327672	16264416	55.436	56.158
8)	Heptachlo...	7.332	7.992	8869300	14837794	56.434	56.198
9)	trans-Chl...	7.428	8.131	8959305	14678719	57.950	55.771
10)	cis-Chlor...	7.524	8.238	8622674	14002116	56.187	55.122
11)	Endosulfa...	7.621	8.289	7984410	13712329	53.659	57.680
12)	4,4'-DDE	7.583	8.344	9177389	15554706	70.089	63.904
13)	Dieldrin	7.792	8.489	9386664	15434113	56.685	56.955
14)	Endrin	7.957	8.716	6979572	11015379	53.097	52.880
15)	4,4'-DDD	8.004	8.758	7726197	13159451	73.239	67.021
16)	Endosulfa...	8.114	8.863	6840920	11534525	59.632	58.774
17)	4,4'-DDT	8.202	8.985	6205369	9285492	69.085	60.834
18)	Endrin Al...	8.404	9.099	6224451	10209034	60.296	59.551
19)	Endosulfa...	8.705	9.289	7420576	12149289	59.766	58.797
20)	Methoxychlor	8.540	9.464	2860683	4346199	69.570	60.726
21)	Endrin Ke...	8.899	9.687	8190707	12954568	59.663	59.905
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 : R:\data\2019-08\9H23034\
Data File : ECD5-08231913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:17
Operator : MJB
Sample : 9H23034-CAL6
Misc : A19H383, AB 50 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: Aug 26 10:58:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Aug 07 17:49:44 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:34
Operator : MJB
Sample : 9H23034-CAL7
Misc : A19H382, AB 100 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: Aug 26 11:20:14 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

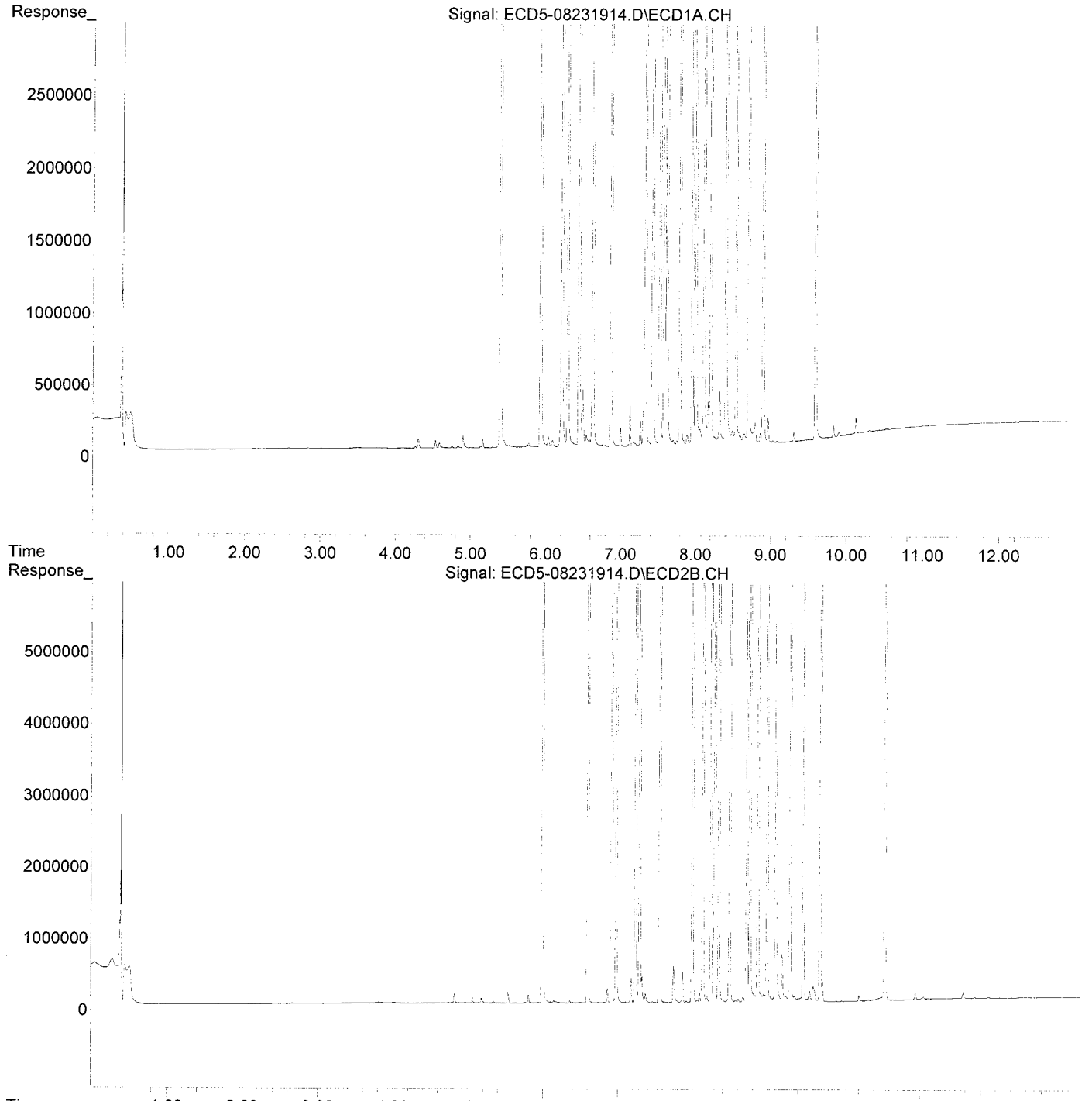
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.395	5.989	15850922	29256334	146.444	130.224
22)	S	DCBP (S)	9.592	10.540	13405396	17784069	121.277	111.999
		Target Compounds						
2)		a-BHC	5.935	6.596	22363584	41699210	125.842	113.668
3)		g-BHC	6.218	6.914	19595093	36788994	130.394	122.224
4)		b-BHC	6.296	6.977	8355416	14625175	140.940	120.290
5)		Heptachlor	6.632	7.289	17551528	30277818	108.086	102.970
6)		d-BHC	6.446	7.232	19475580	35176633	144.149	120.302
7)		Aldrin	6.872	7.555	19108074	33906422	113.562	117.072
8)		Heptachlo...	7.331	7.991	17318444	30045511	110.195	113.798
9)		trans-Chl...	7.427	8.131	17732791	30742272	114.698	116.803
10)		cis-Chlor...	7.523	8.238	16742584	29042863	109.098	114.333
11)		Endosulfa...	7.619	8.288	16089996	27212707	108.133	114.469
12)		4,4'-DDE	7.582	8.344	18052552	32499603	128.779	123.812
13)		Dieldrin	7.791	8.488	18324422	31001958	110.659	114.403
14)		Endrin	7.957	8.715	13812708	23102413	103.080	102.828
15)		4,4'-DDD	8.003	8.758	15437146	26297484	135.694	133.933
16)		Endosulfa...	8.113	8.861	13543500	23016371	118.059	117.279
17)		4,4'-DDT	8.201	8.984	12176961	19789501	120.685	112.516
18)		Endrin Al...	8.403	9.098	12363806	20502737	119.767	119.596
19)		Endosulfa...	8.704	9.289	14366789	24477320	115.711	110.592
20)		Methoxychlor	8.539	9.463	5877329	9444987	128.396	114.860
21)		Endrin Ke...	8.898	9.687	16251943	26636559	118.383	114.357
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 : R:\data\2019-08\9H23034\
Data File : ECD5-08231914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:34
Operator : MJB
Sample : 9H23034-CAL7
Misc : A19H382, AB 100 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: Aug 26 11:20:14 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:52
Operator : MJB
Sample : 9H23034-CAL8
Misc : A19E244, AB 200 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: Aug 26 11:20:45 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

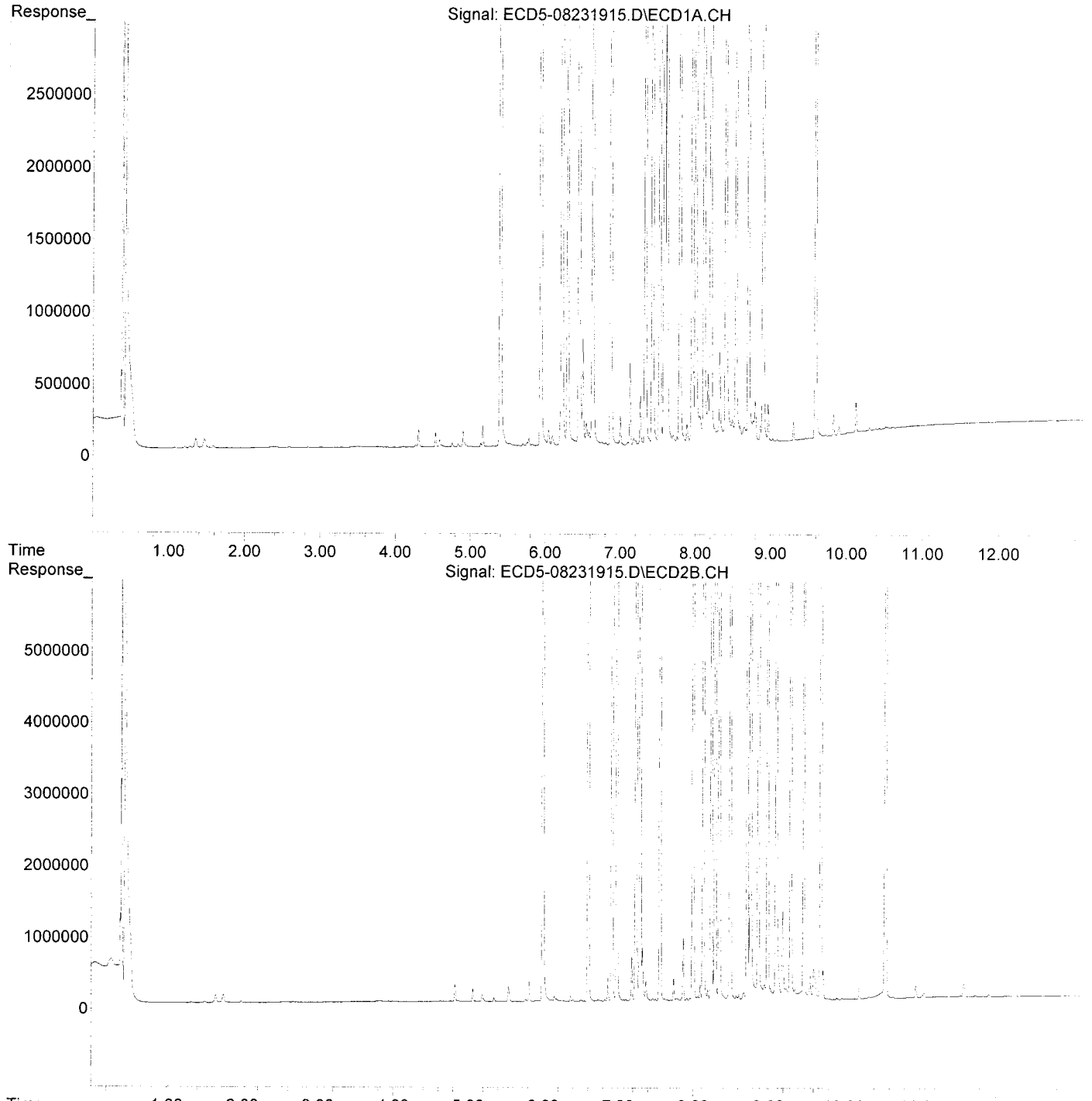
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.394	5.990	32842535	62584449	303.426	241.228
22)	S	DCBP (S)	9.591	10.539	26975231	38097779	240.687	239.929
		Target Compounds						
2)		a-BHC	5.935	6.597	47202252	94376748	232.879	224.790
3)		g-BHC	6.218	6.914	41889726	80765680	278.753	268.327
4)		b-BHC	6.294	6.977	18238696	32553433	307.652	267.747
5)		Heptachlor	6.630	7.289	37785699	71283176	232.692	242.422
6)		d-BHC	6.445	7.232	41016592	80979751	263.399	237.546
7)		Aldrin	6.870	7.554	39838403	73228186	236.765	252.843
8)		Heptachlo...	7.330	7.991	36258170	65330070	230.706	247.439
9)		trans-Chl...	7.425	8.130	37621413	66447972	243.340	252.464
10)		cis-Chlor...	7.521	8.238	35207945	63977063	229.421	251.859
11)		Endosulfa...	7.618	8.288	33852593	61043507	227.507	256.777
12)		4,4'-DDE	7.581	8.344	38763081	69842351	244.719	234.608
13)		Dieldrin	7.791	8.489	39217772	70031781	236.831	258.430
14)		Endrin	7.955	8.715	31426311	52779585	239.075	204.455
15)		4,4'-DDD	8.002	8.758	32436804	59560270	251.258	303.340
16)		Endosulfa...	8.112	8.862	29471042	51834888	256.899	264.124
17)		4,4'-DDT	8.200	8.984	29075222	48203441	232.877	216.675
18)		Endrin Al...	8.402	9.098	26627672	45084544	257.940	262.986
19)		Endosulfa...	8.704	9.289	31126520	54592794	250.696	216.937
20)		Methoxychlor	8.537	9.463	14271143	23714100	255.612	227.264
21)		Endrin Ke...	8.898	9.688	35094718	60861376	255.639	227.431
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 : R:\data\2019-08\9H23034\
Data File : ECD5-08231915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 15:52
Operator : MJB
Sample : 9H23034-CAL8
Misc : A19E244, AB 200 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: Aug 26 11:20:45 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:44
Operator : MJB
Sample : 9H23034-CAL9
Misc : A19E272, 9-42 1 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: Aug 26 11:23:34 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

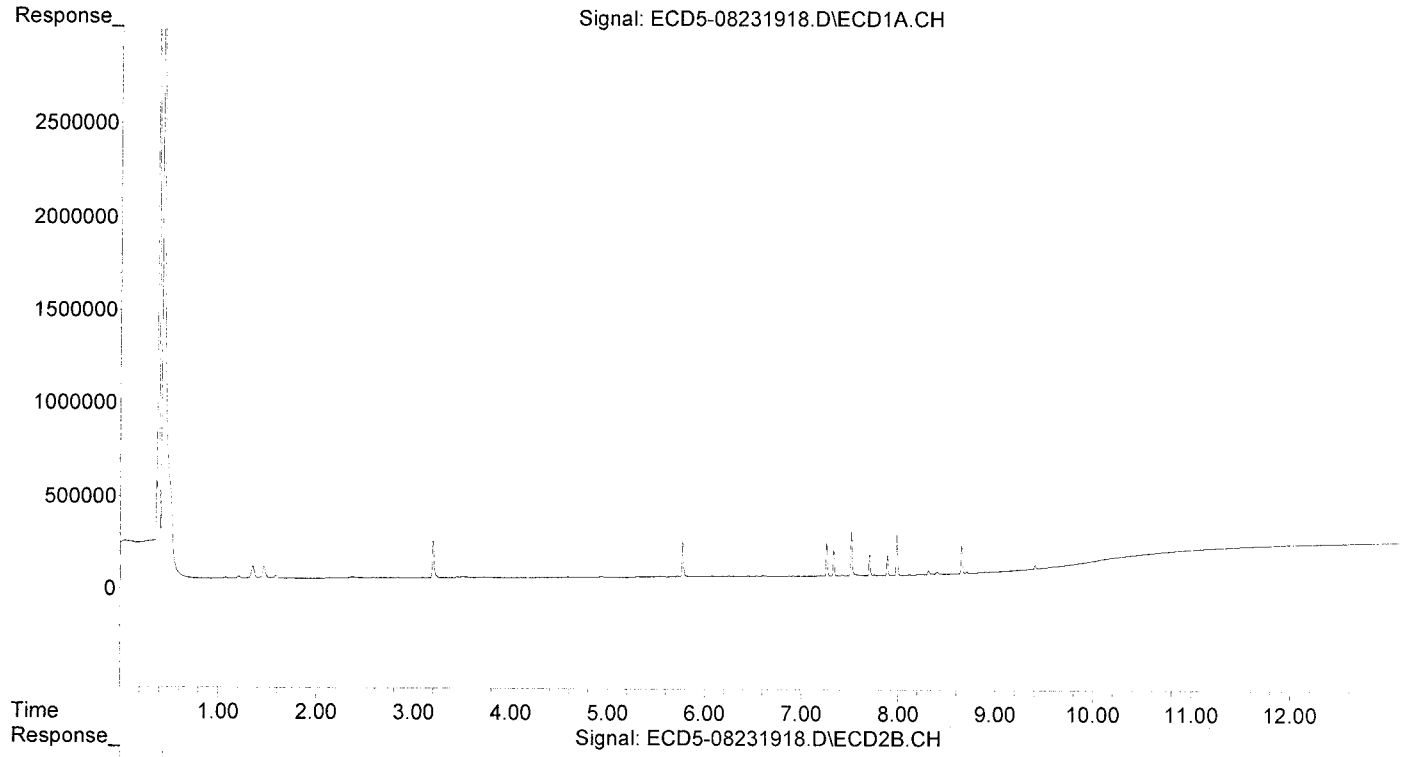
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.198	3.687	198207	383198	1.330	1.219
24)		Hexachlor...	5.775	6.453	194679	328025	1.585	1.463
25)		Oxychlordane	7.263	7.922	176844	279143	1.364	1.326
26)		2,4'-DDE	7.335	8.123	137947	219164	1.468	1.405
27)		trans-Non...	7.518	8.195	236836	306202	1.652	1.333
28)		2,4'-DDD	7.707	8.495	120240	192040	1.439	1.409
29)		2,4'-DDT	7.890	8.719	107110	173338	1.500	1.372
30)		cis-Nonac...	7.987	8.759	219220	332745	1.362	1.310
31)		Mirex	8.655	9.680	147356	209783	1.505	1.458
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

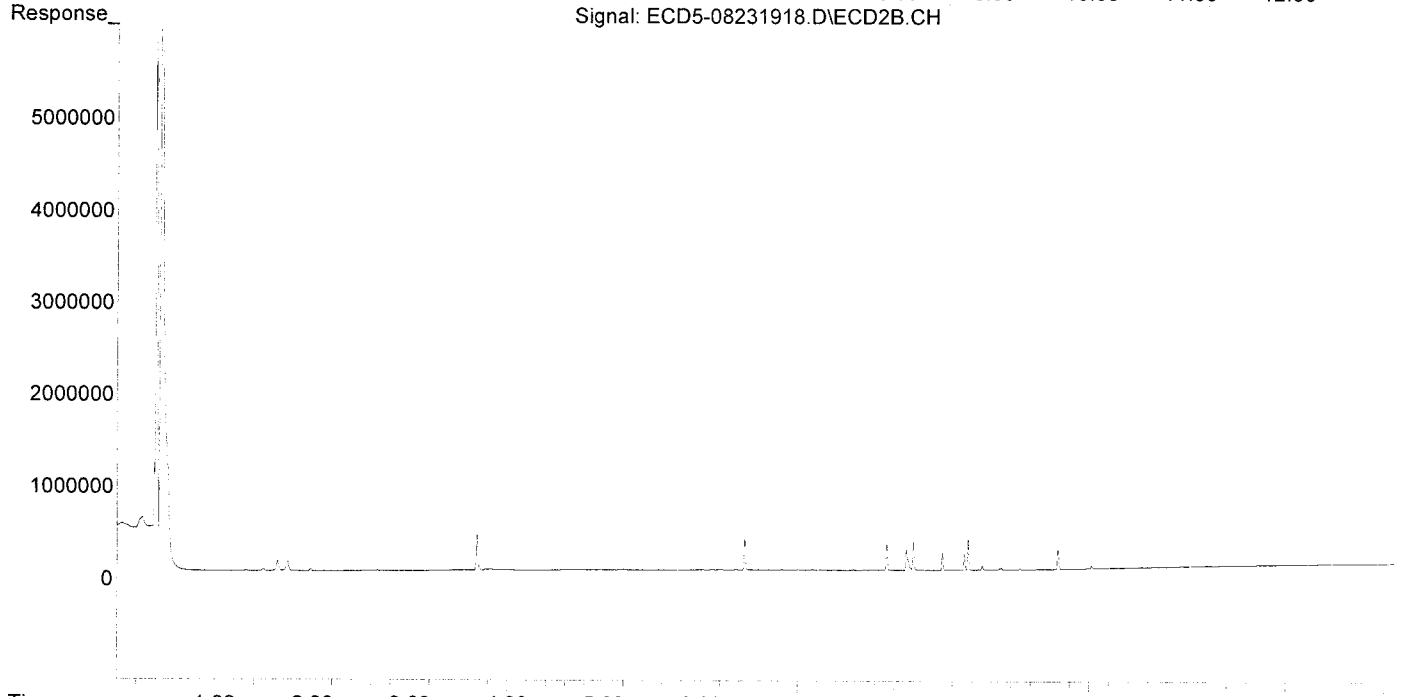
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 16:44
Operator : MJB
Sample : 9H23034-CAL9
Misc : A19E272, 9-42 1 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: Aug 26 11:23:34 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:01
Operator : MJB
Sample : 9H23034-CALA
Misc : A19E273, 9-42 2 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: Aug 26 11:24:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

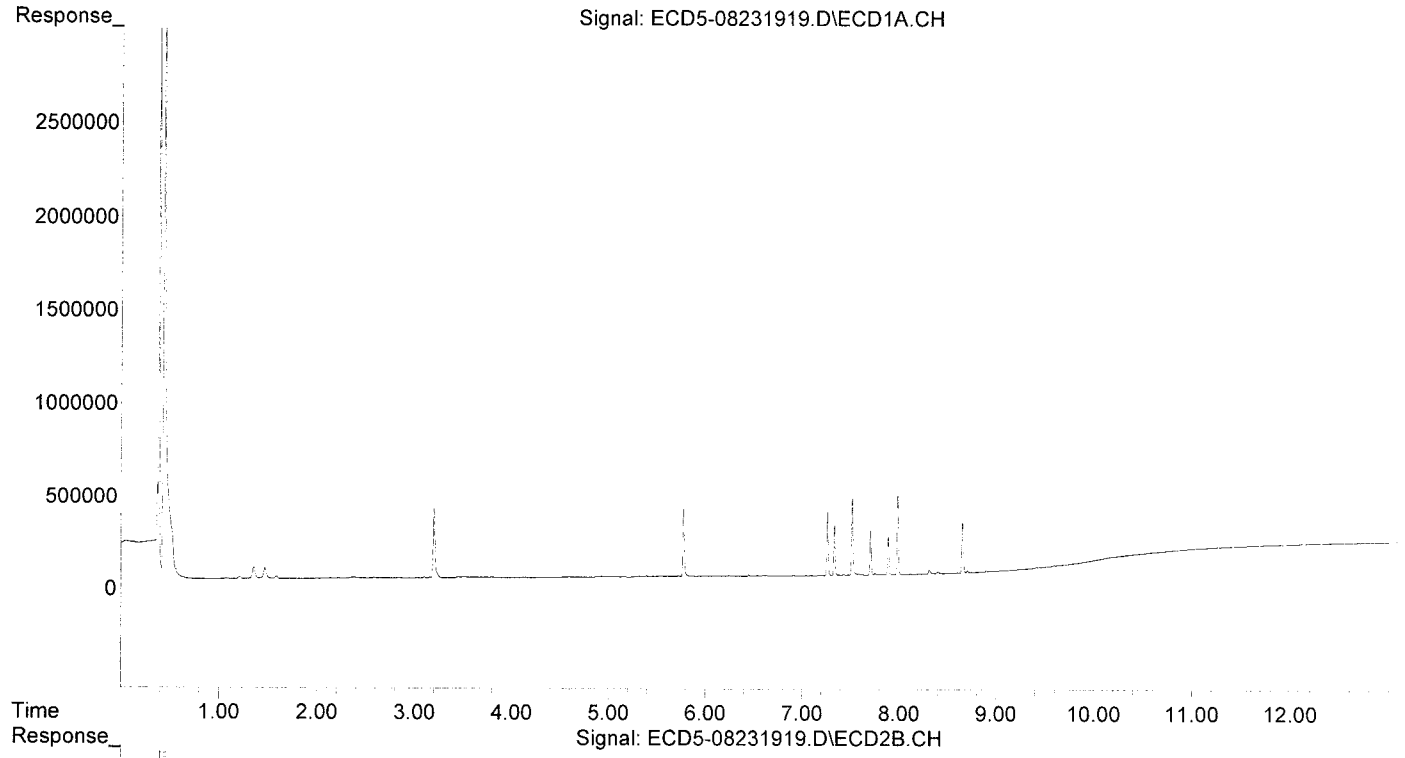
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.198	3.687	375794	754548	2.521	2.400
24)	Hexachlor...	5.775	6.453	362082	632830	2.948	2.823
25)	Oxychlordane	7.262	7.921	339370	541023	2.617	2.571
26)	2,4'-DDE	7.334	8.123	265212	411812	2.822	2.639
27)	trans-Non...	7.518	8.194	415126	587765	2.896	2.559
28)	2,4'-DDD	7.707	8.495	233089	373596	2.789	2.741
29)	2,4'-DDT	7.889	8.718	204209	332170	2.725	2.614
30)	cis-Nonac...	7.986	8.758	423442	624783	2.632	2.460
31)	Mirex	8.655	9.680	266770	388199	2.725	2.697
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

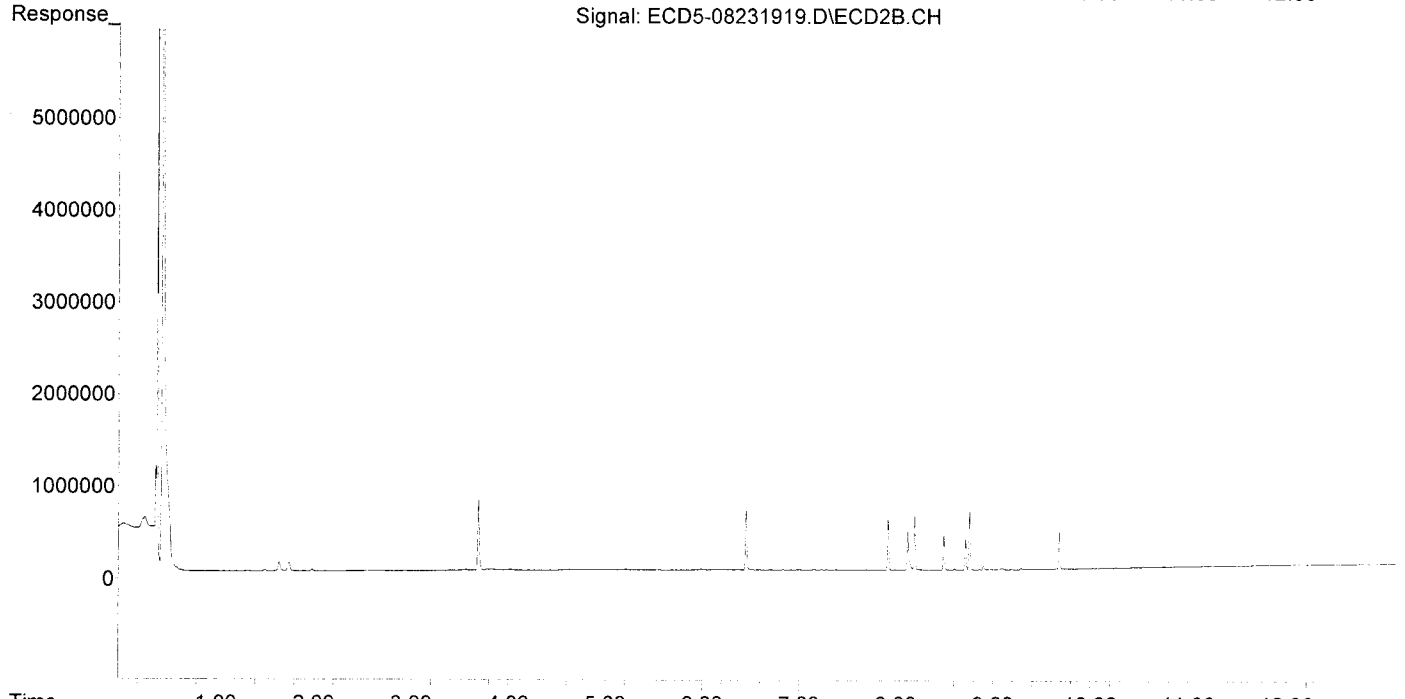
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:01
Operator : MJB
Sample : 9H23034-CALA
Misc : A19E273, 9-42 2 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: Aug 26 11:24:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:18
Operator : MJB
Sample : 9H23034-CALB
Misc : A19E274, 9-42 5 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: Aug 26 11:24:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

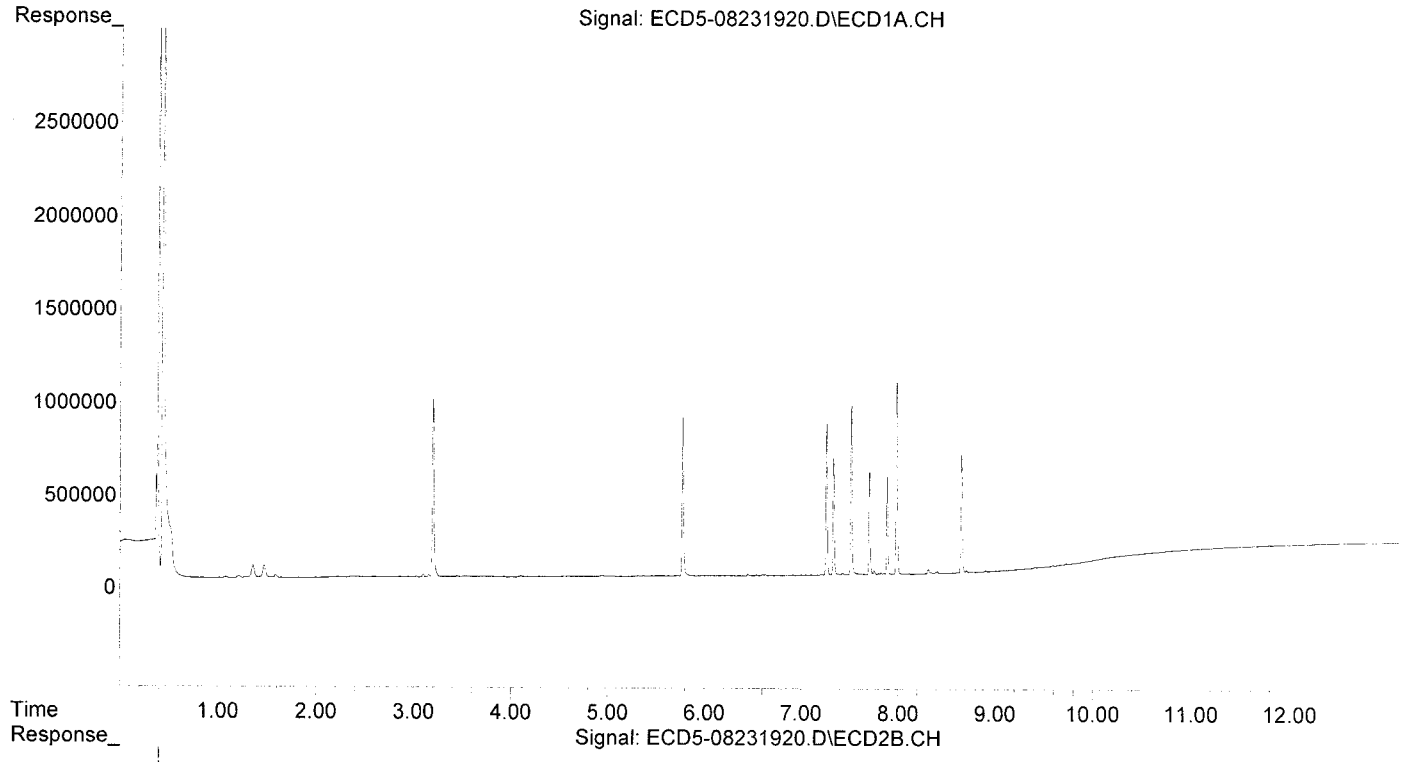
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.198	3.687	959211	1877484	6.435	5.971
24)		Hexachlor...	5.775	6.453	853793	1485583	6.951	6.626
25)		Oxychlordane	7.262	7.921	819748	1325543	6.321	6.298
26)		2,4'-DDE	7.334	8.123	633168	1029687	6.738	6.600
27)		trans-Non...	7.518	8.194	933222	1467723	6.510	6.390
28)		2,4'-DDD	7.705	8.495	560942	898697	6.711	6.593
29)		2,4'-DDT	7.889	8.719	536967	873074	6.892	6.802
30)		cis-Nonac...	7.986	8.759	1025899	1587243	6.376	6.249
31)		Mirex	8.654	9.679	628618	895523	6.422	6.222
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

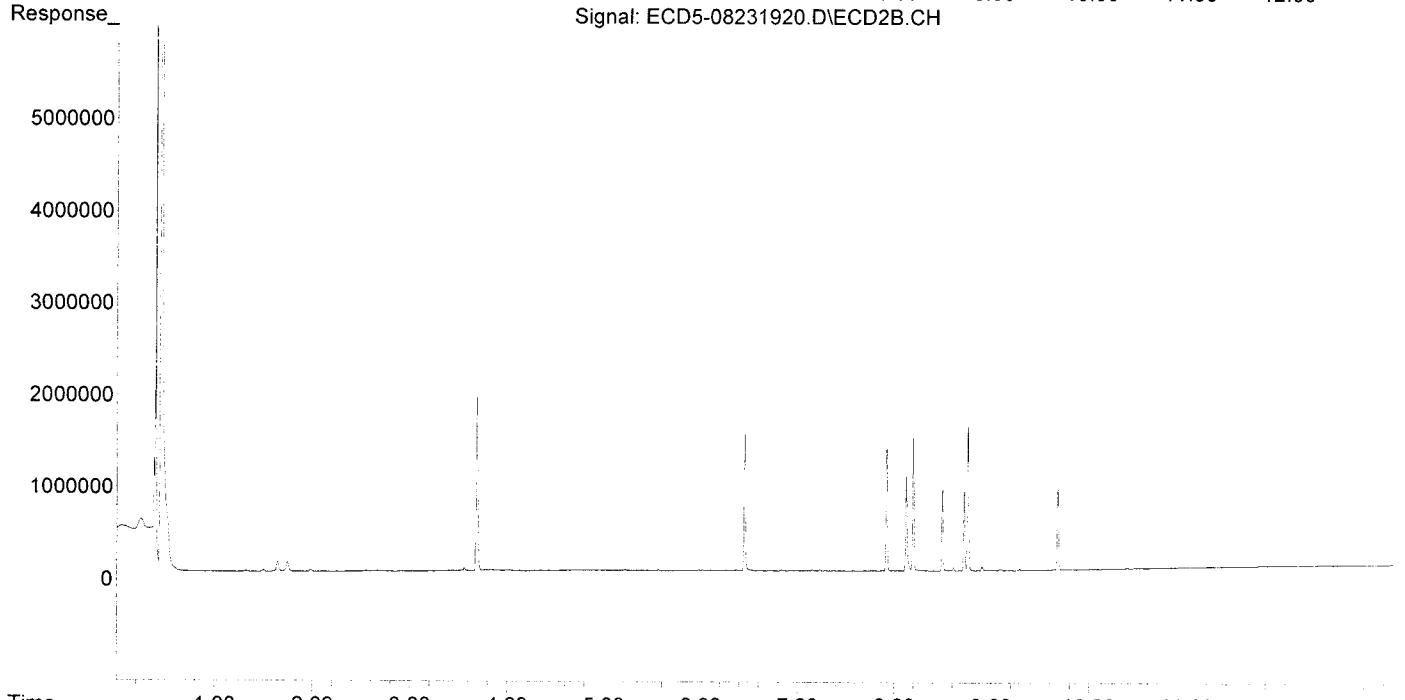
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:18
Operator : MJB
Sample : 9H23034-CALB
Misc : A19E274, 9-42 5 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: Aug 26 11:24:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:35
Operator : MJB
Sample : 9H23034-CALC
Misc : A19E275, 9-42 10 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: Aug 26 11:25:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

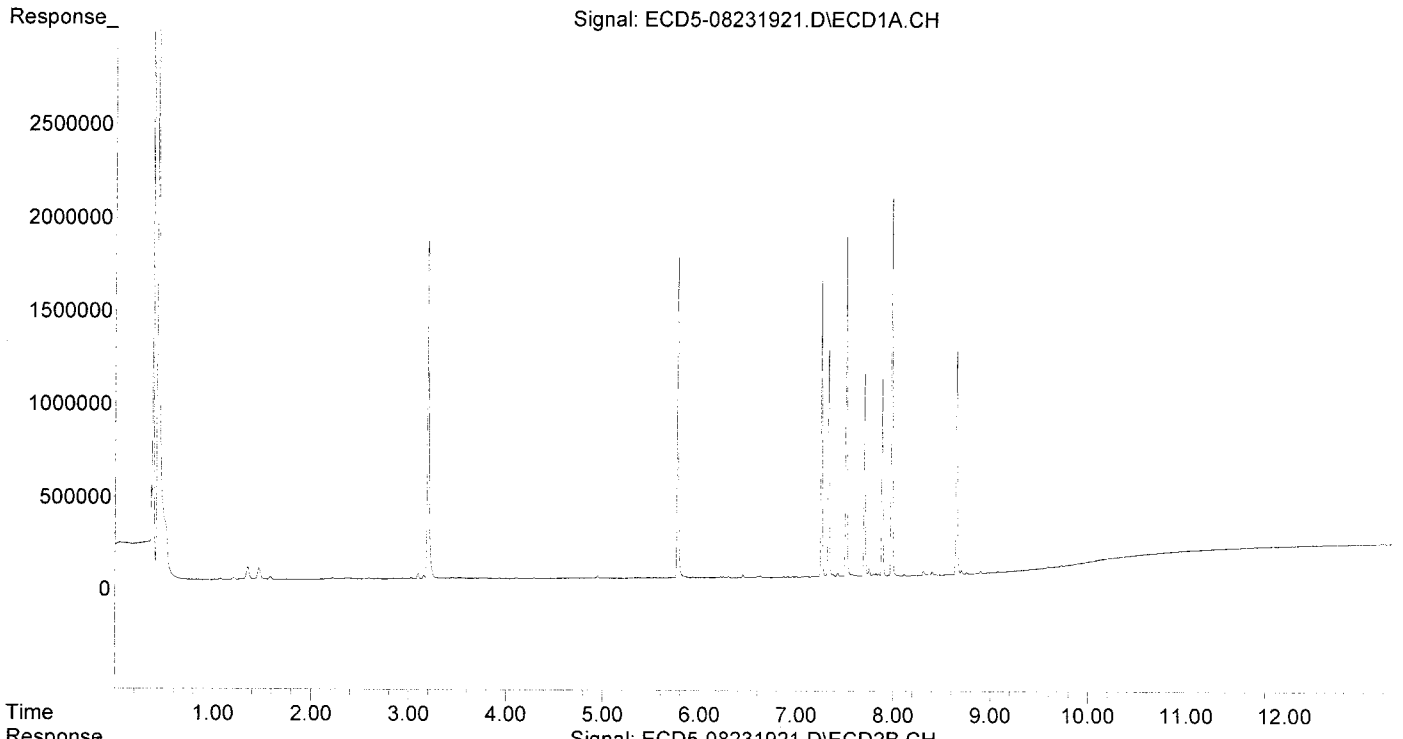
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.198	3.687	1838187	3701532	12.333	11.773
24)	Hexachlor...	5.774	6.453	1711884	2936294	13.936	13.097
25)	Oxychlordane	7.261	7.921	1591613	2538903	12.272	12.063
26)	2,4'-DDE	7.333	8.122	1245265	2018331	13.252	12.936
27)	trans-Non...	7.516	8.194	1817552	2844404	12.679	12.384
28)	2,4'-DDD	7.705	8.495	1103587	1778790	13.203	13.050
29)	2,4'-DDT	7.888	8.719	1051565	1702568	13.249	13.099
30)	cis-Nonac...	7.986	8.759	2032010	3148054	12.629	12.394
31)	Mirex	8.654	9.679	1196365	1722960	12.222	11.971
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

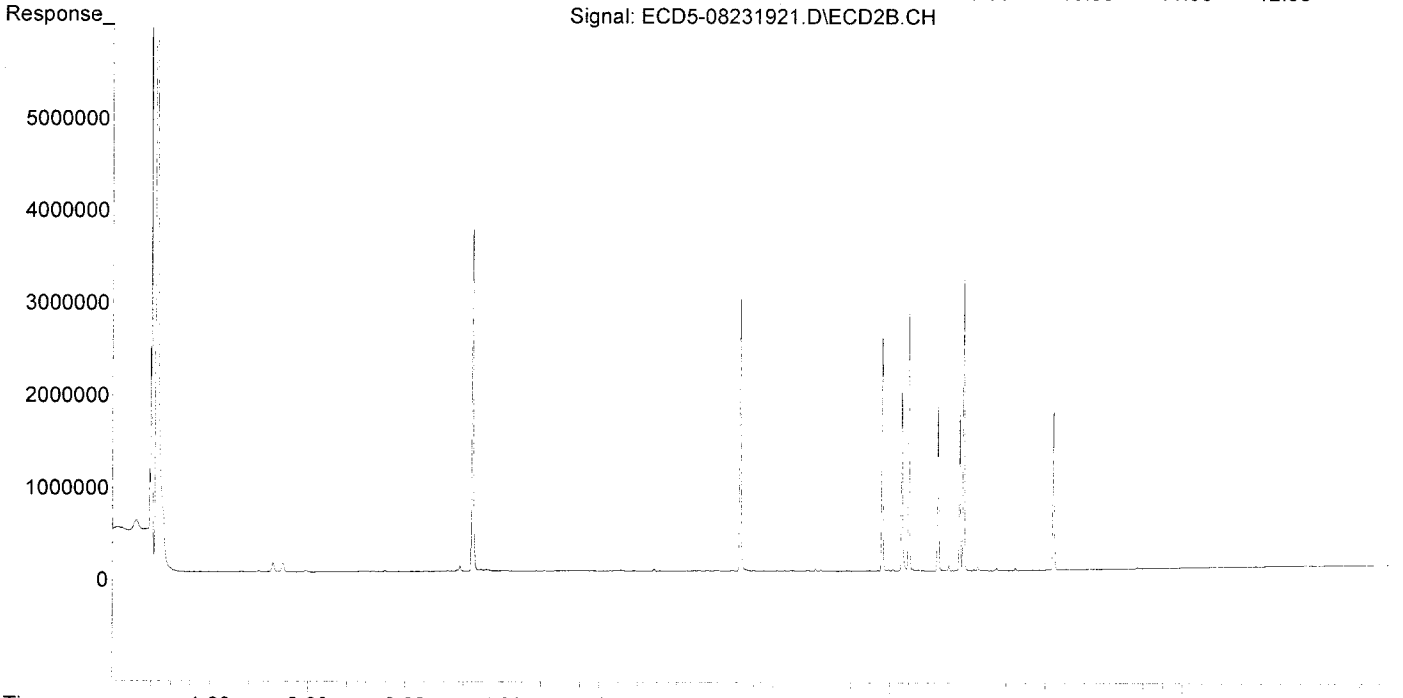
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:35
Operator : MJB
Sample : 9H23034-CALC
Misc : A19E275, 9-42 10 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: Aug 26 11:25:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:53
Operator : MJB
Sample : 9H23034-CALD
Misc : A19E276, 9-42 25 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: Aug 26 11:25:49 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

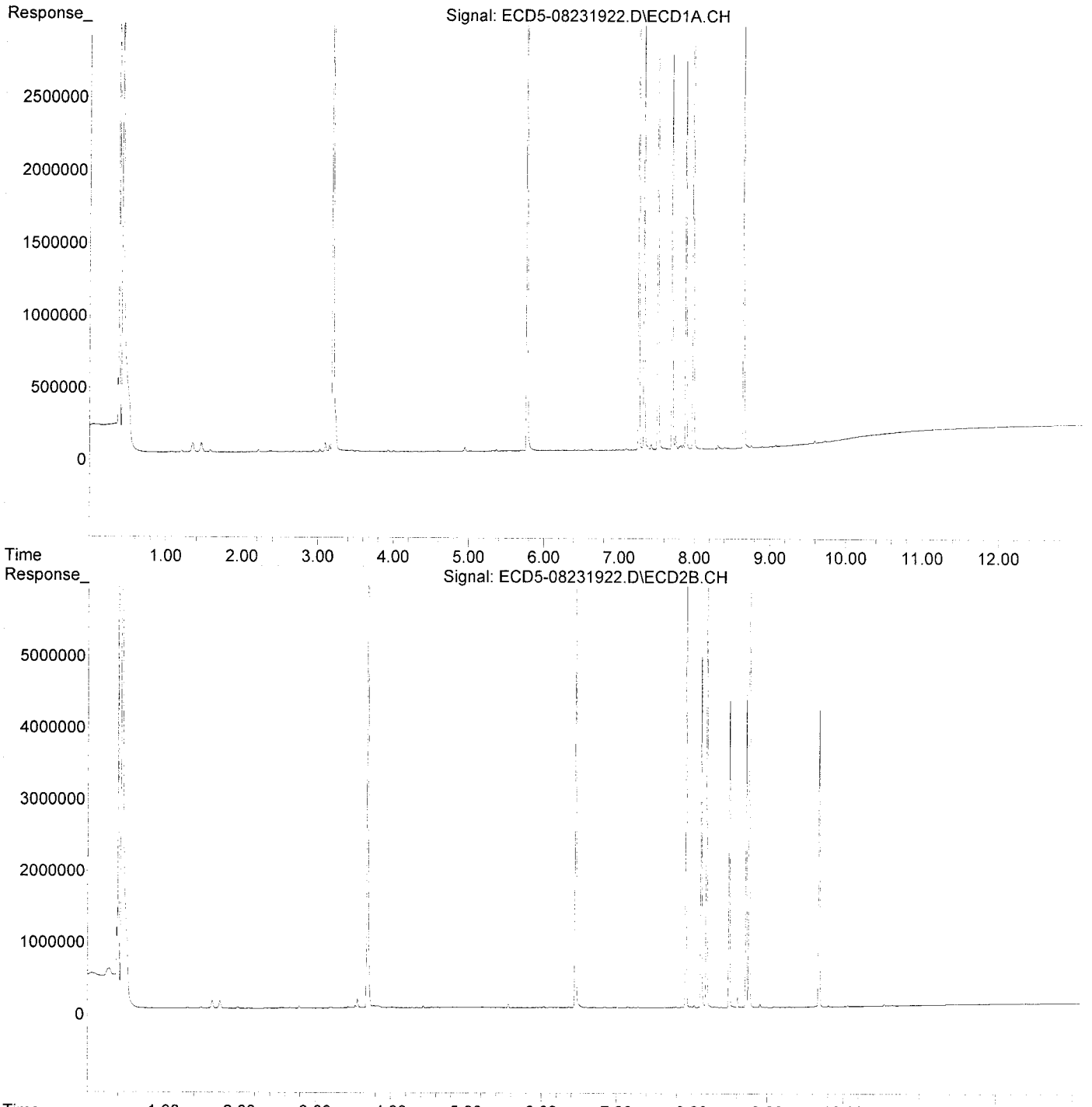
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.198	3.687	4363988	8892238	29.278	28.282
24)	Hexachlor...	5.774	6.453	4184551	7416324	34.066	33.080
25)	Oxychlordane	7.261	7.920	3881255	6202791	29.926	29.471
26)	2,4'-DDE	7.333	8.122	3059421	4999232	32.558	32.042
27)	trans-Non...	7.516	8.194	4391046	7092288	30.631	30.877
28)	2,4'-DDD	7.705	8.495	2745178	4389185	32.844	32.200
29)	2,4'-DDT	7.888	8.719	2728794	4405554	33.278	32.676
30)	cis-Nonac...	7.986	8.759	4993110	8219393	31.032	32.361
31)	Mirex	8.654	9.679	2910818	4138115	29.738	28.753
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 : R:\data\2019-08\9H23034\
Data File : ECD5-08231922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 17:53
Operator : MJB
Sample : 9H23034-CALD
Misc : A19E276, 9-42 25 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: Aug 26 11:25:49 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:10
Operator : MJB
Sample : 9H23034-CALE
Misc : A19E154, 9-42 50 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: Aug 26 11:22:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

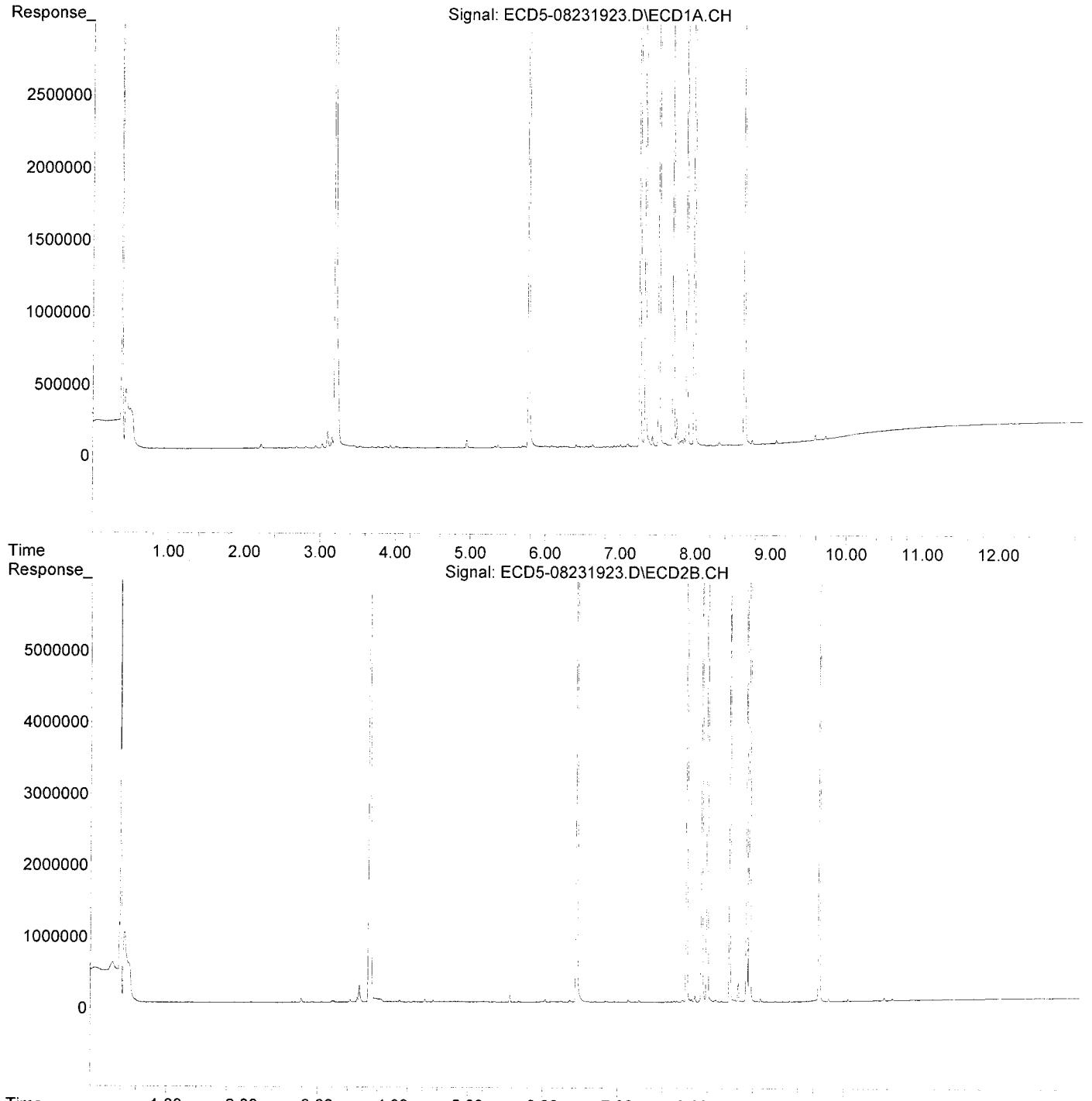
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.198	3.688	8761747	18635615	58.783	59.271
24)	Hexachlor...	5.774	6.454	8911624	16094159	72.549	71.786
25)	Oxychlordane	7.261	7.920	8382873	14172543	64.636	67.337
26)	2,4'-DDE	7.333	8.122	6510588	11006400	69.284	70.544
27)	trans-Non...	7.516	8.194	9581794	15807712	66.841	68.821
28)	2,4'-DDD	7.705	8.495	5920095	9924934	70.829	72.811
29)	2,4'-DDT	7.888	8.718	5687323	8810591	66.398	62.033
30)	cis-Nonac...	7.985	8.758	10616019	17721229	65.978	69.771
31)	Mirex	8.652	9.679	6218341	9100959	62.528	63.235
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 : R:\data\2019-08\9H23034\
Data File : ECD5-08231923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:10
Operator : MJB
Sample : 9H23034-CALE
Misc : A19E154, 9-42 50 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: Aug 26 11:22:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 10:58:24 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:27
Operator : MJB
Sample : 9H23034-CALF
Misc : A19E155, 9-42 100 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: Aug 26 11:26:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/27/19

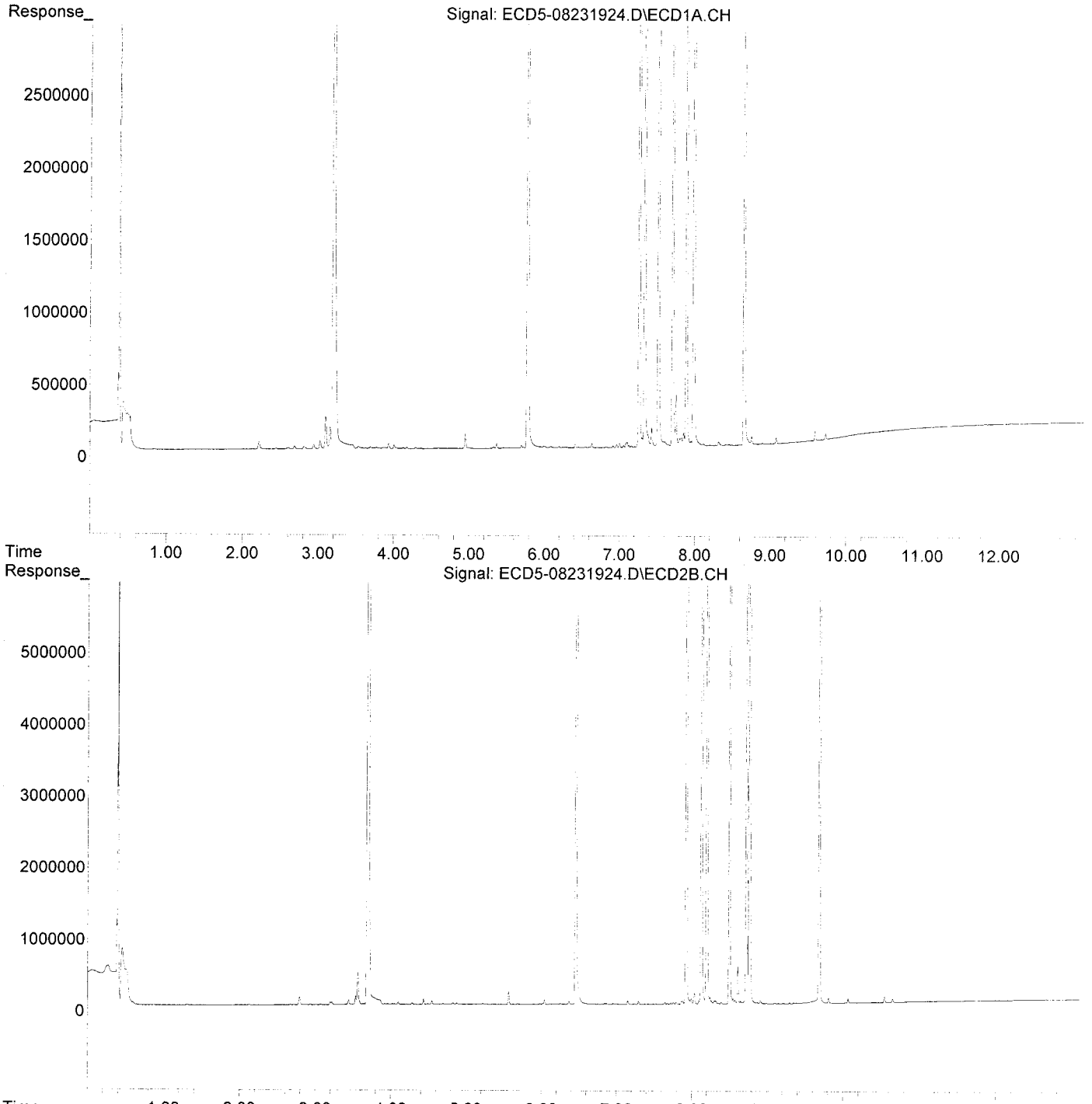
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.199	3.690	17952134	39298885	120.443	124.991
24)		Hexachlor...	5.776	6.455	17670025	32766708	143.851	146.152
25)		Oxychlordane	7.261	7.922	16359215	29732149	126.137	141.263
26)		2,4'-DDE	7.334	8.123	12769067	22164400	135.886	142.059
27)		trans-Non...	7.516	8.195	18351251	31975271	128.015	139.210
28)		2,4'-DDD	7.705	8.496	11587554	20118925	138.635	147.597
29)		2,4'-DDT	7.888	8.721	11771354	18998968	127.689	121.350
30)		cis-Nonac...	7.986	8.760	20932641	36072644	130.096	142.024
31)		Mirex	8.653	9.680	11960753	19363200	122.194	134.540
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 : R:\data\2019-08\9H23034\
Data File : ECD5-08231924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:27
Operator : MJB
Sample : 9H23034-CALF
Misc : A19E155, 9-42 100 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: Aug 26 11:26:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:45
Operator : MJB
Sample : 9H23034-CALG
Misc : A19E271, 9-42 200 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: Aug 26 11:27:05 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

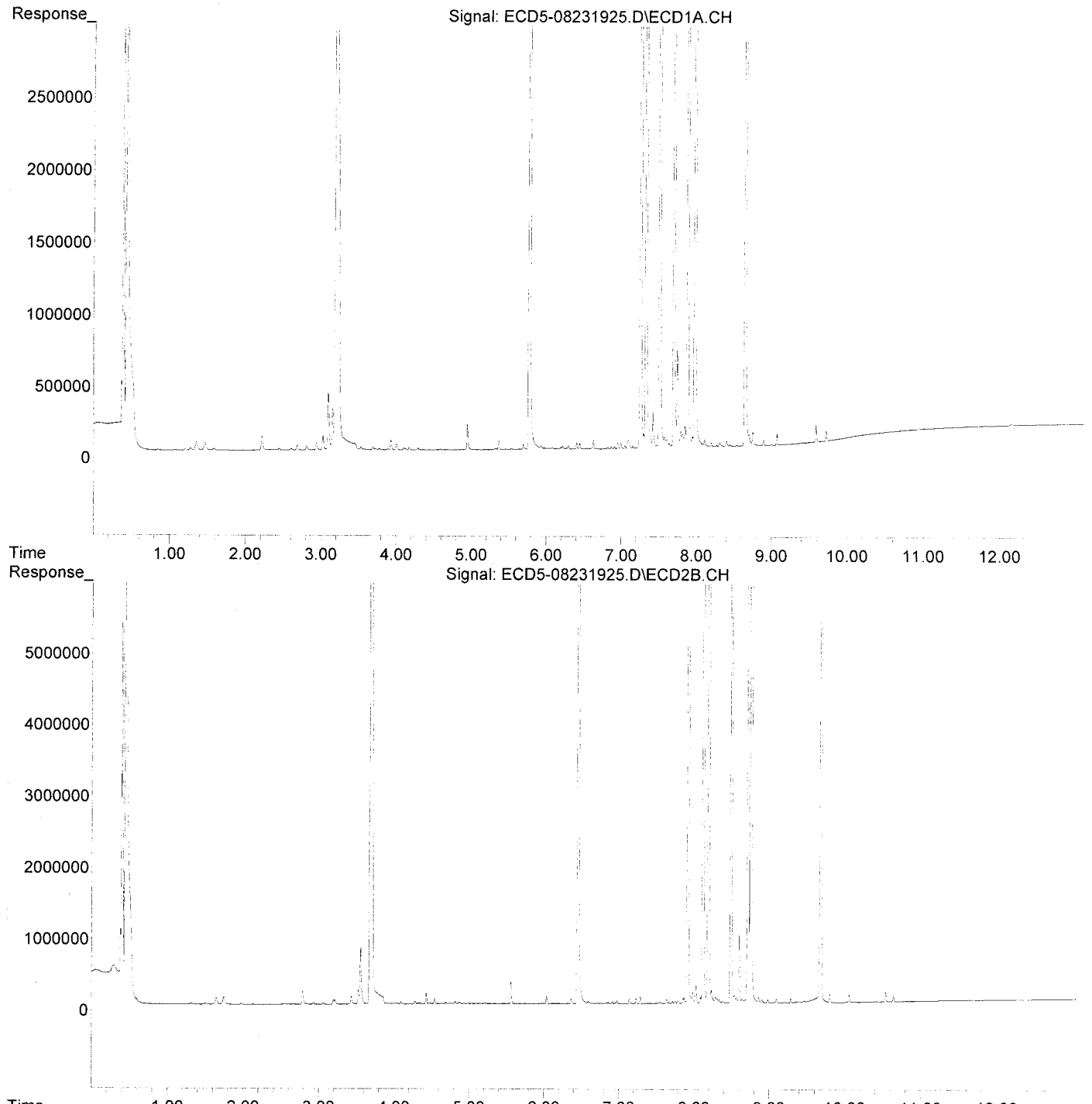
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.199	3.689	34166533	75988565	229.227	241.683
24)	Hexachlor...	5.774	6.454	34073459	66261966	277.392	295.553
25)	Oxychlordane	7.258	7.920	32032634	58736982	246.986	279.071
26)	2,4'-DDE	7.331	8.122	24819199	44504592	264.121	285.245
27)	trans-Non...	7.514	8.194	35027918	63083636	244.348	274.645
28)	2,4'-DDD	7.703	8.494	21916962	39839303	262.217	292.269
29)	2,4'-DDT	7.887	8.719	23024956	39999231	224.761	221.024
30)	cis-Nonac...	7.984	8.759	40046185	72455823	248.887	285.271
31)	Mirex	8.652	9.679	23284997	38425530	237.885	266.989
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 : R:\data\2019-08\9H23034\
Data File : ECD5-08231925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 18:45
Operator : MJB
Sample : 9H23034-CALG
Misc : A19E271, 9-42 200 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: Aug 26 11:27:05 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:36
Operator : MJB
Sample : 9H23034-CALH
Misc : A19F232, CHLOR 50 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: Aug 26 11:31:56 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MP 8/26/19

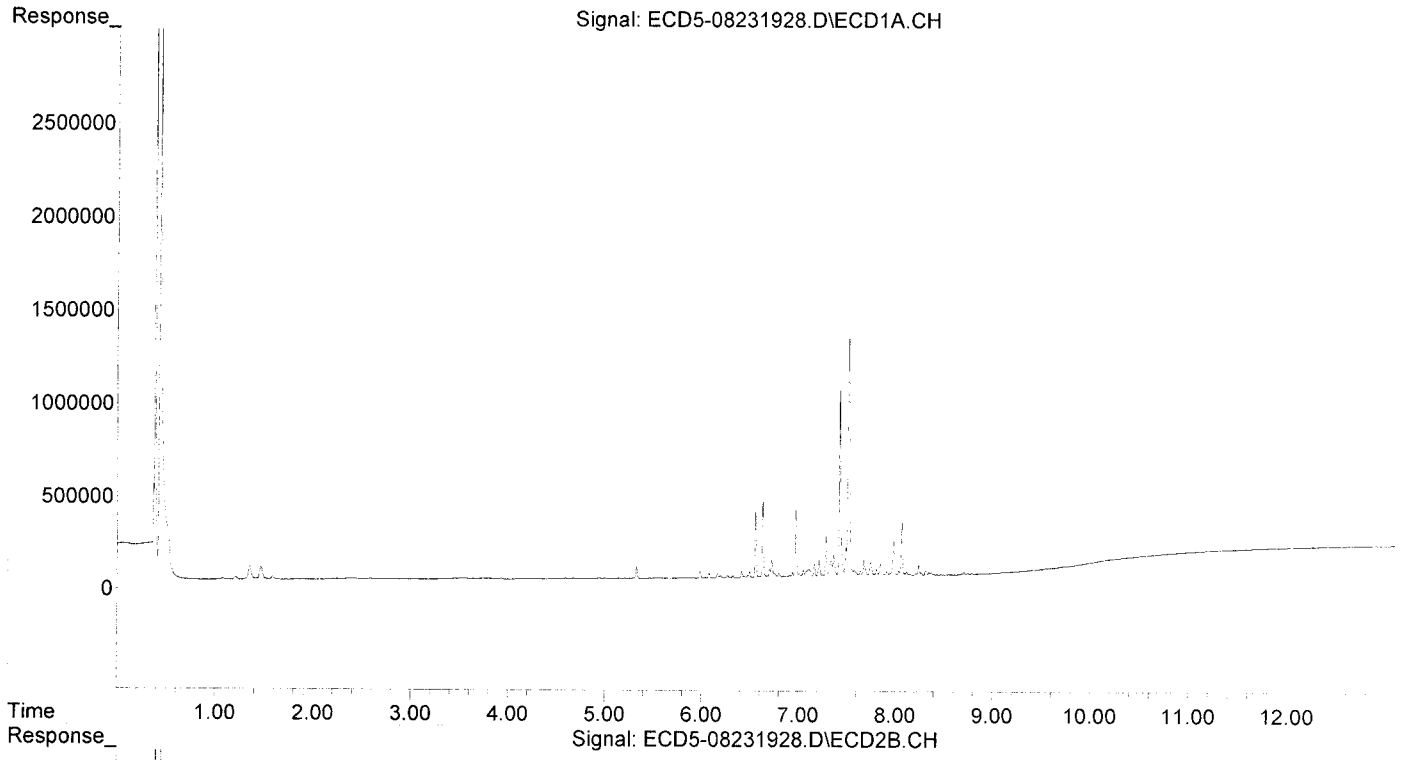
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.429	8.131	1009143	1754707	65.443	66.784
33)	Chlordane...	7.521	8.237	1286655	1472400	62.192	67.669
34)	Chlordane...	8.068	8.897	288087	439020	60.282	67.059
35)	Chlordane...	3.446	0.000	5365	0	NoCal	N.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

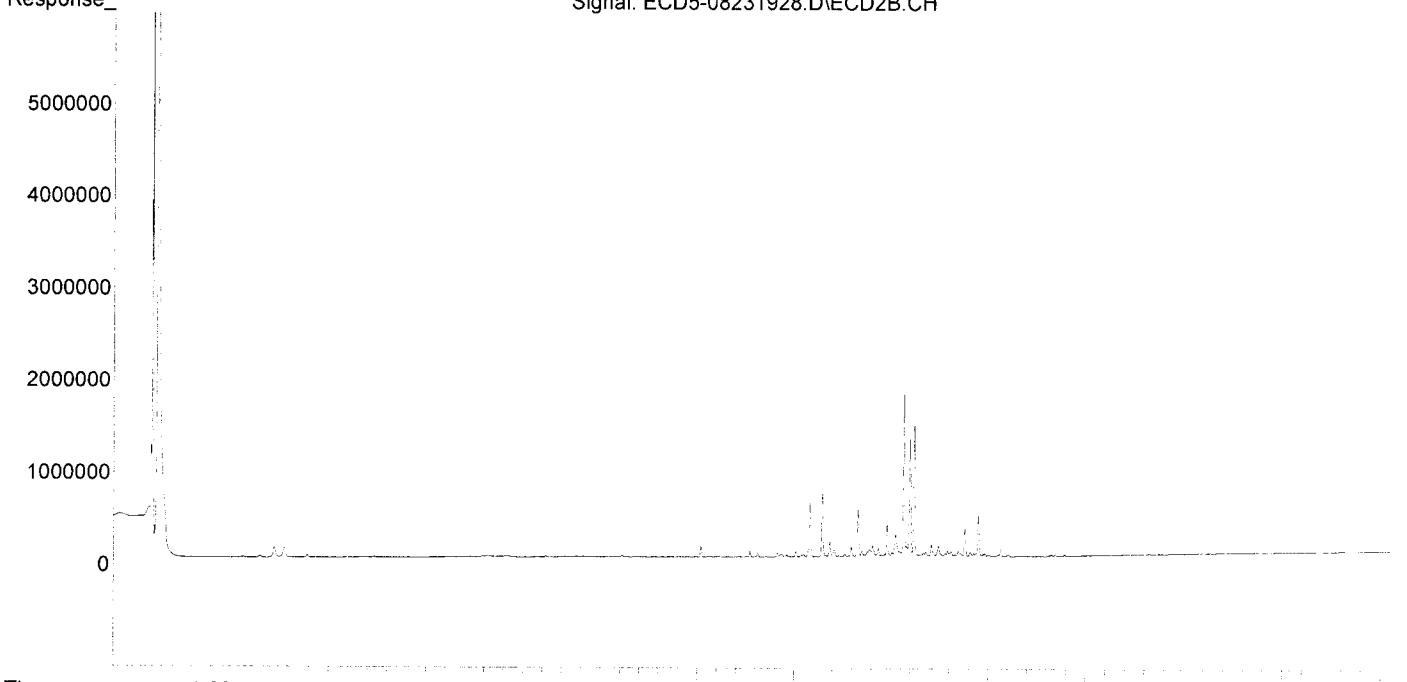
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:36
Operator : MJB
Sample : 9H23034-CALH
Misc : A19F232, CHLOR 50 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: Aug 26 11:31:56 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231929.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:54
Operator : MJB
Sample : 9H23034-CALI
Misc : A19F233, CHLOR 100 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: Aug 26 11:32:31 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

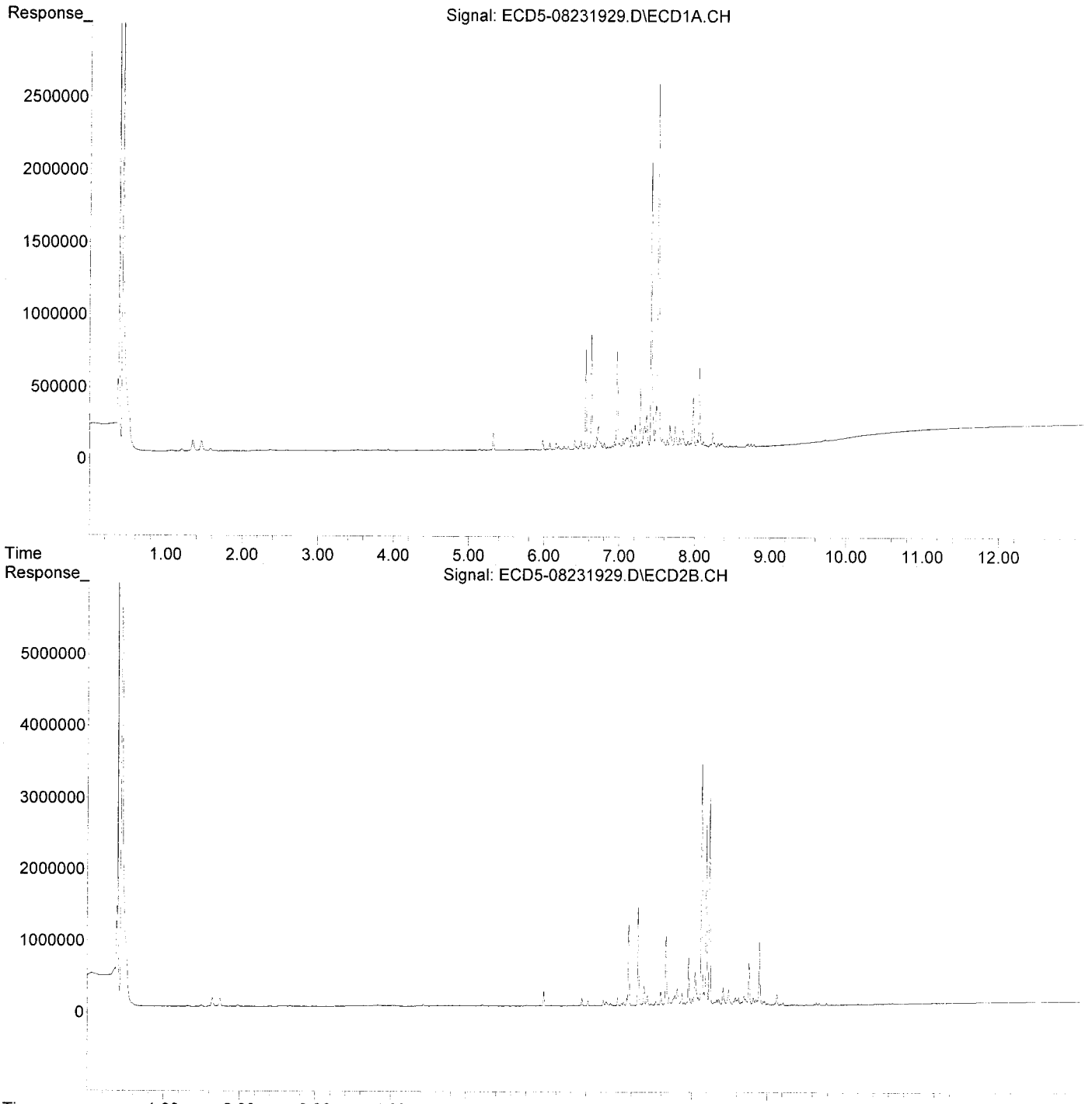
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.429	8.130	1978897	3378388	128.331	127.866
33)	Chlordane...	7.521	8.238	2519520	2905941	121.784	133.934
34)	Chlordane...	8.068	8.898	548196	874465	114.710	133.920
35)	Chlordane...	3.446	0.000	4938	0	NoCal	N.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 : R:\data\2019-08\9H23034\
Data File : ECD5-08231929.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 19:54
Operator : MJB
Sample : 9H23034-CALI
Misc : A19F233, CHLOR 100 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: Aug 26 11:32:31 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231930.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:11
Operator : MJB
Sample : 9H23034-CALJ
Misc : A19F234, CHLOR 200 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: Aug 26 11:33:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

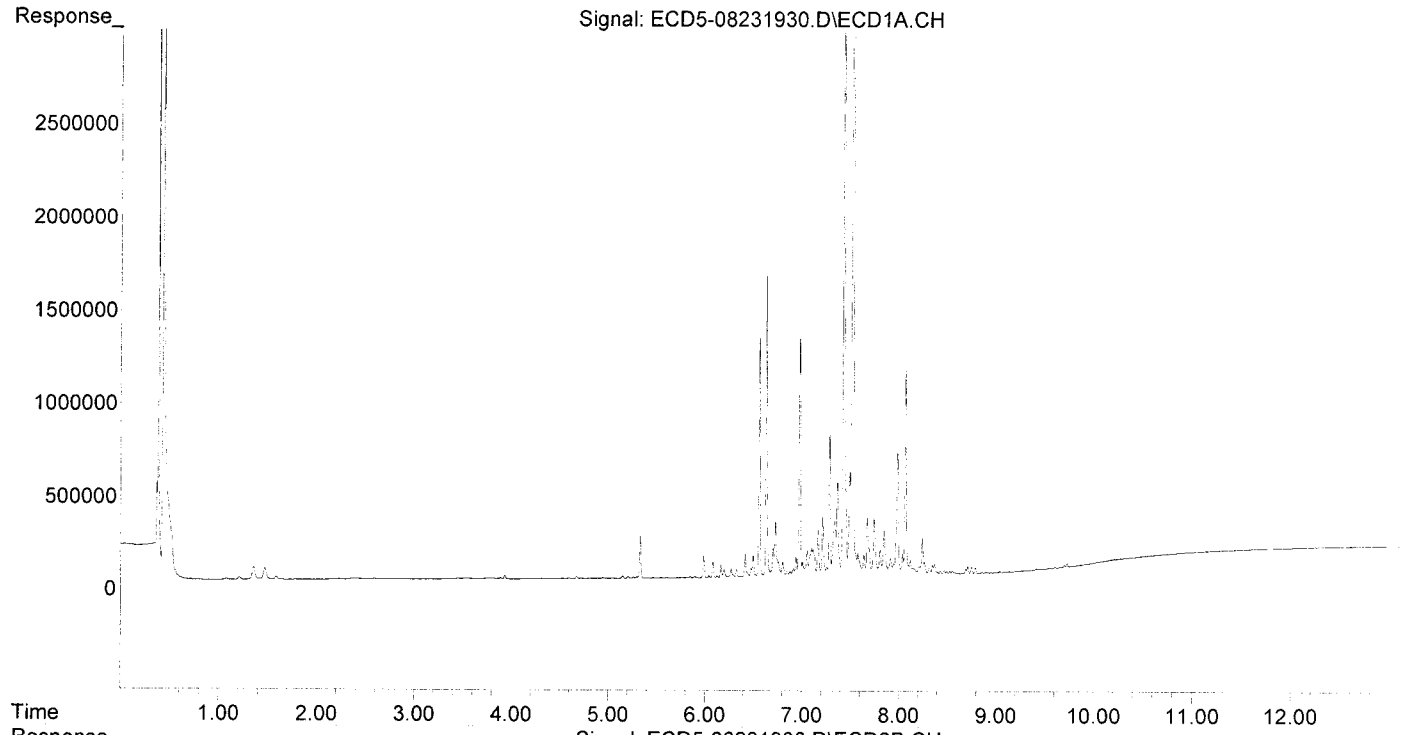
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.429	8.131	3849299	6751197	249.627	251.318
33)		Chlordane...	7.522	8.239	4906320	5883615	237.153	267.927
34)		Chlordane...	8.069	8.898	1101677	1731727	230.526	261.800
35)		Chlordane...	3.448	0.000	4503	0	NoCal	N.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

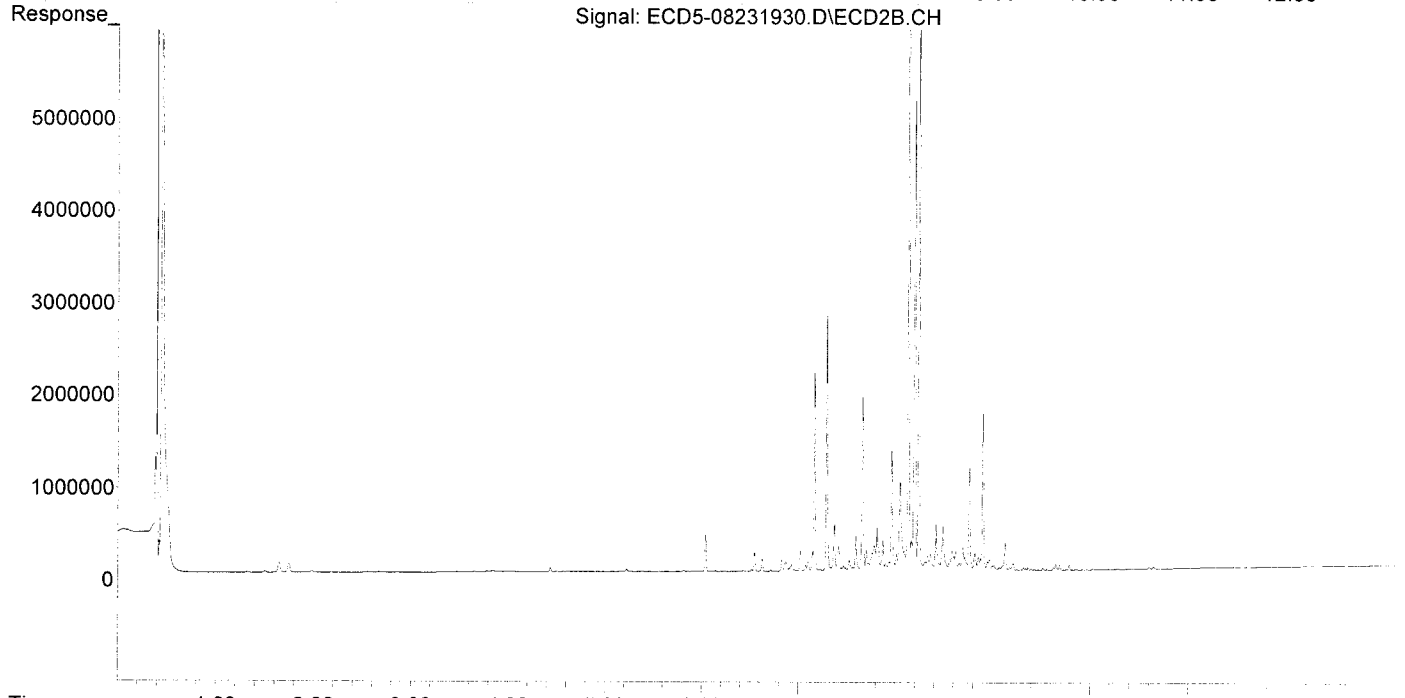
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231930.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:11
Operator : MJB
Sample : 9H23034-CALJ
Misc : A19F234, CHLOR 200 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: Aug 26 11:33:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:28
Operator : MJB
Sample : 9H23034-CALK
Misc : A19F235, CHLOR 500 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: Aug 26 11:28:33 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 9/26/19

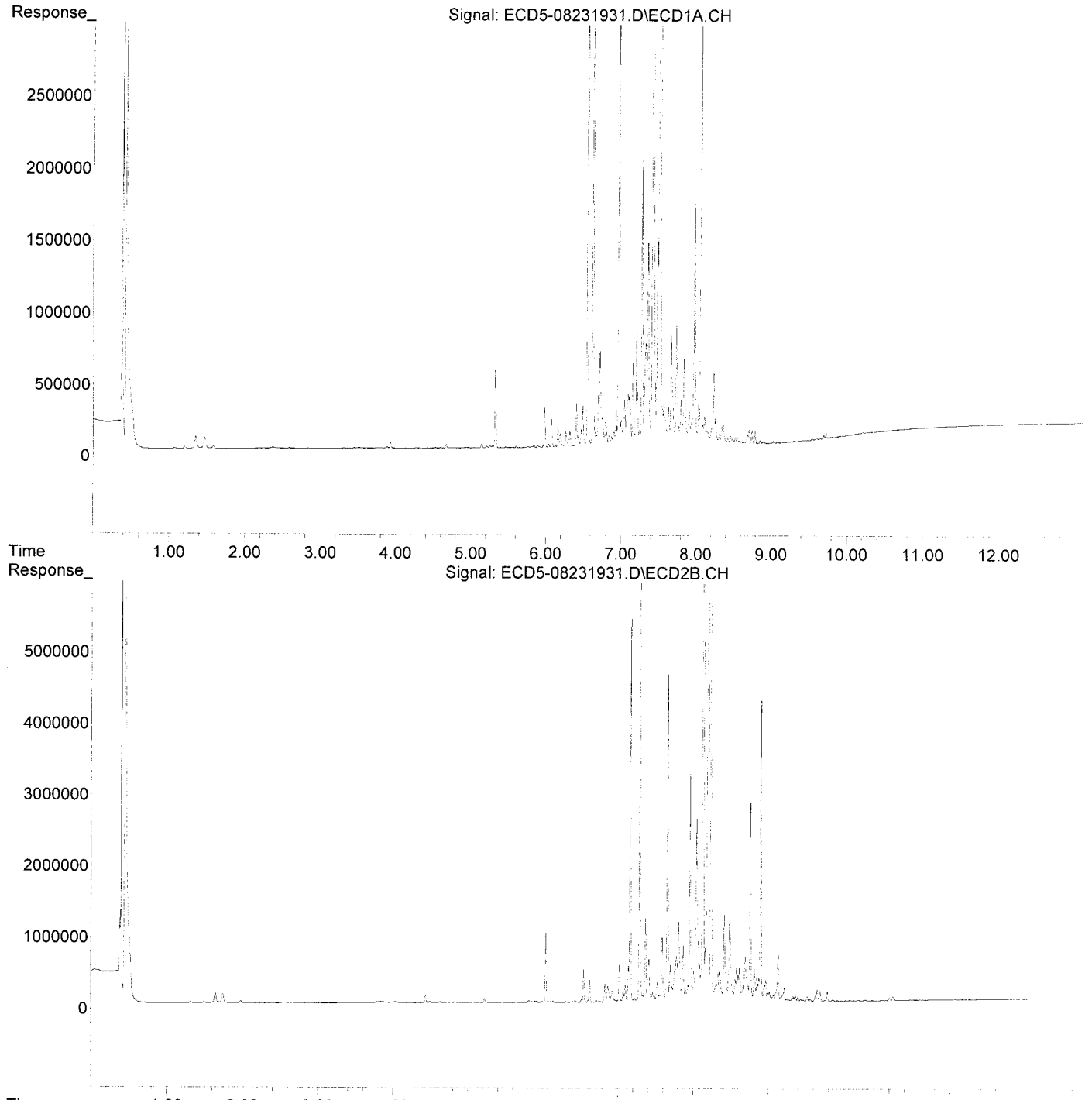
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.427	8.129	9628671	17830433	624.419	629.093
33)	Chlordane...	7.520	8.237	12176524	14812273	588.567	644.287
34)	Chlordane...	8.067	8.896	2921278	4271709	611.277	615.748
35)	Chlordane...	3.447	0.000	4056	0	NoCal	N.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 : R:\data\2019-08\9H23034\
Data File : ECD5-08231931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:28
Operator : MJB
Sample : 9H23034-CALK
Misc : A19F235, CHLOR 500 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: Aug 26 11:28:33 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231932.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:45
Operator : MJB
Sample : 9H23034-CALL
Misc : A19F236, CHLOR 1000 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: Aug 26 11:33:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

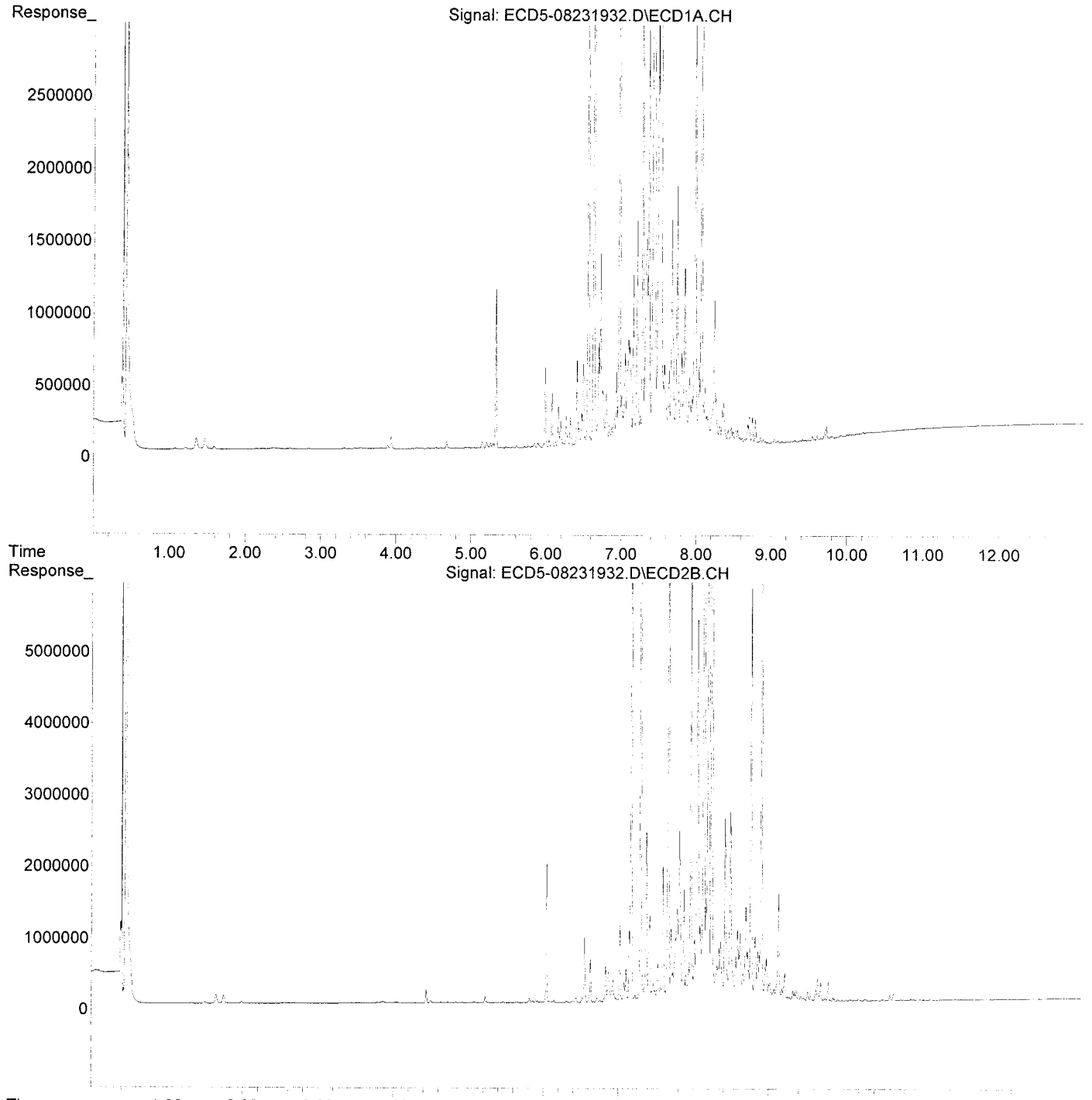
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.426	8.130	19643766	37966746	1273.898	1234.450
33)		Chlordane...	7.519	8.237	25083239	31493677	1212.428	1269.749
34)		Chlordane...	8.067	8.897	5987927	9358900	1252.974	1240.988
35)		Chlordane...	3.447	0.000	4825	0	NoCal	N.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 : R:\data\2019-08\9H23034\
Data File : ECD5-08231932.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 20:45
Operator : MJB
Sample : 9H23034-CALL
Misc : A19F236, CHLOR 1000 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: Aug 26 11:33:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:22:42 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231933.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:02
Operator : MJB
Sample : 9H23034-CALM
Misc : A19F231, CHLOR 2000 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: Aug 26 11:34:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

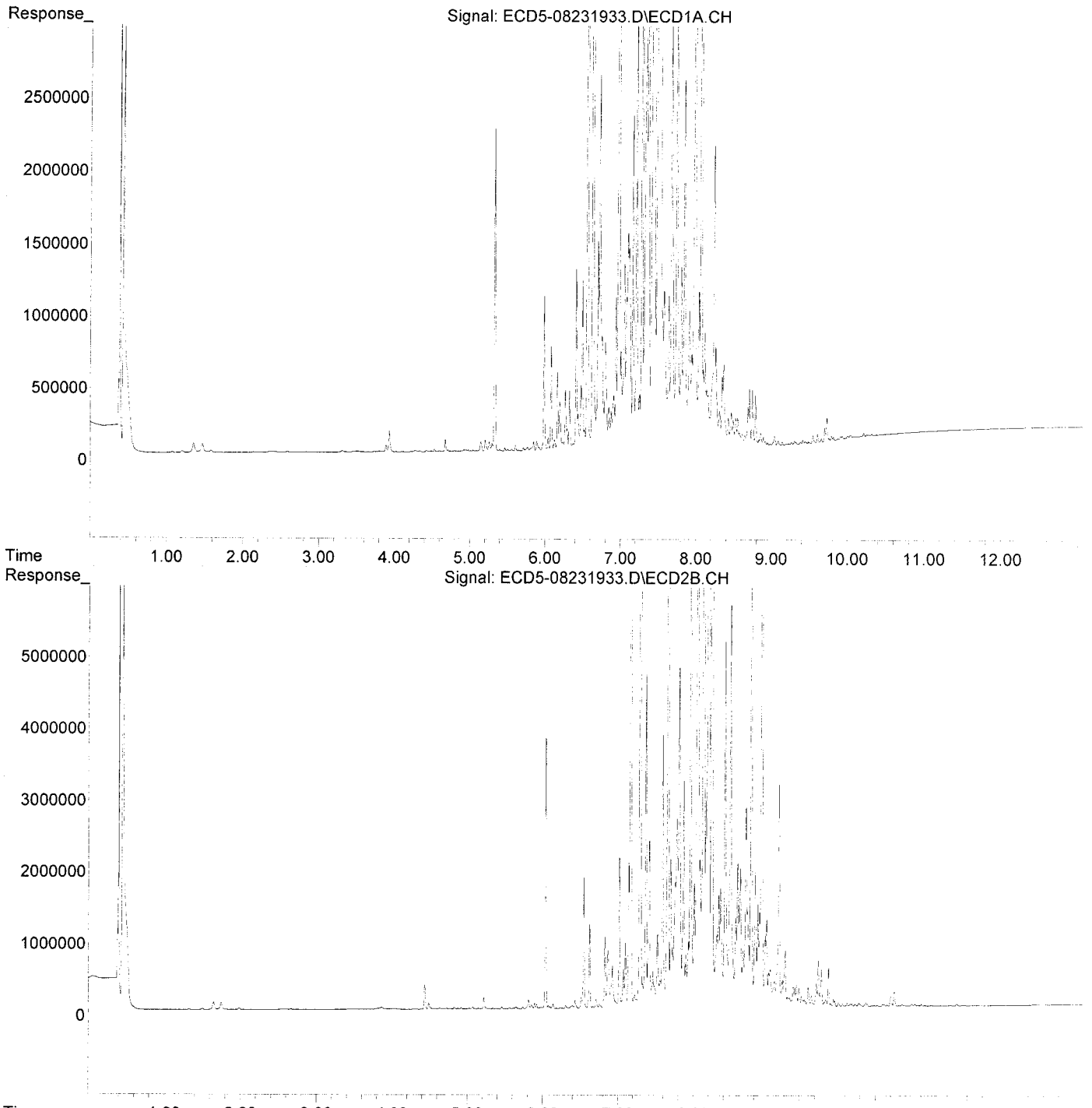
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.426	8.130	40036500	81691713	2596.366	2326.014
33)	Chlordane...	7.519	8.238	50979142	66281388	2464.138	2365.956
34)	Chlordane...	8.067	8.897	12208306	19418517	2554.588	2271.661
35)	Chlordane...	3.449	0.000	4939	0	NoCal	N.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 : R:\data\2019-08\9H23034\
Data File : ECD5-08231933.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:02
Operator : MJB
Sample : 9H23034-CALM
Misc : A19F231, CHLOR 2000 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: Aug 26 11:34:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 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: Aug 26 11:37:48 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

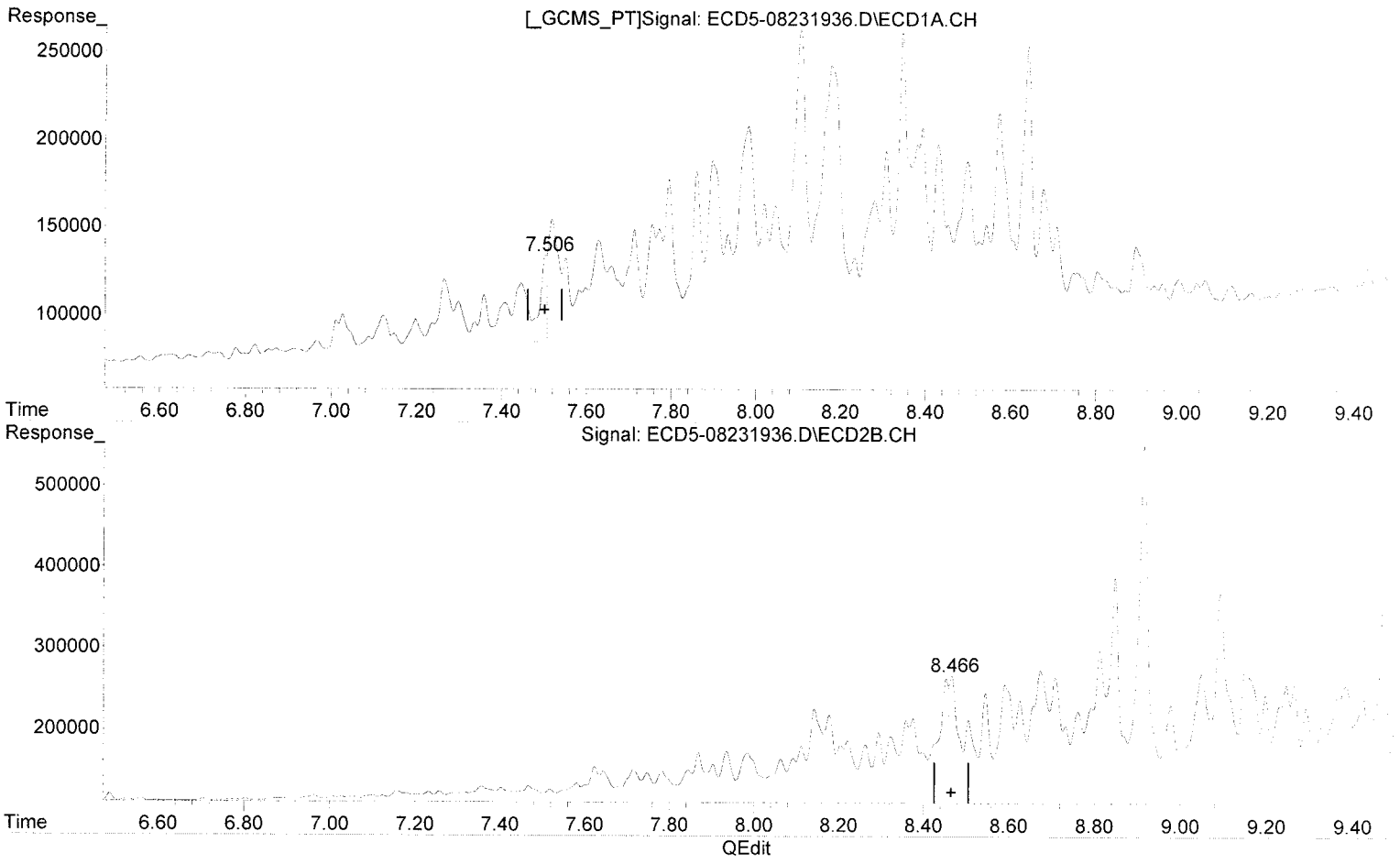
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.506	8.466	49250	136848	69.167m	65.864
37)		Toxaphene...	7.794	8.813	88321	164706	67.251	67.260
38)		Toxaphene...	8.105	8.847	169381	254833	62.397	67.028
39)		Toxaphene...	8.346	8.915	164317	416348	64.716	65.275
40)		Toxaphene...	8.573	9.091	114720	233185	60.554	65.984
41)		Toxaphene...	8.641	9.470	153138	230922	57.297	70.513
42)		Toxaphene...	3.449	0.000	4023	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 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: Aug 26 11:37:09 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.506min 69.167 ng/mL (m)

response 49250

MJB 8/26/19

(36) Toxaphene (1) #2

8.466min 65.864 ng/mL

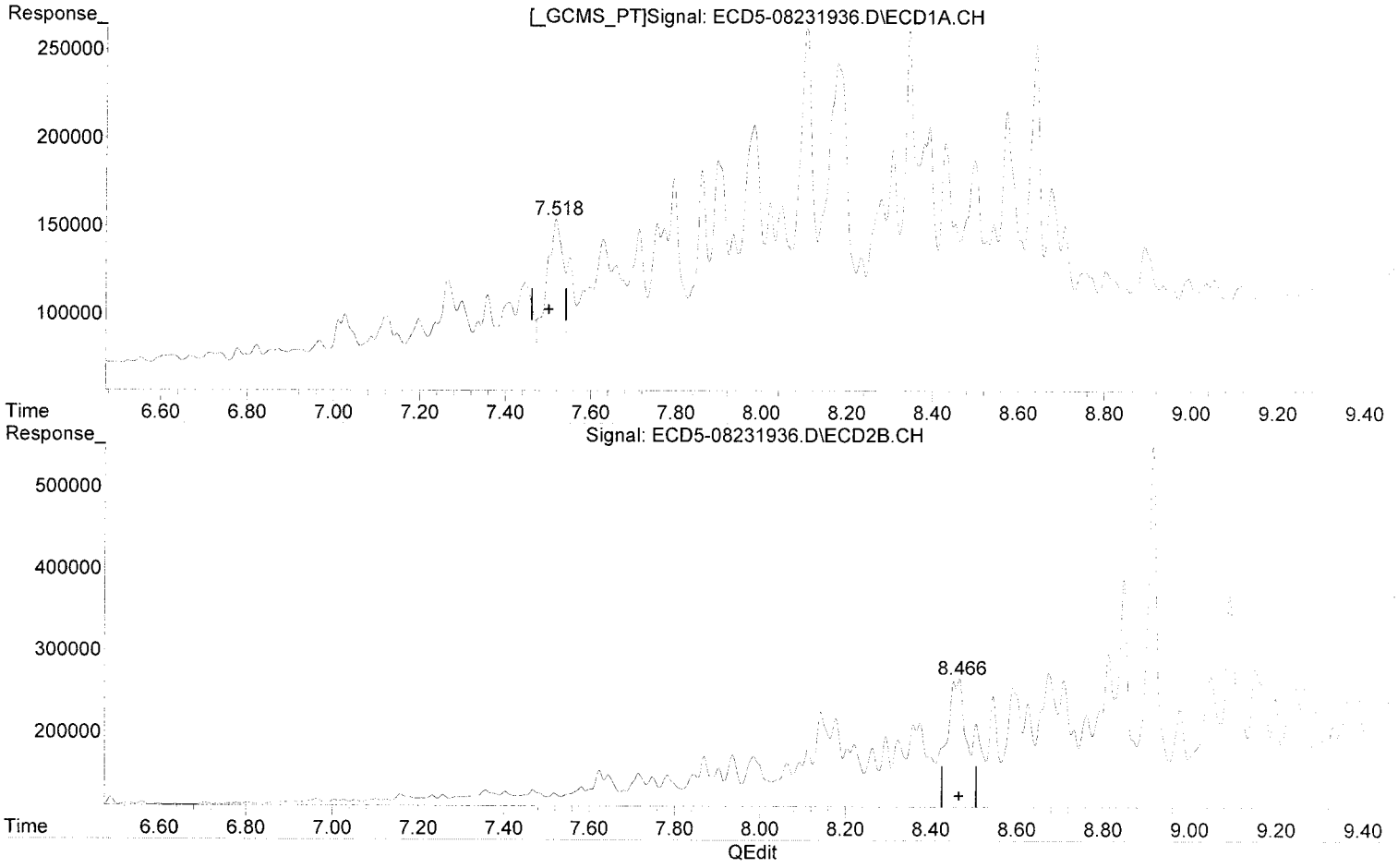
response 136848

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 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: Aug 26 11:37:09 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.518min 96.999 ng/mL

response 69068

MJB 6/26/19

(36) Toxaphene (1) #2

8.466min 65.864 ng/mL

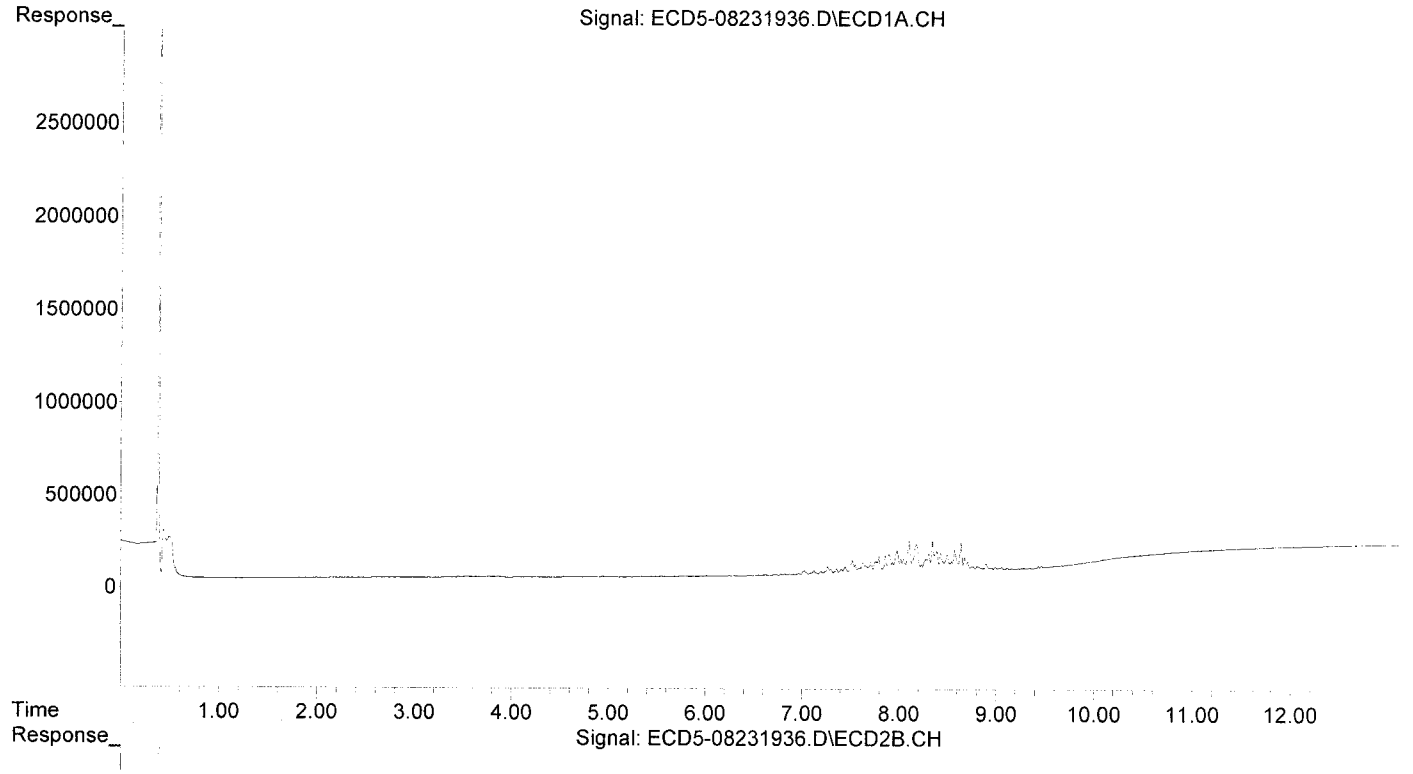
response 136848

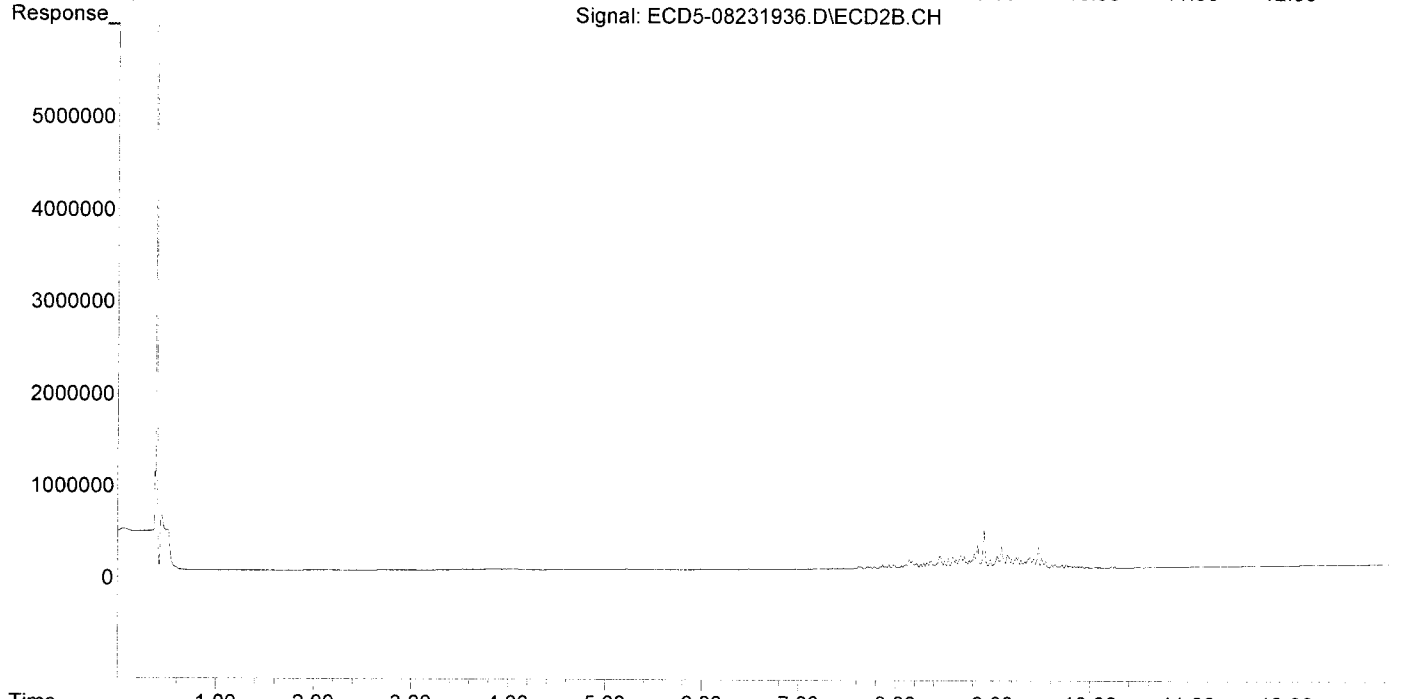
(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 21:54
Operator : MJB
Sample : 9H23034-CALN
Misc : A19D122, TOX 50 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: Aug 26 11:37:48 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 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: Aug 26 11:38:53 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

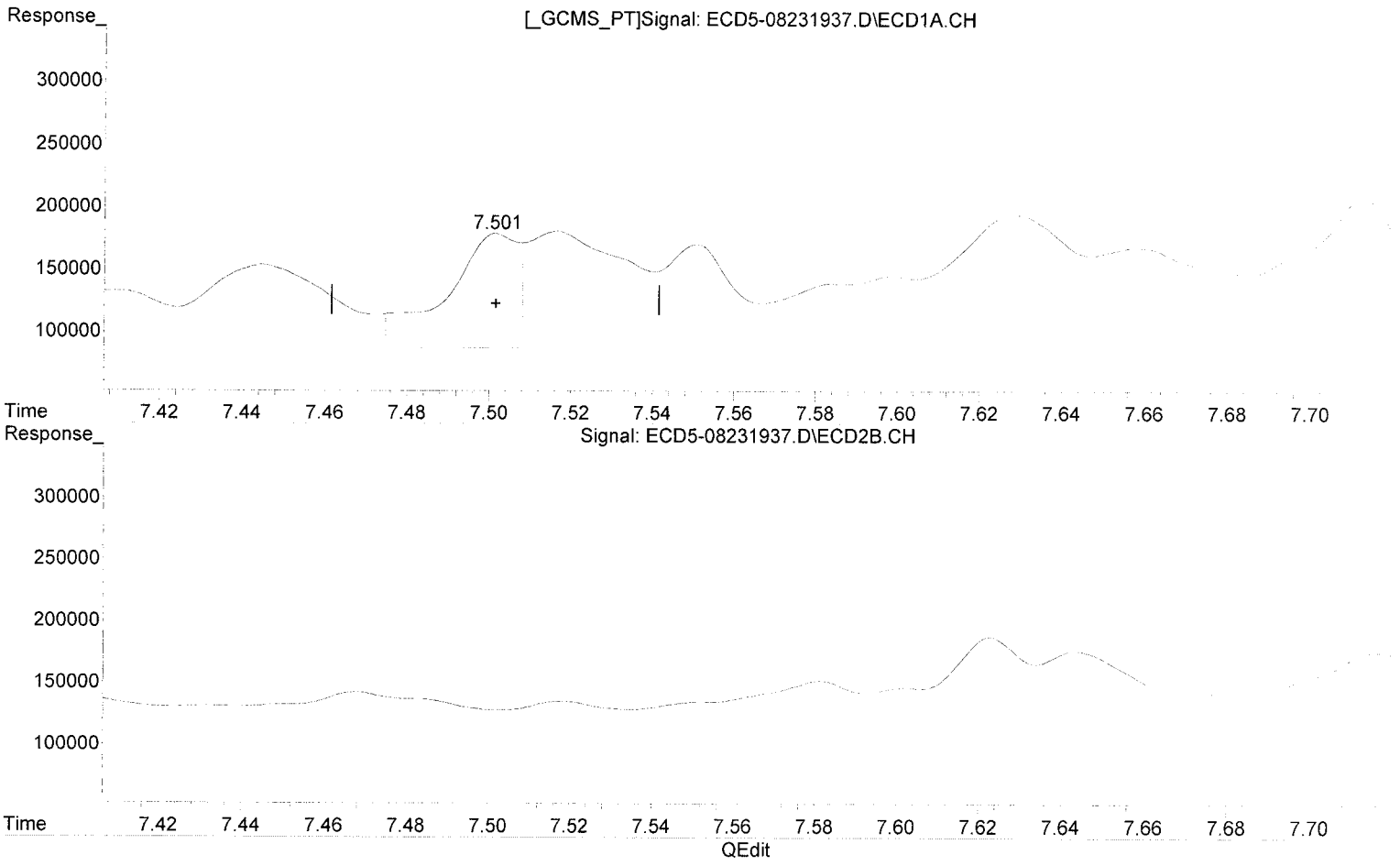
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.501	8.466	91576	267534	128.609m	128.761
37)	Toxaphene...	7.795	8.813	166085	324070	126.462	132.338
38)	Toxaphene...	8.106	8.848	332842	494430	122.613	130.048
39)	Toxaphene...	8.346	8.915	320313	811948	126.154	127.297
40)	Toxaphene...	8.574	9.091	228960	452209	120.854	127.962
41)	Toxaphene...	8.641	9.471	302577	452485	113.210	135.226
42)	Toxaphene...	3.450	0.000	3536	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 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: Aug 26 11:38:11 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.501min 128.609 ng/mL m

response 91576

MJB 8/26/19

(36) Toxaphene (1) #2

8.466min 128.761 ng/mL

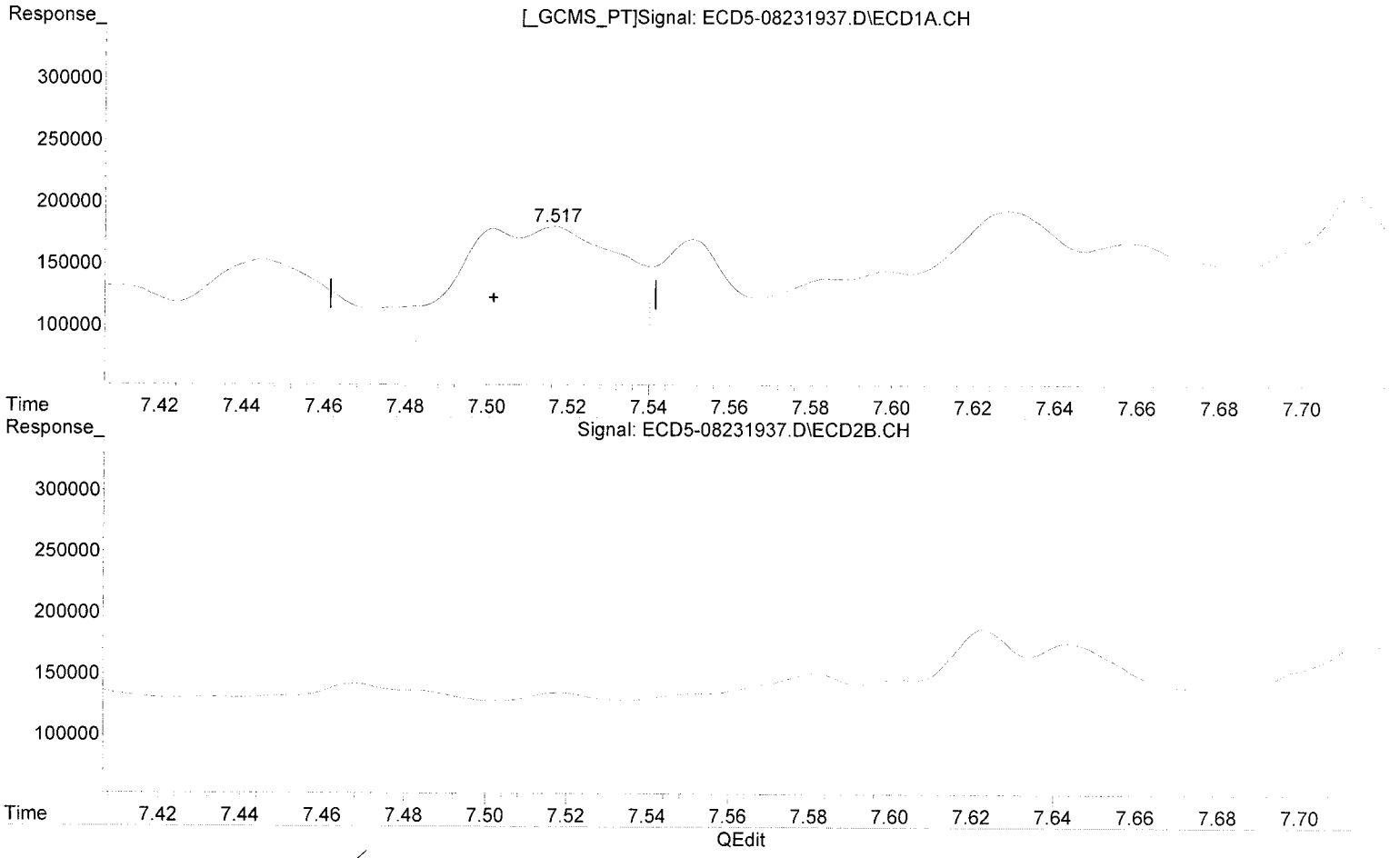
response 267534

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 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: Aug 26 11:38:11 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.517min 130.814 ng/mL

response 93146

MJB 8/26/19

(36) Toxaphene (1) #2

8.466min 128.761 ng/mL

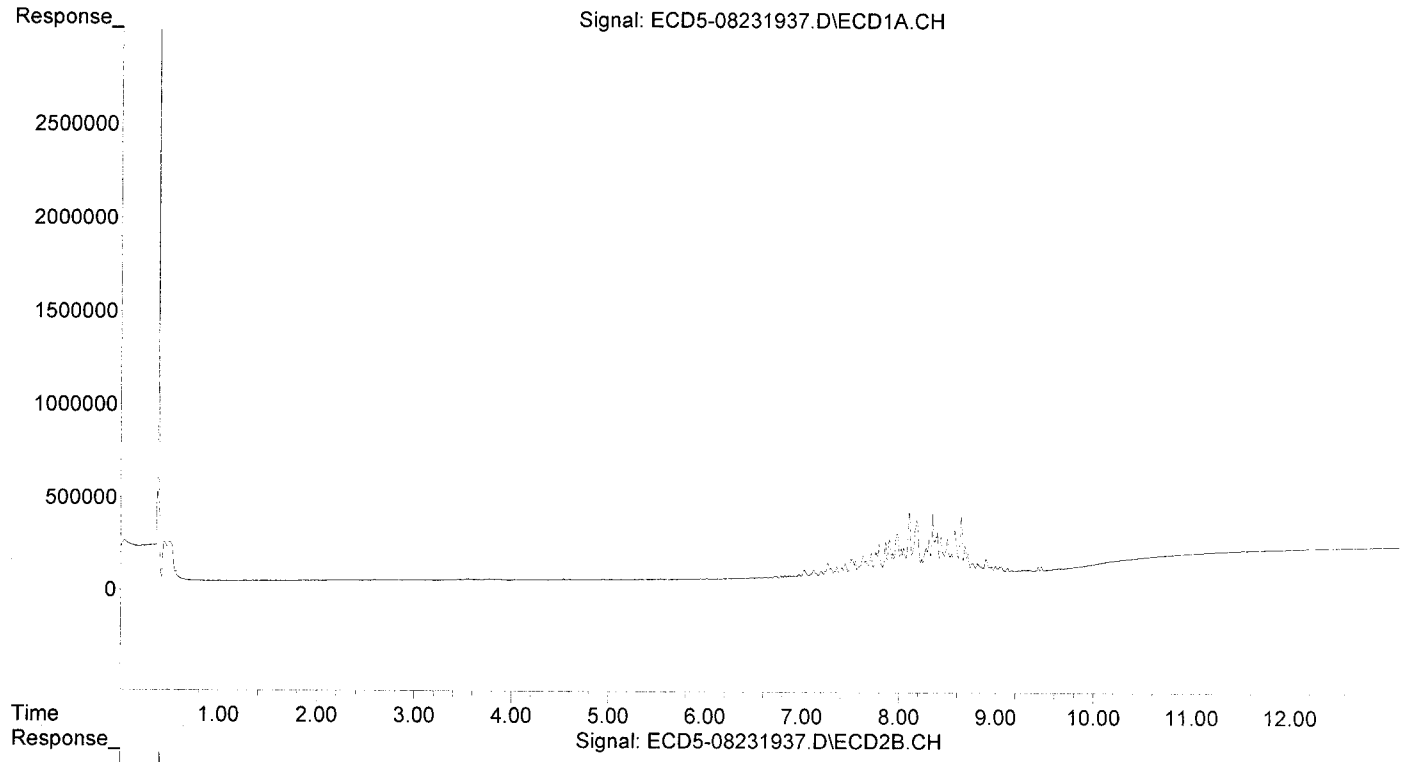
response 267534

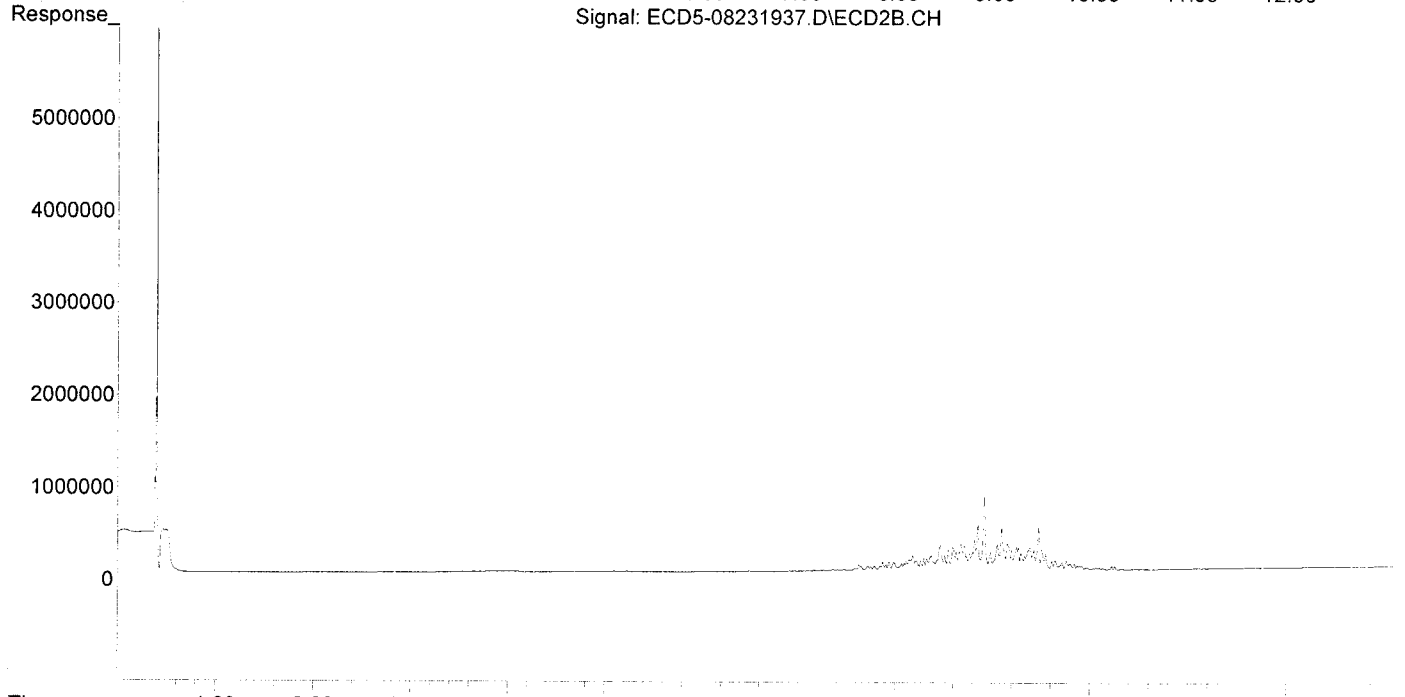
(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:11
Operator : MJB
Sample : 9H23034-CALO
Misc : A19D123, TOX 100 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: Aug 26 11:38:53 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:28
Operator : MJB
Sample : 9H23034-CALP
Misc : A19D124, TOX 200 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: Aug 26 11:39:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

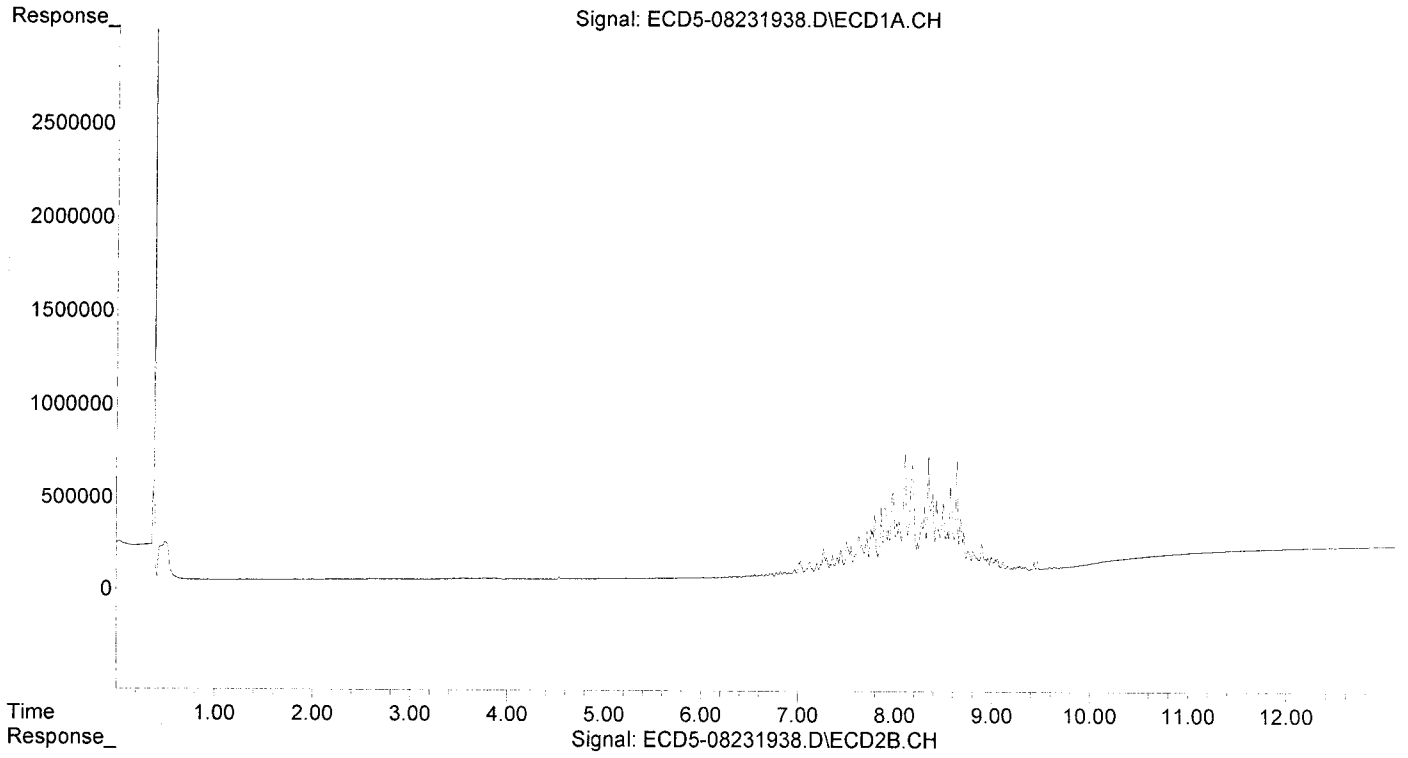
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.502	8.466	176047	508983	247.240	244.968
37)		Toxaphene...	7.795	8.812	317587	645322	241.821	263.525
38)		Toxaphene...	8.105	8.847	644464	995555	237.409	261.857
39)		Toxaphene...	8.346	8.914	632351	1580436	249.049	247.779
40)		Toxaphene...	8.574	9.090	454431	895397	239.867	253.371
41)		Toxaphene...	8.640	9.469	597991	905244	223.740	263.952
42)		Toxaphene...	3.451	0.000	3919	0	NoCal	N.D.

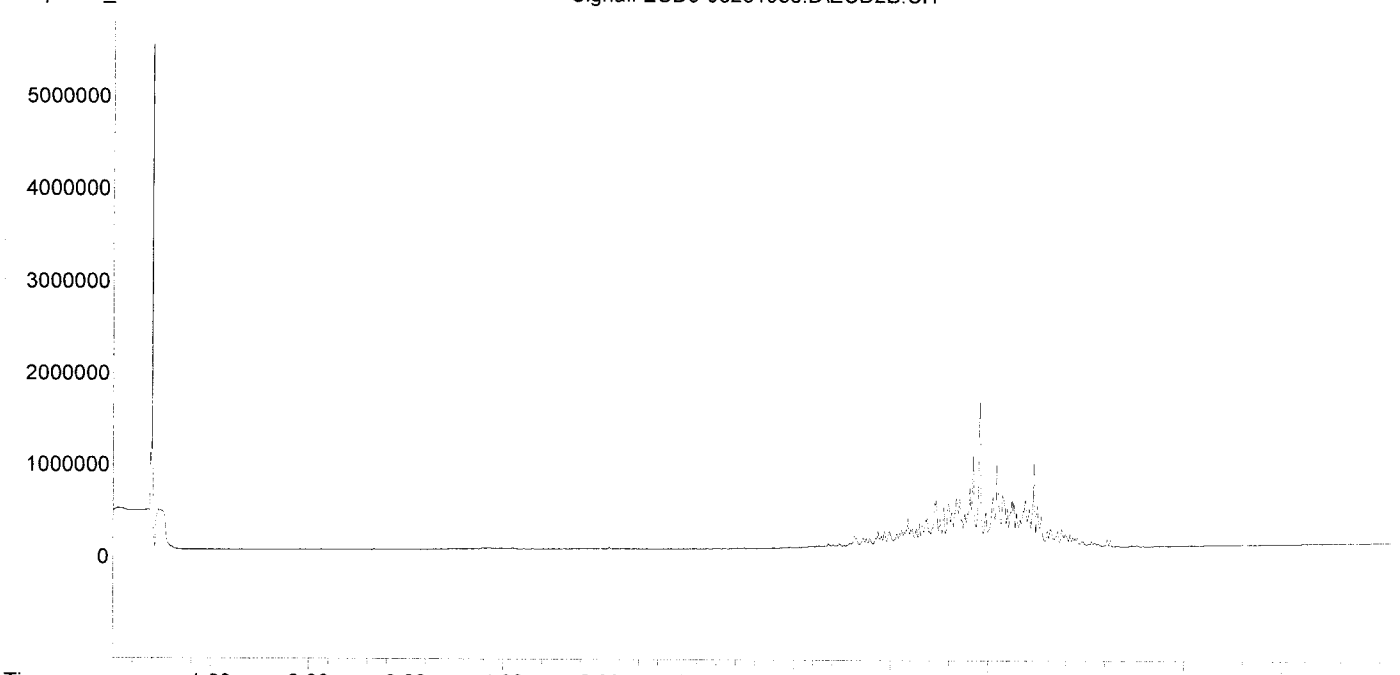
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:28
Operator : MJB
Sample : 9H23034-CALP
Misc : A19D124, TOX 200 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: Aug 26 11:39:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:45
Operator : MJB
Sample : 9H23034-CALQ
Misc : A19D125, TOX 500 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: Aug 26 11:36:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

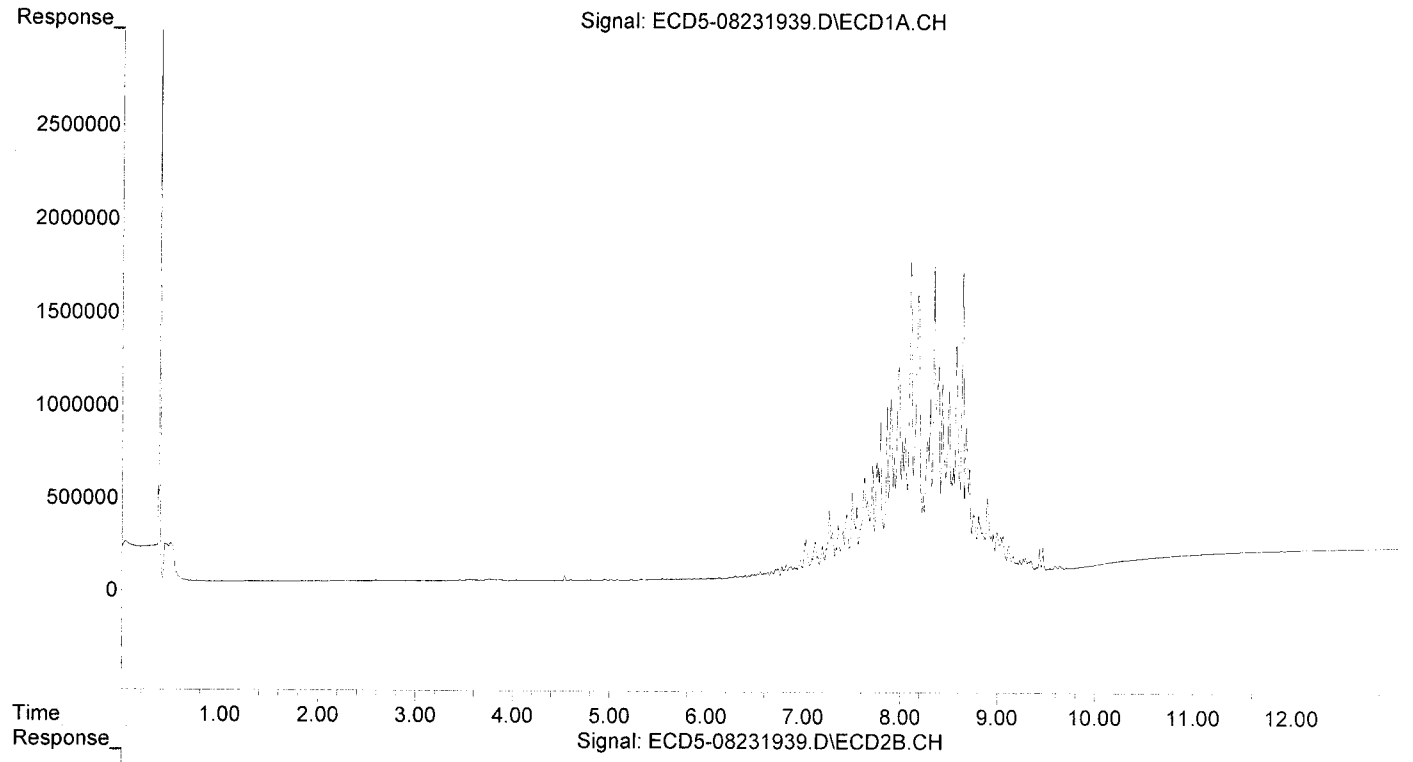
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.502	8.466	441826	1308994	620.497	630.004
37)		Toxaphene...	7.794	8.812	819454	1647741	623.958	672.874
38)		Toxaphene...	8.105	8.848	1677481	2475022	617.954	650.997
39)		Toxaphene...	8.346	8.915	1649569	4252640	649.677	666.725
40)		Toxaphene...	8.574	9.091	1221560	2340668	644.788	662.340
41)		Toxaphene...	8.640	9.470	1623402	2369795	607.400	652.719
42)		Toxaphene...	3.450	0.000	4132	0	NoCal	N.D.

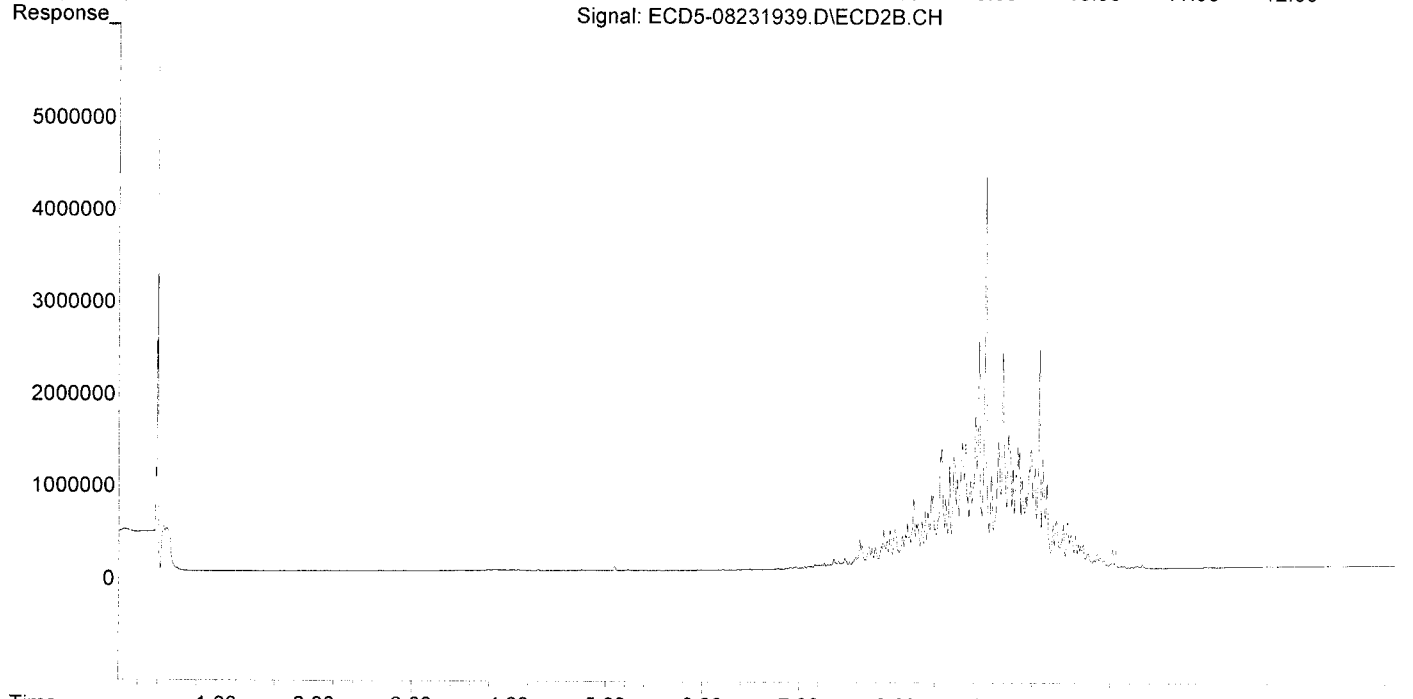
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 22:45
Operator : MJB
Sample : 9H23034-CALQ
Misc : A19D125, TOX 500 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: Aug 26 11:36:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:29:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:03
Operator : MJB
Sample : 9H23034-CALR
Misc : A19D126, TOX 1000 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: Aug 26 11:40:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 9/26/19

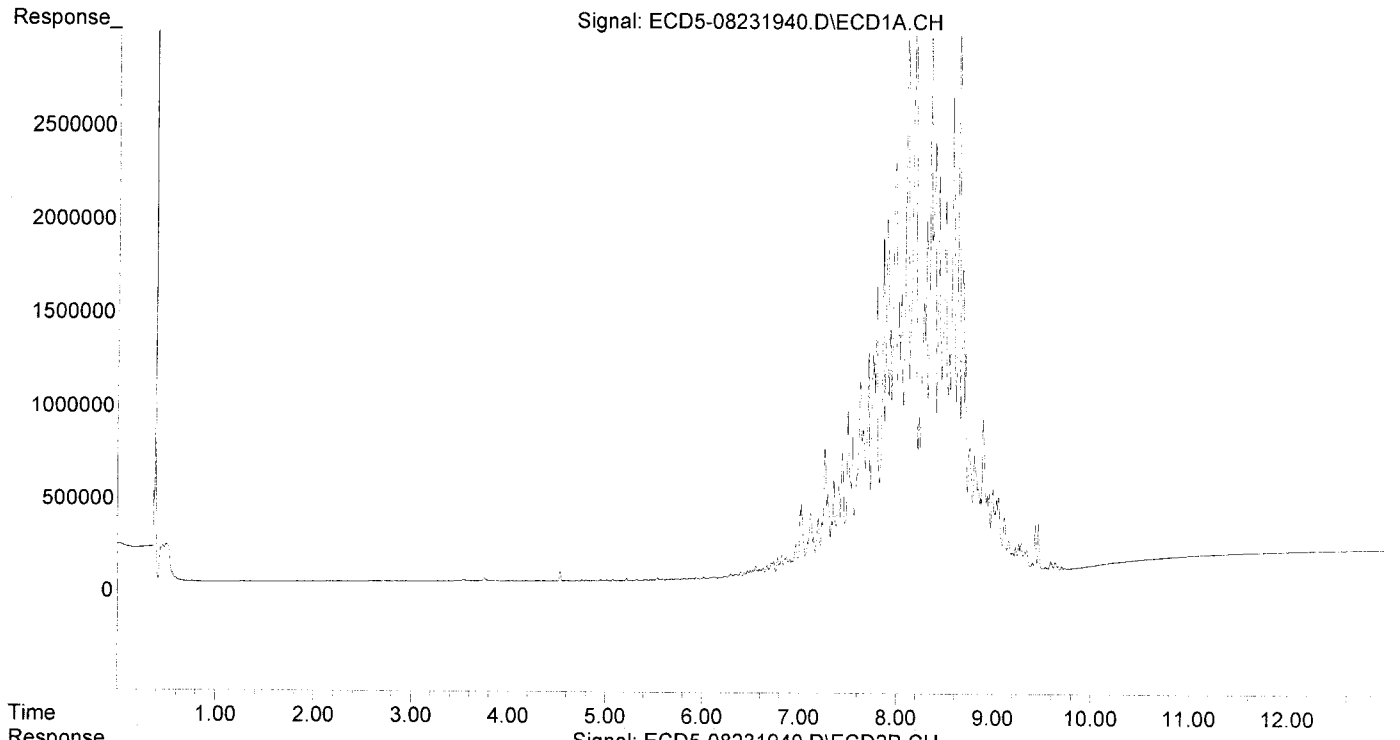
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.501	8.467	871889	2654886	1224.474	1277.768
37)		Toxaphene...	7.793	8.813	1556013	3384036	1184.797	1381.910
38)		Toxaphene...	8.105	8.848	3495877	5168269	1287.817	1359.392
39)		Toxaphene...	8.345	8.915	3287014	8650068	1294.579	1356.150
40)		Toxaphene...	8.573	9.091	2546293	4900430	1344.035	1386.677
41)		Toxaphene...	8.640	9.470	3406737	5046645	1274.639	1281.306
42)		Toxaphene...	3.451	0.000	2687	0	NoCal	N.D.

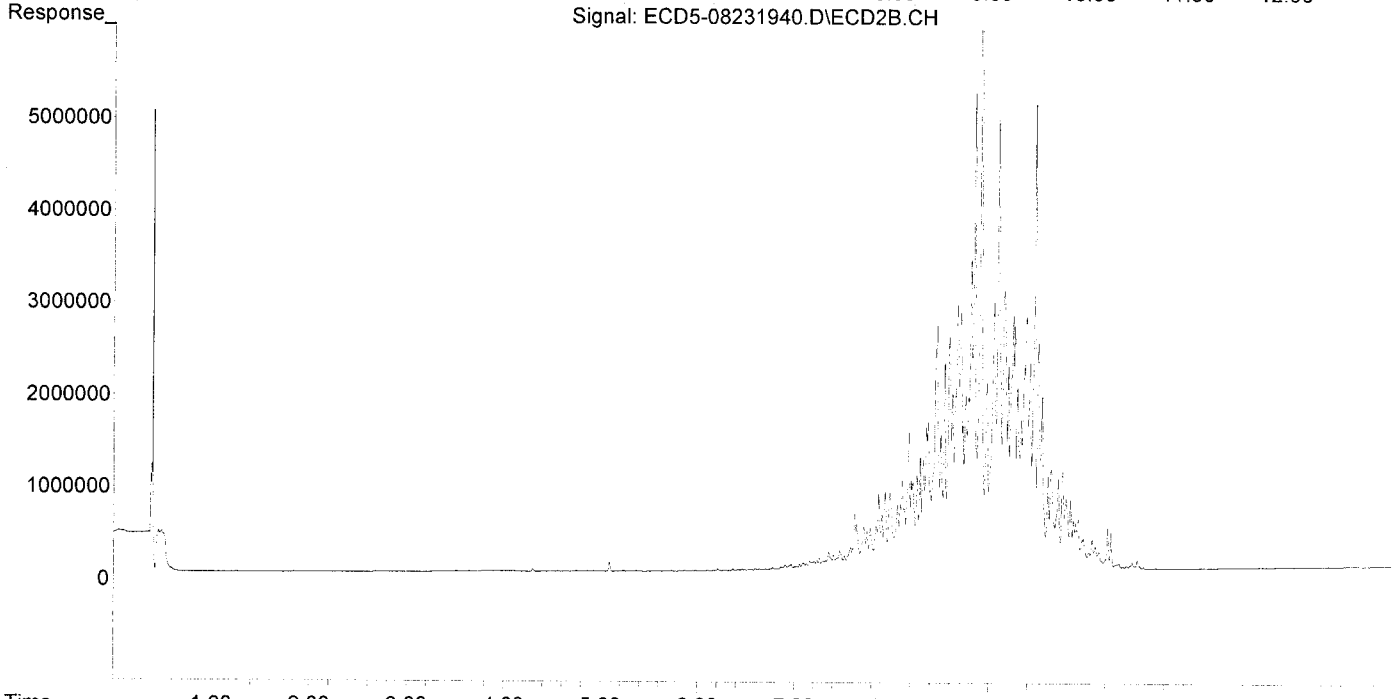
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:03
Operator : MJB
Sample : 9H23034-CALR
Misc : A19D126, TOX 1000 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: Aug 26 11:40:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:20
Operator : MJB
Sample : 9H23034-CALS
Misc : A19D121, TOX 2000 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: Aug 26 11:40:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/20/19

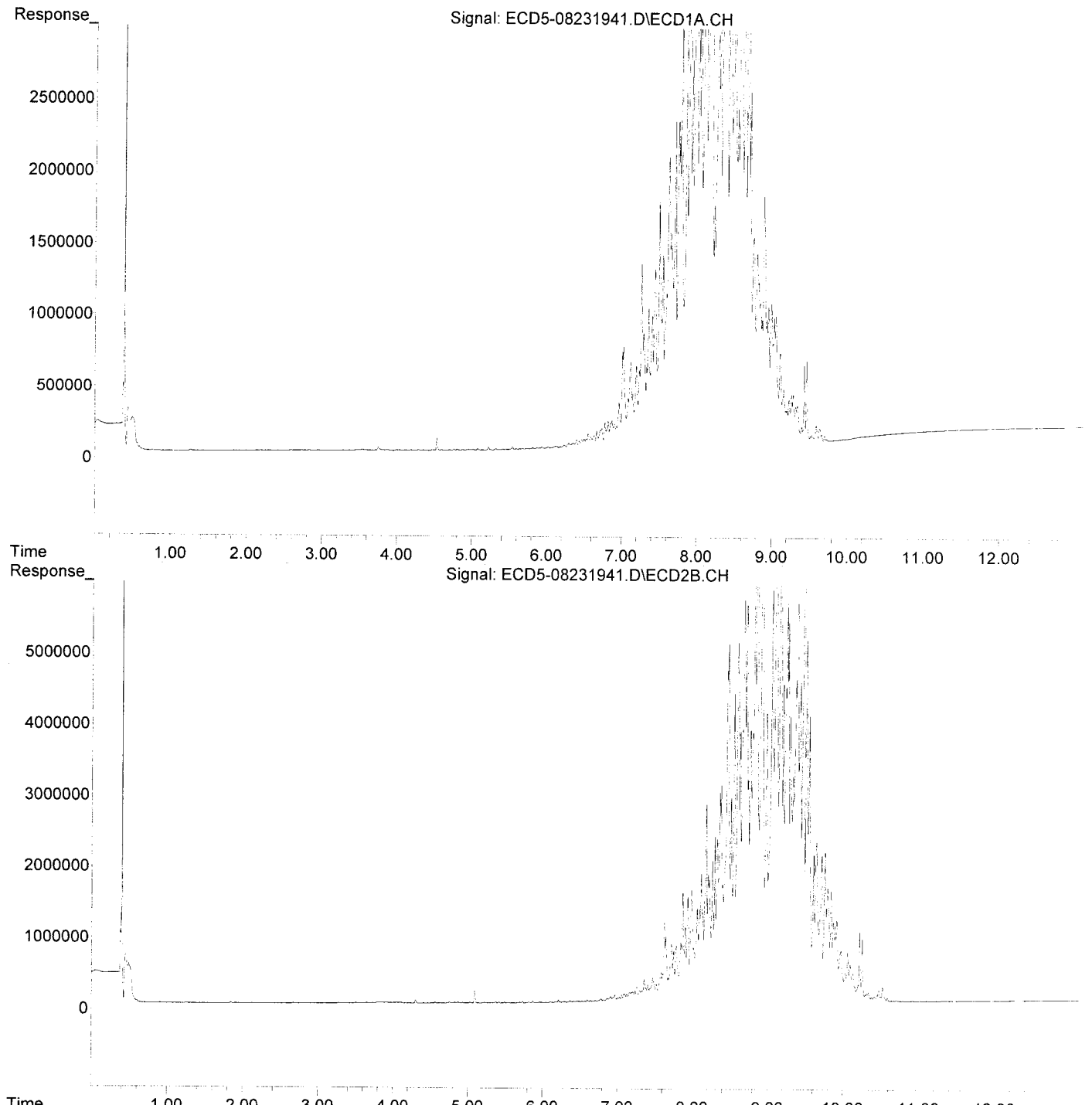
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.500	8.466	1674674	5030917	2351.899	2421.326
37)		Toxaphene...	7.792	8.813	2958997	6610397	2253.073	2699.433
38)		Toxaphene...	8.104	8.848	6831460	10545708	2516.585	2773.802
39)		Toxaphene...	8.345	8.914	6407070	17190037	2523.403	2695.039
40)		Toxaphene...	8.572	9.091	5074570	9435236	2678.561	2669.893
41)		Toxaphene...	8.640	9.471	6510950	10090951	2436.088	2281.169
42)		Toxaphene...	3.452	0.000	4166	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\
Data File : ECD5-08231941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2019 23:20
Operator : MJB
Sample : 9H23034-CALS
Misc : A19D121, TOX 2000 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: Aug 26 11:40:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_190823.M
Quant Title : Instrument: DualECD5
QLast Update : Mon Aug 26 11:36:51 2019
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 9L17040 (Cal ID A9L1807) DualECD5

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	9L17040	Instrument:	DUALECD5
Date:	12/17/19 10:48	Calibration:	A9L1807

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L17040-BKD1	Water	QC	QC				A19J201
2	9L17040-ICB1	Water	QC	QC				A19L018
3	9L17040-CAL1	Water	QC	QC				A19L231
4	9L17040-CAL2	Water	QC	QC				A19K127
5	9L17040-CAL3	Water	QC	QC				A19K128
6	9L17040-CAL4	Water	QC	QC				A19K130
7	9L17040-CAL5	Water	QC	QC				A19K131
8	9L17040-CAL6	Water	QC	QC				A19K132
9	9L17040-CAL7	Water	QC	QC				A19K133
10	9L17040-CAL8	Water	QC	QC				A19K134
11	9L17040-CAL9	Water	QC	QC				A19K126
12	9L17040-IBL1	Water	QC	QC				
13	9L17040-ICV1	Water	QC	QC				A19I209
14	9L17040-CALA	Water	QC	QC				A19L232
15	9L17040-CALB	Water	QC	QC				A19K263
16	9L17040-CALC	Water	QC	QC				A19K264
17	9L17040-CALD	Water	QC	QC				A19K265
18	9L17040-CALE	Water	QC	QC				A19K266
19	9L17040-CALF	Water	QC	QC				A19J407
20	9L17040-CALG	Water	QC	QC				A19J408
21	9L17040-CALH	Water	QC	QC				A19J409
22	9L17040-CALI	Water	QC	QC				A19K262
23	9L17040-IBL2	Water	QC	QC				
24	9L17040-ICV2	Water	QC	QC				A19J410
25	9L17040-CALJ	Water	QC	QC				A19L233
26	9L17040-CALK	Water	QC	QC				A19K307
27	9L17040-CALL	Water	QC	QC				A19K308
28	9L17040-CALM	Water	QC	QC				A19K309
29	9L17040-CALN	Water	QC	QC				A19K310
30	9L17040-CALO	Water	QC	QC				A19K311
31	9L17040-CALP	Water	QC	QC				A19K306
32	9L17040-IBL3	Water	QC	QC				
33	9L17040-ICV3	Water	QC	QC				A19K312
34	9L17040-CALQ	Water	QC	QC				A19L234
35	9L17040-CALR	Water	QC	QC				A19J417
36	9L17040-CALS	Water	QC	QC				A19J418
37	9L17040-CALT	Water	QC	QC				A19J419
38	9L17040-CALU	Water	QC	QC				A19J420
39	9L17040-CALV	Water	QC	QC				A19J421
40	9L17040-CALW	Water	QC	QC				A19J416
41	9L17040-IBL4	Water	QC	QC				
42	9L17040-ICV4	Water	QC	QC				A19J422

Comments: ICAL

Data Entered By: MJB 12/18/19

Data Reviewed By: [illegible] 12/20/19

Calibration Status Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_191217.M
Title : Instrument: DualECD5
Last Update : Wed Dec 18 11:44:50 2019
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	R:\data\2019-12\9L17040\ECD5-12171927.D
2	2	50	0	R:\data\2019-12\9L17040\ECD5-12171928.D
3	3	100	0	R:\data\2019-12\9L17040\ECD5-12171929.D
4	4	200	0	R:\data\2019-12\9L17040\ECD5-12171930.D
5	5	500	0	R:\data\2019-12\9L17040\ECD5-12171931.D
6	6	1000	0	R:\data\2019-12\9L17040\ECD5-12171932.D
7	7	2000	0	R:\data\2019-12\9L17040\ECD5-12171933.D
8	8	-1	0	R:\data\2019-12\9L17040\ECD5-12171923.D
9	9	-1	0	R:\data\2019-12\9L17040\ECD5-12171924.D

A9L1807

MJB 12/18/19

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Dec 18 11:43 2019	Dec 18 11:17 2019	17 Dec 2019 18:27
2	2	Dec 18 11:44 2019	Dec 18 11:17 2019	17 Dec 2019 18:45
3	3	Dec 18 11:44 2019	Dec 18 11:18 2019	17 Dec 2019 19:02
4	4	Dec 18 11:44 2019	Dec 18 11:19 2019	17 Dec 2019 19:19
5	5	Dec 18 11:44 2019	Dec 18 11:15 2019	17 Dec 2019 19:36
6	6	Dec 18 11:44 2019	Dec 18 11:20 2019	17 Dec 2019 19:53
7	7	Dec 18 11:44 2019	Dec 18 11:20 2019	17 Dec 2019 20:11
8	8	Dec 17 18:36 2019	Dec 17 18:32 2019	17 Dec 2019 17:19
9	9	Dec 17 18:36 2019	Dec 17 18:33 2019	17 Dec 2019 17:36

ECD5_QUANTPEST_191217.M Wed Dec 18 13:05:53 2019

Response Factor Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_191217.M
Title : Instrument: DualECD5
Last Update : Wed Dec 18 11:44:50 2019
Response Via : Initial Calibration

HJB 12/18/19

Calibration Files
1 =ECD5-12171927.D 2 =ECD5-12171928.D 3 =ECD5-12171929.D
4 =ECD5-12171930.D 5 =ECD5-12171931.D 6 =ECD5-12171932.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	S	TCMX (S)	2.157	1.847	1.805	1.687	1.699	1.697	1.784	E5	8.45
2)		a-BHC	2.505	2.414	2.296	2.366	2.351	2.374	2.401	E5	2.77
3)		g-BHC	2.180	2.039	1.931	1.979	1.982	1.982	2.034	E5	3.86
4)		b-BHC	7.781	7.002	6.585	6.390	6.432	6.680	7.090	E4	9.09
5)		Heptachlor	2.040	1.812	1.714	1.794	1.717	1.746	1.839	E5	6.40
6)		d-BHC	1.527	1.353	1.331	1.348	1.417	1.500	1.519	E5	12.61
7)		Aldrin	1.930	1.891	1.813	1.829	1.863	1.876	1.899	E5	3.36
8)		Heptachlor Ex...	2.047	1.874	1.734	1.742	1.749	1.695	1.797	E5	6.01
9)		trans-Chlordane	2.013	1.855	1.732	1.709	1.700	1.744	1.803	E5	5.53
10)		cis-Chlordane	2.310	1.933	1.764	1.717	1.662	1.731	1.832	E5	10.63
11)		Endosulfan I	1.967	1.858	1.691	1.720	1.675	1.707	1.757	E5	5.41
12)		4,4'-DDE	1.621	1.466	1.378	1.386	1.422	1.489	1.536	E5	9.65
13)		Dieldrin	2.169	1.978	1.888	1.875	1.881	1.930	1.963	E5	4.72
14)		Endrin	1.686	1.483	1.421	1.448	1.441	1.494	1.528	E5	6.18
15)		4,4'-DDD	1.648	1.351	1.262	1.232	1.209	1.305	1.360	E5	10.61
16)		Endosulfan II	1.857	1.585	1.448	1.423	1.439	1.445	1.528	E5	8.98
17)		4,4'-DDT	1.067	0.797	0.817	0.908	0.921	1.045	1.048	E5	20.35
18)		Endrin Aldehyde			1.385	1.175	1.136	1.145	1.195	E5	7.34
19)		Endosulfan Su...	2.198	1.633	1.500	1.450	1.414	1.421	1.565	E5	15.78
20)		Methoxychlor		4.532	4.579	4.748	4.559	4.952	5.207	E4	15.41
21)		Endrin Ketone	2.378	1.876	1.727	1.640	1.654	1.660	1.798	E5	12.83
22)	S	DCBP (S)	1.849	1.664	1.514	1.387	1.336	1.323	1.463	E5	12.55
23)		Hexachlorobut...	2.123	1.881	1.811	1.609	1.664	1.560	1.738	E5	10.21
24)		Hexachloroben...	2.077	1.922	1.758	1.617	1.599	1.555	1.744	E5	11.00
25)		Oxychlordane	1.918	1.764	1.583	1.471	1.457	1.406	1.582	E5	10.77
26)		2,4'-DDE	1.210	1.136	1.067	1.018	1.008	0.983	1.078	E5	7.50
27)		trans-Nonachlor	2.138	1.986	1.797	1.681	1.685	1.611	1.798	E5	9.51
28)		2,4'-DDD	1.138	1.052	0.969	0.939	0.924	0.881	0.983	E5	8.72
29)		2,4'-DDT	1.011	0.952	0.934	0.874	0.941	0.875	0.968	E5	9.22
30)		cis-Nonachlor	2.325	2.203	2.057	1.960	1.943	1.878	2.059	E5	7.03
31)		Mirex	1.705	1.586	1.384	1.255	1.214	1.120	1.314	E5	15.68
32)		Chlordane (1)	2.060	1.856	1.884	1.946	1.794	1.960	1.911	E4	4.52
33)		Chlordane (2)	2.536	2.223	2.230	2.279	2.136	2.231	2.253	E4	6.01
34)		Chlordane (3)	6.028	5.389	5.470	5.914	5.564	5.894	5.708	E3	4.28
35)		Chlordane - AVE							0.000		-1.00
36)		Toxaphene (1)	1.076	0.864	0.801	0.821	0.892	0.885	0.880	E3	10.58
37)		Toxaphene (2)	2.179	1.739	1.578	1.570	1.668	1.653	1.700	E3	13.16
38)		Toxaphene (3)	4.268	3.389	3.127	3.250	3.601	3.651	3.535	E3	10.52
39)		Toxaphene (4)	5.169	3.492	3.111	3.196	3.491	3.519	3.611	E3	19.53
40)		Toxaphene (5)	2.539	2.406	2.251	2.397	2.699	2.775	2.534	E3	7.53
41)		Toxaphene (6)	3.688	3.282	2.973	3.241	3.516	3.570	3.401	E3	7.25
42)		Toxaphene - AVE							0.000		-1.00

Signal #2 Calibration Files
1 =ECD5-12171927.D 2 =ECD5-12171928.D 3 =ECD5-12171929.D
4 =ECD5-12171930.D 5 =ECD5-12171931.D 6 =ECD5-12171932.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	S	TCMX (S)	3.436	2.978	2.903	2.749	2.760	2.795	2.969	E5	7.76
2)		a-BHC	3.933	3.751	3.595	3.755	3.831	3.946	3.979	E5	7.86
3)		g-BHC	3.462	3.235	3.069	3.180	3.171	3.324	3.386	E5	7.75
4)		b-BHC	1.628	1.438	1.332	1.285	1.262	1.284	1.386	E5	8.73
5)		Heptachlor	3.187	2.890	2.682	2.765	2.744	2.906	2.992	E5	9.09
6)		d-BHC	3.136	2.867	2.681	2.812	2.892	3.009	3.094	E5	11.53
7)		Aldrin	3.088	2.999	2.849	2.935	2.936	3.030	3.103	E5	7.31
8)		Heptachlor Ex...	3.079	2.816	2.664	2.646	2.701	2.722	2.864	E5	7.69
9)		trans-Chlordane	3.302	2.894	2.638	2.647	2.659	2.807	2.917	E5	9.09
10)		cis-Chlordane	3.110	2.786	2.608	2.599	2.577	2.682	2.806	E5	7.98
11)		Endosulfan I	2.851	2.626	2.353	2.427	2.472	2.525	2.628	E5	8.28

Response Factor Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_191217.M
Title : Instrument: DualECD5
Last Update : Wed Dec 18 11:44:50 2019
Response Via : Initial Calibration

Calibration Files
1 =ECD5-12171927.D 2 =ECD5-12171928.D 3 =ECD5-12171929.D
4 =ECD5-12171930.D 5 =ECD5-12171931.D 6 =ECD5-12171932.D

		Compound	1	2	3	4	5	6	Avg		%RSD
12)		4,4'-DDE	2.885	2.627	2.447	2.511	2.597	2.734	2.799	E5	10.99
13)		Dieldrin	3.110	2.806	2.640	2.739	2.832	2.939	2.970	E5	8.45
14)		Endrin	2.326	2.061	1.926	2.035	2.015	2.166	2.210	E5	10.64
15)		4,4'-DDD	2.779	2.283	2.115	2.116	2.127	2.207	2.354	E5	11.17
16)		Endosulfan II	2.725	2.327	2.219	2.152	2.162	2.215	2.367	E5	9.36
17)		4,4'-DDT		1.200	1.206	1.320	1.369	1.536	1.597	E5	25.40
18)		Endrin Aldehyde			2.098	1.907	1.835	1.864	1.963	E5	6.61
19)		Endosulfan Su...	3.077	2.298	2.022	1.999	1.981	2.062	2.275	E5	15.33
20)		Methoxychlor		0.654	0.653	0.716	0.682	0.780	0.799	E5	19.73
21)		Endrin Ketone	3.007	2.400	2.194	2.161	2.104	2.293	2.430	E5	12.71
22)	S	DCBP (S)	2.057	1.840	1.736	1.537	1.559	1.538	1.703	E5	10.18
23)		Hexachlorobut...	4.166	3.770	3.637	3.254	3.458	3.283	3.622	E5	8.20
24)		Hexachloroben...	3.361	3.167	2.882	2.771	2.728	2.701	2.930	E5	7.44
25)		Oxychlordane	2.927	2.735	2.456	2.329	2.290	2.277	2.530	E5	8.94
26)		2,4'-DDE	2.112	1.953	1.835	1.758	1.769	1.722	1.902	E5	7.97
27)		trans-Nonachlor	3.163	2.940	2.679	2.618	2.582	2.586	2.821	E5	8.13
28)		2,4'-DDD	2.010	1.841	1.663	1.570	1.537	1.514	1.695	E5	9.94
29)		2,4'-DDT	1.555	1.445	1.394	1.320	1.366	1.362	1.501	E5	12.55
30)		cis-Nonachlor	3.712	3.207	3.016	2.860	2.996	2.918	3.202	E5	9.59
31)		Mirex	2.624	2.080	1.838	1.633	1.600	1.526	1.829	E5	18.93
32)		Chlordane (1)	3.583	3.173	3.217	3.343	3.296	3.579	3.396	E4	5.35
33)		Chlordane (2)	3.132	2.686	2.736	2.924	2.751	3.017	2.889	E4	5.79
34)		Chlordane (3)	1.844	0.947	0.868	0.882	0.800	0.891	1.015	E4	36.27
35)		Chlordane - AVE							0.000		-1.00
36)		Toxaphene (1)	2.341	2.573	2.290	2.224	2.430	2.420	2.366	E3	4.99
37)		Toxaphene (2)	2.965	2.950	2.752	2.794	3.076	3.183	2.962	E3	5.09
38)		Toxaphene (3)	5.588	4.746	4.283	4.431	4.875	5.086	4.846	E3	8.89
39)		Toxaphene (4)	1.295	0.798	0.707	0.713	0.800	0.837	0.852	E4	23.67
40)		Toxaphene (5)	5.362	4.223	3.890	4.006	4.494	4.626	4.439	E3	10.99
41)		Toxaphene (6)	5.060	4.385	4.016	4.157	4.774	4.863	4.586	E3	8.69
42)		Toxaphene - AVE							0.000		-1.00

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

Compound List Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_191217.M
Title : Instrument: DualECD5
Last Update : Wed Dec 18 11:44:50 2019
Response Via : Initial Calibration

Total Cpnds : 85

MP 12/18/19

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	5.374	1.000	A	H	R
2		a-BHC	5.914	1.000	A	H	R
3		g-BHC	6.197	1.000	A	H	R
4		b-BHC	6.273	1.000	A	H	R
5		Heptachlor	6.605	1.000	A	H	R
6		d-BHC	6.423	1.000	Q	H	R
7		Aldrin	6.846	1.000	A	H	R
8		Heptachlor Expoxide	7.308	1.000	A	H	R
9		trans-Chlordane	7.403	1.000	A	H	R
10		cis-Chlordane	7.500	1.000	Q	H	R
11		Endosulfan I	7.598	1.000	A	H	R
12		4,4'-DDE	7.564	1.000	A	H	R
13		Dieldrin	7.770	1.000	A	H	R
14		Endrin	7.935	1.000	A	H	R
15		4,4'-DDD	7.986	1.000	Q	H	R
16		Endosulfan II	8.092	1.000	A	H	R
17		4,4'-DDT	8.182	1.000	Q	H	R
18		Endrin Aldehyde	8.383	1.000	A	H	R
19		Endosulfan Sulfate	8.685	1.000	Q	H	R
20		Methoxychlor	8.519	1.000	Q	H	R
21		Endrin Ketone	8.879	1.000	Q	H	R
22	S	DCBP (S)	9.575	1.000	Q	H	R
23		Hexachlorobutadiene	3.170	1.000	Q	H	R
24		Hexachlorobenzene	5.753	1.000	Q	H	R
25		Oxychlordane	7.235	1.000	Q	H	R
26		2,4'-DDE	7.312	1.000	A	H	R
27		trans-Nonachlor	7.490	1.000	A	H	R
28		2,4'-DDD	7.685	1.000	A	H	R
29		2,4'-DDT	7.867	1.000	A	H	R
30		cis-Nonachlor	7.961	1.000	A	H	R
31		Mirex	8.627	1.000	Q	H	R
32		Chlordane (1)	7.402	1.000	A	H	R
33		Chlordane (2)	7.496	1.000	A	H	R
34		Chlordane (3)	8.046	1.000	A	H	R
35		Chlordane - AVE	3.738	1.000	A	H	R
36		Toxaphene (1)	7.479	1.000	Q	H	R
37		Toxaphene (2)	7.772	1.000	Q	H	R
38		Toxaphene (3)	8.084	1.000	Q	H	R
39		Toxaphene (4)	8.324	1.000	Q	H	R
40		Toxaphene (5)	8.553	1.000	A	H	R
41		Toxaphene (6)	8.620	1.000	A	H	R
42		Toxaphene - AVE	3.741	1.000	A	H	R
43		Signal #2	3.859	1.000	A	H	R
44	S	TCMX (S) #2	6.093	1.000	A	H	R
45		a-BHC #2	6.702	1.000	A	H	R
46		g-BHC #2	7.022	1.000	A	H	R
47		b-BHC #2	7.084	1.000	A	H	R
48		Heptachlor #2	7.400	1.000	A	H	R
49		d-BHC #2	7.341	1.000	Q	H	R
50		Aldrin #2	7.669	1.000	A	H	R
51		Heptachlor Expoxide #2	8.109	1.000	A	H	R
52		trans-Chlordane #2	8.249	1.000	A	H	R
53		cis-Chlordane #2	8.357	1.000	A	H	R
54		Endosulfan I #2	8.409	1.000	A	H	R
55		4,4'-DDE #2	8.460	1.000	Q	H	R
56		Dieldrin #2	8.611	1.000	A	H	R

57		Endrin #2	8.840	1.000	Q	H	R
58		4,4'-DDD #2	8.877	1.000	Q	H	R
59		Endosulfan II #2	8.987	1.000	A	H	R
60		4,4'-DDT #2	9.106	1.000	Q	H	R
61		Endrin Aldehyde #2	9.224	1.000	A	H	R
62		Endosulfan Sulfate #2	9.416	1.000	Q	H	R
63		Methoxychlor #2	9.584	1.000	Q	H	R
64		Endrin Ketone #2	9.821	1.000	Q	H	R
65	S	DCBP (S) #2	10.701	1.000	A	H	R
66		Hexachlorobutadiene #2	3.775	1.000	A	H	R
67		Hexachlorobenzene #2	6.562	1.000	A	H	R
68		Oxychlordane #2	8.036	1.000	A	H	R
69		2,4'-DDE #2	8.238	1.000	A	H	R
70		trans-Nonachlor #2	8.311	1.000	A	H	R
71		2,4'-DDD #2	8.613	1.000	A	H	R
72		2,4'-DDT #2	8.838	1.000	Q	H	R
73		cis-Nonachlor #2	8.880	1.000	A	H	R
74		Mirex #2	9.815	1.000	Q	H	R
75		Chlordane (1) #2	8.247	1.000	A	H	R
76		Chlordane (2) #2	8.355	1.000	A	H	R
77		Chlordane (3) #2	9.022	1.000	Q	H	R
78		Chlordane - AVE #2	3.719	1.000	A	H	R
79		Toxaphene (1) #2	8.573	1.000	A	H	R
80		Toxaphene (2) #2	8.935	1.000	A	H	R
81		Toxaphene (3) #2	8.973	1.000	A	H	R
82		Toxaphene (4) #2	9.039	1.000	Q	H	R
83		Toxaphene (5) #2	9.215	1.000	Q	H	R
84		Toxaphene (6) #2	9.601	1.000	A	H	R
85		Toxaphene - AVE #2	3.725	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

ECD5_QUANTPEST_191217.M Wed Dec 18 13:06:02 2019

Calibration Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_191217.M
Title : Instrument: DualECD5
Last Update : Wed Dec 18 11:44:50 2019
Response Via : Initial Calibration

AMB 12/18/19

Calibration Files
1 =ECD5-12171927 2 =ECD5-12171928 3 =ECD5-12171929 4 =ECD5-12171930 5 =ECD5-12
6 =ECD5-12171932 7 =ECD5-12171933 8 =ECD5-12171923 9 =ECD5-12171924

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Avg	-----	1.7837 e5	-----	0.0845
2)		a-BHC	Avg	-----	2.4006 e5	-----	0.0277
3)		g-BHC	Avg	-----	2.0336 e5	-----	0.0386
4)		b-BHC	Avg	-----	7.0902 e4	-----	0.0909
5)		Heptachlor	Avg	-----	1.8386 e5	-----	0.0640
6)		d-BHC	Quad	4.7548 e3	1.3740 e5	2.8497 e2	0.9976
7)		Aldrin	Avg	-----	1.8989 e5	-----	0.0336
8)		Heptachlor Expoxide	Avg	-----	1.7966 e5	-----	0.0601
9)		trans-Chlordane	Avg	-----	1.8029 e5	-----	0.0553
10)		cis-Chlordane	Quad	3.1213 e4	1.6546 e5	9.8475 e1	0.9993
11)		Endosulfan I	Avg	-----	1.7574 e5	-----	0.0541
12)		4,4'-DDE	Avg	-----	1.5364 e5	-----	0.0965
13)		Dieldrin	Avg	-----	1.9628 e5	-----	0.0472
14)		Endrin	Avg	-----	1.5278 e5	-----	0.0618
15)		4,4'-DDD	Quad	2.0913 e4	1.1920 e5	1.7824 e2	0.9988
16)		Endosulfan II	Avg	-----	1.5279 e5	-----	0.0898
17)		4,4'-DDT	Quad	2.9763 e3	9.0685 e4	2.9424 e2	0.9900
18)		Endrin Aldehyde	Avg	-----	1.1954 e5	-----	0.0734
19)		Endosulfan Sulfate	Quad	3.9115 e4	1.3512 e5	1.0354 e2	0.9981
20)		Methoxychlor	Quad	-3.0607 e3	4.7714 e4	1.0327 e2	0.9984
21)		Endrin Ketone	Quad	3.7187 e4	1.5824 e5	1.2741 e2	0.9990
22)	S	DCBP (S)	Quad	2.8321 e4	1.3226 e5	4.2687 e1	0.9991
23)		Hexachlorobutadiene	Quad	2.7135 e4	1.5994 e5	4.9512 e1	0.9989
24)		Hexachlorobenzene	Quad	2.9713 e4	1.5400 e5	1.7411 e2	0.9982
25)		Oxychlordane	Quad	2.7366 e4	1.4139 e5	1.1460 e2	0.9990
26)		2,4'-DDE	Avg	-----	1.0782 e5	-----	0.0750
27)		trans-Nonachlor	Avg	-----	1.7975 e5	-----	0.0951
28)		2,4'-DDD	Avg	-----	9.8324 e4	-----	0.0872
29)		2,4'-DDT	Avg	-----	9.6760 e4	-----	0.0922
30)		cis-Nonachlor	Avg	-----	2.0592 e5	-----	0.0703
31)		Mirex	Quad	3.0039 e4	1.1743 e5	2.4275 e1	0.9962
32)		Chlordane (1)	Avg	-----	1.9107 e4	-----	0.0452
33)		Chlordane (2)	Avg	-----	2.2528 e4	-----	0.0601
34)		Chlordane (3)	Avg	-----	5.7080 e3	-----	0.0428
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Quad	2.4702 e3	8.2295 e2	0.0153	0.9975
37)		Toxaphene (2)	Quad	5.7970 e3	1.5967 e3	-0.0203	0.9984
38)		Toxaphene (3)	Quad	1.0025 e4	3.2334 e3	0.1876	0.9967
39)		Toxaphene (4)	Quad	2.0119 e4	3.1267 e3	0.1570	0.9965
40)		Toxaphene (5)	Avg	-----	2.5336 e3	-----	0.0753
41)		Toxaphene (6)	Avg	-----	3.4007 e3	-----	0.0725
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

Signal #2

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Avg	-----	2.9687 e5	-----	0.0776
2)		a-BHC	Avg	-----	3.9795 e5	-----	0.0786
3)		g-BHC	Avg	-----	3.3862 e5	-----	0.0775
4)		b-BHC	Avg	-----	1.3858 e5	-----	0.0873
5)		Heptachlor	Avg	-----	2.9919 e5	-----	0.0909
6)		d-BHC	Quad	1.2859 e4	2.7968 e5	5.5265 e2	0.9986
7)		Aldrin	Avg	-----	3.1028 e5	-----	0.0731

8)		Heptachlor Expoxide	Avg	-----	2.8638 e5	-----	0.0769
9)		trans-Chlordane	Avg	-----	2.9169 e5	-----	0.0909
10)		cis-Chlordane	Avg	-----	2.8065 e5	-----	0.0798
11)		Endosulfan I	Avg	-----	2.6284 e5	-----	0.0828
12)		4,4'-DDE	Quad	1.4208 e4	2.5294 e5	4.7750 e2	0.9984
13)		Dieldrin	Avg	-----	2.9705 e5	-----	0.0845
14)		Endrin	Quad	1.2966 e4	1.9959 e5	3.6205 e2	0.9981
15)		4,4'-DDD	Quad	3.2752 e4	2.0482 e5	3.7720 e2	0.9986
16)		Endosulfan II	Avg	-----	2.3675 e5	-----	0.0936
17)		4,4'-DDT	Quad	-3.1215 e4	1.4420 e5	4.6537 e2	0.9949
18)		Endrin Aldehyde	Avg	-----	1.9630 e5	-----	0.0661
19)		Endosulfan Sulfate	Quad	5.3732 e4	1.8952 e5	3.3975 e2	0.9967
20)		Methoxychlor	Quad	-9.6326 e3	7.2813 e4	1.9075 e2	0.9972
21)		Endrin Ketone	Quad	4.3142 e4	2.0664 e5	4.0772 e2	0.9984
22)	S	DCBP (S)	Avg	-----	1.7028 e5	-----	0.1018
23)		Hexachlorobutadiene	Avg	-----	3.6219 e5	-----	0.0820
24)		Hexachlorobenzene	Avg	-----	2.9302 e5	-----	0.0744
25)		Oxychlordane	Avg	-----	2.5300 e5	-----	0.0894
26)		2,4'-DDE	Avg	-----	1.9018 e5	-----	0.0797
27)		trans-Nonachlor	Avg	-----	2.8212 e5	-----	0.0813
28)		2,4'-DDD	Avg	-----	1.6954 e5	-----	0.0994
29)		2,4'-DDT	Quad	1.2231 e4	1.3127 e5	3.1009 e2	0.9997
30)		cis-Nonachlor	Avg	-----	3.2021 e5	-----	0.0959
31)		Mirex	Quad	5.6582 e4	1.5062 e5	1.8028 e2	0.9997
32)		Chlordane (1)	Avg	-----	3.3960 e4	-----	0.0535
33)		Chlordane (2)	Avg	-----	2.8887 e4	-----	0.0579
34)		Chlordane (3)	Quad	1.0631 e5	7.7246 e3	0.5803	0.9978
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----	2.3661 e3	-----	0.0499
37)		Toxaphene (2)	Avg	-----	2.9618 e3	-----	0.0509
38)		Toxaphene (3)	Avg	-----	4.8461 e3	-----	0.0889
39)		Toxaphene (4)	Quad	5.9807 e4	6.8899 e3	0.8148	0.9959
40)		Toxaphene (5)	Quad	1.3326 e4	3.9916 e3	0.3324	0.9967
41)		Toxaphene (6)	Avg	-----	4.5857 e3	-----	0.0869
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

ECD5_QUANTPEST_191217.M Wed Dec 18 13:06:10 2019

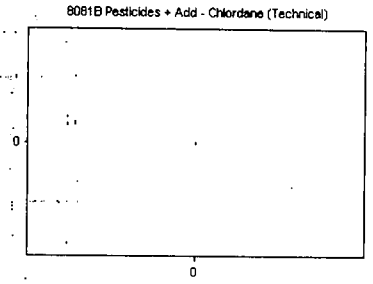
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Chlordane (Technical)

Curve Fit: **AVERAGE RF**

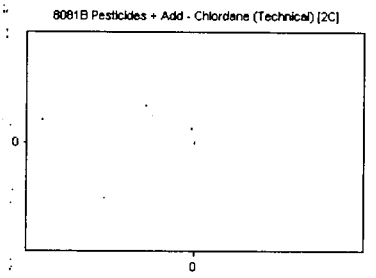


Standard	Concentration	Response	Response Factor	RT
~~9L17040-CALJ~~	~~10~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALK~~	~~50~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALL~~	~~100~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALM~~	~~200~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALN~~	~~500~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALO~~	~~1000~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-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**

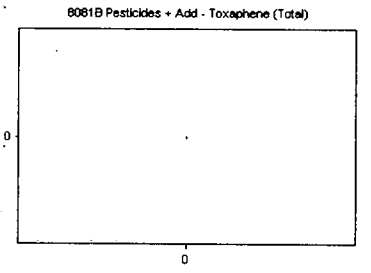


Standard	Concentration	Response	Response Factor	RT
~~9L17040-CALJ~~	~~10~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALK~~	~~50~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALL~~	~~100~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALM~~	~~200~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALN~~	~~500~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALO~~	~~1000~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-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**

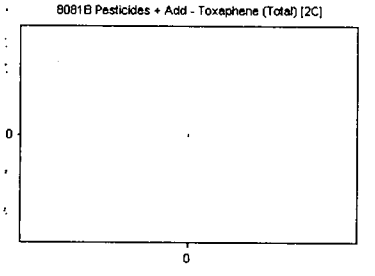


Standard	Concentration	Response	Response Factor	RT
~~9L17040-CALQ~~	~~10~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALR~~	~~50~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALS~~	~~100~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALT~~	~~200~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALU~~	~~500~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALV~~	~~1000~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-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
~~9L17040-CALQ~~	~~10~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALR~~	~~50~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALS~~	~~100~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALT~~	~~200~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALU~~	~~500~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALV~~	~~1000~~	~~0~~	~~0.000~~	~~0.00~~
~~9L17040-CALW~~	~~2000~~	~~0~~	~~0.000~~	~~0.00~~

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

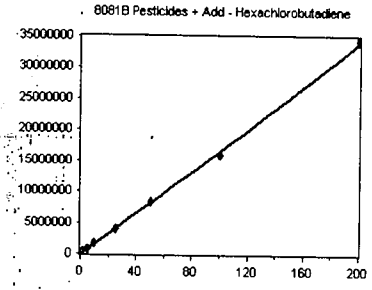
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Hexachlorobutadiene

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

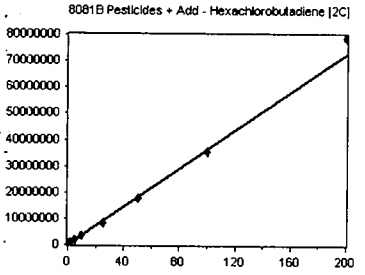


Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	106143	212286.000	3.17
9L17040-CALB	1	188124	188124.000	3.17
9L17040-CALC	2	362145	181072.500	3.17
9L17040-CALD	5	804572	160914.400	3.17
9L17040-CALE	10	1663824	166382.400	3.17
9L17040-CALF	25	3900387	156015.500	3.17
9L17040-CALG	50	8366040	167320.800	3.17
9L17040-CALH	100	1.597383E+07	159738.300	3.17
9L17040-CALI	200	3.445372E+07	172268.600	3.17

AVE RF **173791.400** RF RSD **10.21** AVE RT **3.17**

Hexachlorobutadiene [2C]

Curve Fit: **AVERAGE RF**

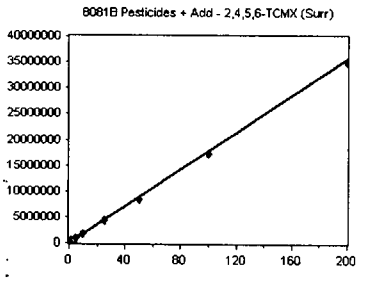


Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	208302	416604.000	3.78
9L17040-CALB	1	376994	376994.000	3.77
9L17040-CALC	2	727357	363678.500	3.78
9L17040-CALD	5	1627240	325448.000	3.77
9L17040-CALE	10	3458035	345803.500	3.77
9L17040-CALF	25	8207671	328306.800	3.77
9L17040-CALG	50	1.778392E+07	355678.400	3.78
9L17040-CALH	100	3.53531E+07	353531.000	3.78
9L17040-CALI	200	7.874038E+07	393701.900	3.78

AVE RF **362194.000** RF RSD **8.20** AVE RT **3.77**

2,4,5,6-TCMX (Surr)

Curve Fit: **AVERAGE RF**

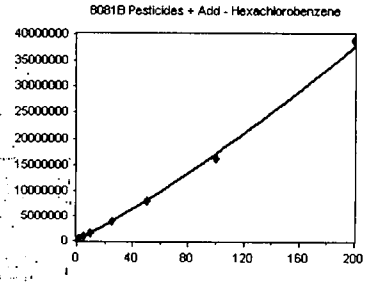


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	107840	215680.000	5.37
9L17040-CAL2	1	184724	184724.000	5.37
9L17040-CAL3	2	361023	180511.500	5.37
9L17040-CAL4	5	843510	168702.000	5.37
9L17040-CAL5	10	1699266	169926.600	5.37
9L17040-CAL6	25	4243594	169743.800	5.37
9L17040-CAL7	50	8449545	168990.900	5.37
9L17040-CAL8	100	1.719772E+07	171977.200	5.37
9L17040-CAL9	200	3.501435E+07	175071.800	5.37

AVE RF **178369.700** RF RSD **8.45** AVE RT **5.37**

Hexachlorobenzene

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	103857	207714.000	5.76
9L17040-CALB	1	192193	192193.000	5.76
9L17040-CALC	2	351615	175807.500	5.75
9L17040-CALD	5	808631	161726.200	5.75
9L17040-CALE	10	1598509	159850.900	5.75
9L17040-CALF	25	3887152	155486.100	5.75
9L17040-CALG	50	7985720	159714.400	5.75
9L17040-CALH	100	1.62234E+07	162234.000	5.75
9L17040-CALI	200	3.89883E+07	194941.500	5.75

AVE RF **174407.500** RF RSD **11.00** AVE RT **5.75**

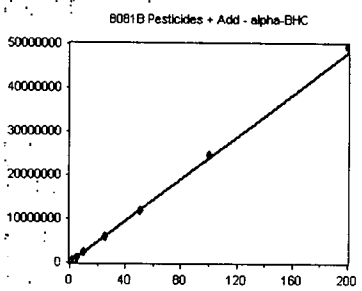
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

alpha-BHC

Curve Fit: **AVERAGE RF**

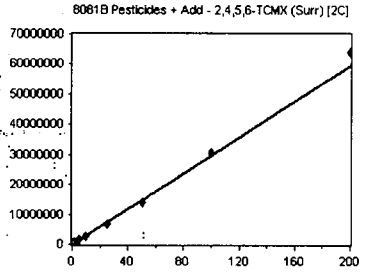


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	125233	250466.000	5.91
9L17040-CAL2	1	241374	241374.000	5.91
9L17040-CAL3	2	459108	229554.000	5.91
9L17040-CAL4	5	1182849	236569.800	5.91
9L17040-CAL5	10	2350656	235065.600	5.91
9L17040-CAL6	25	5936103	237444.100	5.91
9L17040-CAL7	50	1.186834E+07	237366.800	5.91
9L17040-CAL8	100	2.452452E+07	245245.200	5.91
9L17040-CAL9	200	4.949783E+07	247489.200	5.91

AVE RF **240063.900** RF RSD **2.77** AVE RT **5.91**

2,4,5,6-TCMX (Surr) [2C]

Curve Fit: **AVERAGE RF**

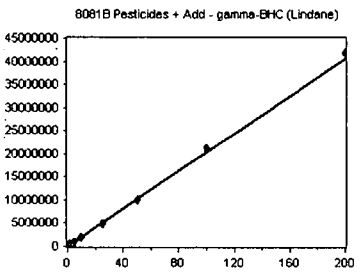


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	171805	343610.000	6.09
9L17040-CAL2	1	297799	297799.000	6.09
9L17040-CAL3	2	580590	290295.000	6.09
9L17040-CAL4	5	1374589	274917.800	6.09
9L17040-CAL5	10	2759992	275999.200	6.09
9L17040-CAL6	25	6986261	279450.400	6.09
9L17040-CAL7	50	1.417665E+07	283533.000	6.09
9L17040-CAL8	100	3.064062E+07	306406.200	6.09
9L17040-CAL9	200	6.39605E+07	319802.500	6.09

AVE RF **296868.100** RF RSD **7.76** AVE RT **6.09**

gamma-BHC (Lindane)

Curve Fit: **AVERAGE RF**

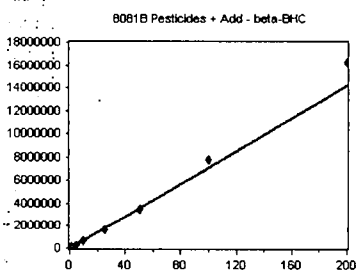


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	108992	217984.000	6.20
9L17040-CAL2	1	203908	203908.000	6.20
9L17040-CAL3	2	386286	193143.000	6.20
9L17040-CAL4	5	989578	197915.600	6.20
9L17040-CAL5	10	1981782	198178.200	6.20
9L17040-CAL6	25	4954608	198184.300	6.20
9L17040-CAL7	50	1.005783E+07	201156.600	6.20
9L17040-CAL8	100	2.108058E+07	210805.800	6.20
9L17040-CAL9	200	4.179306E+07	208965.300	6.20

AVE RF **203360.100** RF RSD **3.86** AVE RT **6.20**

beta-BHC

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	38904	77808.000	6.28
9L17040-CAL2	1	70020	70020.000	6.28
9L17040-CAL3	2	131691	65845.500	6.28
9L17040-CAL4	5	319479	63895.800	6.28
9L17040-CAL5	10	643167	64316.700	6.27
9L17040-CAL6	25	1669971	66798.840	6.28
9L17040-CAL7	50	3539897	70797.940	6.27
9L17040-CAL8	100	7741430	77414.300	6.27
9L17040-CAL9	200	1.624434E+07	81221.700	6.27

AVE RF **70902.090** RF RSD **9.09** AVE RT **6.27**

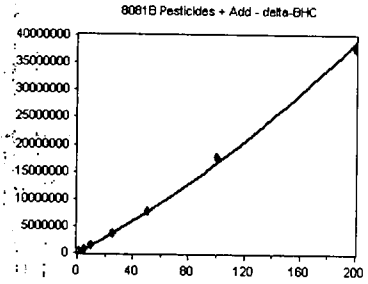
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

delta-BHC

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

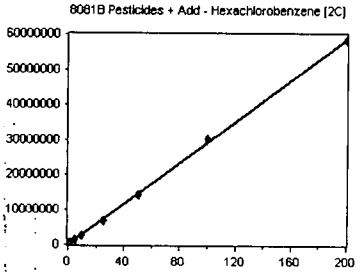


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	76349	152698.000	6.43
9L17040-CAL2	1	135318	135318.000	6.43
9L17040-CAL3	2	266215	133107.500	6.43
9L17040-CAL4	5	674132	134826.400	6.43
9L17040-CAL5	10	1417249	141724.900	6.42
9L17040-CAL6	25	3749624	149985.000	6.43
9L17040-CAL7	50	7754511	155090.200	6.42
9L17040-CAL8	100	1.767406E+07	176740.600	6.42
9L17040-CAL9	200	3.753958E+07	187697.900	6.42

AVE RF **151909.800** RF RSD **12.61** AVE RT **6.42**

Hexachlorobenzene [2C]

Curve Fit: **AVERAGE RF**

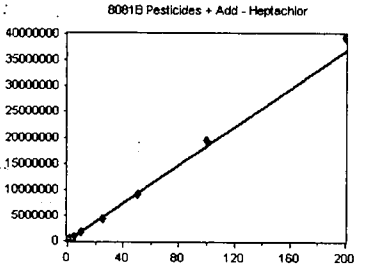


Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	168053	336106.000	6.56
9L17040-CALB	1	316745	316745.000	6.56
9L17040-CALC	2	576454	288227.000	6.56
9L17040-CALD	5	1385505	277101.000	6.56
9L17040-CALE	10	2728461	272846.100	6.56
9L17040-CALF	25	6751641	270065.600	6.56
9L17040-CALG	50	1.41375E+07	282750.000	6.56
9L17040-CALH	100	3.01231E+07	301231.000	6.56
9L17040-CALI	200	5.842167E+07	292108.400	6.56

AVE RF **293020.000** RF RSD **7.44** AVE RT **6.56**

Heptachlor

Curve Fit: **AVERAGE RF**

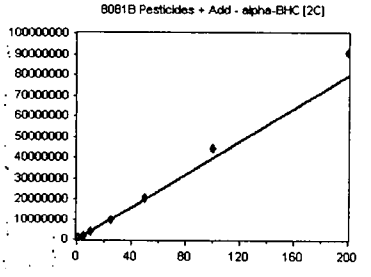


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	102001	204002.000	6.61
9L17040-CAL2	1	181225	181225.000	6.61
9L17040-CAL3	2	342809	171404.500	6.61
9L17040-CAL4	5	896908	179381.600	6.61
9L17040-CAL5	10	1717256	171725.600	6.60
9L17040-CAL6	25	4364591	174583.600	6.61
9L17040-CAL7	50	9059429	181188.600	6.61
9L17040-CAL8	100	1.942223E+07	194222.300	6.60
9L17040-CAL9	200	3.940138E+07	197006.900	6.61

AVE RF **183860.000** RF RSD **6.40** AVE RT **6.61**

alpha-BHC [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	196651	393302.000	6.70
9L17040-CAL2	1	375078	375078.000	6.70
9L17040-CAL3	2	719006	359503.000	6.70
9L17040-CAL4	5	1877429	375485.800	6.70
9L17040-CAL5	10	3830771	383077.100	6.70
9L17040-CAL6	25	9864465	394578.600	6.70
9L17040-CAL7	50	2.027439E+07	405487.800	6.70
9L17040-CAL8	100	4.406816E+07	440681.600	6.70
9L17040-CAL9	200	9.086355E+07	454317.800	6.70

AVE RF **397945.700** RF RSD **7.86** AVE RT **6.70**

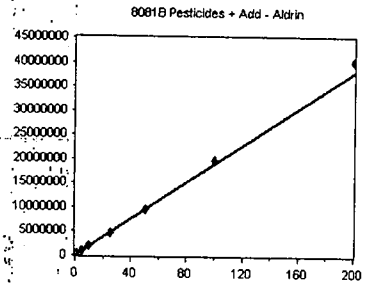
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Aldrin

Curve Fit: **AVERAGE RF**

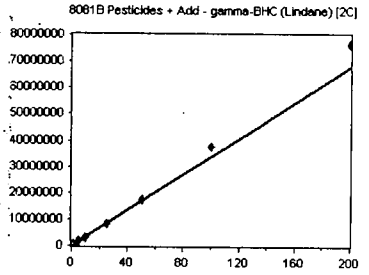


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	96511	193022.000	6.85
9L17040-CAL2	1	189147	189147.000	6.85
9L17040-CAL3	2	362515	181257.500	6.85
9L17040-CAL4	5	914719	182943.800	6.85
9L17040-CAL5	10	1862536	186253.600	6.85
9L17040-CAL6	25	4690741	187629.600	6.85
9L17040-CAL7	50	9536334	190726.700	6.85
9L17040-CAL8	100	1.972451E+07	197245.100	6.85
9L17040-CAL9	200	4.015656E+07	200782.800	6.85

AVE RF **189889.800** RF RSD **3.36** AVE RT **6.85**

gamma-BHC (Lindane) [2C]

Curve Fit: **AVERAGE RF**

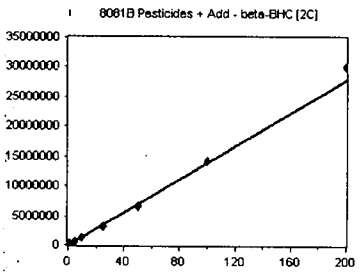


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	173094	346188.000	7.02
9L17040-CAL2	1	323532	323532.000	7.02
9L17040-CAL3	2	613703	306851.500	7.02
9L17040-CAL4	5	1589909	317981.800	7.02
9L17040-CAL5	10	3170788	317078.800	7.02
9L17040-CAL6	25	8310977	332439.100	7.02
9L17040-CAL7	50	1.732081E+07	346416.200	7.02
9L17040-CAL8	100	3.744417E+07	374441.700	7.02
9L17040-CAL9	200	7.65291E+07	382645.500	7.02

AVE RF **338619.400** RF RSD **7.75** AVE RT **7.02**

beta-BHC [2C]

Curve Fit: **AVERAGE RF**

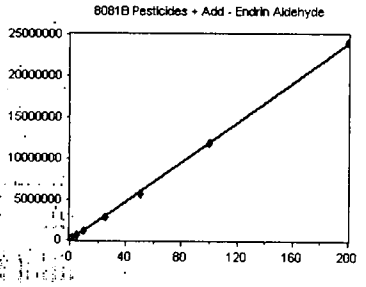


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	81389	162778.000	7.09
9L17040-CAL2	1	143775	143775.000	7.09
9L17040-CAL3	2	266326	133163.000	7.09
9L17040-CAL4	5	642581	128516.200	7.09
9L17040-CAL5	10	1261615	126161.500	7.08
9L17040-CAL6	25	3210892	128435.700	7.09
9L17040-CAL7	50	6647192	132943.800	7.08
9L17040-CAL8	100	1.414501E+07	141450.100	7.08
9L17040-CAL9	200	3.000442E+07	150022.100	7.08

AVE RF **138582.800** RF RSD **8.73** AVE RT **7.08**

Endrin Aldehyde

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
~~9L17040-CAL1~~	~~0.5~~	~~130680~~	~~261360.000~~	~~8.39~~
~~9L17040-CAL2~~	~~1~~	~~222466~~	~~222466.000~~	~~8.39~~
9L17040-CAL3	2	276999	138499.500	8.39
9L17040-CAL4	5	587378	117475.600	8.39
9L17040-CAL5	10	1135948	113594.800	8.39
9L17040-CAL6	25	2863649	114546.000	8.39
9L17040-CAL7	50	5674743	113494.900	8.38
9L17040-CAL8	100	1.186863E+07	118686.300	8.38
9L17040-CAL9	200	2.4094E+07	120470.000	0.00

AVE RF **119538.100** RF RSD **7.34** AVE RT **7.19**

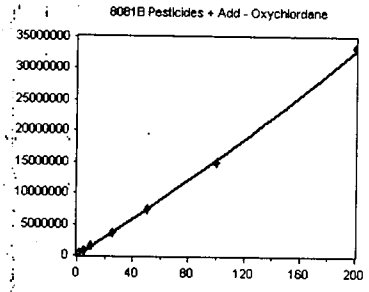
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Oxychlordane

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

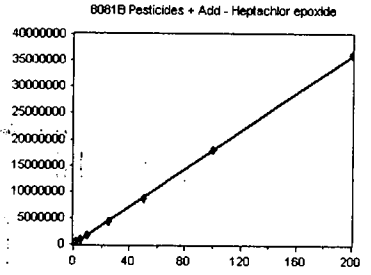


Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	95907	191814.000	7.24
9L17040-CALB	1	176361	176361.000	7.24
9L17040-CALC	2	316566	158283.000	7.24
9L17040-CALD	5	735392	147078.400	7.23
9L17040-CALE	10	1457065	145706.500	7.24
9L17040-CALF	25	3515520	140620.800	7.24
9L17040-CALG	50	7401813	148036.300	7.24
9L17040-CALH	100	1.486471E+07	148647.100	7.24
9L17040-CALI	200	3.34235E+07	167117.500	7.23

AVE RF **158185.000** RF RSD **10.77** AVE RT **7.24**

Heptachlor epoxide

Curve Fit: **AVERAGE RF**

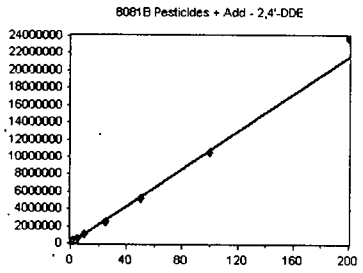


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	102358	204716.000	7.31
9L17040-CAL2	1	187437	187437.000	7.31
9L17040-CAL3	2	346704	173352.000	7.31
9L17040-CAL4	5	870850	174170.000	7.31
9L17040-CAL5	10	1748792	174879.200	7.31
9L17040-CAL6	25	4236498	169459.900	7.31
9L17040-CAL7	50	8647248	172945.000	7.31
9L17040-CAL8	100	1.792906E+07	179290.600	7.31
9L17040-CAL9	200	3.614514E+07	180725.700	7.31

AVE RF **179663.900** RF RSD **6.01** AVE RT **7.31**

2,4'-DDE

Curve Fit: **AVERAGE RF**

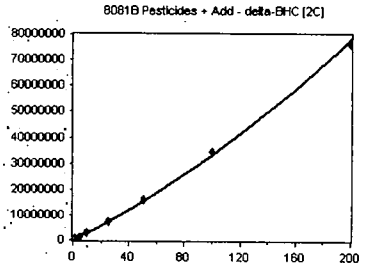


Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	60510	121020.000	7.32
9L17040-CALB	1	113603	113603.000	7.31
9L17040-CALC	2	213313	106656.500	7.31
9L17040-CALD	5	508879	101775.800	7.31
9L17040-CALE	10	1007610	100761.000	7.31
9L17040-CALF	25	2457675	98307.000	7.31
9L17040-CALG	50	5201688	104033.800	7.31
9L17040-CALH	100	1.055307E+07	105530.700	7.31
9L17040-CALI	200	2.373785E+07	118689.300	7.31

AVE RF **107819.700** RF RSD **7.50** AVE RT **7.31**

delta-BHC [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	156807	313614.000	7.34
9L17040-CAL2	1	286739	286739.000	7.34
9L17040-CAL3	2	536200	268100.000	7.34
9L17040-CAL4	5	1405767	281153.400	7.34
9L17040-CAL5	10	2891635	289163.500	7.34
9L17040-CAL6	25	7522457	300898.300	7.34
9L17040-CAL7	50	1.579085E+07	315817.000	7.34
9L17040-CAL8	100	3.477009E+07	347700.900	7.34
9L17040-CAL9	200	7.623937E+07	381196.800	7.34

AVE RF **309375.900** RF RSD **11.53** AVE RT **7.34**

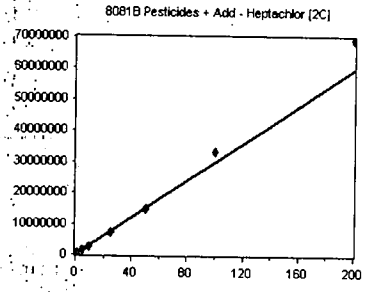
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Heptachlor [2C]

Curve Fit: **AVERAGE RF**

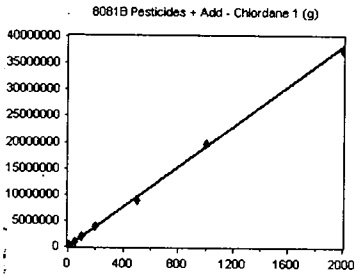


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	159363	318726.000	7.40
9L17040-CAL2	1	289003	289003.000	7.40
9L17040-CAL3	2	536465	268232.500	7.40
9L17040-CAL4	5	1382442	276488.400	7.40
9L17040-CAL5	10	2744140	274414.000	7.40
9L17040-CAL6	25	7265847	290633.900	7.40
9L17040-CAL7	50	1.484558E+07	296911.600	7.40
9L17040-CAL8	100	3.329265E+07	332926.500	7.40
9L17040-CAL9	200	6.907408E+07	345370.400	7.40

AVE RF **299189.600** RF RSD **9.09** AVE RT **7.40**

Chlordane 1 (g)

Curve Fit: **AVERAGE RF**

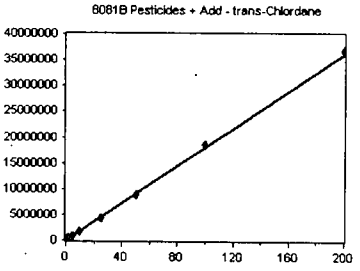


Standard	Concentration	Response	Response Factor	RT
9L17040-CALJ	10	206049	20604.900	7.40
9L17040-CALK	50	928206	18564.120	7.40
9L17040-CALL	100	1884275	18842.750	7.40
9L17040-CALM	200	3892694	19463.470	7.40
9L17040-CALN	500	8970761	17941.520	7.40
9L17040-CALO	1000	1.959902E+07	19599.020	7.40
9L17040-CALP	2000	3.746301E+07	18731.500	7.40

AVE RF **19106.760** RF RSD **4.52** AVE RT **7.40**

trans-Chlordane

Curve Fit: **AVERAGE RF**

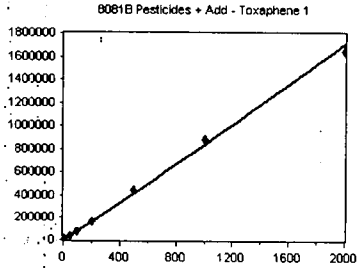


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	100665	201330.000	7.41
9L17040-CAL2	1	185492	185492.000	7.41
9L17040-CAL3	2	346350	173175.000	7.41
9L17040-CAL4	5	854340	170868.000	7.40
9L17040-CAL5	10	1699960	169996.000	7.40
9L17040-CAL6	25	4360278	174411.100	7.41
9L17040-CAL7	50	8893103	177862.100	7.40
9L17040-CAL8	100	1.853231E+07	185323.100	7.40
9L17040-CAL9	200	3.682927E+07	184146.400	7.40

AVE RF **180289.300** RF RSD **5.53** AVE RT **7.40**

Toxaphene 1

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
9L17040-CALQ	10	10763	1076.300	7.48
9L17040-CALR	50	43186	863.720	7.48
9L17040-CALS	100	80067	800.670	7.48
9L17040-CALT	200	164218	821.090	7.48
9L17040-CALU	500	446153	892.306	7.48
9L17040-CALV	1000	884818	884.818	7.48
9L17040-CALW	2000	1645664	822.832	7.48

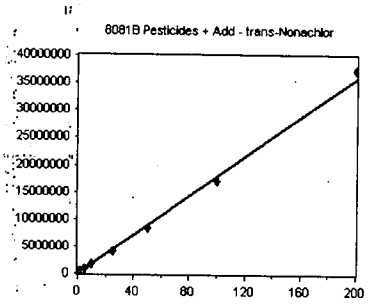
AVE RF **880.248** RF RSD **10.58** AVE RT **7.48**

Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

trans-Nonachlor

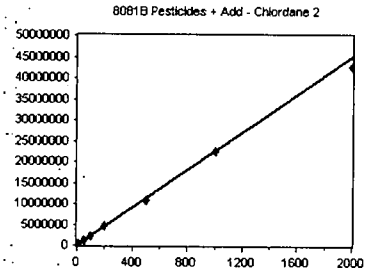


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	106883	213766.000	7.49
9L17040-CALB	1	198603	198603.000	7.49
9L17040-CALC	2	359472	179736.000	7.49
9L17040-CALD	5	840623	168124.600	7.49
9L17040-CALE	10	1684656	168465.600	7.49
9L17040-CALF	25	4026377	161055.100	7.49
9L17040-CALG	50	8501896	170037.900	7.49
9L17040-CALH	100	1.71268E+07	171268.000	7.49
9L17040-CALI	200	3.73418E+07	186709.000	7.49

AVE RF **179751.700** RF RSD **9.51** AVE RT **7.49**

Chlordane 2

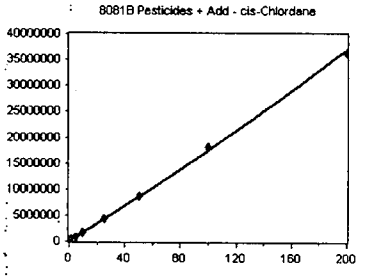


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L17040-CALJ	10	253603	25360.300	7.50
9L17040-CALK	50	1111415	22228.300	7.50
9L17040-CALL	100	2229615	22296.150	7.50
9L17040-CALM	200	4557171	22785.860	7.50
9L17040-CALN	500	1.068003E+07	21360.060	7.50
9L17040-CALO	1000	2.230533E+07	22305.330	7.50
9L17040-CALP	2000	4.272614E+07	21363.070	7.50

AVE RF **22528.440** RF RSD **6.01** AVE RT **7.50**

cis-Chlordane

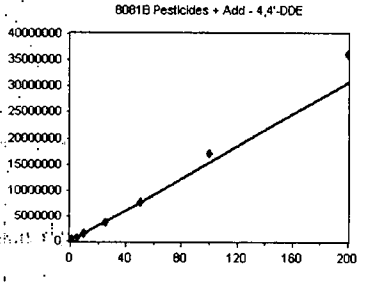


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	115491	230982.000	7.50
9L17040-CAL2	1	193253	193253.000	7.50
9L17040-CAL3	2	352877	176438.500	7.50
9L17040-CAL4	5	858342	171668.400	7.50
9L17040-CAL5	10	1662015	166201.500	7.50
9L17040-CAL6	25	4326723	173068.900	7.50
9L17040-CAL7	50	8733660	174673.200	7.50
9L17040-CAL8	100	1.811463E+07	181146.300	7.50
9L17040-CAL9	200	3.627536E+07	181376.800	7.50

AVE RF **183201.000** RF RSD **10.63** AVE RT **7.50**

4,4'-DDE



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	81063	162126.000	7.57
9L17040-CAL2	1	146606	146606.000	7.57
9L17040-CAL3	2	275625	137812.500	7.57
9L17040-CAL4	5	693169	138633.800	7.57
9L17040-CAL5	10	1421662	142166.200	7.57
9L17040-CAL6	25	3722284	148891.400	7.57
9L17040-CAL7	50	7777850	155557.000	7.56
9L17040-CAL8	100	1.704082E+07	170408.200	7.56
9L17040-CAL9	200	3.61068E+07	180534.000	7.56

AVE RF **153637.200** RF RSD **9.65** AVE RT **7.57**

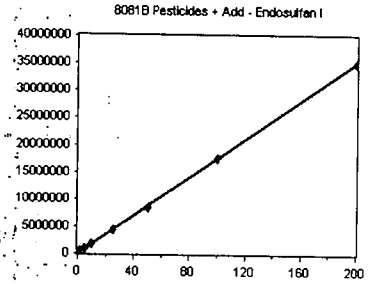
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Endosulfan I

Curve Fit: **AVERAGE RF**

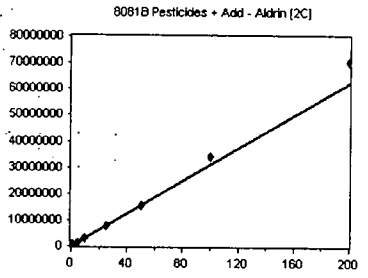


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	98359	196718.000	7.60
9L17040-CAL2	1	185825	185825.000	7.60
9L17040-CAL3	2	338273	169136.500	7.60
9L17040-CAL4	5	860009	172001.800	7.60
9L17040-CAL5	10	1675334	167533.400	7.60
9L17040-CAL6	25	4267974	170719.000	7.60
9L17040-CAL7	50	8514085	170281.700	7.60
9L17040-CAL8	100	1.748348E+07	174834.800	7.60
9L17040-CAL9	200	3.492597E+07	174629.800	7.60

AVE RF **175742.200** RF RSD **5.41** AVE RT **7.60**

Aldrin [2C]

Curve Fit: **AVERAGE RF**

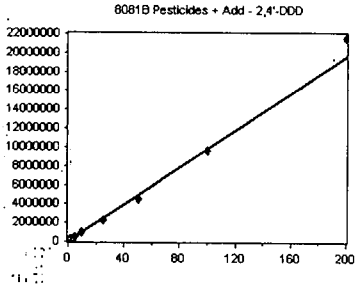


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	154419	308838.000	7.67
9L17040-CAL2	1	299925	299925.000	7.67
9L17040-CAL3	2	569789	284894.500	7.67
9L17040-CAL4	5	1467413	293482.600	7.67
9L17040-CAL5	10	2936331	293633.100	7.67
9L17040-CAL6	25	7574380	302975.200	7.67
9L17040-CAL7	50	1.577912E+07	315582.400	7.67
9L17040-CAL8	100	3.399544E+07	339954.400	7.67
9L17040-CAL9	200	7.064613E+07	353230.600	7.67

AVE RF **310279.500** RF RSD **7.31** AVE RT **7.67**

2,4'-DDD

Curve Fit: **AVERAGE RF**

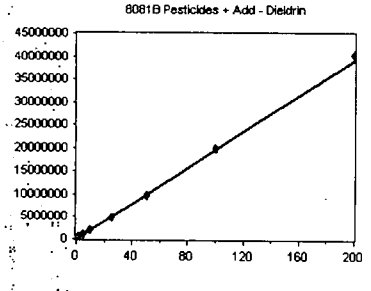


Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	56916	113832.000	7.69
9L17040-CALB	1	105189	105189.000	7.69
9L17040-CALC	2	193713	96856.500	7.69
9L17040-CALD	5	469389	93877.800	7.69
9L17040-CALE	10	924430	92443.000	7.69
9L17040-CALF	25	2201661	88066.440	7.69
9L17040-CALG	50	4566109	91322.180	7.69
9L17040-CALH	100	9588674	95886.740	7.69
9L17040-CALI	200	2.148916E+07	107445.800	7.68

AVE RF **98324.380** RF RSD **8.72** AVE RT **7.69**

Dieldrin

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	108462	216924.000	7.77
9L17040-CAL2	1	197836	197836.000	7.77
9L17040-CAL3	2	377531	188765.500	7.77
9L17040-CAL4	5	937319	187463.800	7.77
9L17040-CAL5	10	1881171	188117.100	7.77
9L17040-CAL6	25	4824660	192986.400	7.77
9L17040-CAL7	50	9670712	193414.200	7.77
9L17040-CAL8	100	1.99729E+07	199729.000	7.77
9L17040-CAL9	200	4.026024E+07	201301.200	7.77

AVE RF **196281.900** RF RSD **4.72** AVE RT **7.77**

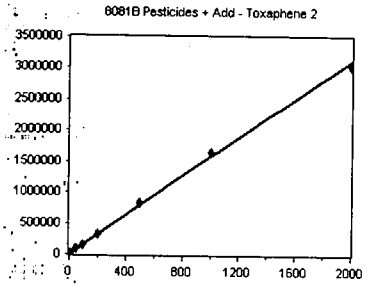
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Toxaphene 2

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

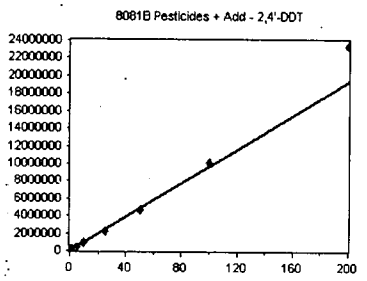


Standard	Concentration	Response	Response Factor	RT
9L17040-CALQ	10	21788	2178.800	7.77
9L17040-CALR	50	86970	1739.400	7.77
9L17040-CALS	100	157767	1577.670	7.77
9L17040-CALT	200	313963	1569.815	7.77
9L17040-CALU	500	834152	1668.304	7.77
9L17040-CALV	1000	1653145	1653.145	7.77
9L17040-CALW	2000	3028486	1514.243	7.77

AVE RF **1700.197** RF RSD **13.16** AVE RT **7.77**

2,4'-DDT

Curve Fit: **AVERAGE RF**

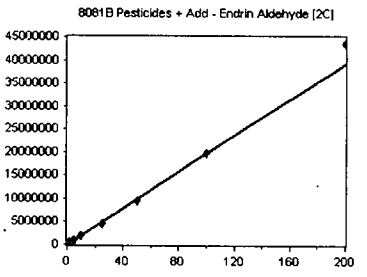


Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	50574	101148.000	7.87
9L17040-CALB	1	95238	95238.000	7.87
9L17040-CALC	2	186867	93433.500	7.87
9L17040-CALD	5	436892	87378.400	7.87
9L17040-CALE	10	940746	94074.600	7.87
9L17040-CALF	25	2187224	87488.960	7.87
9L17040-CALG	50	4703486	94069.720	7.87
9L17040-CALH	100	1.013987E+07	101398.700	7.87
9L17040-CALI	200	2.332281E+07	116614.000	7.87

AVE RF **96760.440** RF RSD **9.22** AVE RT **7.87**

Endrin Aldehyde [2C]

Curve Fit: **AVERAGE RF**

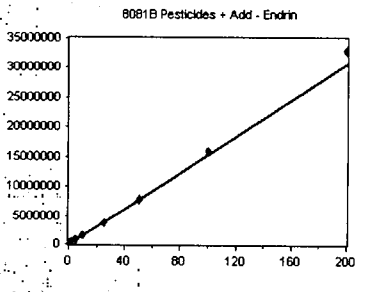


Standard	Concentration	Response	Response Factor	RT
~~9L17040-CAL1~~	~~0.5~~	~~199842~~	~~399684.000~~	~~9.23~~
~~9L17040-CAL2~~	~~1~~	~~348248~~	~~348248.000~~	~~9.23~~
9L17040-CAL3	2	419673	209836.500	9.23
9L17040-CAL4	5	953401	190680.200	9.23
9L17040-CAL5	10	1835183	183518.300	9.23
9L17040-CAL6	25	4660864	186434.600	9.23
9L17040-CAL7	50	9436227	188724.500	9.23
9L17040-CAL8	100	1.967384E+07	196738.400	9.23
9L17040-CAL9	200	4.363159E+07	218158.000	0.00

AVE RF **196298.600** RF RSD **6.61** AVE RT **7.91**

Endrin

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	84320	168640.000	7.94
9L17040-CAL2	1	148336	148336.000	7.94
9L17040-CAL3	2	284266	142133.000	7.94
9L17040-CAL4	5	724200	144840.000	7.94
9L17040-CAL5	10	1441333	144133.300	7.94
9L17040-CAL6	25	3735781	149431.200	7.94
9L17040-CAL7	50	7708910	154178.200	7.94
9L17040-CAL8	100	1.58658E+07	158658.000	7.94
9L17040-CAL9	200	3.293888E+07	164694.400	7.93

AVE RF **152782.700** RF RSD **6.18** AVE RT **7.94**

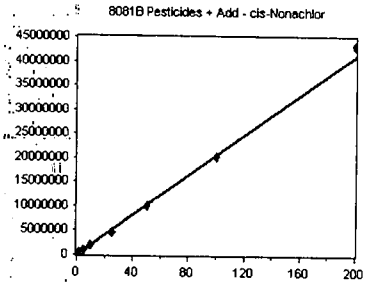
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

cis-Nonachlor

Curve Fit: **AVERAGE RF**

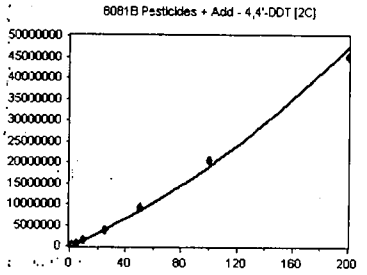


Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	116267	232534.000	7.96
9L17040-CALB	1	220253	220253.000	7.96
9L17040-CALC	2	411349	205674.500	7.96
9L17040-CALD	5	980127	196025.400	7.96
9L17040-CALE	10	1943329	194332.900	7.96
9L17040-CALF	25	4695232	187809.300	7.96
9L17040-CALG	50	9880544	197610.900	7.96
9L17040-CALH	100	2.022494E+07	202249.400	7.96
9L17040-CALI	200	4.335973E+07	216798.600	7.96

AVE RF **205920.900** RF RSD **7.03** AVE RT **7.96**

4,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

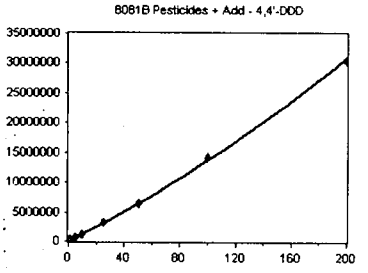


Standard	Concentration	Response	Response Factor	RT
~~9L17040-CAL1~~	~~0.5~~	~~77719~~	~~155438.000~~	~~9.11~~
9L17040-CAL2	1	120042	120042.000	9.11
9L17040-CAL3	2	241293	120646.500	9.11
9L17040-CAL4	5	660247	132049.400	9.11
9L17040-CAL5	10	1369041	136904.100	9.11
9L17040-CAL6	25	3840634	153625.400	9.11
9L17040-CAL7	50	9100039	182000.800	9.11
9L17040-CAL8	100	2.066259E+07	206625.900	9.11
9L17040-CAL9	200	4.52093E+07	226046.500	0.00

AVE RF **159742.600** RF RSD **25.40** AVE RT **7.97**

4,4'-DDD

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

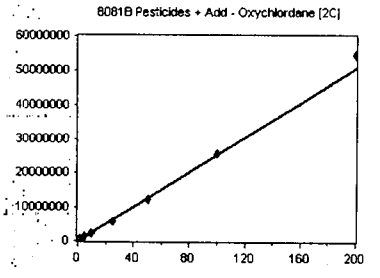


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	82379	164758.000	7.99
9L17040-CAL2	1	135077	135077.000	7.99
9L17040-CAL3	2	252316	126158.000	7.99
9L17040-CAL4	5	615909	123181.800	7.99
9L17040-CAL5	10	1208878	120887.800	7.99
9L17040-CAL6	25	3263714	130548.600	7.99
9L17040-CAL7	50	6499503	129990.100	7.99
9L17040-CAL8	100	1.414956E+07	141495.600	7.99
9L17040-CAL9	200	3.037914E+07	151895.700	7.98

AVE RF **135999.200** RF RSD **10.61** AVE RT **7.99**

Oxychlordane [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	146369	292738.000	8.04
9L17040-CALB	1	273521	273521.000	8.04
9L17040-CALC	2	491168	245584.000	8.04
9L17040-CALD	5	1164662	232932.400	8.04
9L17040-CALE	10	2290016	229001.600	8.04
9L17040-CALF	25	5691806	227672.200	8.04
9L17040-CALG	50	1.234195E+07	246839.000	8.04
9L17040-CALH	100	2.566381E+07	256638.100	8.04
9L17040-CALI	200	5.44092E+07	272046.000	8.04

AVE RF **252996.900** RF RSD **8.94** AVE RT **8.04**

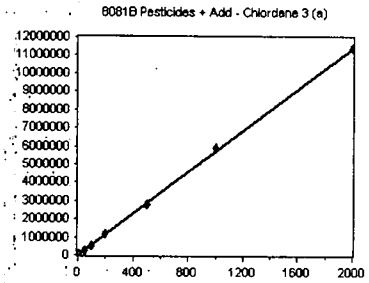
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Chlordane 3 (a)

Curve Fit: **AVERAGE RF**

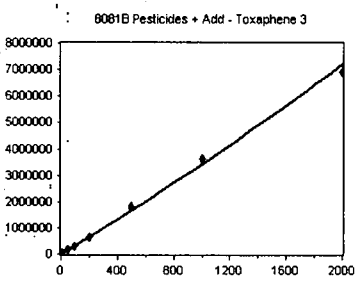


Standard	Concentration	Response	Response Factor	RT
9L17040-CALJ	10	60278	6027.800	8.05
9L17040-CALK	50	269437	5388.740	8.05
9L17040-CALL	100	547016	5470.160	8.05
9L17040-CALM	200	1182795	5913.975	8.05
9L17040-CALN	500	2782032	5564.064	8.05
9L17040-CALO	1000	5893931	5893.931	8.05
9L17040-CALP	2000	1.139489E+07	5697.445	8.05

AVE RF **5708.016** RF RSD **4.28** AVE RT **8.05**

Toxaphene 3

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

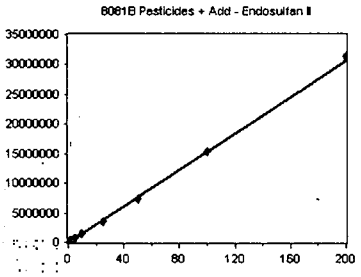


Standard	Concentration	Response	Response Factor	RT
9L17040-CALQ	10	42682	4268.200	8.09
9L17040-CALR	50	169447	3388.940	8.08
9L17040-CALS	100	312683	3126.830	8.08
9L17040-CALT	200	650087	3250.435	8.09
9L17040-CALU	500	1800554	3601.108	8.08
9L17040-CALV	1000	3651132	3651.132	8.08
9L17040-CALW	2000	6919306	3459.653	8.08

AVE RF **3535.185** RF RSD **10.52** AVE RT **8.08**

Endosulfan II

Curve Fit: **AVERAGE RF**

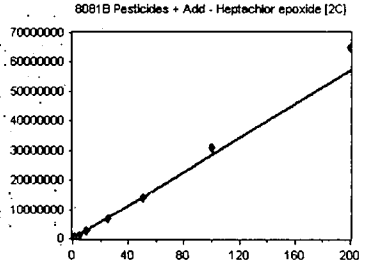


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	92837	185674.000	8.10
9L17040-CAL2	1	158465	158465.000	8.10
9L17040-CAL3	2	289510	144755.000	8.10
9L17040-CAL4	5	711439	142287.800	8.09
9L17040-CAL5	10	1439037	143903.700	8.09
9L17040-CAL6	25	3611428	144457.100	8.09
9L17040-CAL7	50	7288047	145760.900	8.09
9L17040-CAL8	100	1.526124E+07	152612.400	8.09
9L17040-CAL9	200	3.143791E+07	157189.500	8.09

AVE RF **152789.500** RF RSD **8.98** AVE RT **8.09**

Heptachlor epoxide [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	153974	307948.000	8.11
9L17040-CAL2	1	281558	281558.000	8.11
9L17040-CAL3	2	532800	266400.000	8.11
9L17040-CAL4	5	1323228	264645.600	8.11
9L17040-CAL5	10	2700621	270062.100	8.11
9L17040-CAL6	25	6805140	272205.600	8.11
9L17040-CAL7	50	1.401706E+07	280341.200	8.11
9L17040-CAL8	100	3.092168E+07	309216.800	8.11
9L17040-CAL9	200	6.501387E+07	325069.400	8.11

AVE RF **286383.000** RF RSD **7.69** AVE RT **8.11**

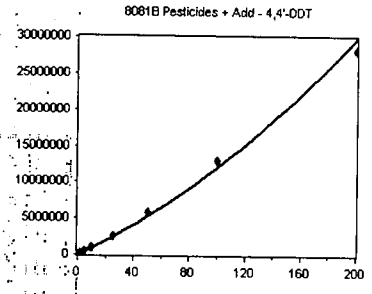
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

4,4'-DDT

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

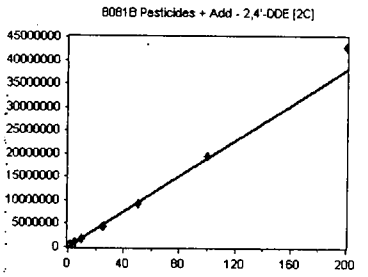


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	53357	106714.000	8.19
9L17040-CAL2	1	79677	79677.000	8.18
9L17040-CAL3	2	163361	81680.500	8.18
9L17040-CAL4	5	453915	90783.000	8.18
9L17040-CAL5	10	921208	92120.800	8.18
9L17040-CAL6	25	2612422	104496.900	8.18
9L17040-CAL7	50	5824163	116483.300	8.18
9L17040-CAL8	100	1.303201E+07	130320.100	8.18
9L17040-CAL9	200	2.824115E+07	141205.800	8.18

AVE RF **104831.300** RF RSD **20.35** AVE RT **8.18**

2,4'-DDE [2C]

Curve Fit: **AVERAGE RF**

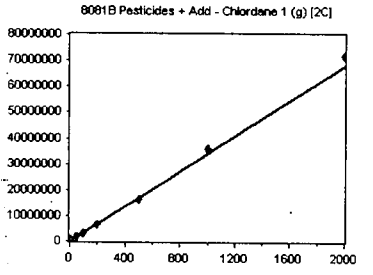


Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	105594	211188.000	8.24
9L17040-CALB	1	195287	195287.000	8.24
9L17040-CALC	2	367032	183516.000	8.24
9L17040-CALD	5	879058	175811.600	8.24
9L17040-CALE	10	1768686	176868.600	8.24
9L17040-CALF	25	4303889	172155.600	8.24
9L17040-CALG	50	9346495	186929.900	8.24
9L17040-CALH	100	1.956138E+07	195613.800	8.24
9L17040-CALI	200	4.284718E+07	214235.900	8.24

AVE RF **190178.500** RF RSD **7.97** AVE RT **8.24**

Chlordane 1 (g) [2C]

Curve Fit: **AVERAGE RF**

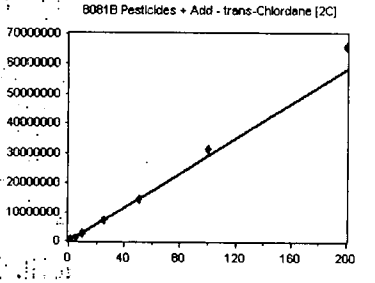


Standard	Concentration	Response	Response Factor	RT
9L17040-CALJ	10	358273	35827.300	8.25
9L17040-CALK	50	1586546	31730.920	8.25
9L17040-CALL	100	3216640	32166.400	8.25
9L17040-CALM	200	6685788	33428.940	8.25
9L17040-CALN	500	1.647833E+07	32956.660	8.25
9L17040-CALO	1000	3.579337E+07	35793.370	8.25
9L17040-CALP	2000	7.163304E+07	35816.520	8.25

AVE RF **33960.020** RF RSD **5.35** AVE RT **8.25**

trans-Chlordane [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	165086	330172.000	8.25
9L17040-CAL2	1	289448	289448.000	8.25
9L17040-CAL3	2	527678	263839.000	8.25
9L17040-CAL4	5	1323437	264687.400	8.25
9L17040-CAL5	10	2659413	265941.300	8.25
9L17040-CAL6	25	7018076	280723.000	8.25
9L17040-CAL7	50	1.443079E+07	288615.800	8.25
9L17040-CAL8	100	3.126507E+07	312650.700	8.25
9L17040-CAL9	200	6.582666E+07	329133.300	8.25

AVE RF **291690.100** RF RSD **9.09** AVE RT **8.25**

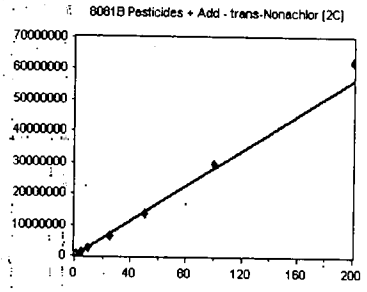
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

trans-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

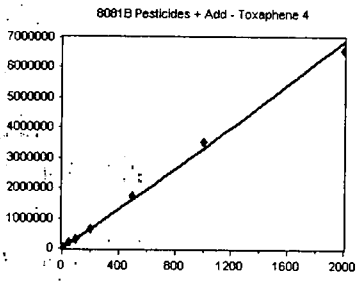


Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	158141	316282.000	8.31
9L17040-CALB	1	294049	294049.000	8.31
9L17040-CALC	2	535823	267911.500	8.31
9L17040-CALD	5	1309235	261847.000	8.31
9L17040-CALE	10	2581619	258161.900	8.31
9L17040-CALF	25	6464264	258570.600	8.31
9L17040-CALG	50	1.370658E+07	274131.600	8.31
9L17040-CALH	100	2.959263E+07	295926.300	8.31
9L17040-CALI	200	6.244866E+07	312243.300	8.31

AVE RF **282124.800** RF RSD **8.13** AVE RT **8.31**

Toxaphene 4

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

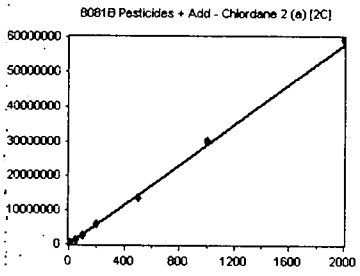


Standard	Concentration	Response	Response Factor	RT
9L17040-CALQ	10	51692	5169.200	8.32
9L17040-CALR	50	174601	3492.020	8.32
9L17040-CALS	100	311105	3111.050	8.32
9L17040-CALT	200	639287	3196.435	8.33
9L17040-CALU	500	1745633	3491.266	8.33
9L17040-CALV	1000	3518593	3518.593	8.32
9L17040-CALW	2000	6601320	3300.660	8.32

AVE RF **3611.318** RF RSD **19.53** AVE RT **8.32**

Chlordane 2 (a) [2C]

Curve Fit: **AVERAGE RF**

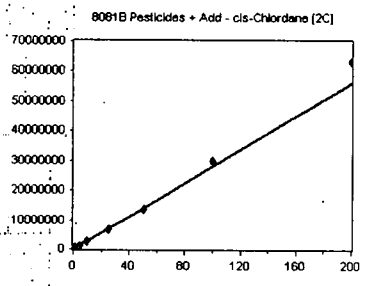


Standard	Concentration	Response	Response Factor	RT
9L17040-CALJ	10	313241	31324.100	8.36
9L17040-CALK	50	1343229	26864.580	8.36
9L17040-CALL	100	2736000	27360.000	8.35
9L17040-CALM	200	5847346	29236.730	8.35
9L17040-CALN	500	1.375251E+07	27505.020	8.36
9L17040-CALO	1000	3.017173E+07	30171.730	8.36
9L17040-CALP	2000	5.949153E+07	29745.760	8.36

AVE RF **28886.850** RF RSD **5.79** AVE RT **8.35**

cis-Chlordane [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	155479	310958.000	8.36
9L17040-CAL2	1	278558	278558.000	8.36
9L17040-CAL3	2	521577	260788.500	8.36
9L17040-CAL4	5	1299605	259921.000	8.36
9L17040-CAL5	10	2576710	257671.000	8.36
9L17040-CAL6	25	6704391	268175.600	8.36
9L17040-CAL7	50	1.378538E+07	275707.600	8.36
9L17040-CAL8	100	2.980722E+07	298072.200	8.36
9L17040-CAL9	200	6.319812E+07	315990.600	8.36

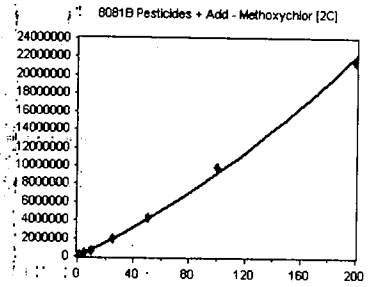
AVE RF **280649.200** RF RSD **7.98** AVE RT **8.36**

Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Methoxychlor [2C]

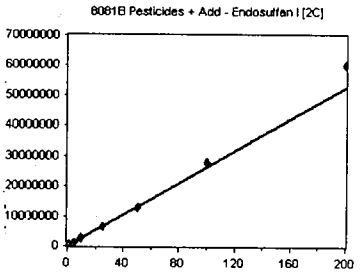


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~9L17040-CAL1~~	~~0.5~~	~~48768~~	~~97536.000~~	~~9.59~~
9L17040-CAL2	1	65371	65371.000	9.59
9L17040-CAL3	2	130584	65292.000	9.59
9L17040-CAL4	5	357925	71585.000	9.59
9L17040-CAL5	10	682302	68230.200	9.59
9L17040-CAL6	25	1949432	77977.280	9.59
9L17040-CAL7	50	4280365	85607.300	9.59
9L17040-CAL8	100	9837727	98377.270	9.58
9L17040-CAL9	200	2.139296E+07	106964.800	0.00

AVE RF **79925.610** RF RSD **19.73** AVE RT **8.39**

Endosulfan I [2C]

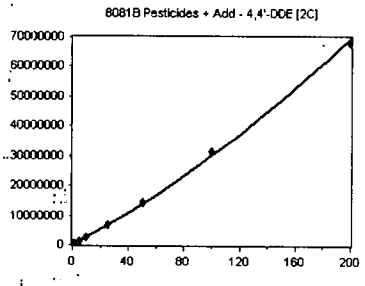


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	142563	285126.000	8.41
9L17040-CAL2	1	262580	262580.000	8.41
9L17040-CAL3	2	470630	235315.000	8.41
9L17040-CAL4	5	1213631	242726.200	8.41
9L17040-CAL5	10	2471513	247151.300	8.41
9L17040-CAL6	25	6311814	252472.600	8.41
9L17040-CAL7	50	1.295148E+07	259029.600	8.41
9L17040-CAL8	100	2.801178E+07	280117.800	8.41
9L17040-CAL9	200	6.020831E+07	301041.600	8.41

AVE RF **262840.000** RF RSD **8.28** AVE RT **8.41**

4,4'-DDE [2C]

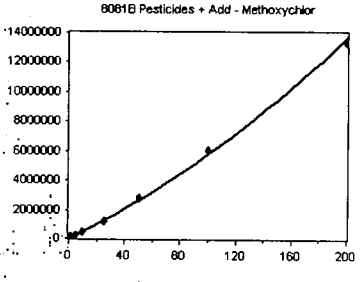


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	144252	288504.000	8.46
9L17040-CAL2	1	262707	262707.000	8.46
9L17040-CAL3	2	489498	244749.000	8.46
9L17040-CAL4	5	1255498	251099.600	8.46
9L17040-CAL5	10	2597057	259705.700	8.46
9L17040-CAL6	25	6834813	273392.500	8.46
9L17040-CAL7	50	1.431554E+07	286310.800	8.46
9L17040-CAL8	100	3.140015E+07	314001.500	8.46
9L17040-CAL9	200	6.779006E+07	338950.300	8.46

AVE RF **279935.600** RF RSD **10.99** AVE RT **8.46**

Methoxychlor



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~9L17040-CAL1~~	~~0.5~~	~~35313~~	~~70626.000~~	~~8.52~~
9L17040-CAL2	1	45321	45321.000	8.52
9L17040-CAL3	2	91580	45790.000	8.52
9L17040-CAL4	5	237393	47478.600	8.52
9L17040-CAL5	10	455886	45588.600	8.52
9L17040-CAL6	25	1237898	49515.920	8.52
9L17040-CAL7	50	2789794	55795.880	8.52
9L17040-CAL8	100	6044972	60449.720	8.52
9L17040-CAL9	200	1.332411E+07	66620.550	8.52

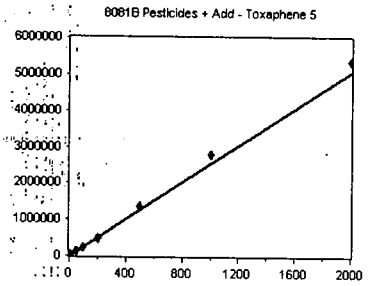
AVE RF **52070.030** RF RSD **15.41** AVE RT **8.52**

Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Toxaphene 5

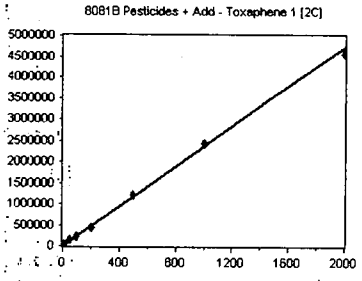


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L17040-CALQ	10	25387	2538.700	8.55
9L17040-CALR	50	120319	2406.380	8.55
9L17040-CALS	100	225090	2250.900	8.55
9L17040-CALT	200	479364	2396.820	8.56
9L17040-CALU	500	1349675	2699.350	8.55
9L17040-CALV	1000	2774676	2774.676	8.55
9L17040-CALW	2000	5336716	2668.358	8.55

AVE RF **2533.598** RF RSD **7.53** AVE RT **8.55**

Toxaphene 1 [2C]

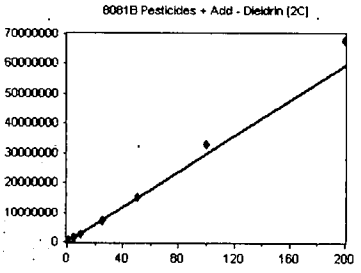


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L17040-CALQ	10	23414	2341.400	8.57
9L17040-CALR	50	128672	2573.440	8.57
9L17040-CALS	100	229034	2290.340	8.57
9L17040-CALT	200	444807	2224.035	8.57
9L17040-CALU	500	1215226	2430.452	8.57
9L17040-CALV	1000	2420092	2420.092	8.57
9L17040-CALW	2000	4565174	2282.587	8.57

AVE RF **2366.049** RF RSD **4.99** AVE RT **8.57**

Dieldrin [2C]

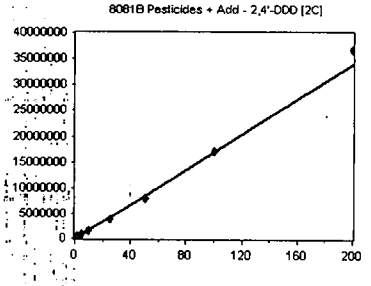


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	155520	311040.000	8.61
9L17040-CAL2	1	280575	280575.000	8.61
9L17040-CAL3	2	528006	264003.000	8.61
9L17040-CAL4	5	1369414	273882.800	8.61
9L17040-CAL5	10	2832469	283246.900	8.61
9L17040-CAL6	25	7347082	293883.300	8.61
9L17040-CAL7	50	1.498338E+07	299667.600	8.61
9L17040-CAL8	100	3.277473E+07	327747.300	8.61
9L17040-CAL9	200	6.787931E+07	339396.600	8.61

AVE RF **297049.200** RF RSD **8.45** AVE RT **8.61**

2,4'-DDD [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	100478	200956.000	8.62
9L17040-CALB	1	184058	184058.000	8.61
9L17040-CALC	2	332609	166304.500	8.61
9L17040-CALD	5	785110	157022.000	8.61
9L17040-CALE	10	1537306	153730.600	8.61
9L17040-CALF	25	3784610	151384.400	8.61
9L17040-CALG	50	7925871	158517.400	8.61
9L17040-CALH	100	1.699233E+07	169923.300	8.61
9L17040-CALI	200	3.678742E+07	183937.100	8.61

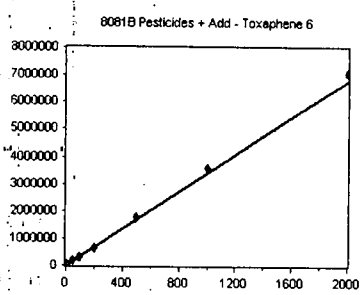
AVE RF **169537.000** RF RSD **9.94** AVE RT **8.61**

Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Toxaphene 6

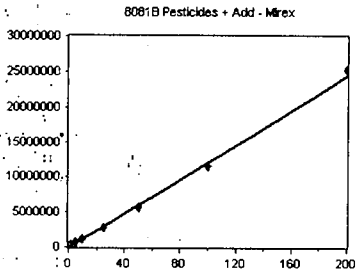


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
9L17040-CALQ	10	36879	3687.900	8.62
9L17040-CALR	50	164084	3281.680	8.62
9L17040-CALS	100	297316	2973.160	8.62
9L17040-CALT	200	648214	3241.070	8.62
9L17040-CALU	500	1757897	3515.794	8.62
9L17040-CALV	1000	3569596	3569.596	8.62
9L17040-CALW	2000	7071979	3535.990	8.62

AVE RF **3400.741** RF RSD **7.25** AVE RT **8.62**

Mirex

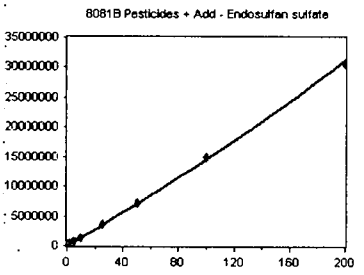


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	85238	170476.000	8.63
9L17040-CALB	1	158597	158597.000	8.63
9L17040-CALC	2	276752	138376.000	8.63
9L17040-CALD	5	627521	125504.200	8.63
9L17040-CALE	10	1213795	121379.500	8.63
9L17040-CALF	25	2800811	112032.400	8.63
9L17040-CALG	50	5720531	114410.600	8.63
9L17040-CALH	100	1.152146E+07	115214.600	8.63
9L17040-CALI	200	2.536725E+07	126836.300	8.63

AVE RF **131425.200** RF RSD **15.68** AVE RT **8.63**

Endosulfan sulfate

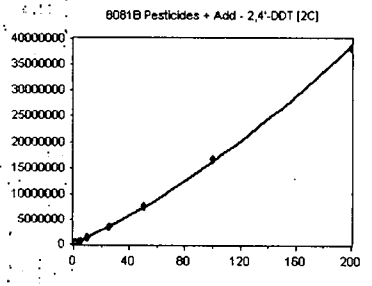


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	109906	219812.000	8.69
9L17040-CAL2	1	163328	163328.000	8.69
9L17040-CAL3	2	299968	149984.000	8.69
9L17040-CAL4	5	724874	144974.800	8.69
9L17040-CAL5	10	1414215	141421.500	8.69
9L17040-CAL6	25	3552392	142095.700	8.69
9L17040-CAL7	50	7195661	143913.200	8.69
9L17040-CAL8	100	1.499408E+07	149940.800	8.69
9L17040-CAL9	200	3.058017E+07	152900.800	8.69

AVE RF **156485.700** RF RSD **15.78** AVE RT **8.69**

2,4'-DDT [2C]



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	77757	155514.000	8.84
9L17040-CALB	1	144489	144489.000	8.84
9L17040-CALC	2	278769	139384.500	8.84
9L17040-CALD	5	659795	131959.000	8.84
9L17040-CALE	10	1365742	136574.200	8.84
9L17040-CALF	25	3405822	136232.900	8.84
9L17040-CALG	50	7477383	149547.700	8.84
9L17040-CALH	100	1.656004E+07	165600.400	8.84
9L17040-CALI	200	3.830902E+07	191545.100	8.84

AVE RF **150094.100** RF RSD **12.55** AVE RT **8.84**

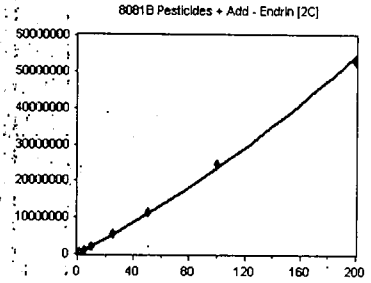
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Endrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

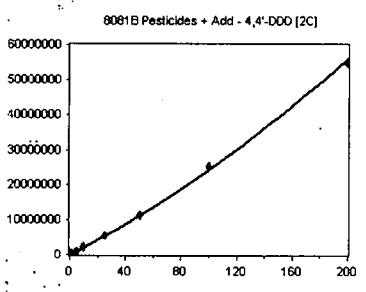


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	116310	232620.000	8.84
9L17040-CAL2	1	206050	206050.000	8.84
9L17040-CAL3	2	385254	192627.000	8.84
9L17040-CAL4	5	1017388	203477.600	8.84
9L17040-CAL5	10	2015224	201522.400	8.84
9L17040-CAL6	25	5413970	216558.800	8.84
9L17040-CAL7	50	1.125785E+07	225157.000	8.84
9L17040-CAL8	100	2.467344E+07	246734.400	8.84
9L17040-CAL9	200	5.285016E+07	264250.800	8.84

AVE RF **220999.800** RF RSD **10.64** AVE RT **8.84**

4,4'-DDD [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

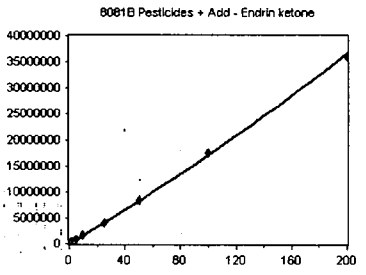


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	138945	277890.000	8.88
9L17040-CAL2	1	228308	228308.000	8.88
9L17040-CAL3	2	423022	211511.000	8.88
9L17040-CAL4	5	1057950	211590.000	8.88
9L17040-CAL5	10	2126589	212658.900	8.88
9L17040-CAL6	25	5518468	220738.700	8.88
9L17040-CAL7	50	1.14665E+07	229330.000	8.88
9L17040-CAL8	100	2.532488E+07	253248.800	8.88
9L17040-CAL9	200	5.46962E+07	273481.000	8.88

AVE RF **235417.400** RF RSD **11.17** AVE RT **8.88**

Endrin ketone

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

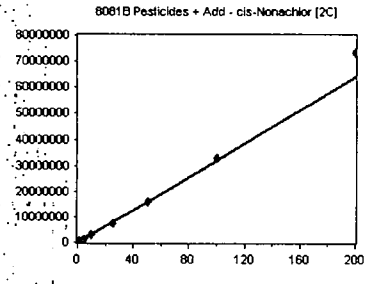


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	118883	237766.000	8.88
9L17040-CAL2	1	187610	187610.000	8.88
9L17040-CAL3	2	345442	172721.000	8.88
9L17040-CAL4	5	820034	164006.800	8.88
9L17040-CAL5	10	1653533	165353.300	8.88
9L17040-CAL6	25	4148947	165957.900	8.88
9L17040-CAL7	50	8447896	168957.900	8.88
9L17040-CAL8	100	1.754614E+07	175461.400	8.88
9L17040-CAL9	200	3.612099E+07	180605.000	8.88

AVE RF **179826.600** RF RSD **12.83** AVE RT **8.88**

cis-Nonachlor [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	185621	371242.000	8.88
9L17040-CALB	1	320665	320665.000	8.88
9L17040-CALC	2	603233	301616.500	8.88
9L17040-CALD	5	1430117	286023.400	8.88
9L17040-CALE	10	2995888	299588.800	8.88
9L17040-CALF	25	7295470	291818.800	8.88
9L17040-CALG	50	1.588964E+07	317792.800	8.88
9L17040-CALH	100	3.26616E+07	326616.000	8.88
9L17040-CALI	200	7.330338E+07	366516.900	8.88

AVE RF **320208.900** RF RSD **9.59** AVE RT **8.88**

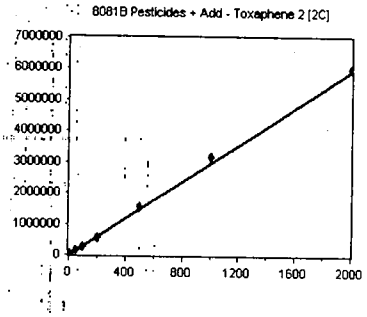
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Toxaphene 2 [2C]

Curve Fit: **AVERAGE RF**

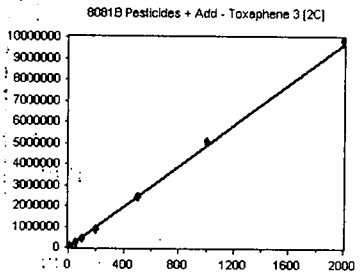


Standard	Concentration	Response	Response Factor	RT
9L17040-CALQ	10	29649	2964.900	8.93
9L17040-CALR	50	147486	2949.720	8.93
9L17040-CALS	100	275229	2752.290	8.93
9L17040-CALT	200	558833	2794.165	8.94
9L17040-CALU	500	1537752	3075.504	8.94
9L17040-CALV	1000	3182543	3182.543	8.93
9L17040-CALW	2000	6027412	3013.706	8.93

AVE RF **2961.833** RF RSD **5.09** AVE RT **8.93**

Toxaphene 3 [2C]

Curve Fit: **AVERAGE RF**

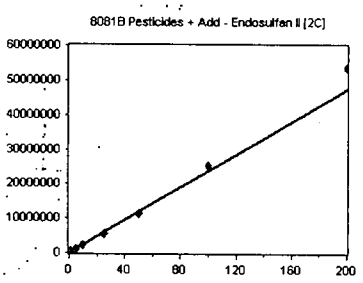


Standard	Concentration	Response	Response Factor	RT
9L17040-CALQ	10	55881	5588.100	8.97
9L17040-CALR	50	237276	4745.520	8.97
9L17040-CALS	100	428254	4282.540	8.97
9L17040-CALT	200	886273	4431.365	8.97
9L17040-CALU	500	2437265	4874.530	8.97
9L17040-CALV	1000	5086202	5086.202	8.97
9L17040-CALW	2000	9828700	4914.350	8.97

AVE RF **4846.087** RF RSD **8.89** AVE RT **8.97**

Endosulfan II [2C]

Curve Fit: **AVERAGE RF**

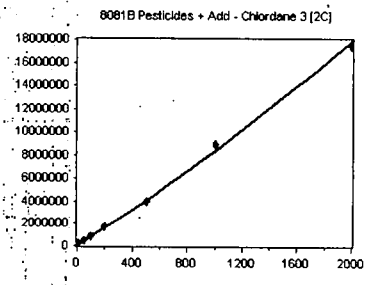


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	136257	272514.000	8.99
9L17040-CAL2	1	232669	232669.000	8.99
9L17040-CAL3	2	443878	221939.000	8.99
9L17040-CAL4	5	1076068	215213.600	8.99
9L17040-CAL5	10	2161513	216151.300	8.99
9L17040-CAL6	25	5536790	221471.600	8.99
9L17040-CAL7	50	1.149351E+07	229870.200	8.99
9L17040-CAL8	100	2.52637E+07	252637.000	8.99
9L17040-CAL9	200	5.365688E+07	268284.400	8.99

AVE RF **236750.000** RF RSD **9.36** AVE RT **8.99**

Chlordane 3 [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
9L17040-CALJ	10	184378	18437.800	9.02
9L17040-CALK	50	473594	9471.880	9.02
9L17040-CALL	100	867697	8676.970	9.02
9L17040-CALM	200	1763526	8817.630	9.02
9L17040-CALN	500	3999854	7999.708	9.02
9L17040-CALO	1000	8914072	8914.072	9.02
9L17040-CALP	2000	1.743518E+07	8717.590	9.02

AVE RF **10147.950** RF RSD **36.27** AVE RT **9.02**

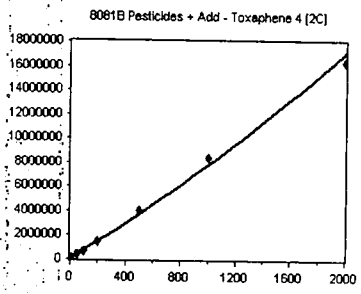
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Toxaphene 4 [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

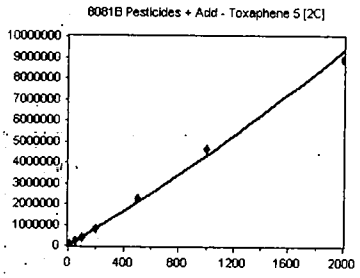


Standard	Concentration	Response	Response Factor	RT
9L17040-CALQ	10	129540	12954.000	9.03
9L17040-CALR	50	398861	7977.220	9.04
9L17040-CALS	100	706770	7067.700	9.04
9L17040-CALT	200	1426570	7132.850	9.04
9L17040-CALU	500	4002260	8004.520	9.04
9L17040-CALV	1000	8372957	8372.957	9.04
9L17040-CALW	2000	1.629738E+07	8148.690	9.04

AVE RF **8522.562** RF RSD **23.67** AVE RT **9.04**

Toxaphene 5 [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

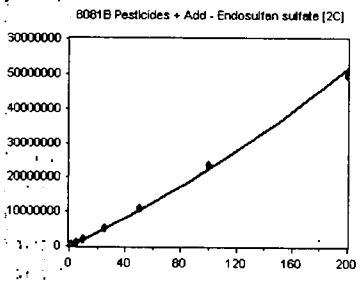


Standard	Concentration	Response	Response Factor	RT
9L17040-CALQ	10	53623	5362.300	9.22
9L17040-CALR	50	211169	4223.380	9.22
9L17040-CALS	100	389038	3890.380	9.21
9L17040-CALT	200	801152	4005.760	9.22
9L17040-CALU	500	2247085	4494.170	9.22
9L17040-CALV	1000	4626107	4626.107	9.21
9L17040-CALW	2000	8935197	4467.599	9.22

AVE RF **4438.528** RF RSD **10.99** AVE RT **9.22**

Endosulfan sulfate [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

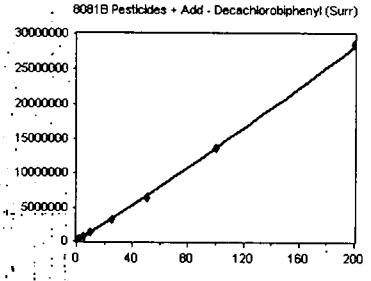


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	153851	307702.000	9.42
9L17040-CAL2	1	229780	229780.000	9.42
9L17040-CAL3	2	404451	202225.500	9.42
9L17040-CAL4	5	999583	199916.600	9.42
9L17040-CAL5	10	1981311	198131.100	9.42
9L17040-CAL6	25	5155901	206236.000	9.42
9L17040-CAL7	50	1.096169E+07	219233.800	9.42
9L17040-CAL8	100	2.360043E+07	236004.300	9.42
9L17040-CAL9	200	4.96649E+07	248324.500	9.42

AVE RF **227506.000** RF RSD **15.33** AVE RT **9.42**

Decachlorobiphenyl (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	92475	184950.000	9.58
9L17040-CAL2	1	166387	166387.000	9.58
9L17040-CAL3	2	302818	151409.000	9.58
9L17040-CAL4	5	693262	138652.400	9.58
9L17040-CAL5	10	1335922	133592.200	9.58
9L17040-CAL6	25	3306397	132255.900	9.58
9L17040-CAL7	50	6524046	130480.900	9.58
9L17040-CAL8	100	1.368167E+07	136816.700	9.58
9L17040-CAL9	200	2.847002E+07	142350.100	9.58

AVE RF **146321.600** RF RSD **12.55** AVE RT **9.58**

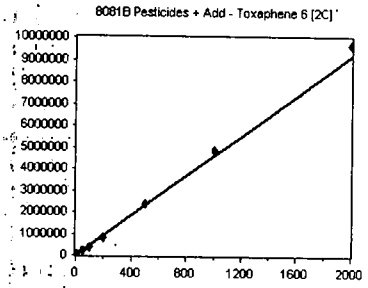
Element Calibration Review Sheet

Calibration ID: **A9L1807** Instrument: **DUALECD5** Calibration Date: **12/18/2019**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_19121**

Toxaphene 6 [2C]

Curve Fit: **AVERAGE RF**

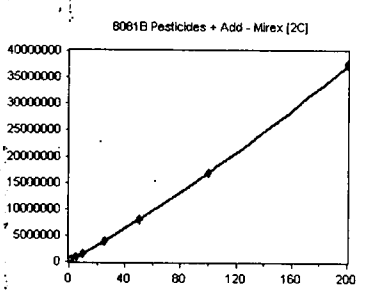


Standard	Concentration	Response	Response Factor	RT
9L17040-CALQ	10	50601	5060.100	9.60
9L17040-CALR	50	219274	4385.480	9.60
9L17040-CALS	100	401640	4016.400	9.60
9L17040-CALT	200	831435	4157.175	9.60
9L17040-CALU	500	2386841	4773.682	9.60
9L17040-CALV	1000	4862614	4862.614	9.60
9L17040-CALW	2000	9688653	4844.327	9.60

AVE RF **4585.683** RF RSD **8.69** AVE RT **9.60**

Mirex [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

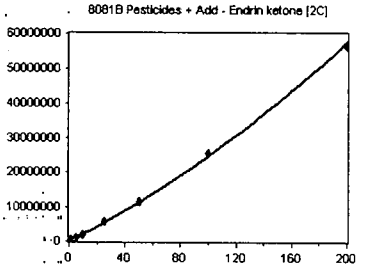


Standard	Concentration	Response	Response Factor	RT
9L17040-CALA	0.5	131195	262390.000	9.82
9L17040-CALB	1	208028	208028.000	9.82
9L17040-CALC	2	367611	183805.500	9.82
9L17040-CALD	5	816726	163345.200	9.82
9L17040-CALE	10	1599749	159974.900	9.82
9L17040-CALF	25	3813757	152550.300	9.82
9L17040-CALG	50	7933700	158674.000	9.82
9L17040-CALH	100	1.68947E+07	168947.000	9.82
9L17040-CALI	200	3.761402E+07	188070.100	9.82

AVE RF **182865.000** RF RSD **18.93** AVE RT **9.82**

Endrin ketone [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

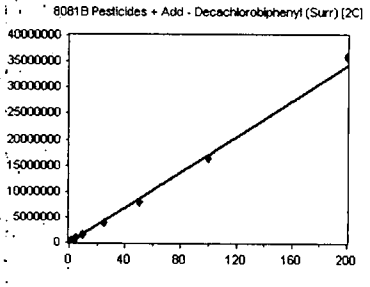


Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	150334	300668.000	9.82
9L17040-CAL2	1	240047	240047.000	9.82
9L17040-CAL3	2	438726	219363.000	9.82
9L17040-CAL4	5	1080727	216145.400	9.82
9L17040-CAL5	10	2104459	210445.900	9.82
9L17040-CAL6	25	5733301	229332.000	9.82
9L17040-CAL7	50	1.168342E+07	233668.400	9.82
9L17040-CAL8	100	2.556066E+07	255606.600	9.82
9L17040-CAL9	200	5.642354E+07	282117.700	9.82

AVE RF **243043.800** RF RSD **12.71** AVE RT **9.82**

Decachlorobiphenyl (Surr) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L17040-CAL1	0.5	102856	205712.000	10.70
9L17040-CAL2	1	184041	184041.000	10.70
9L17040-CAL3	2	347202	173601.000	10.70
9L17040-CAL4	5	768471	153694.200	10.70
9L17040-CAL5	10	1559283	155928.300	10.70
9L17040-CAL6	25	3845378	153815.100	10.70
9L17040-CAL7	50	8054885	161097.700	10.70
9L17040-CAL8	100	1.651848E+07	165184.800	10.70
9L17040-CAL9	200	3.58893E+07	179446.500	10.70

AVE RF **170280.100** RF RSD **10.18** AVE RT **10.70**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9L17040

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
8081B Pesticides
8081B 2,4+4,4-DDx Only (+Add)
8081B Chlordane
8081B DDT Only
8081B Pesticides + Add
8081B RSET FW Sed (+Add) (2016)
8081B RSET Sediment List (+Add)
8081B RSET Sediment Marine (2016) (+Add)
8081B Toxaphene

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9L17040

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
9L17040-ICB1	Initial Cal Blank	Water	A19L018		12/17/2019 11:52:00AM
9L17040-CAL1	Cal Standard	Water	A19L231	"	12/17/2019 12:09:00PM
9L17040-CAL2	Cal Standard	Water	A19K127	"	12/17/2019 12:26:00PM
9L17040-CAL3	Cal Standard	Water	A19K128	"	12/17/2019 12:43:00PM
9L17040-CAL4	Cal Standard	Water	A19K130	"	12/17/2019 1:01:00PM
9L17040-CAL5	Cal Standard	Water	A19K131	"	12/17/2019 1:18:00PM
9L17040-CAL6	Cal Standard	Water	A19K132	"	12/17/2019 1:35:00PM
9L17040-CAL7	Cal Standard	Water	A19K133	"	12/17/2019 1:52:00PM
9L17040-CAL8	Cal Standard	Water	A19K134	"	12/17/2019 2:09:00PM
9L17040-CAL9	Cal Standard	Water	A19K126	"	12/17/2019 2:27:00PM
9L17040-ICV1	Initial Cal Check	Water	A19I209	"	12/17/2019 3:01:00PM
9L17040-CALA	Cal Standard	Water	A19L232	"	12/17/2019 3:18:00PM
9L17040-CALB	Cal Standard	Water	A19K263	"	12/17/2019 3:35:00PM
9L17040-CALC	Cal Standard	Water	A19K264	"	12/17/2019 3:53:00PM
9L17040-CALD	Cal Standard	Water	A19K265	"	12/17/2019 4:10:00PM
9L17040-CALE	Cal Standard	Water	A19K266	"	12/17/2019 4:27:00PM
9L17040-CALF	Cal Standard	Water	A19J407	"	12/17/2019 4:44:00PM
9L17040-CALG	Cal Standard	Water	A19J408	"	12/17/2019 5:01:00PM
9L17040-CALH	Cal Standard	Water	A19J409	"	12/17/2019 5:19:00PM
9L17040-CALI	Cal Standard	Water	A19K262	"	12/17/2019 5:36:00PM
9L17040-ICV2	Initial Cal Check	Water	A19J410	"	12/17/2019 6:10:00PM
9L17040-CALJ	Cal Standard	Water	A19L233	"	12/17/2019 6:27:00PM
9L17040-CALK	Cal Standard	Water	A19K307	"	12/17/2019 6:45:00PM
9L17040-CALL	Cal Standard	Water	A19K308	"	12/17/2019 7:02:00PM
9L17040-CALM	Cal Standard	Water	A19K309	"	12/17/2019 7:19:00PM
9L17040-CALN	Cal Standard	Water	A19K310	"	12/17/2019 7:36:00PM
9L17040-CALO	Cal Standard	Water	A19K311	"	12/17/2019 7:53:00PM
9L17040-CALP	Cal Standard	Water	A19K306	"	12/17/2019 8:11:00PM
9L17040-ICV3	Initial Cal Check	Water	A19K312	"	12/17/2019 8:45:00PM
9L17040-CALQ	Cal Standard	Water	A19L234	"	12/17/2019 9:02:00PM
9L17040-CALR	Cal Standard	Water	A19J417	"	12/17/2019 9:19:00PM
9L17040-CALS	Cal Standard	Water	A19J418	"	12/17/2019 9:37:00PM
9L17040-CALT	Cal Standard	Water	A19J419	"	12/17/2019 9:54:00PM
9L17040-CALU	Cal Standard	Water	A19J420	"	12/17/2019 10:11:00PM
9L17040-CALV	Cal Standard	Water	A19J421	"	12/17/2019 10:28:00PM
9L17040-CALW	Cal Standard	Water	A19J416	"	12/17/2019 10:45:00PM
9L17040-ICV4	Initial Cal Check	Water	A19J422	"	12/17/2019 11:19:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: A9L1807 Instrument: DualECD5F

1311/8081B TCLP Pest Reg L Sequence: 9L17040 Matrix: Water

9L17040-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9L17040

9L17040-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALF	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALG	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALH	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALI	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALJ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALK	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALL	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALM	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALN	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALO	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALP	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALQ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALR	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALS	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALT	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALU	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALV	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9L17040-CALW	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9L17040

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).

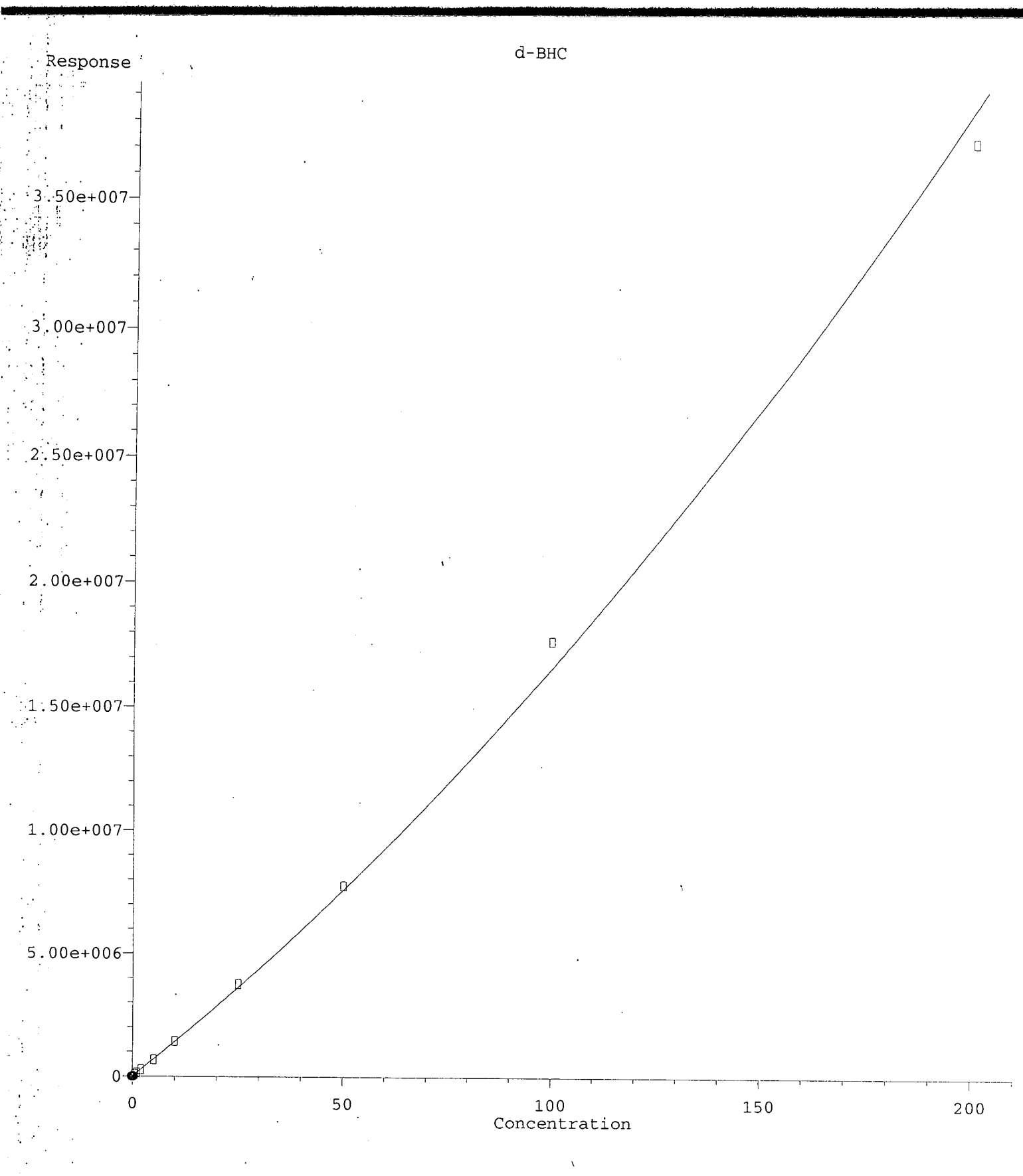
ICV RECOVERIES

Calibration: **A9L1807** Instrument: **DualECD5F**

608 Pesticides Sequence: **9L17040** Matrix: **Water**

9L17040-ICV1	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
9L17040-ICV2	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
9L17040-ICV3	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
9L17040-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.

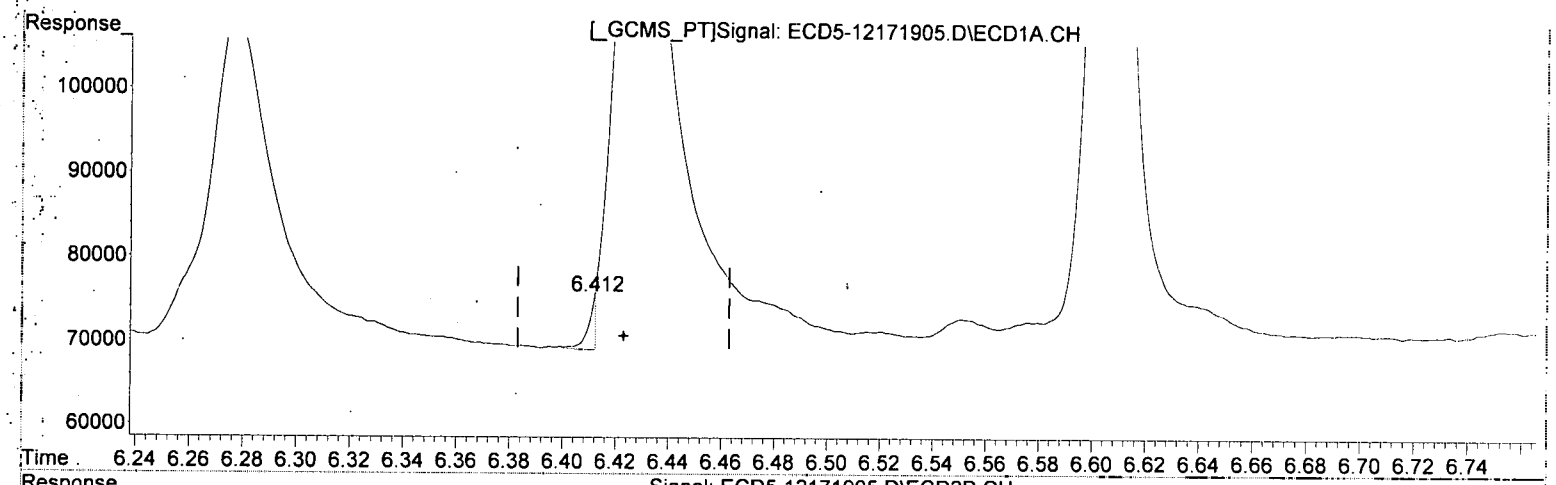


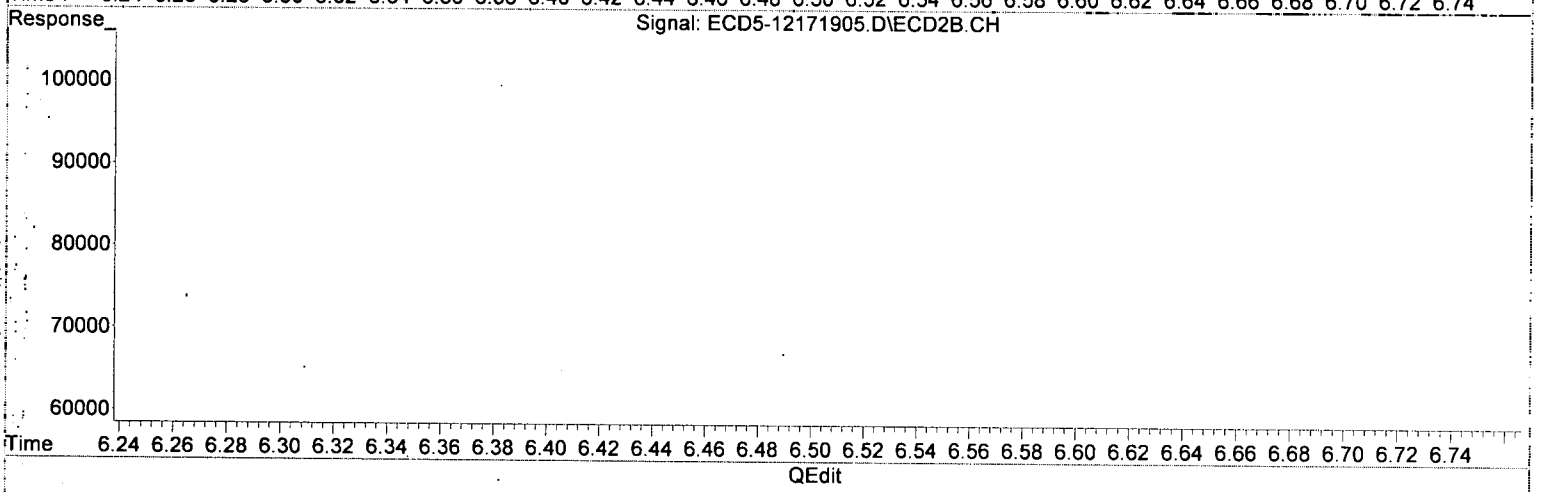
R = 2.85e+002 A*A + 1.37e+005 A + 4.75e+003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w/(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(6) d-BHC

6.412min 0.012 ng/mL m

response 6396

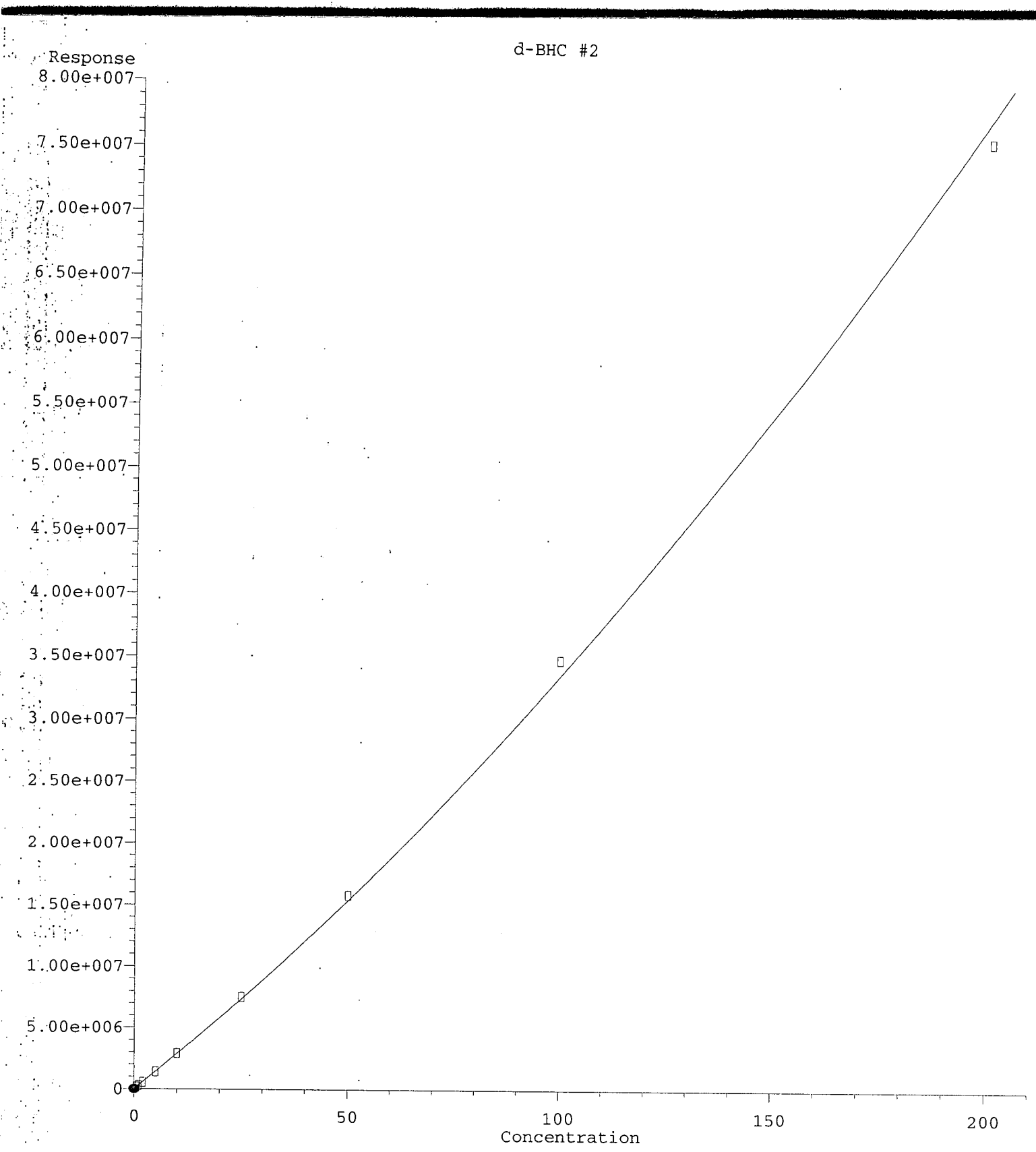
WB 12/18/19

(6) d-BHC #2

7.343min 0.514 ng/mL

response 156807

(+) = Expected Retention Time

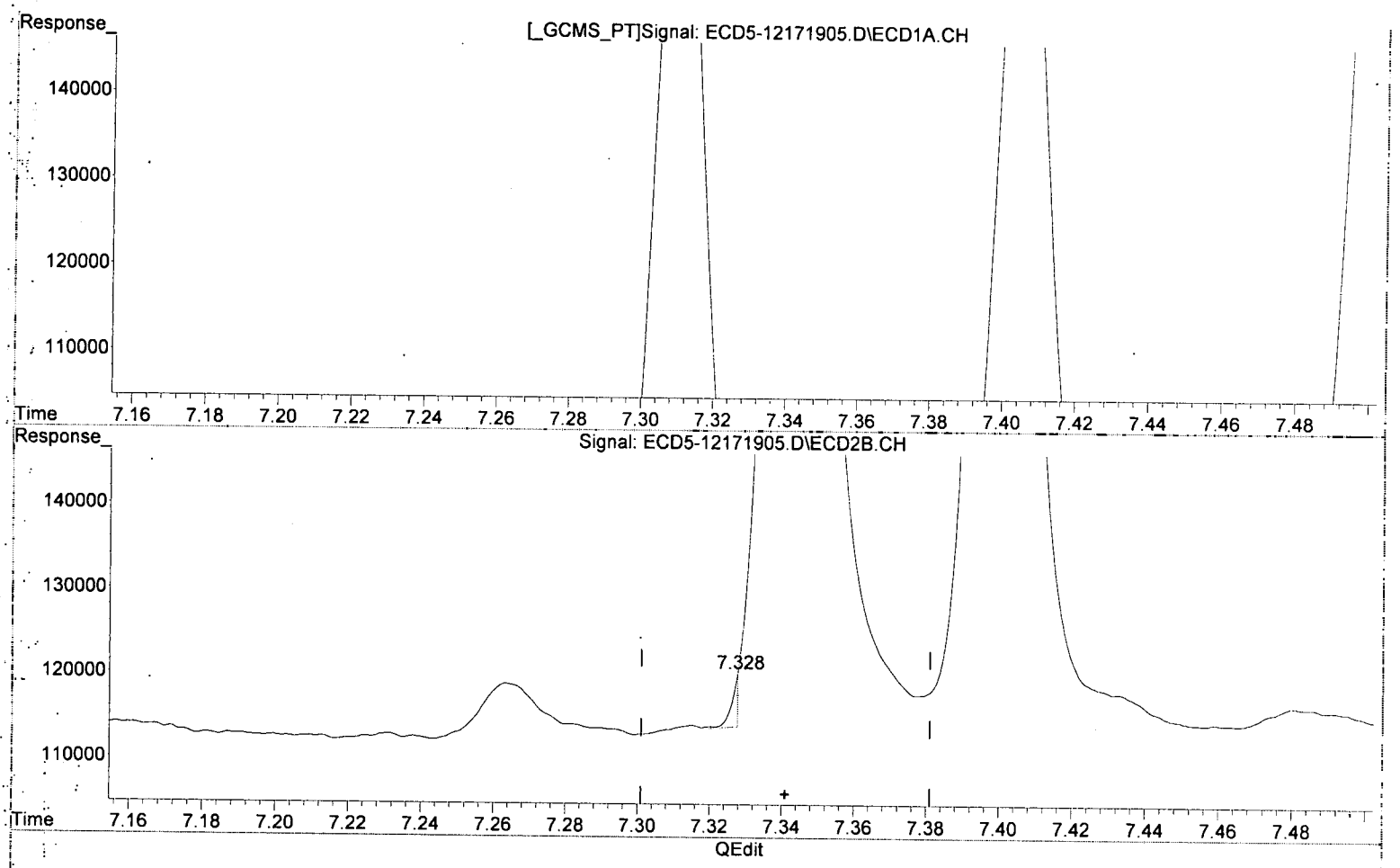


R = 5.53e+002 A*A + 2.80e+005 A + 1.29e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(6) d-BHC

6.412min 0.012 ng/mL (m)

response 6396

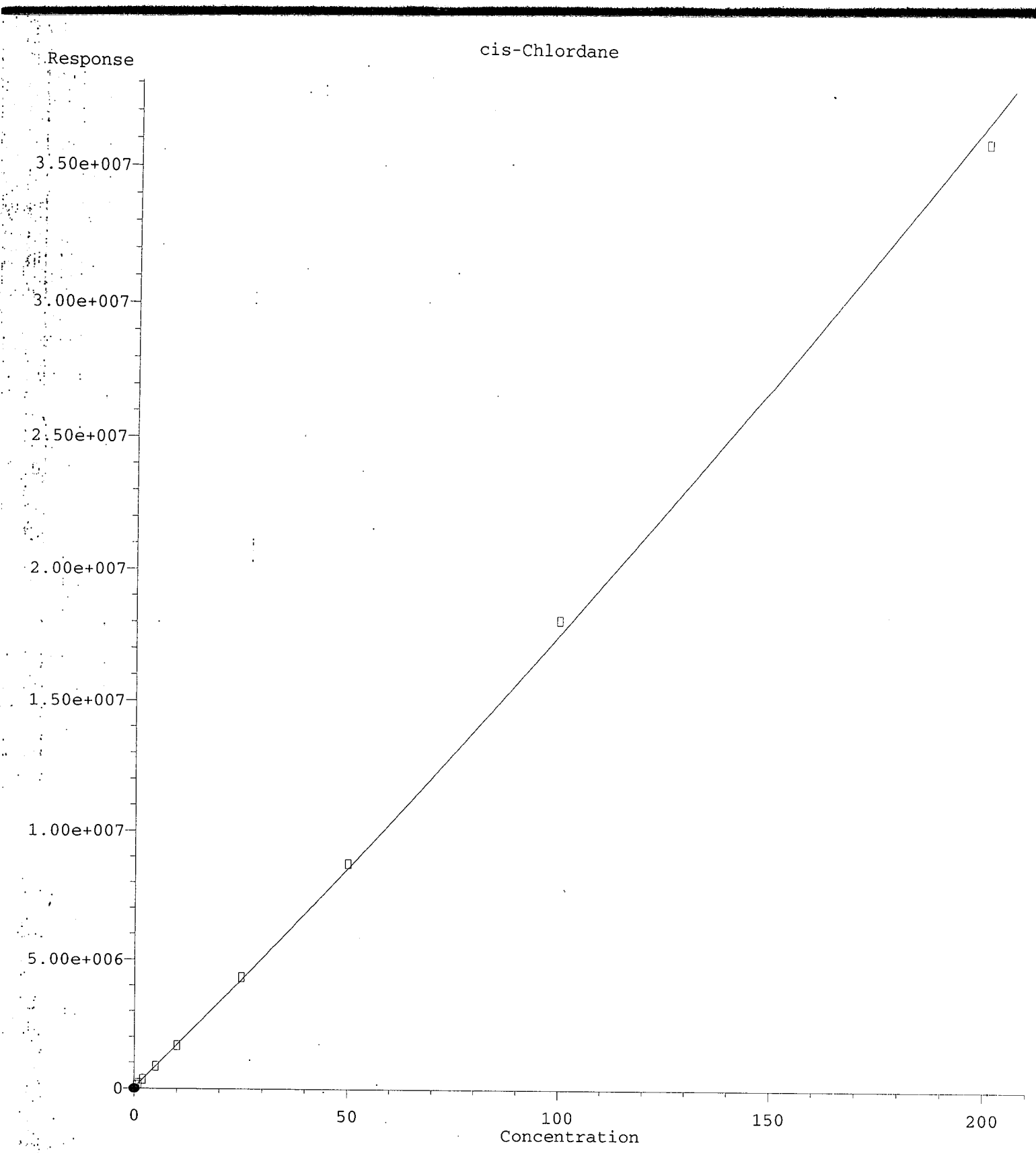
MB 2/18/20

(6) d-BHC #2

7.328min -0.023 ng/mL (m)

response 6293

(+) = Expected Retention Time

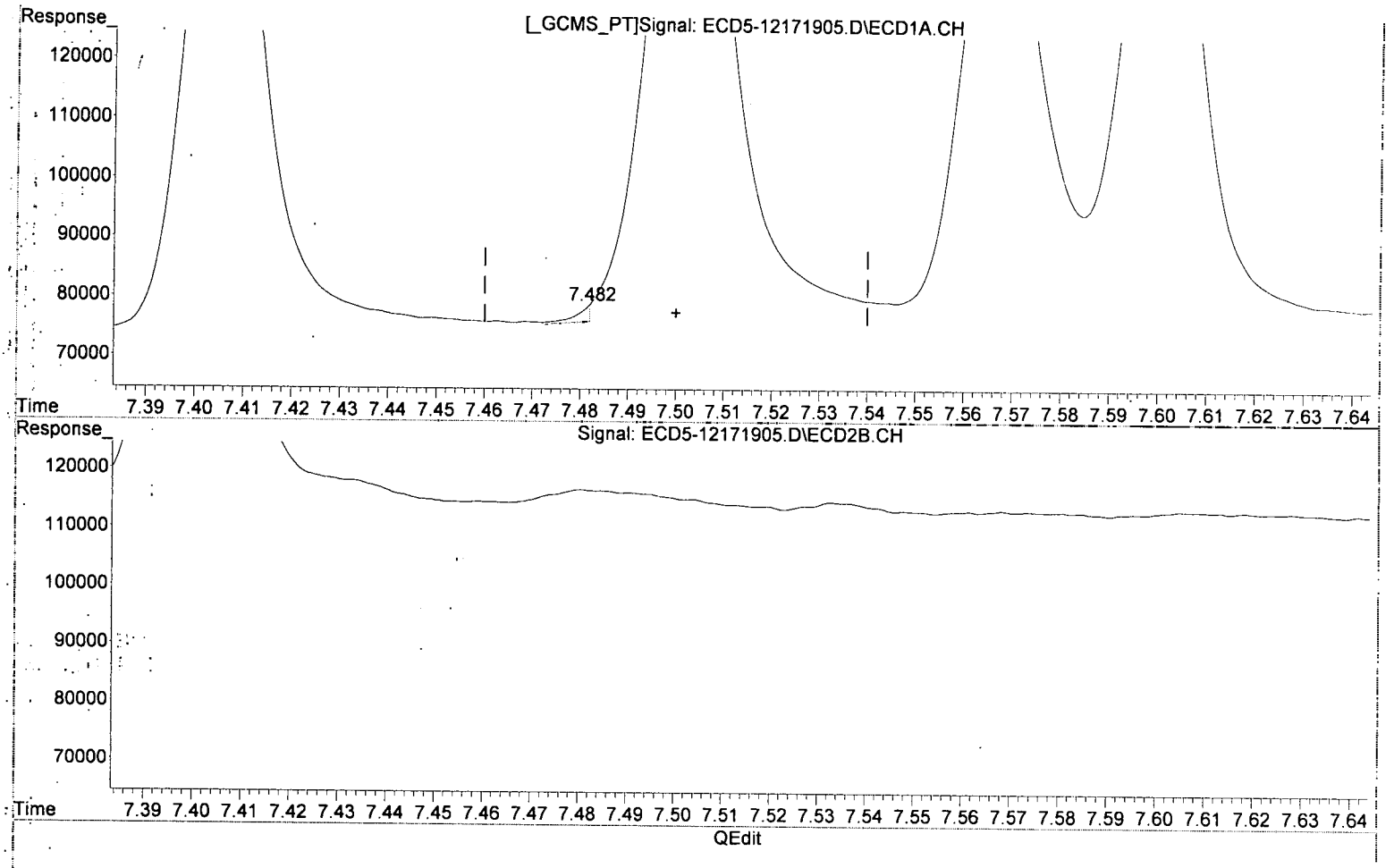


R = 9.85e+001 A*A + 1.65e+005 A + 3.12e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation : 6890 Scale Mode: Small noise peaks clipped



(10) cis-Chlordane

7.482min -0.172 ng/mL m

response 2822

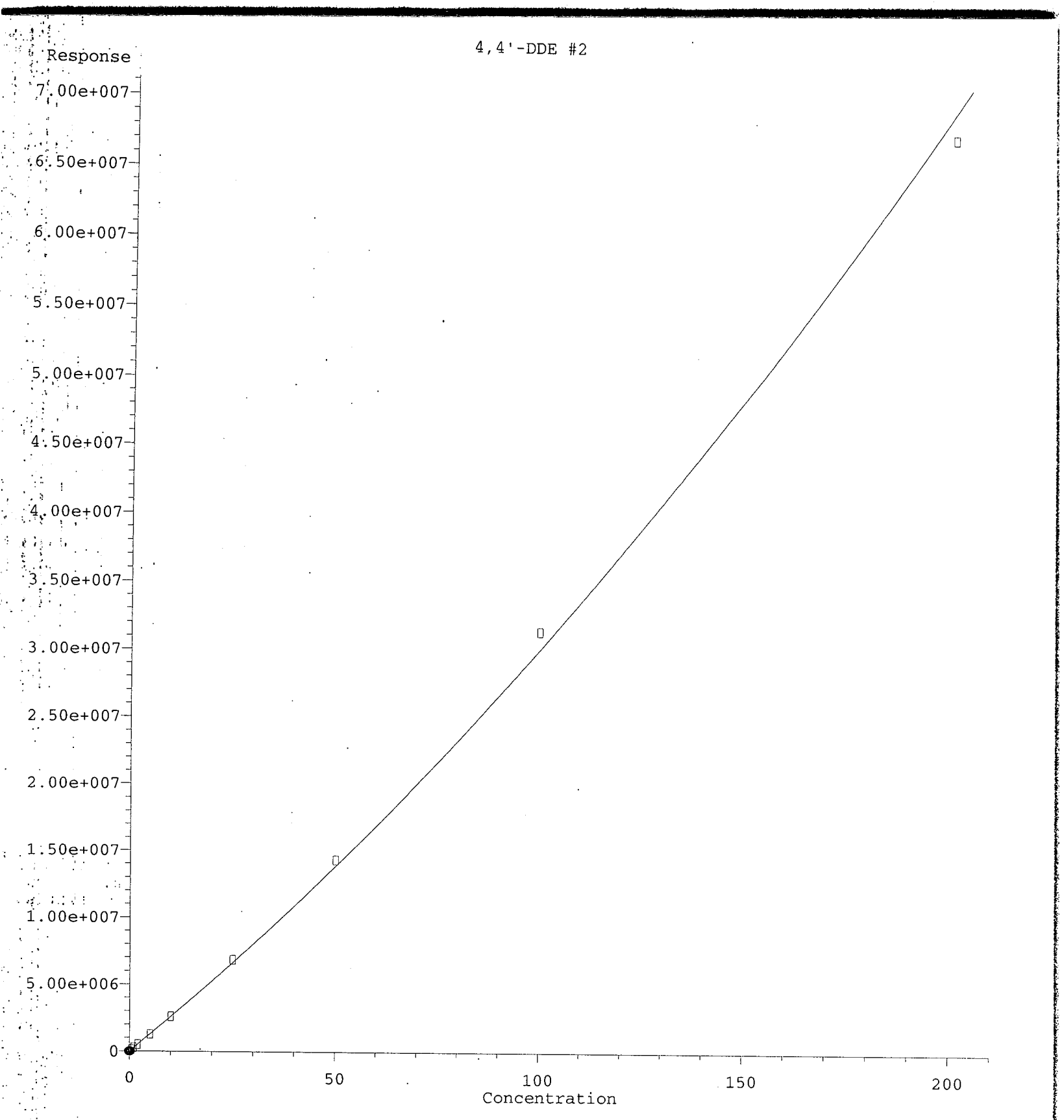
MJB 12/18/19

(10) cis-Chlordane #2

8.358min 0.554 ng/mL

response 155479

(+) = Expected Retention Time

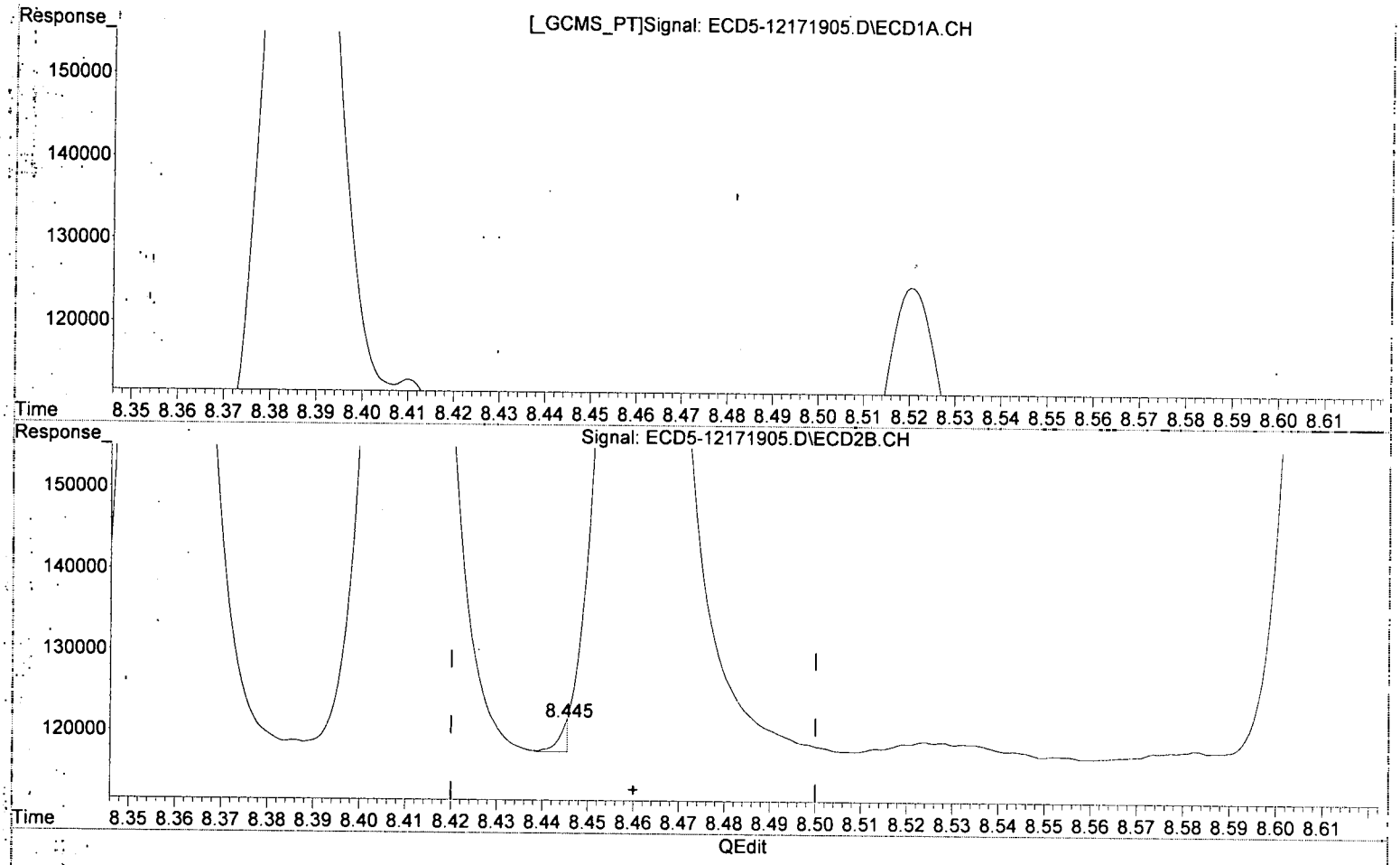


R = 4.78e+002 A*A + 2.53e+005 A + 1.42e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w/(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.567min 0.528 ng/mL

response 81063

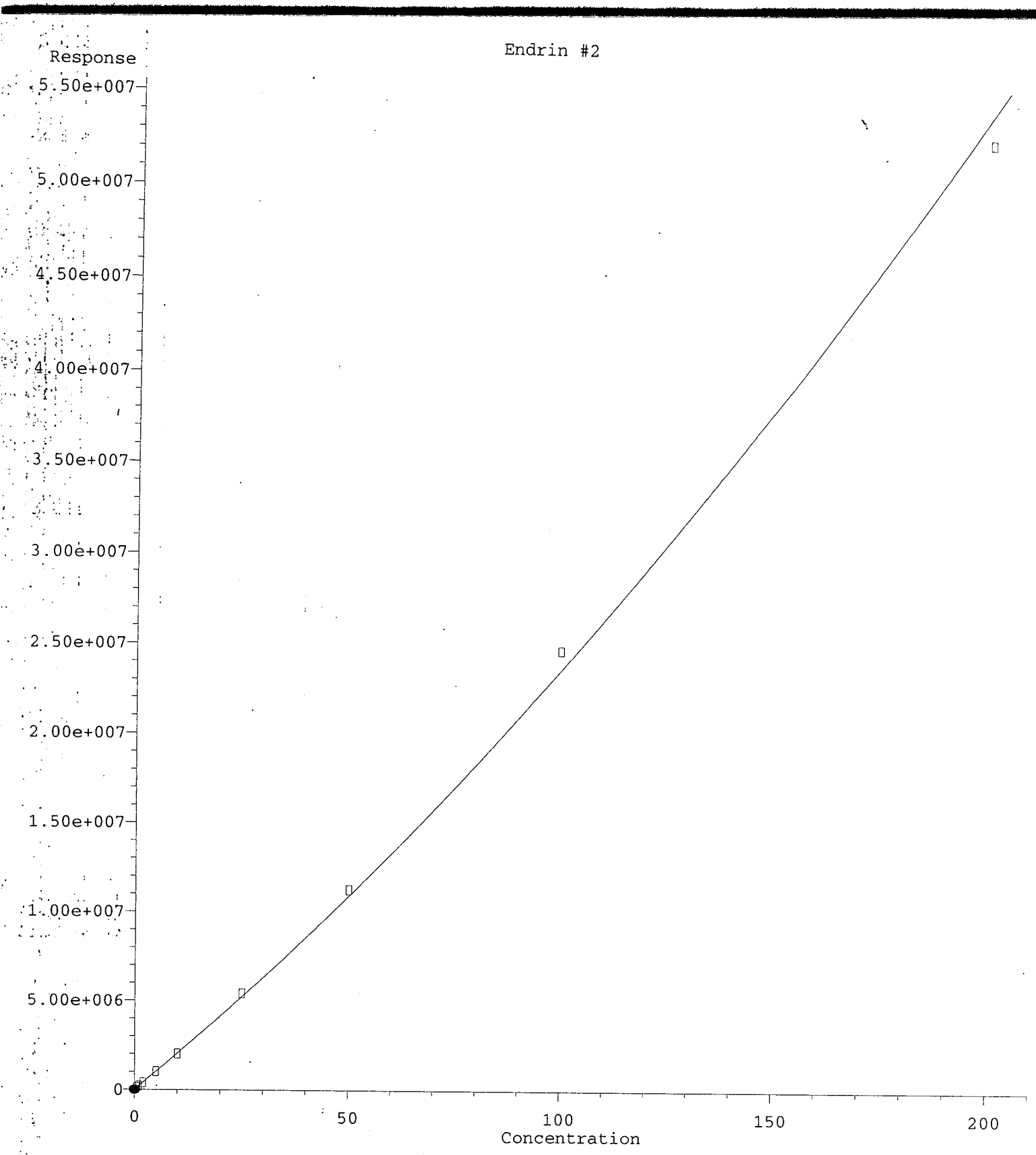
MJB 12/18/19

(12) 4,4'-DDE #2

8.445min -0.041 ng/mL m

response 3716

(+) = Expected Retention Time

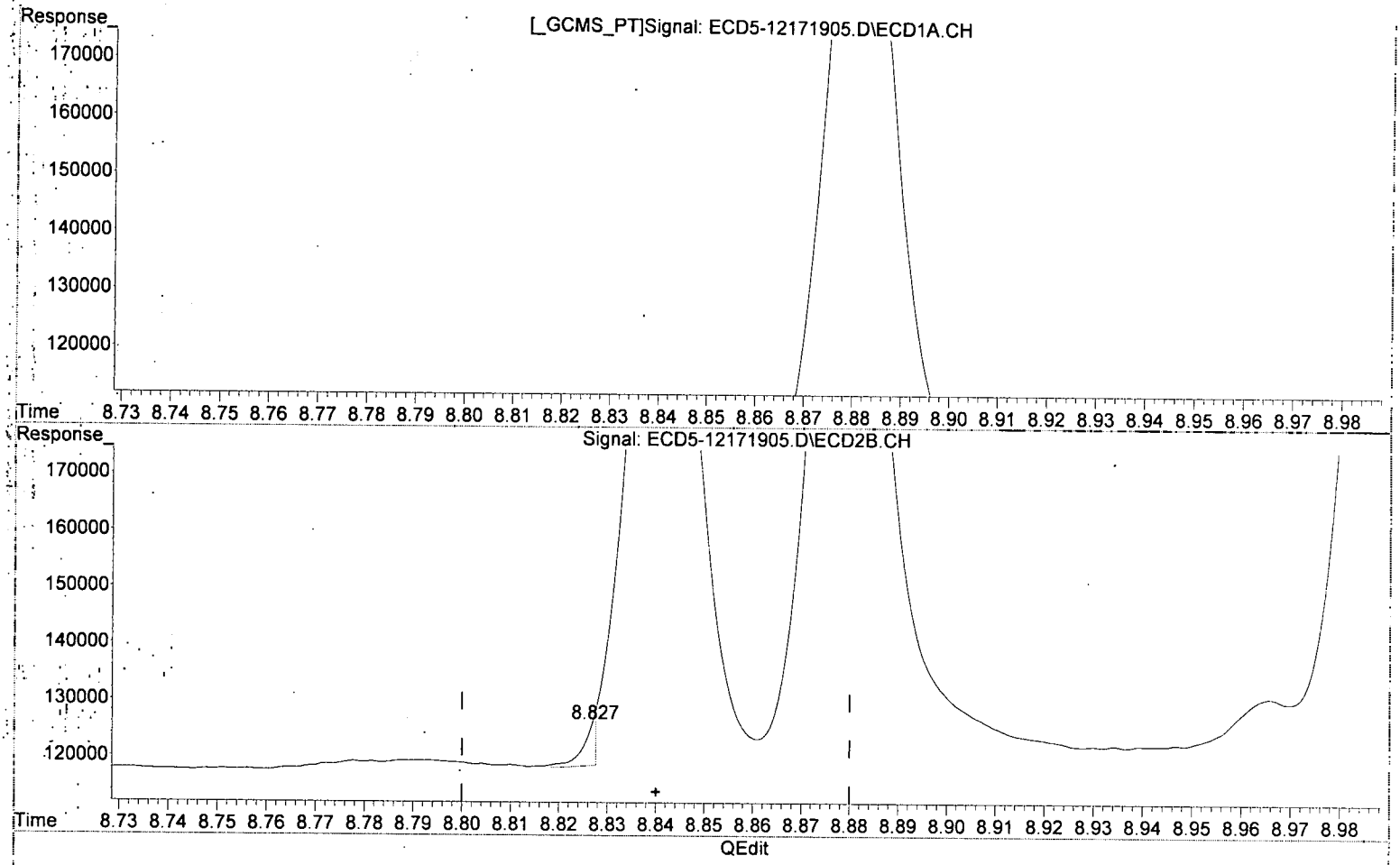


R = 3.62e+002 A*A + 2.00e+005 A + 1.30e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(14) Endrin

7.937min 0.552 ng/mL

response 84320

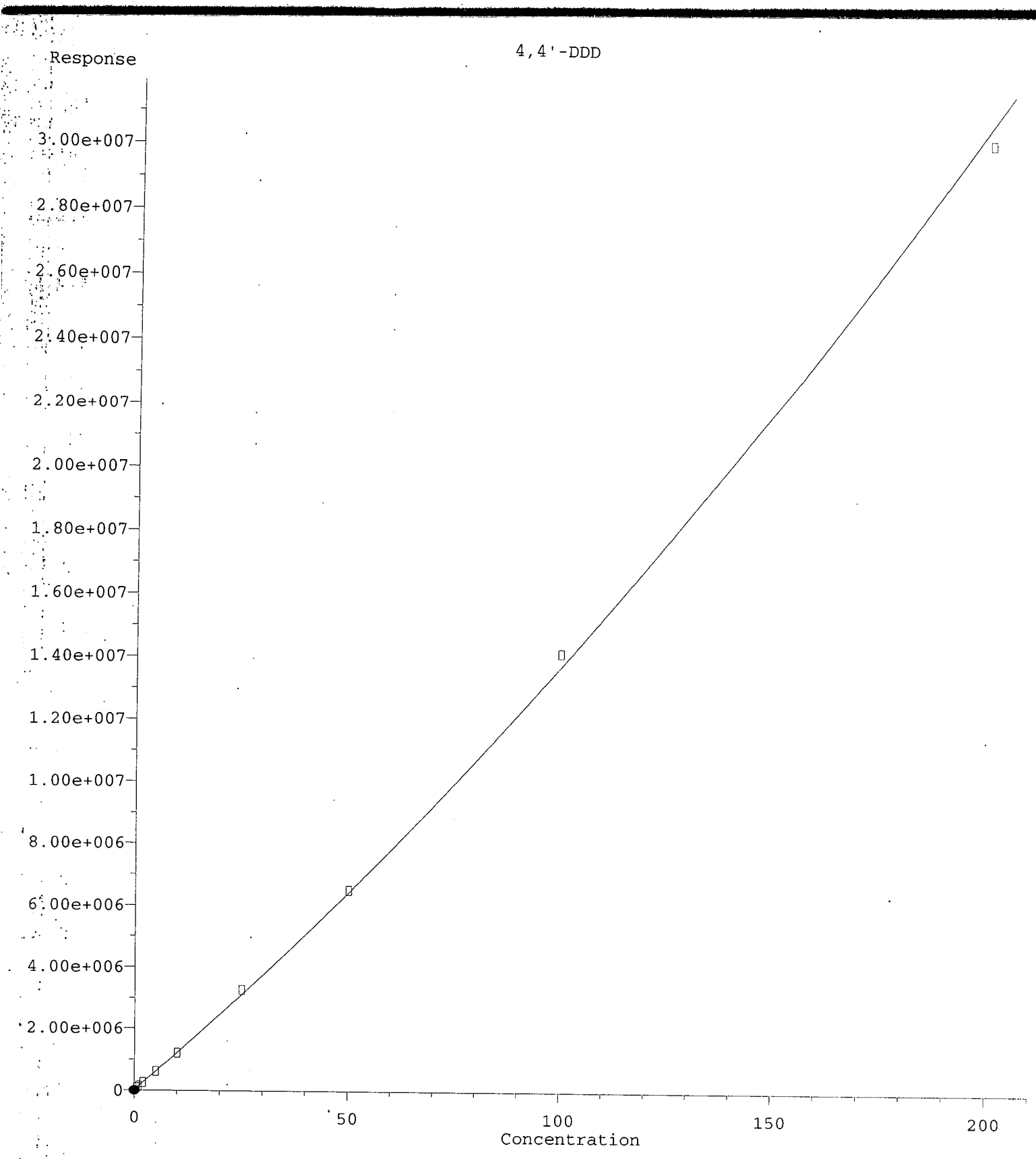
MJB 12/18/19

(14) Endrin #2

8.827min -0.028 ng/mL (m)

response 7414

(+) = Expected Retention Time

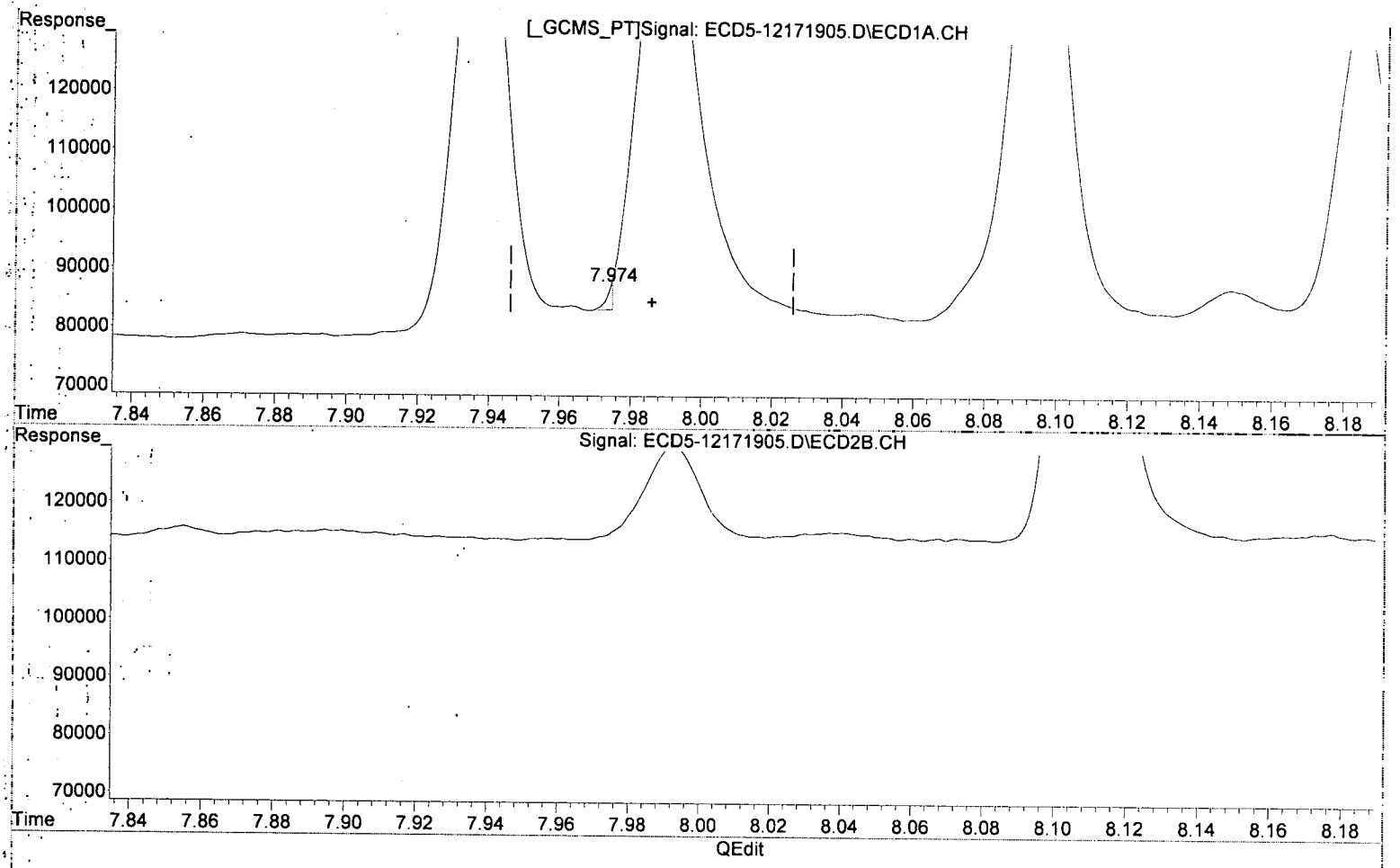


R = 1.78e+002 A*A + 1.19e+005 A + 2.09e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.974min -0.141 ng/mL m

response 4068

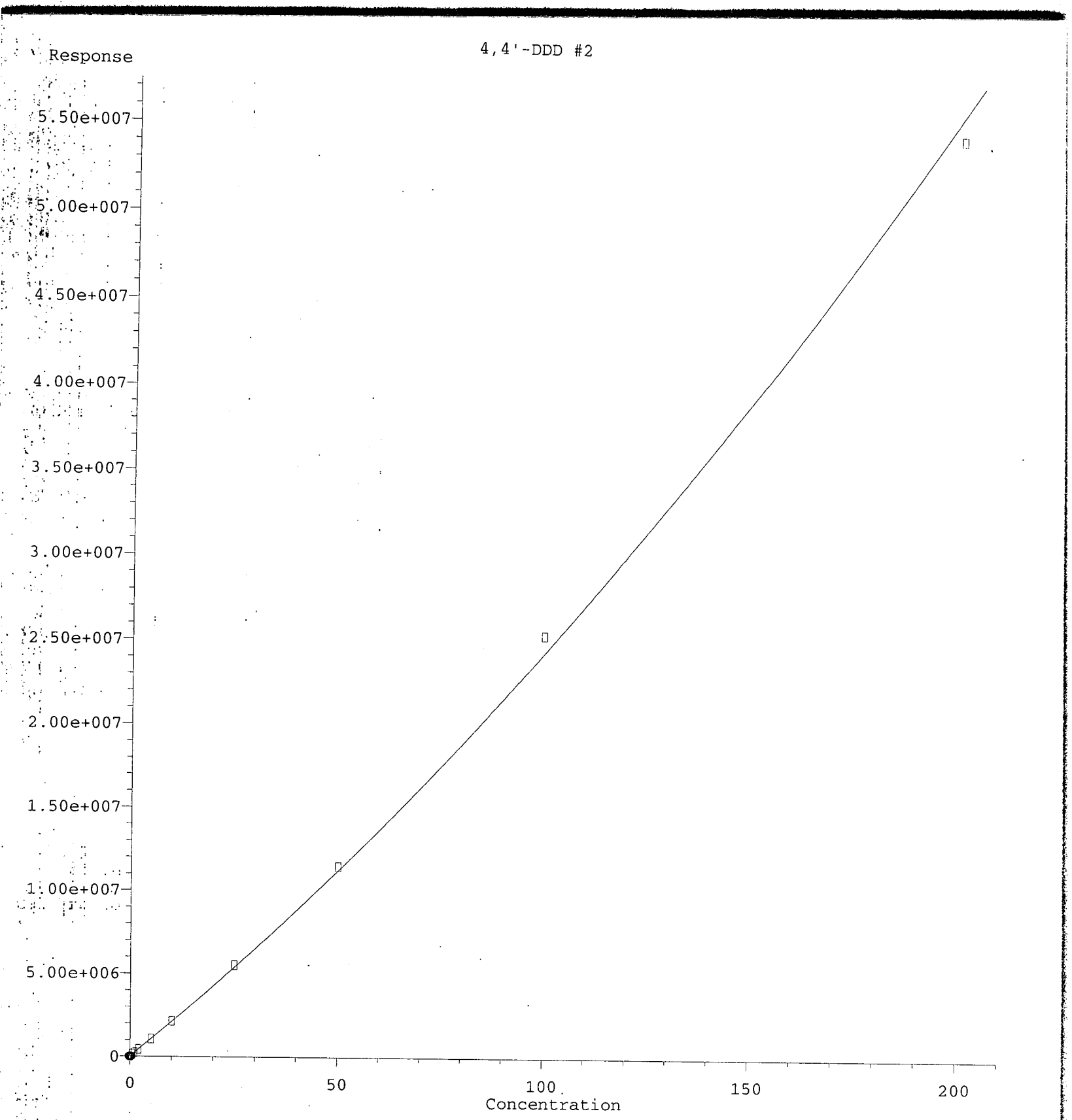
MB 12/18/19

(15) 4,4'-DDD #2

8.880min 0.518 ng/mL

response 138945

(+) = Expected Retention Time

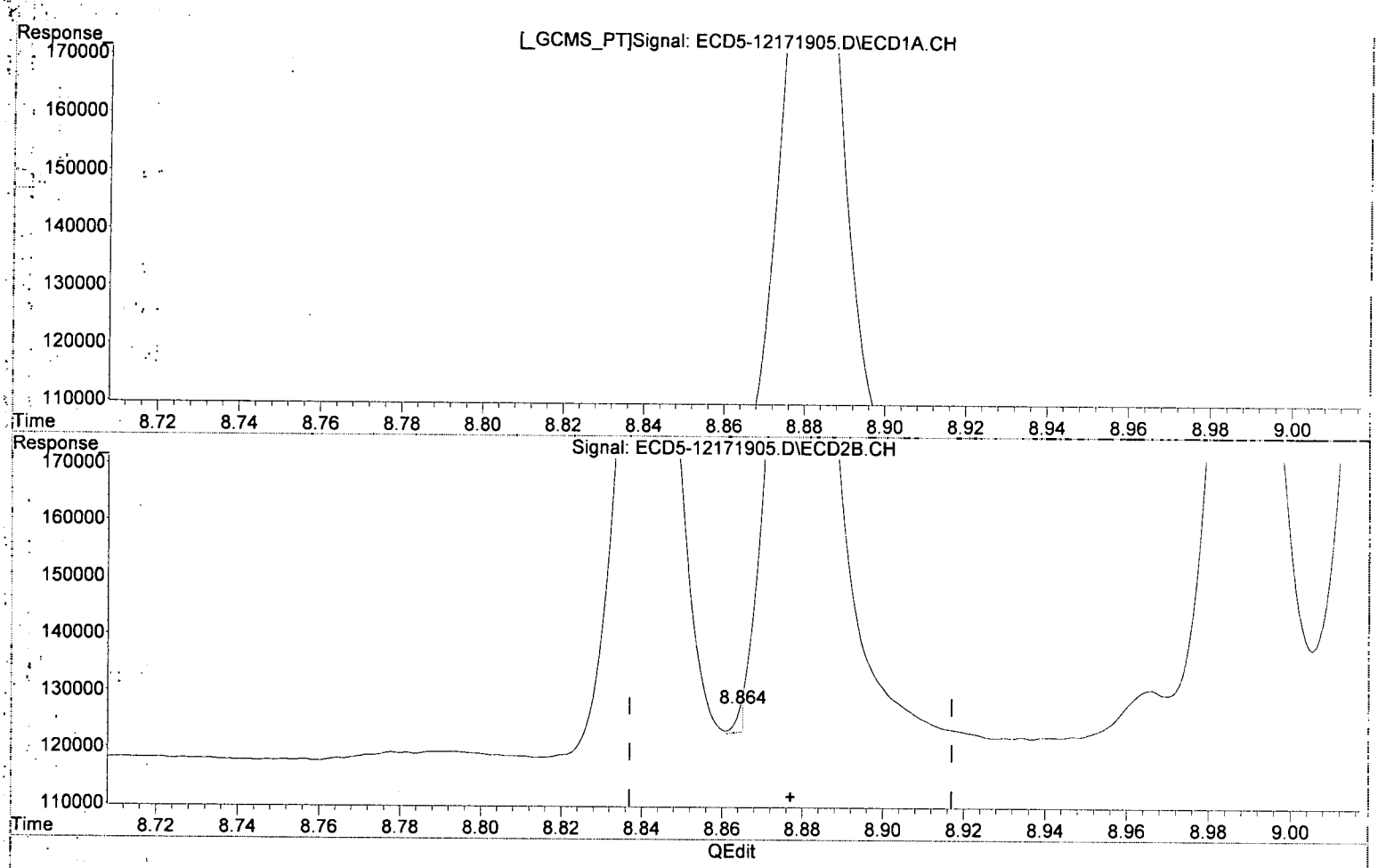


R = 3.77e+002 A*A + 2.05e+005 A + 3.28e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.974min -0.141 ng/mL m

response 4068

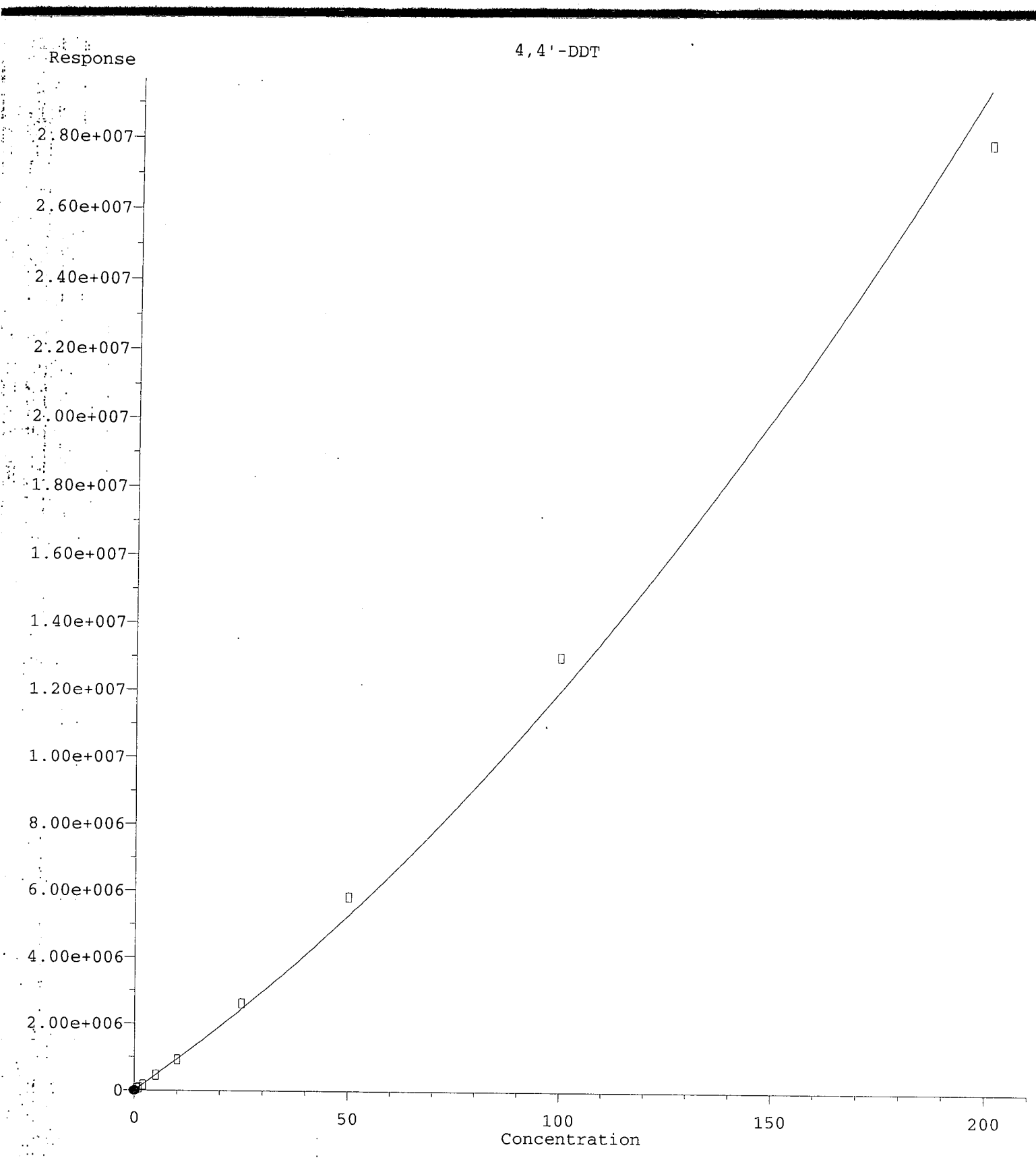
MJB 12/18/19

(15) 4,4'-DDD #2

8.864min -0.139 ng/mL (m)

response 4340

(+) = Expected Retention Time

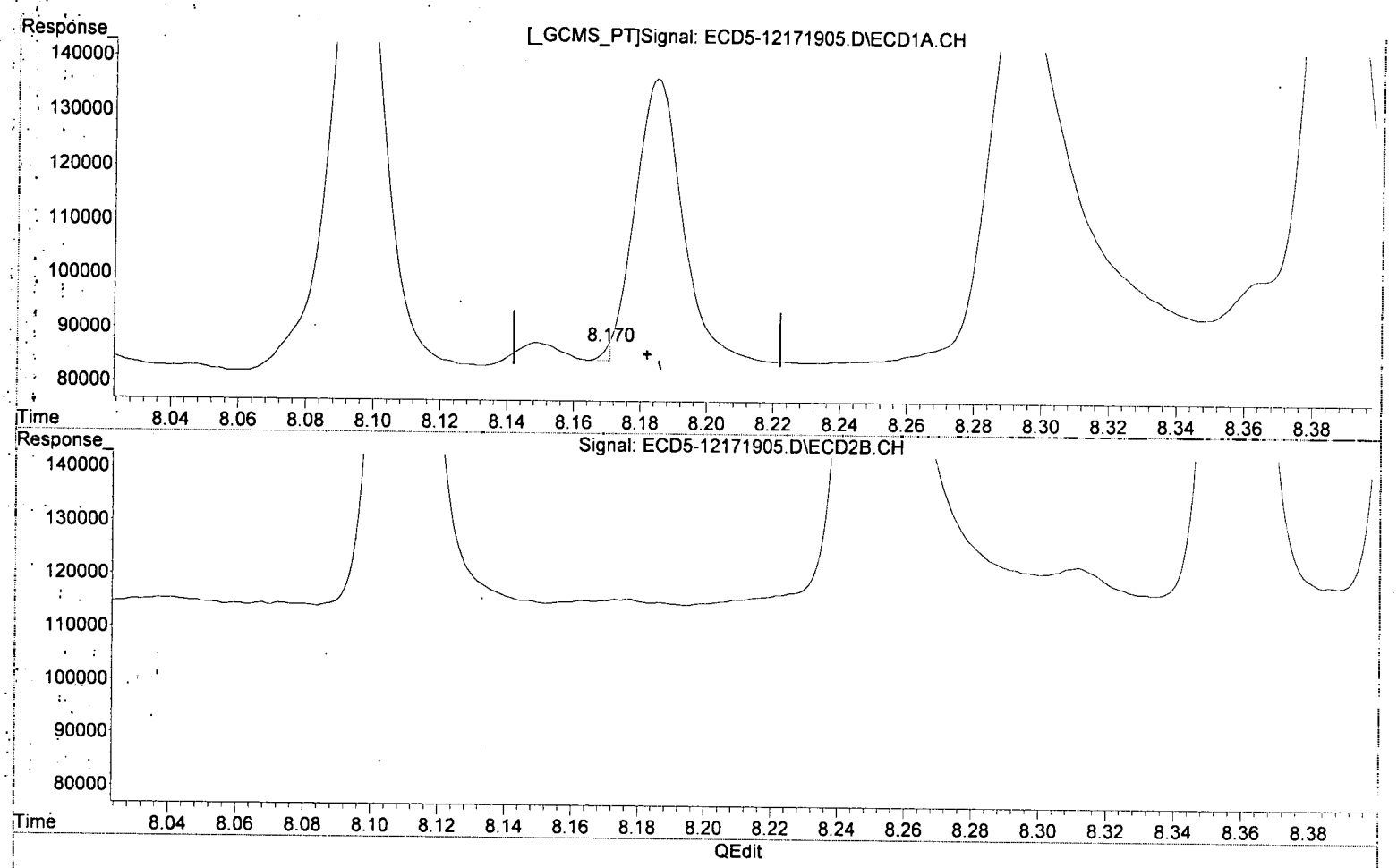


R = 2.94e+002 A*A + 9.07e+004 A + 2.98e+003
Coef of Det (r^2) = 0.990 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_1912I7.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.170min -0.002 ng/mL m

response 2826

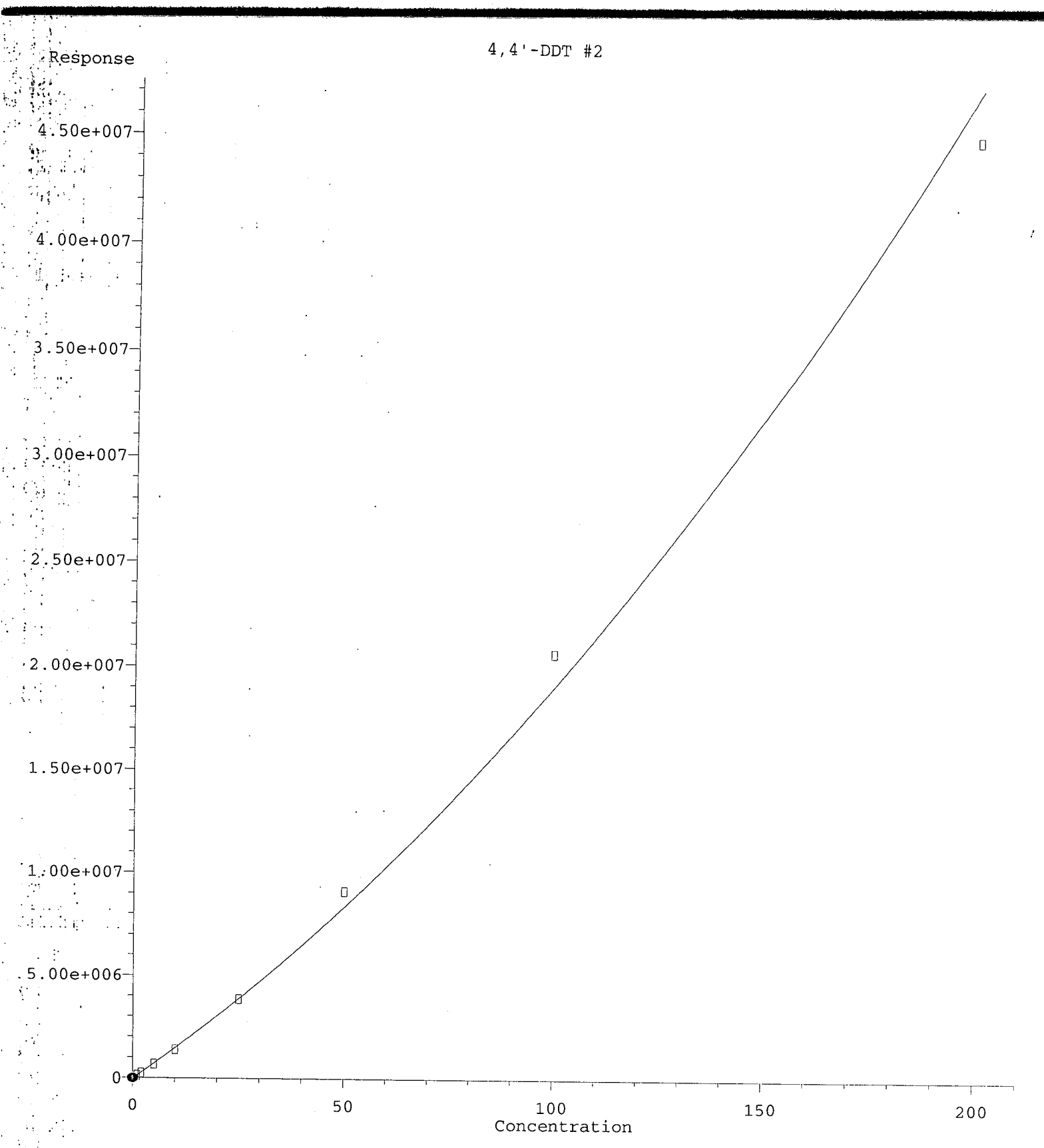
MJB 12/18/19

(17) 4,4'-DDT #2

9.107min 0.754 ng/mL

response 77719

(+) = Expected Retention Time

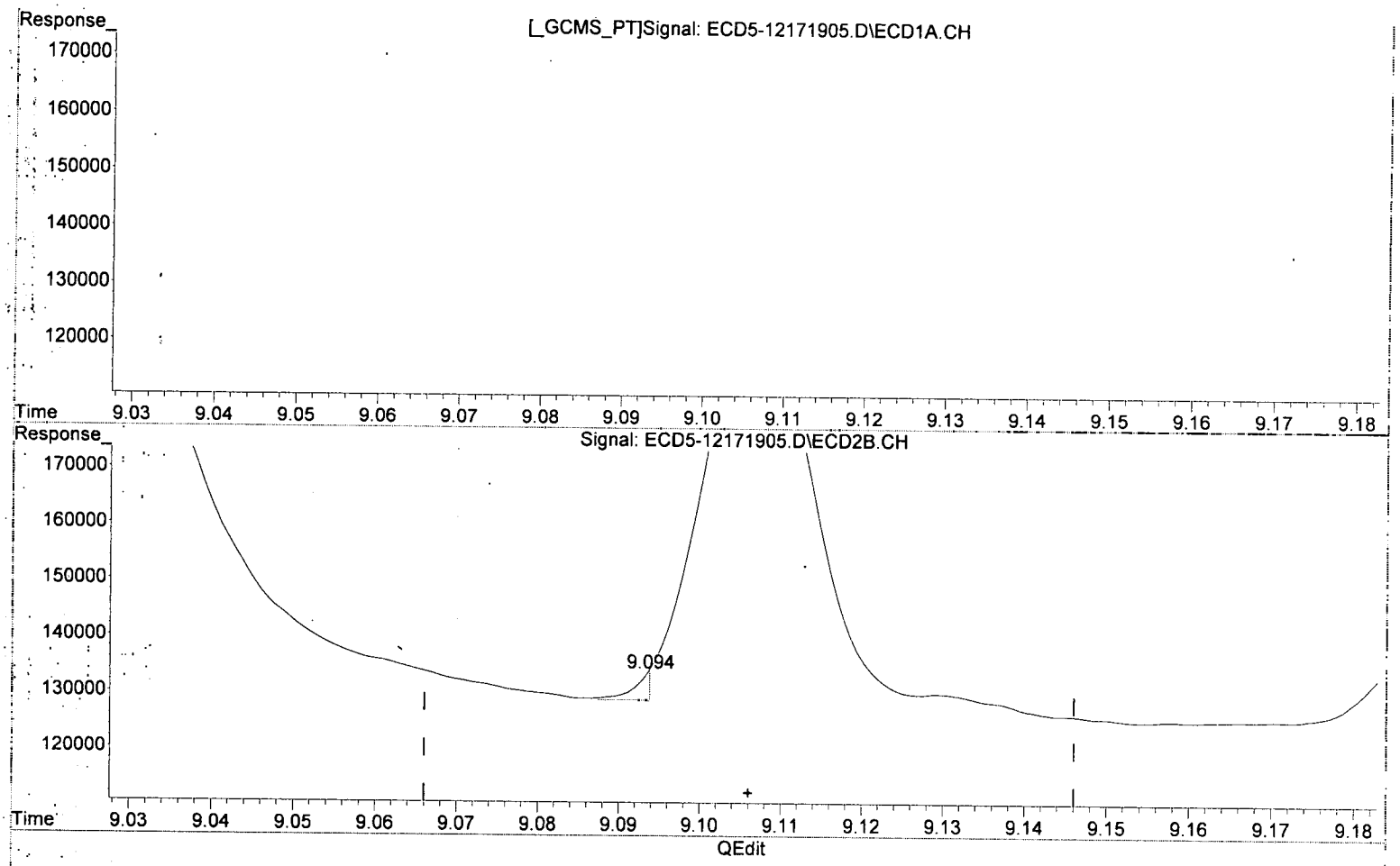


R = 4.65e+002 A*A + 1.44e+005 A - 3.12e+004
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w/(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_1912I7.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.170min -0.002 ng/mL m

response 2826

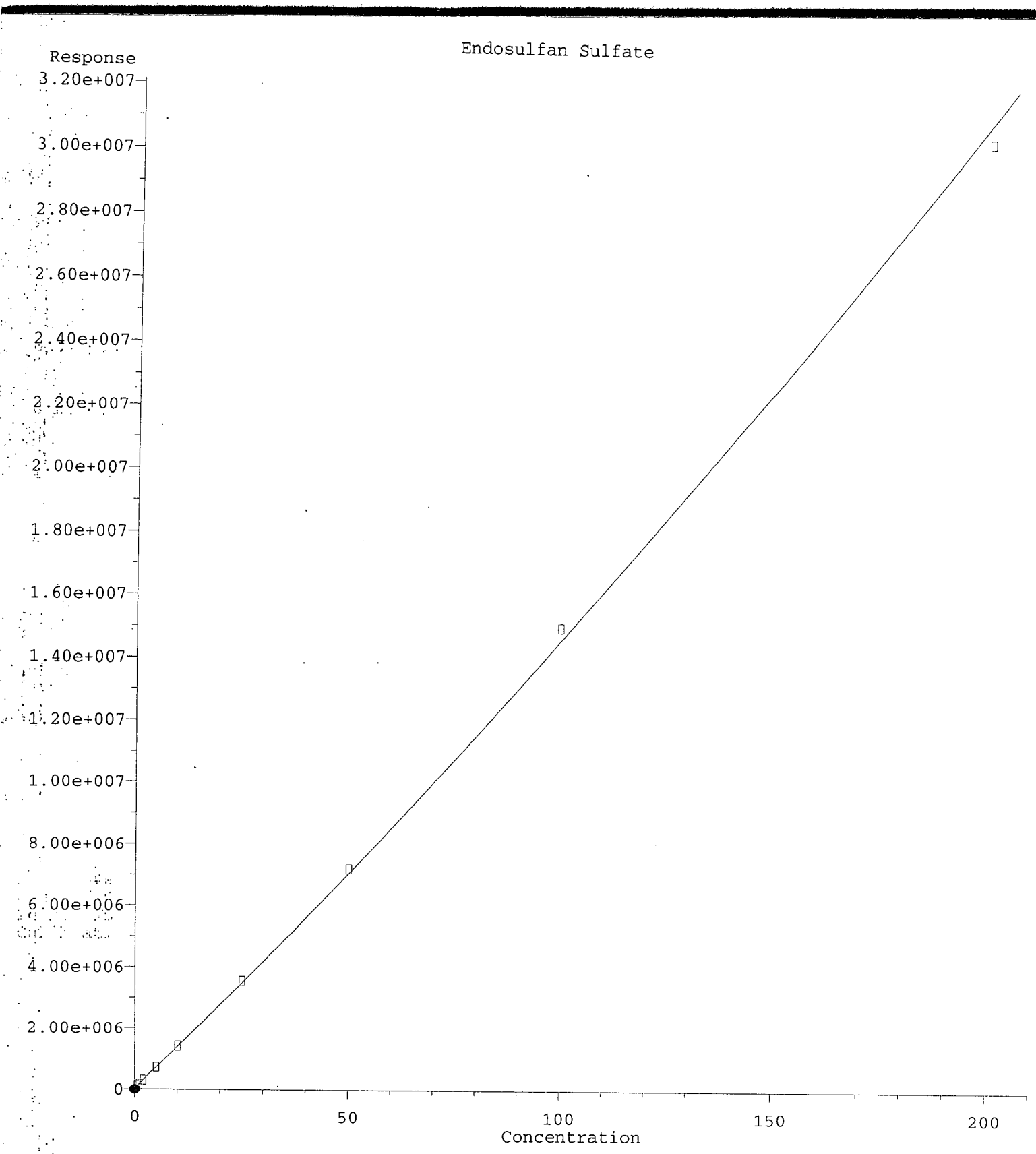
MJB 12/18/19

(17) 4,4'-DDT #2

9.094min 0.250 ng/mL m

response 4927

(+) = Expected Retention Time

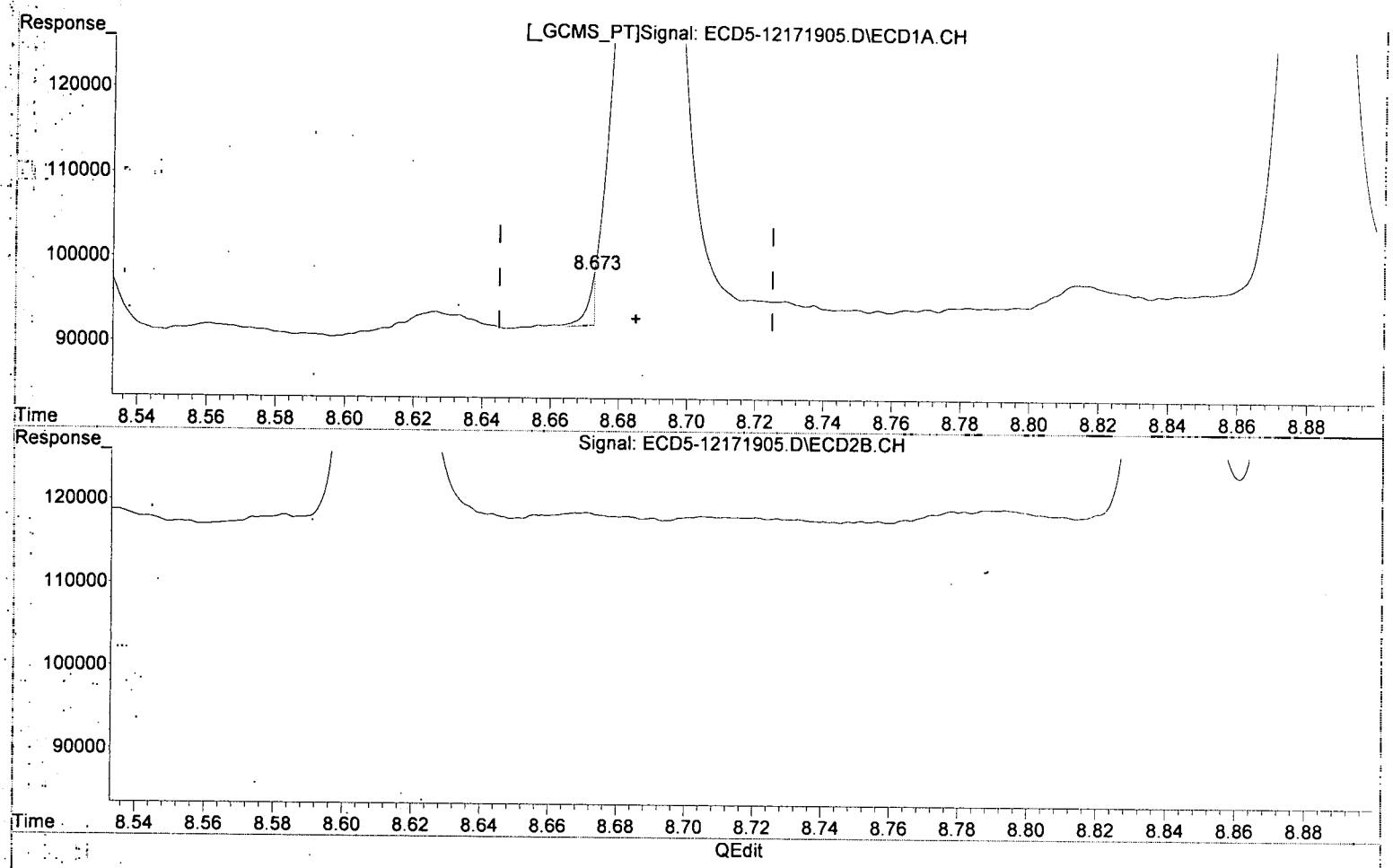


R = 1.04e+002 A*A + 1.35e+005 A + 3.91e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(19) Endosulfan Sulfate

8.673min -0.244 ng/mL m

response 6117

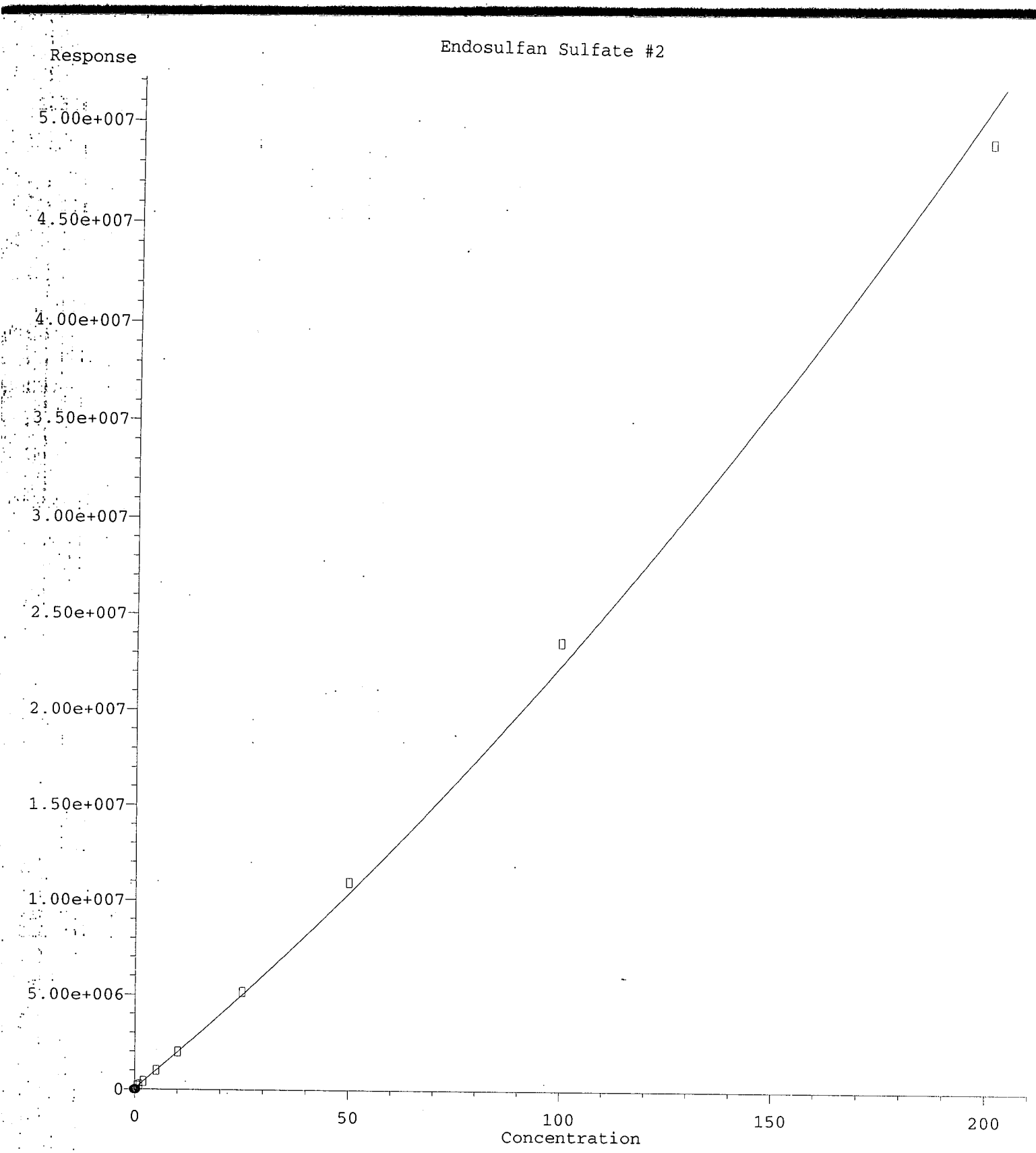
MJB 12/18/19

(19) Endosulfan Sulfate #2

9.417min 0.528 ng/mL

response 153851

(+) = Expected Retention Time

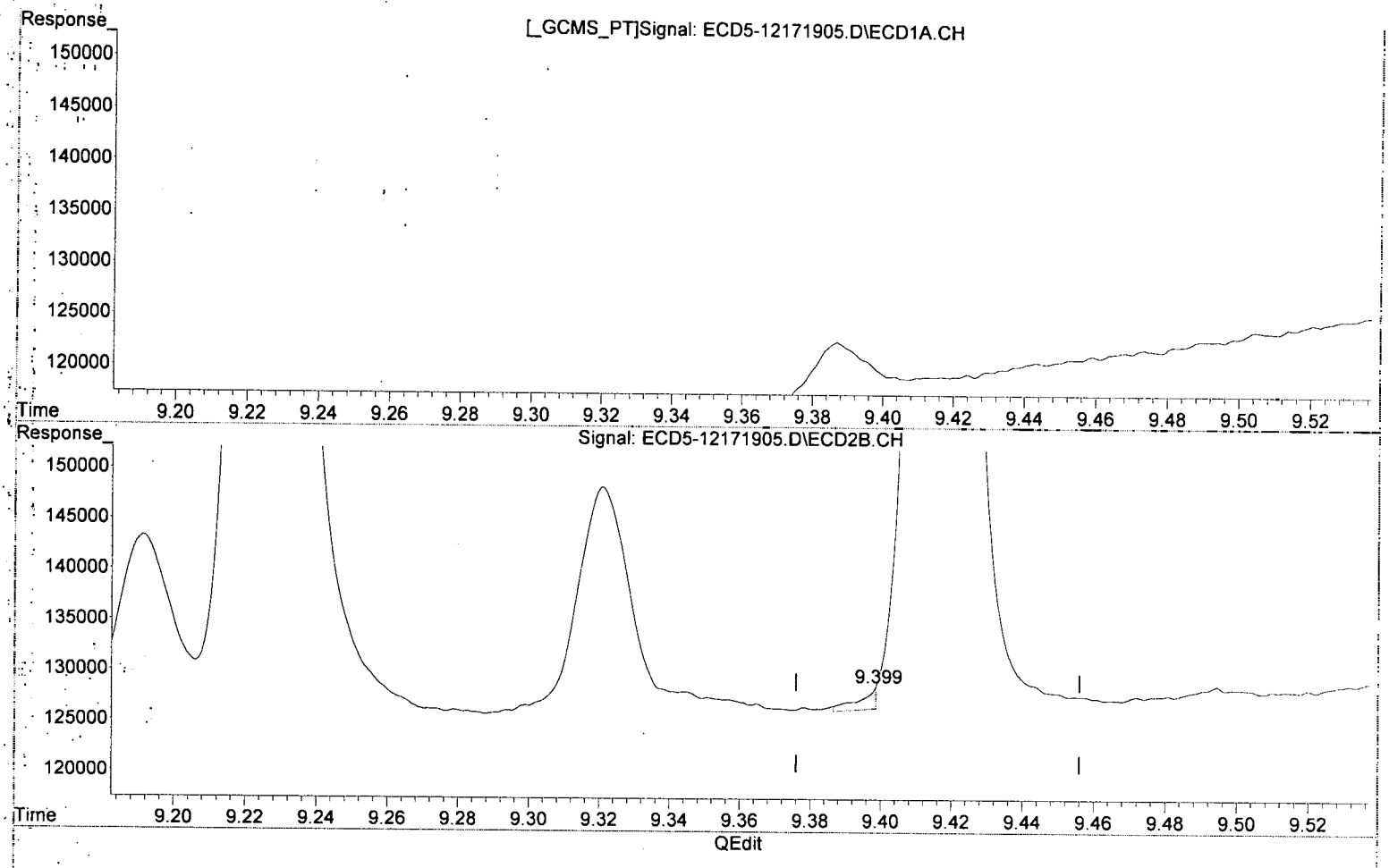


R = 3.40e+002 A*A + 1.90e+005 A + 5.37e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(19) Endosulfan Sulfate

8.673min -0.244 ng/mL m

response 6117

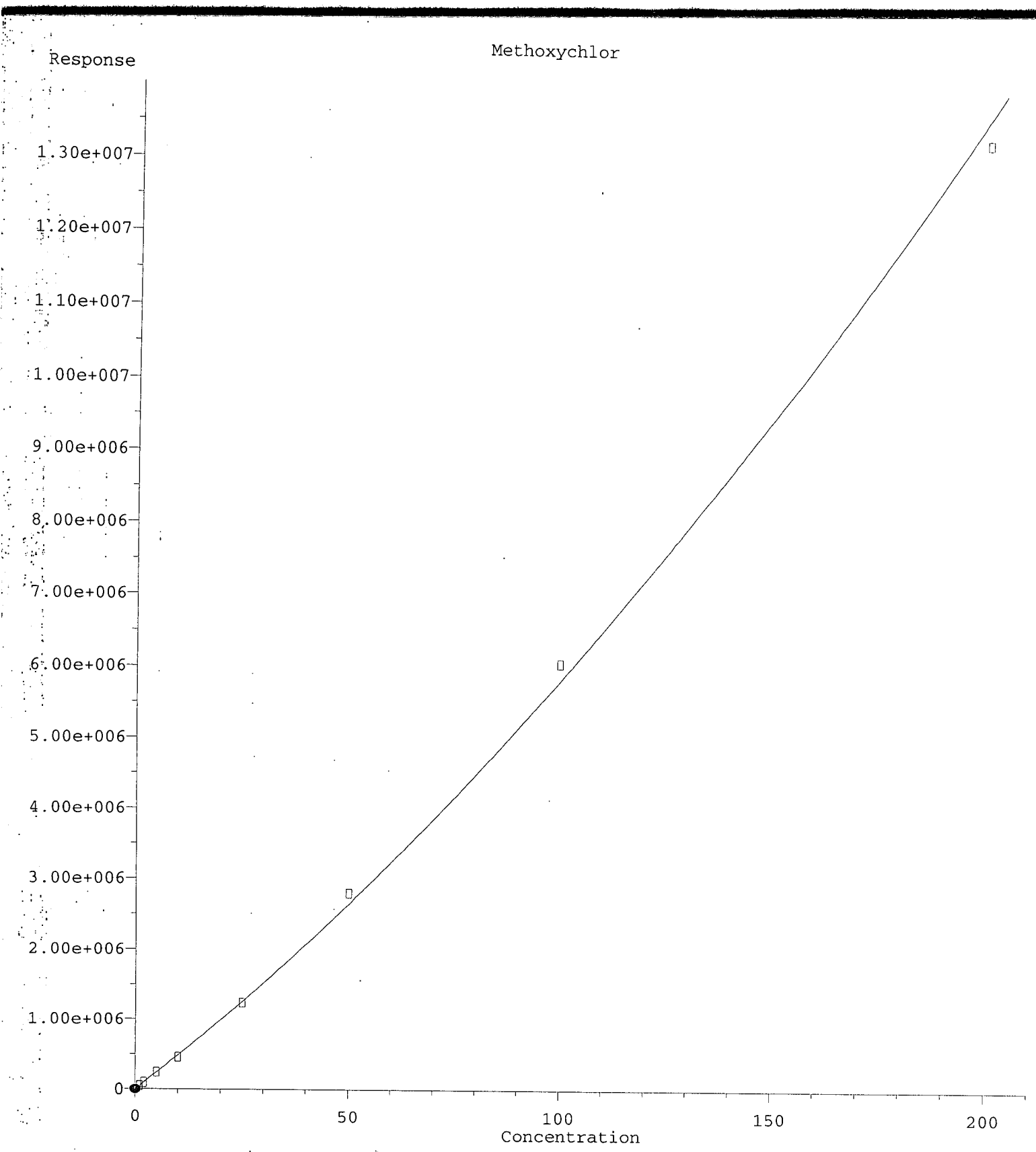
MJB 12/18/19

(19) Endosulfan Sulfate #2

9.399min -0.272 ng/mL m

response 2121

(+) = Expected Retention Time

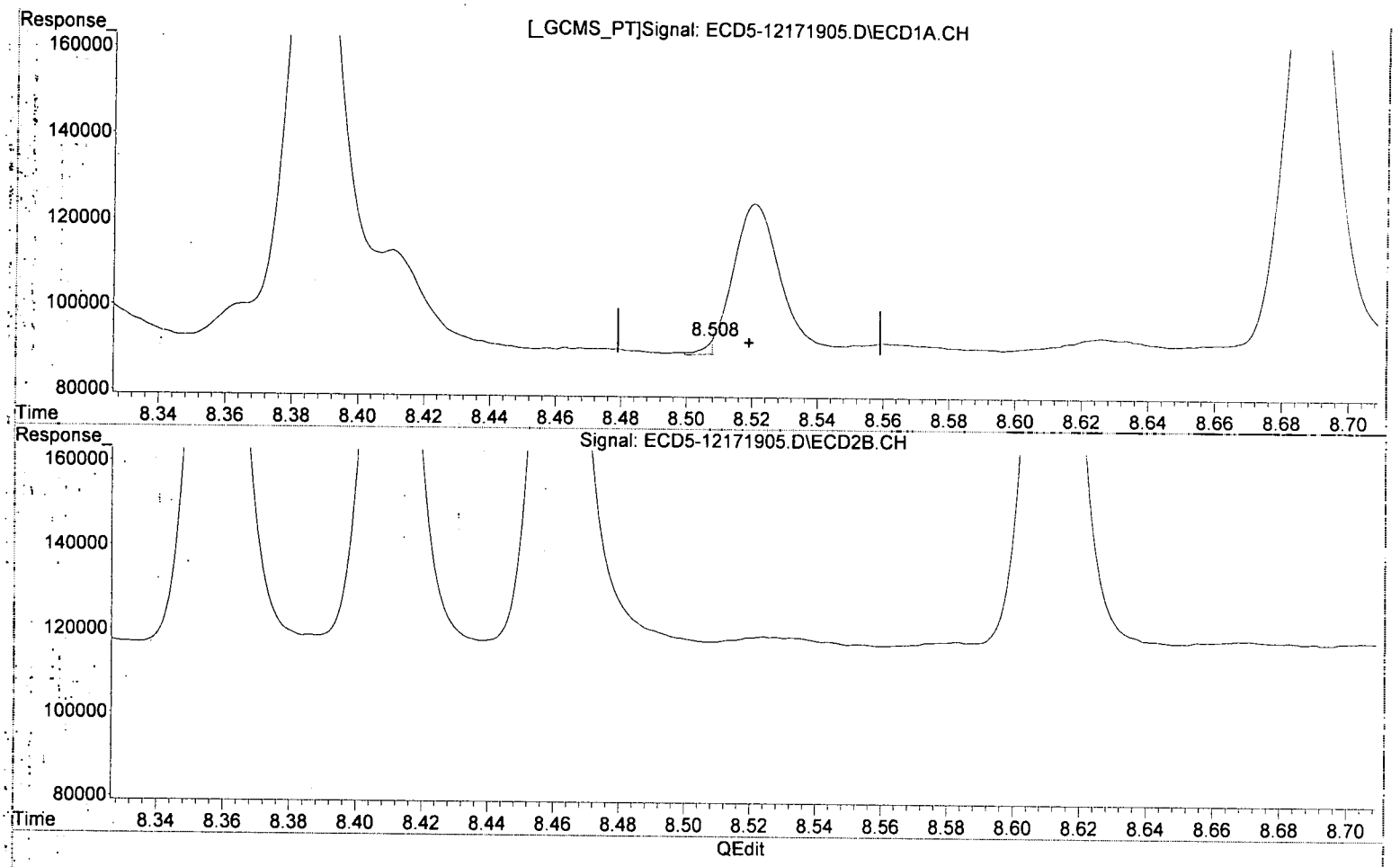


R = 1.03e+002 A*A + 4.77e+004 A - 3.06e+003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(20) Methoxychlor

8.508min 0.133 ng/mL (m)

response 3284

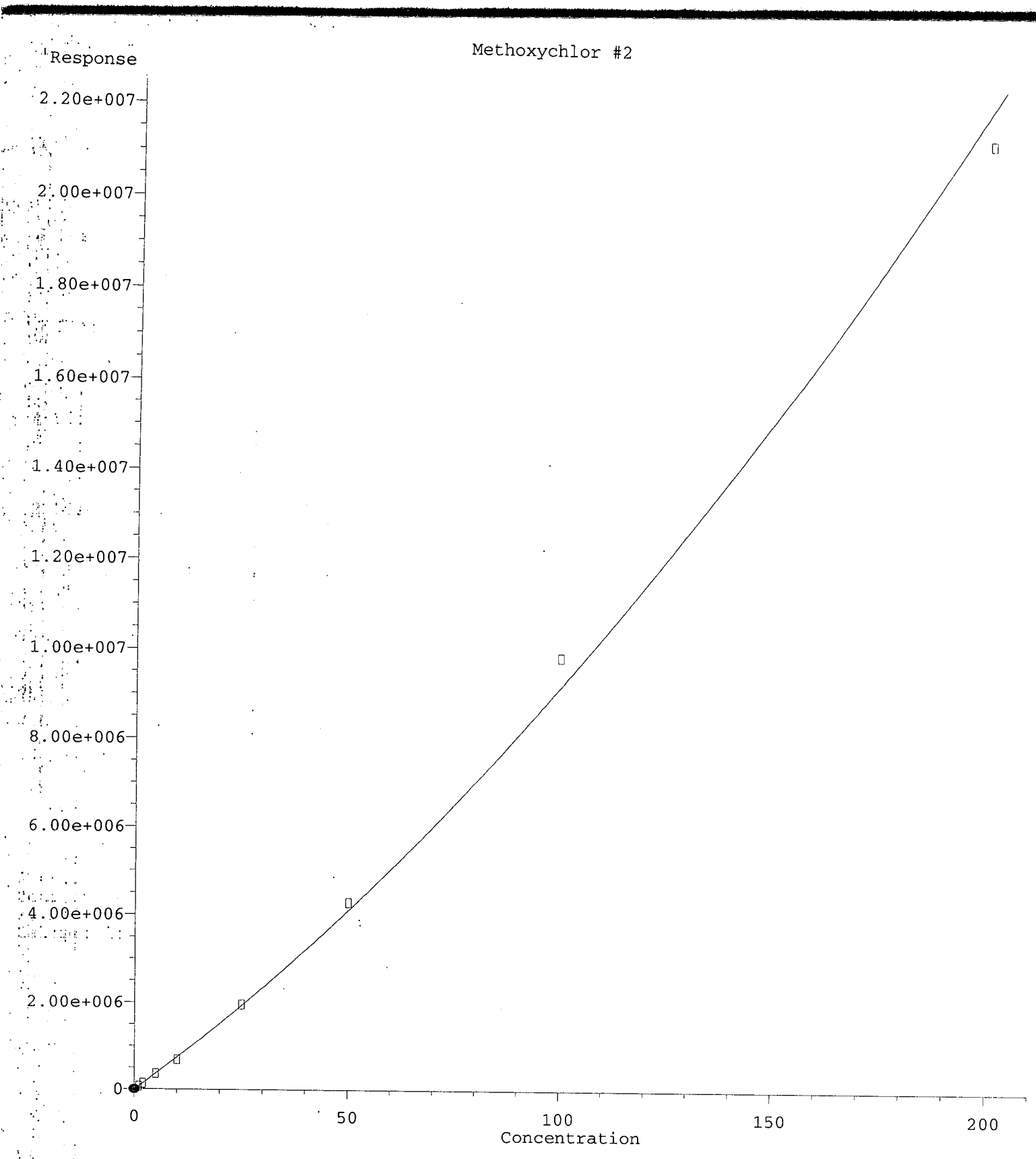
MJB 12/18/19

(20) Methoxychlor #2

9.585min 0.800 ng/mL

response 48768

(+) = Expected Retention Time

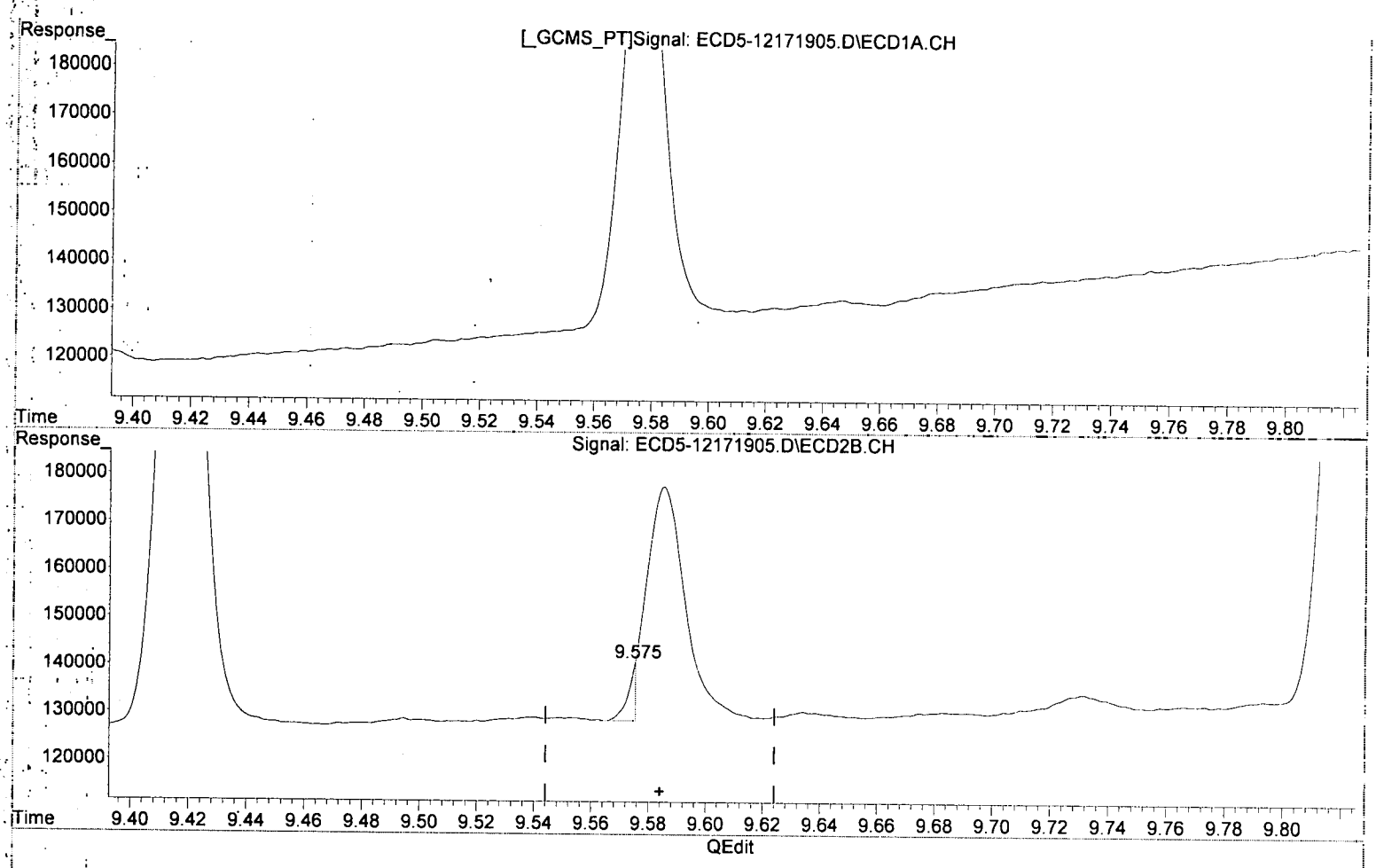


R = 1.91e+002 A*A + 7.28e+004 A - 9.63e+003
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(20) Methoxychlor

8.508min 0.133 ng/mL m

response 3284

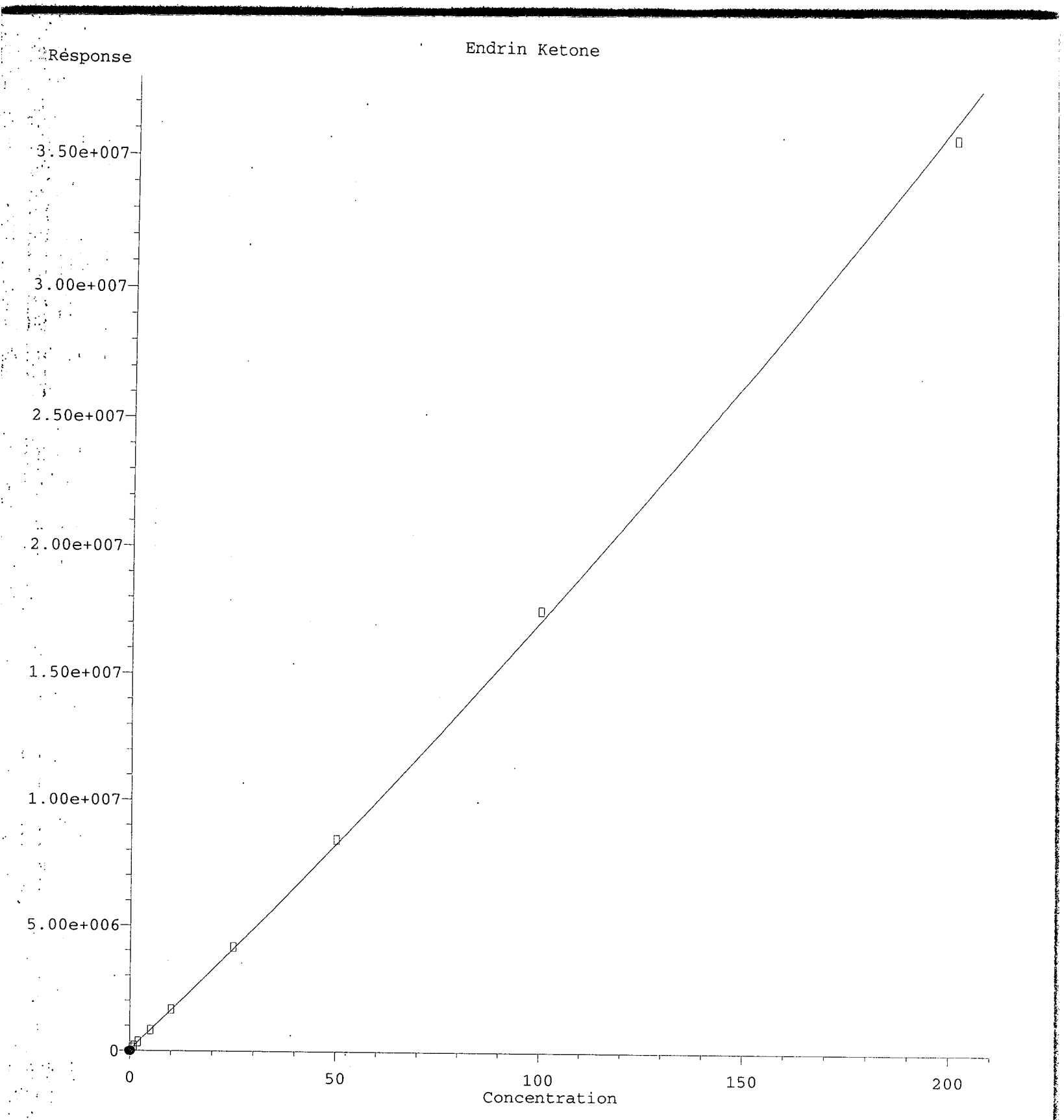
MJB 12/18/19

(20) Methoxychlor #2

9.575min 0.302 ng/mL m

response 12397

(+) = Expected Retention Time

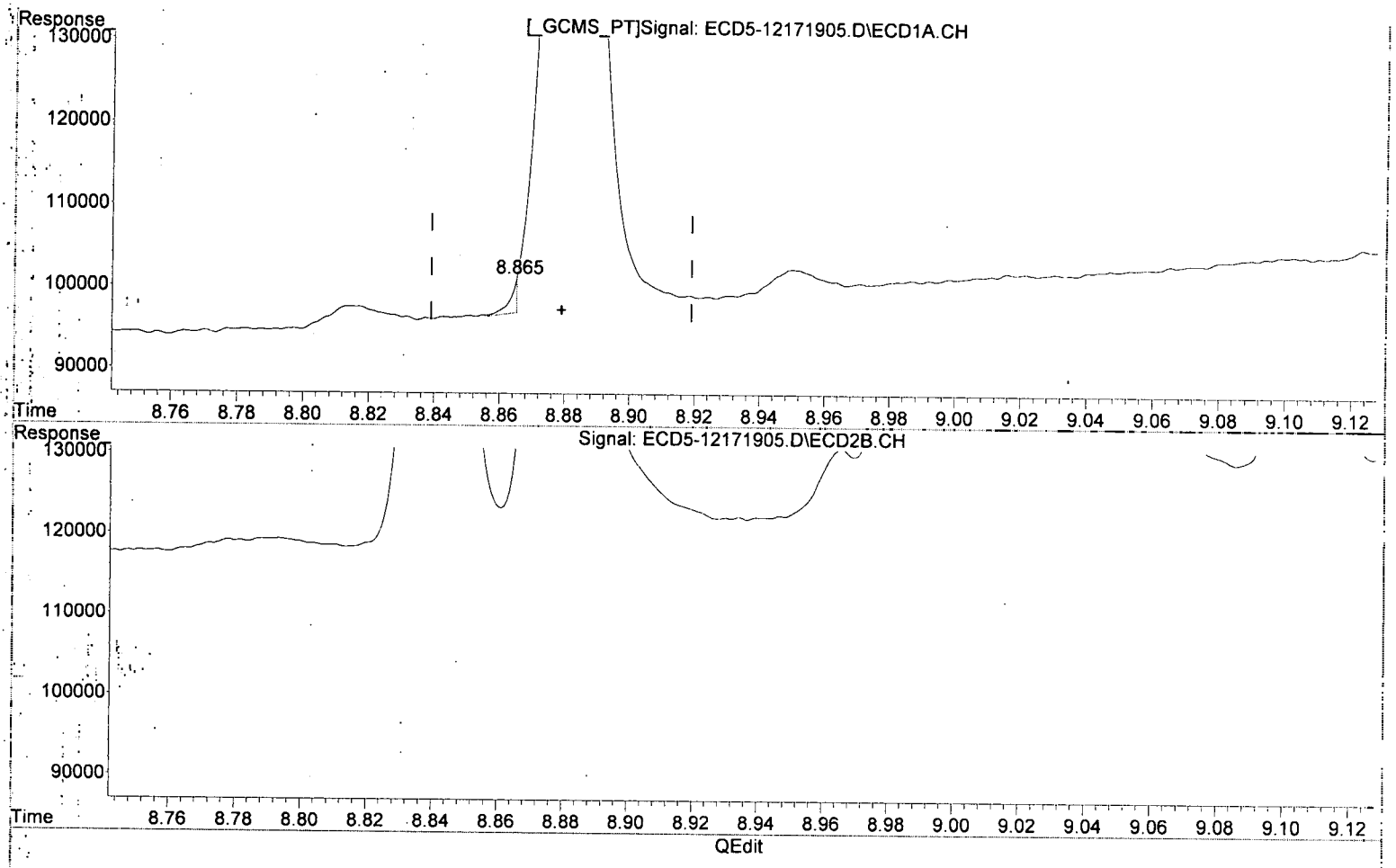


R = 1.27e+002 A*A + 1.58e+005 A + 3.72e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w/(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_1912I7.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(21) Endrin Ketone

8.865min -0.208 ng/mL

response 4231

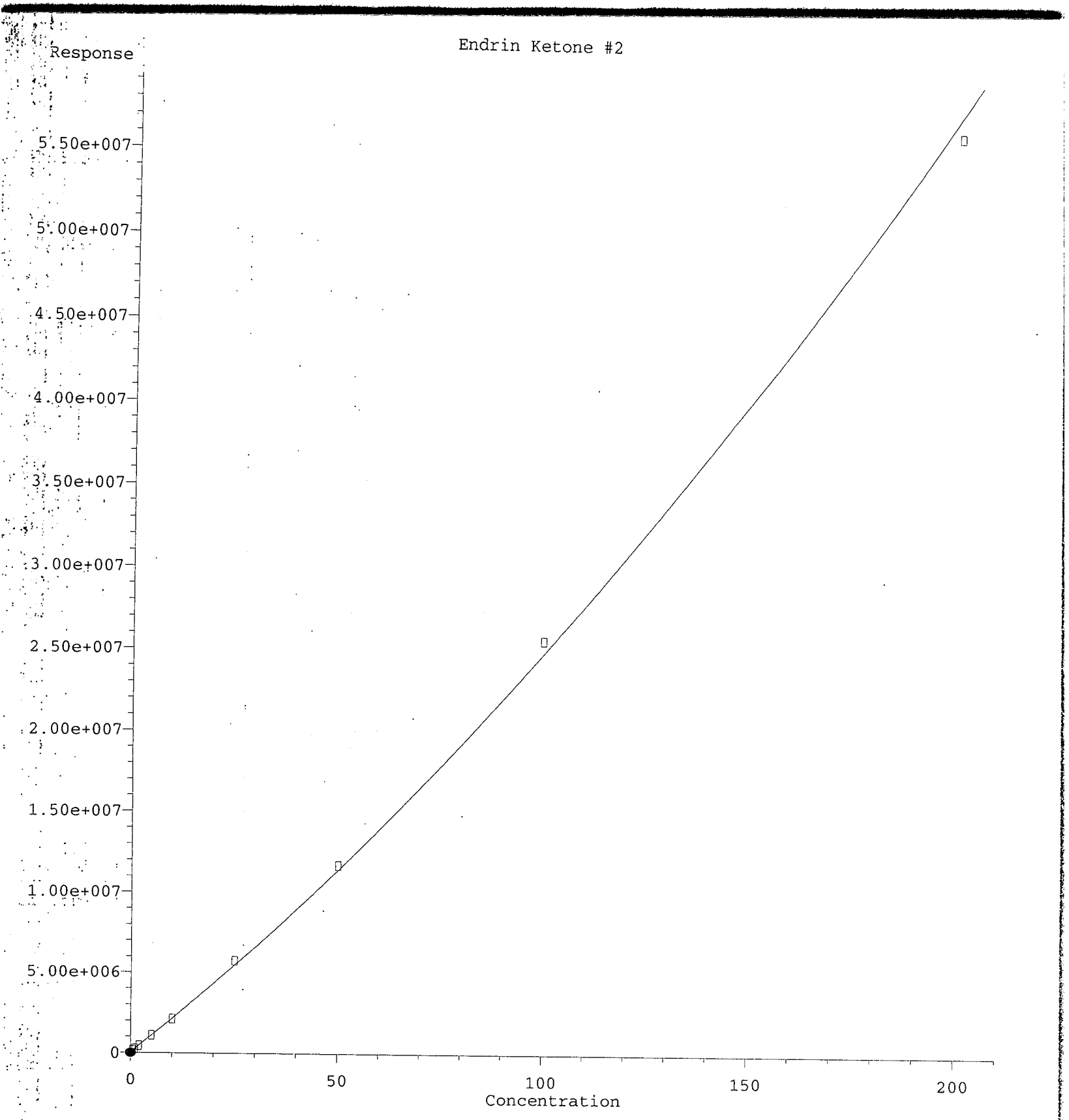
MJB 12/18/19

(21) Endrin Ketone #2

9.822min 0.518 ng/mL

response 150334

(+) = Expected Retention Time

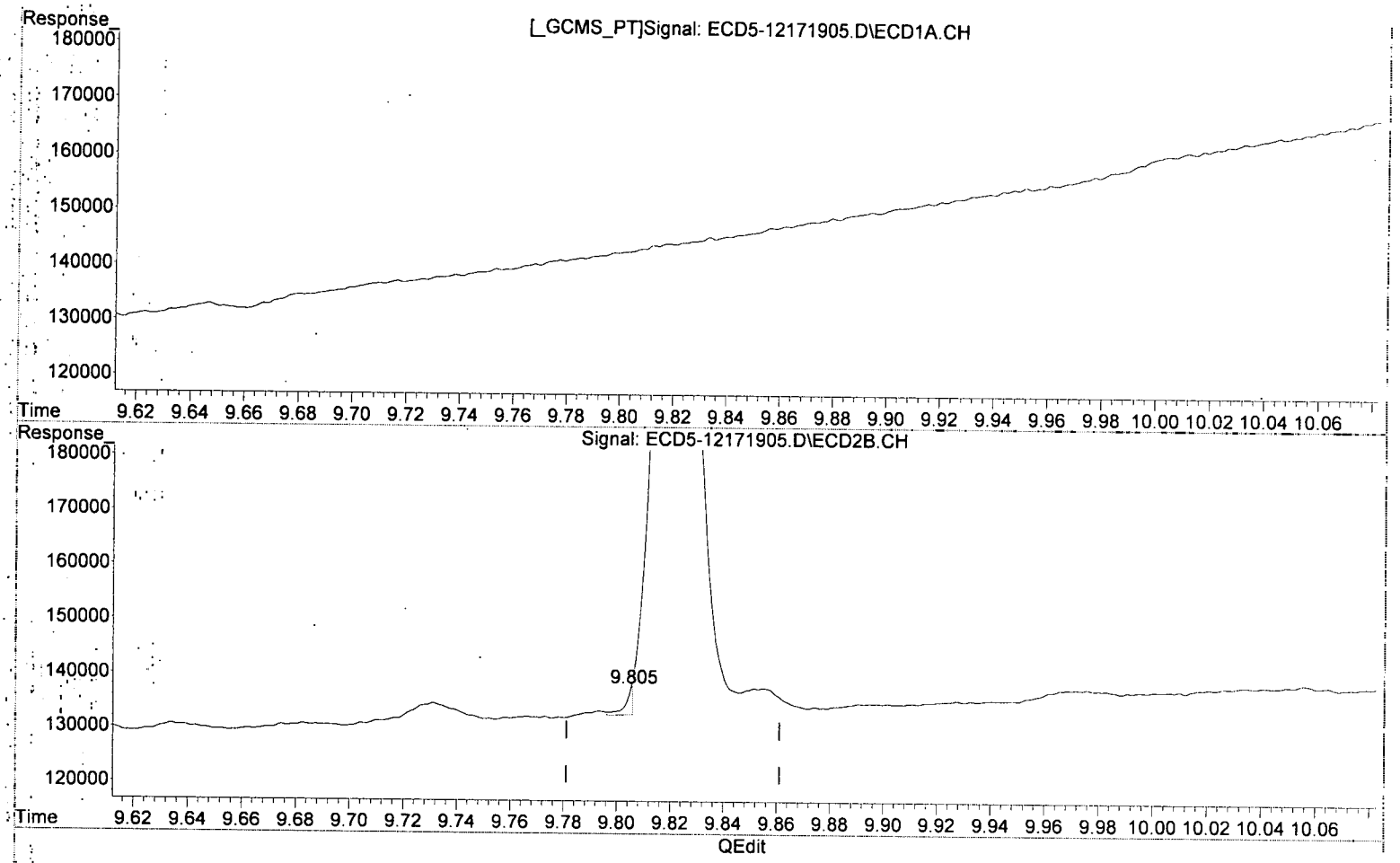


R = 4.08e+002 A*A + 2.07e+005 A + 4.31e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(21) Endrin Ketone

8.865min -0.208 ng/mL m

response 4231

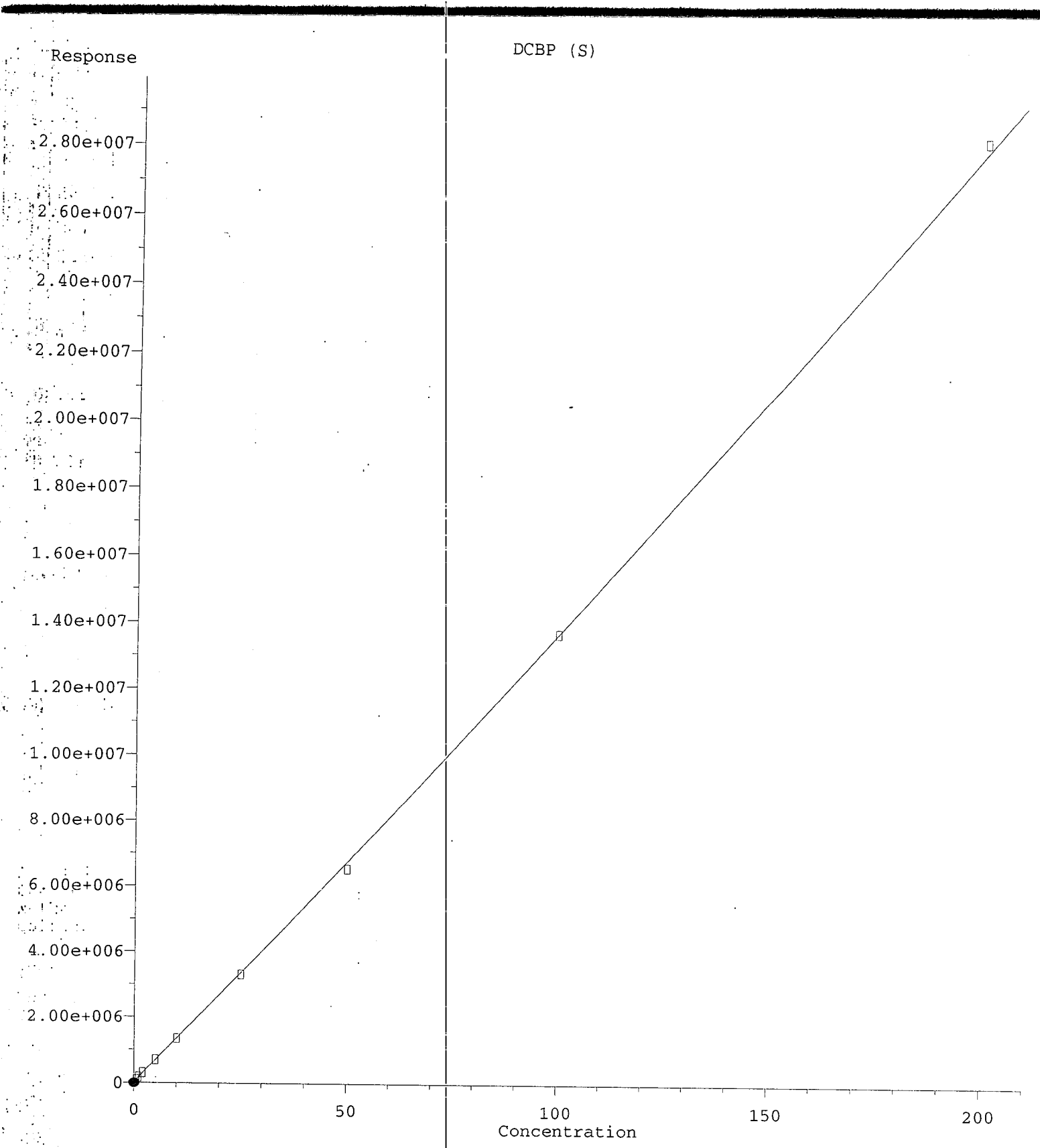
MJB 12/18/19

(21) Endrin Ketone #2

9.805min -0.185 ng/mL m

response 4996

(+) = Expected Retention Time

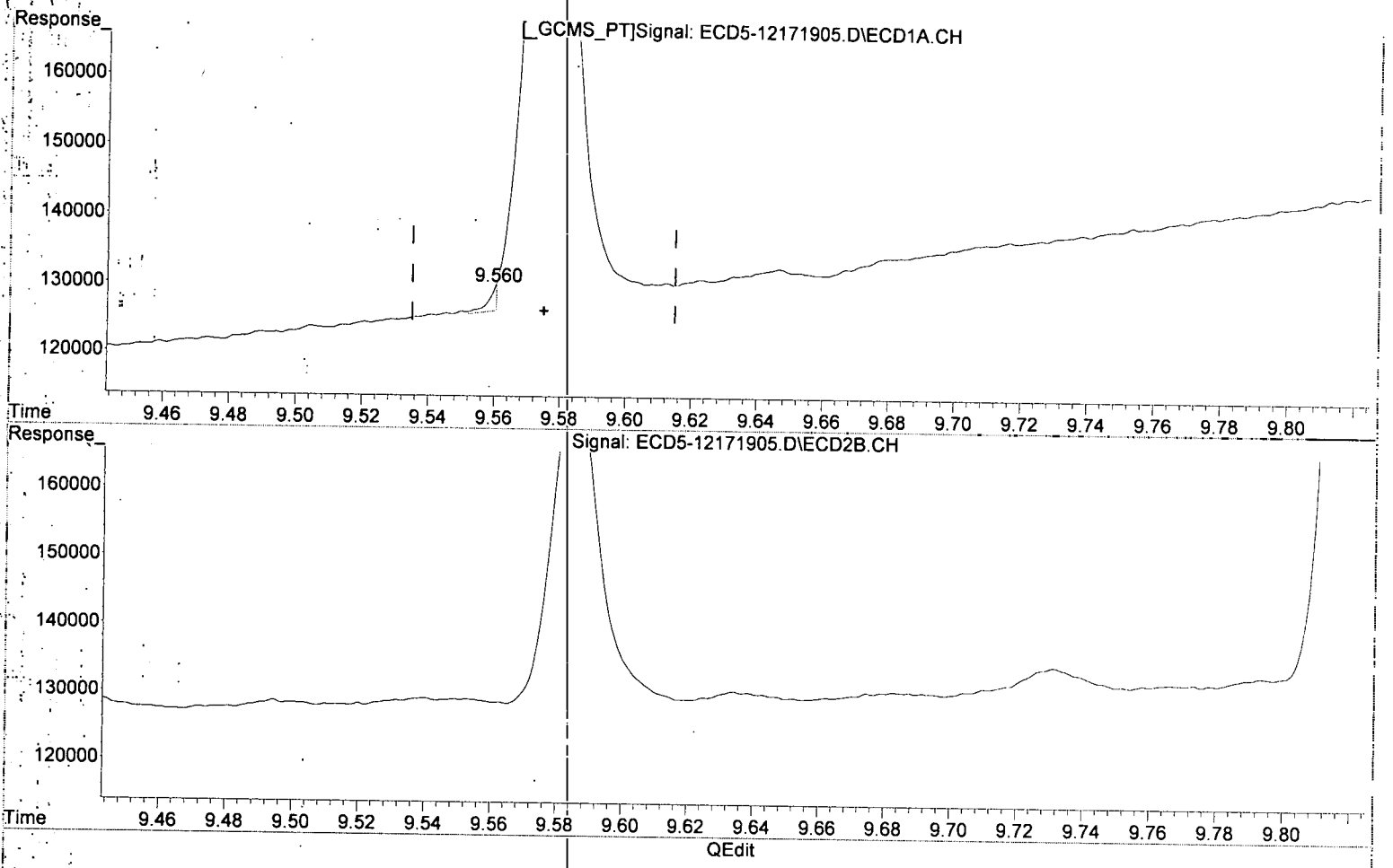


R = 4.27e+001 A*A + 1.32e+005 A + 2.83e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(22) DCBP (S) (S)

9.560min -0.187 ng/mL (m)

response 3571

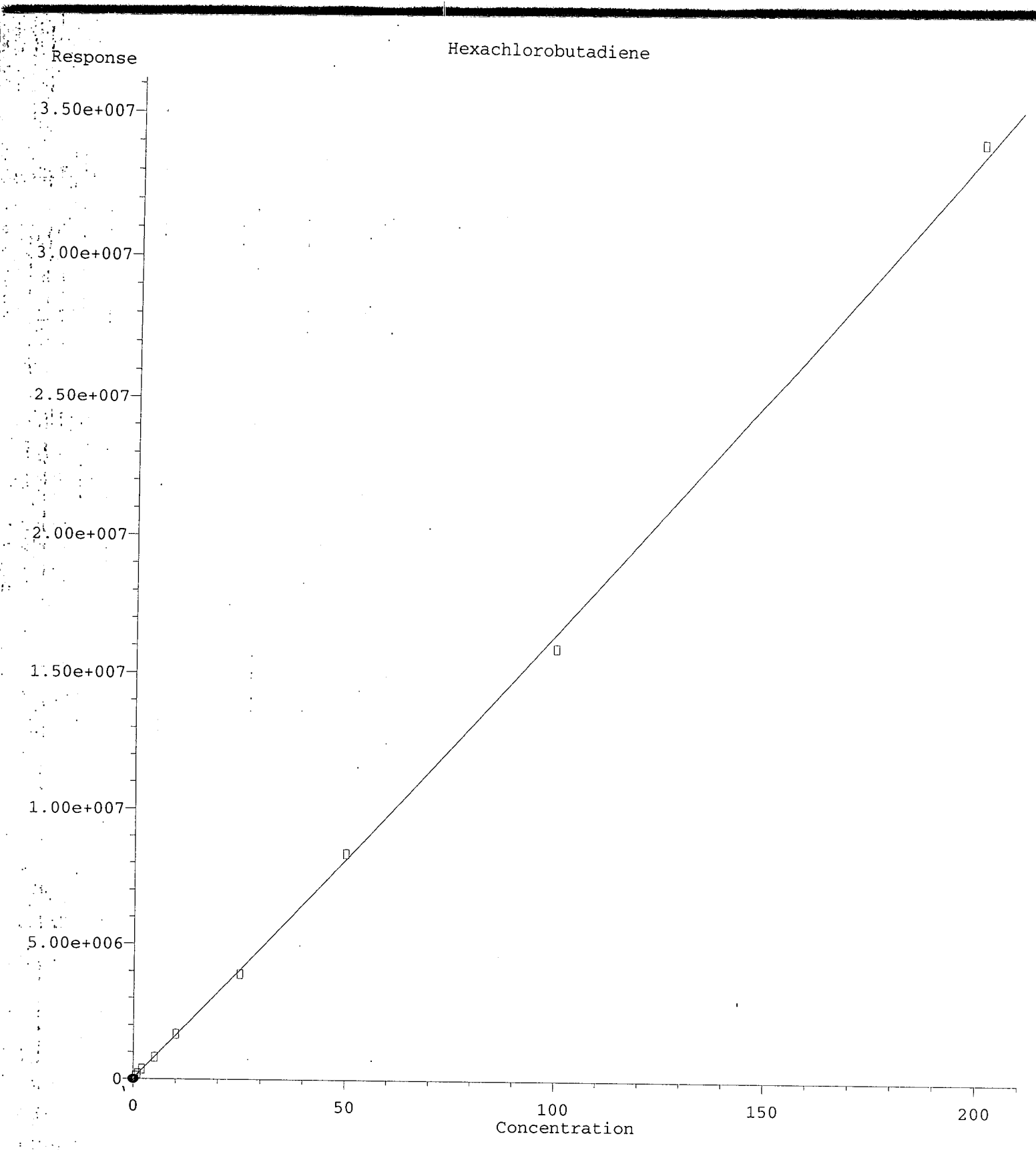
WB 12/18/19

(22) DCBP (S) #2 (S)

10.702min 0.604 ng/mL

response 102856

(+) = Expected Retention Time

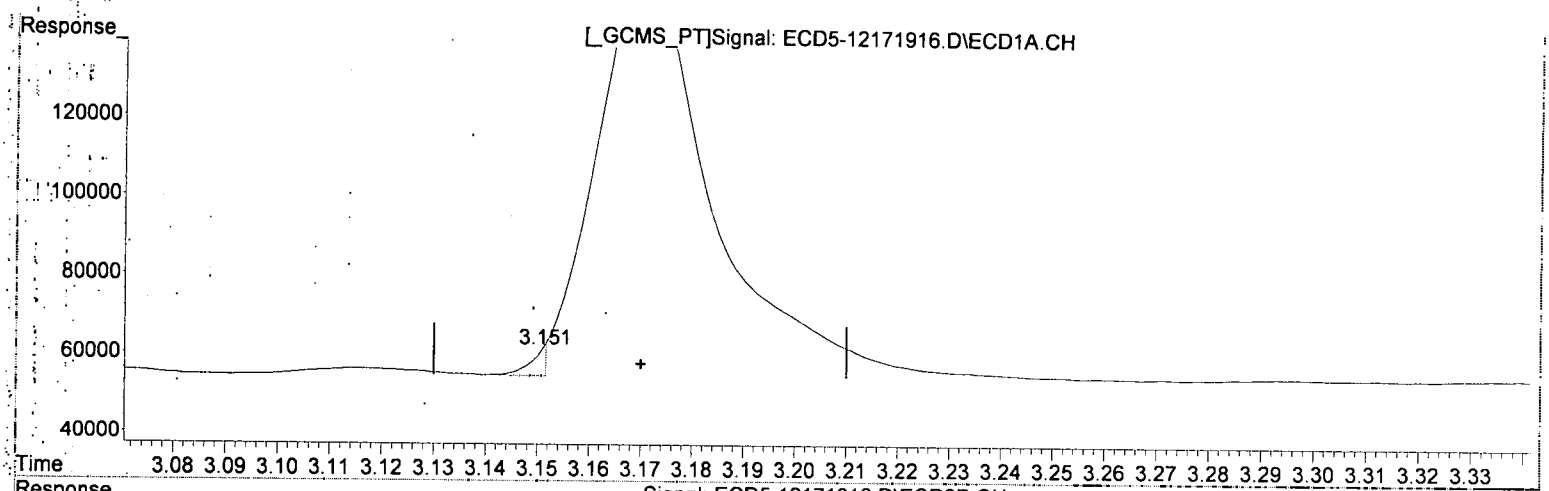


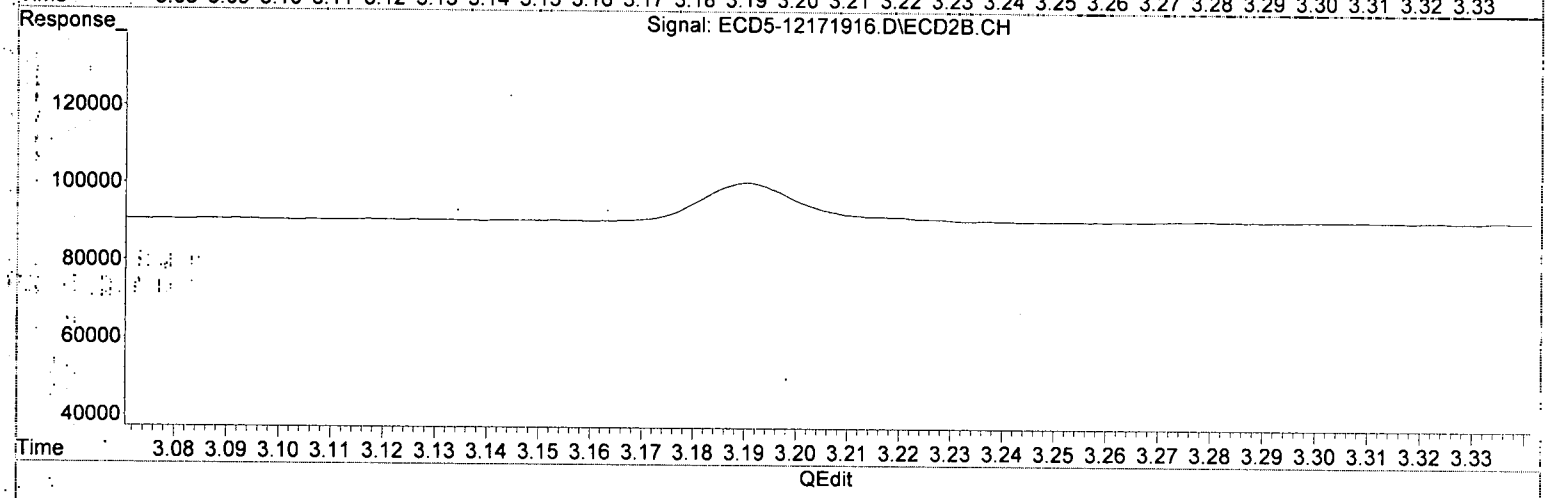
R = 4.95e+001 A*A + 1.60e+005 A + 2.71e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_1912I7.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:18
Operator : MJB
Sample : 9L17040-CALA
Misc : A19L232, 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: Dec 17 18:48:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(23) Hexachlorobutadiene

3.151min -0.127 ng/mL m

response 6805

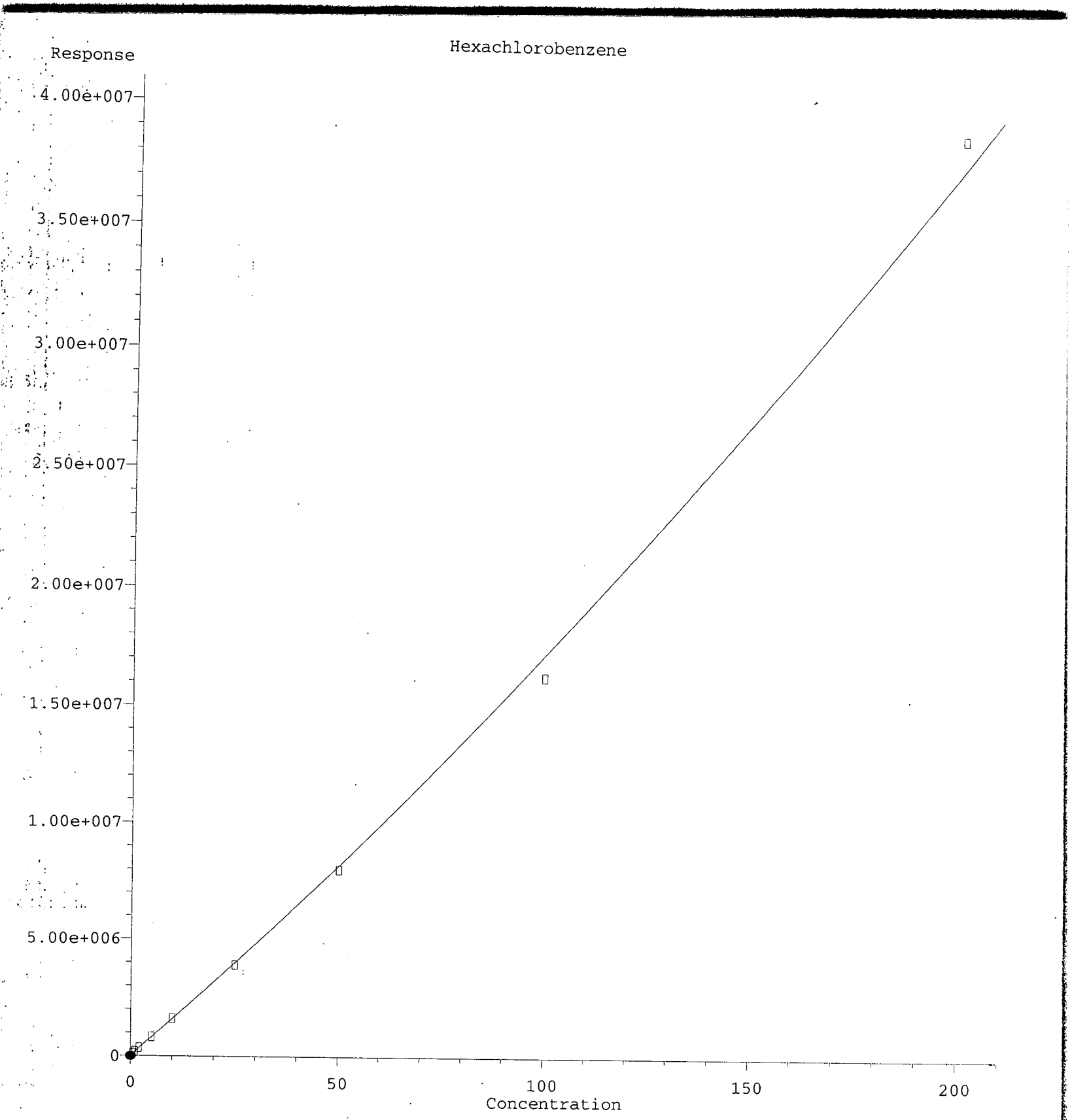
WB 1/16/19

(23) Hexachlorobutadiene #2

3.775min 0.575 ng/mL

response 208302

(+) = Expected Retention Time

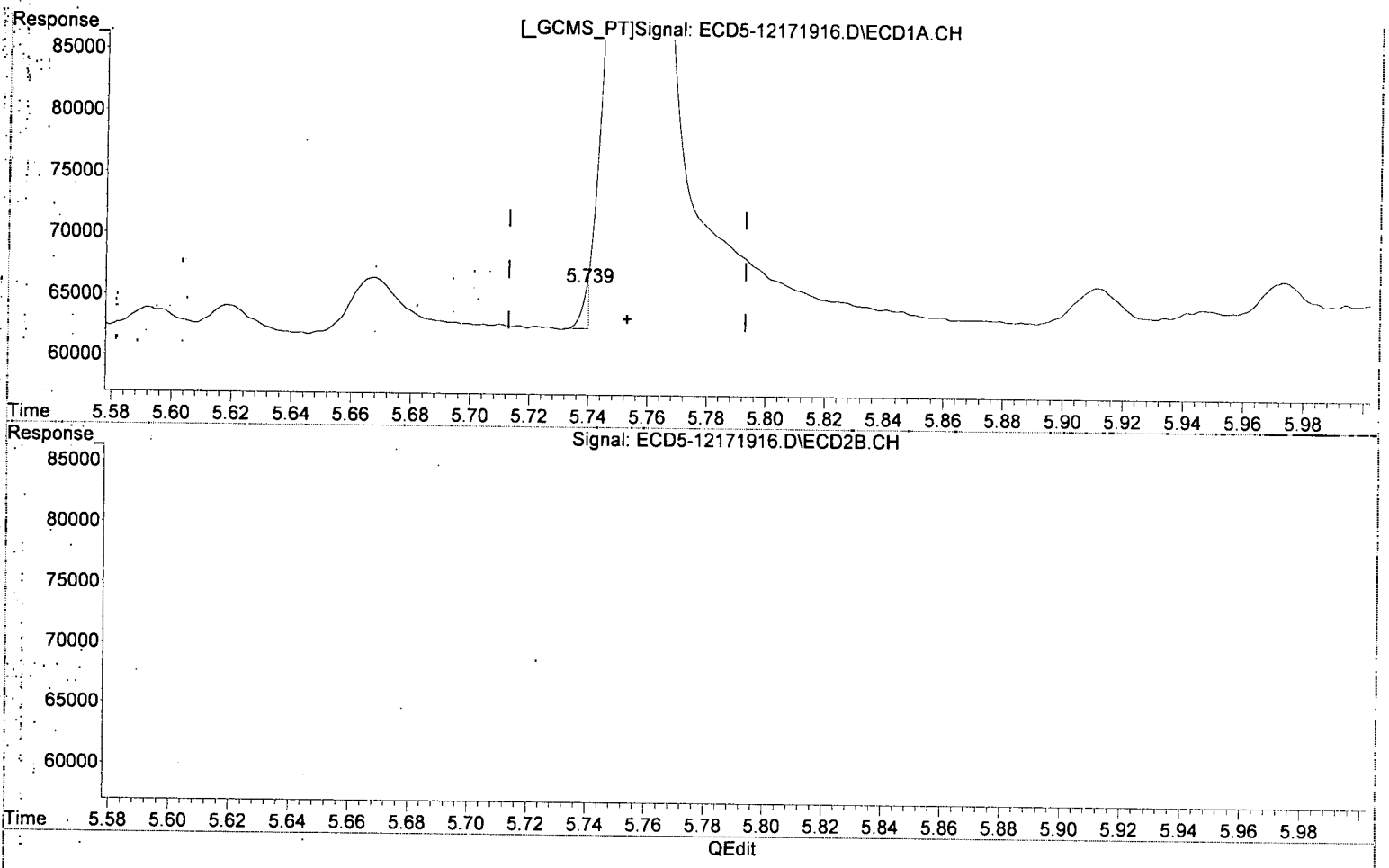


R = 1.74e+002 A*A + 1.54e+005 A + 2.97e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:18
Operator : MJB
Sample : 9L17040-CALA
Misc : A19L232, 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: Dec 17 18:48:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(24) Hexachlorobenzene

5.739min -0.170 ng/mL (m)

response 3468

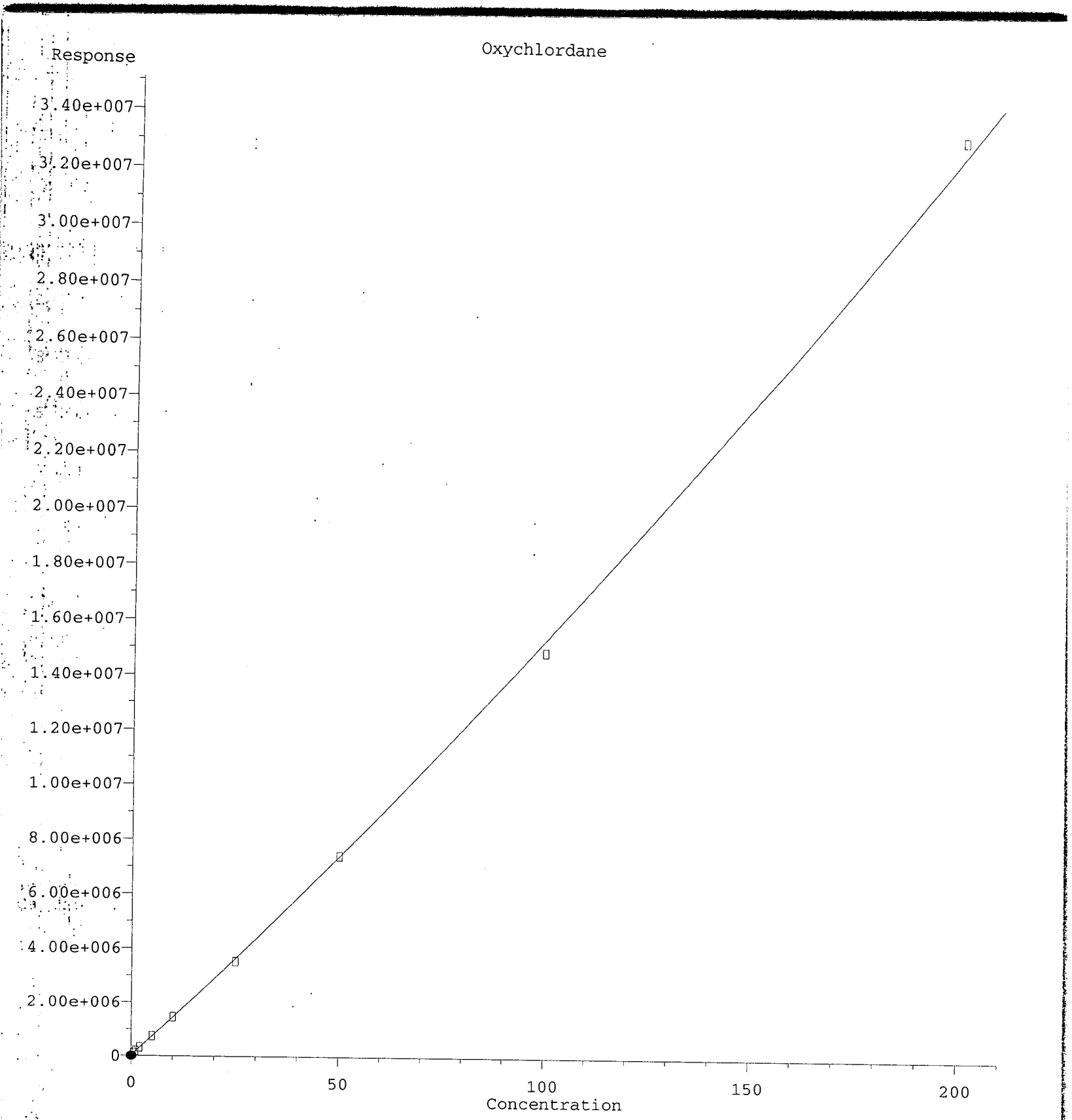
MJB 12/19/19

(24) Hexachlorobenzene #2

6.563min 0.574 ng/mL

response 168053

(+) = Expected Retention Time

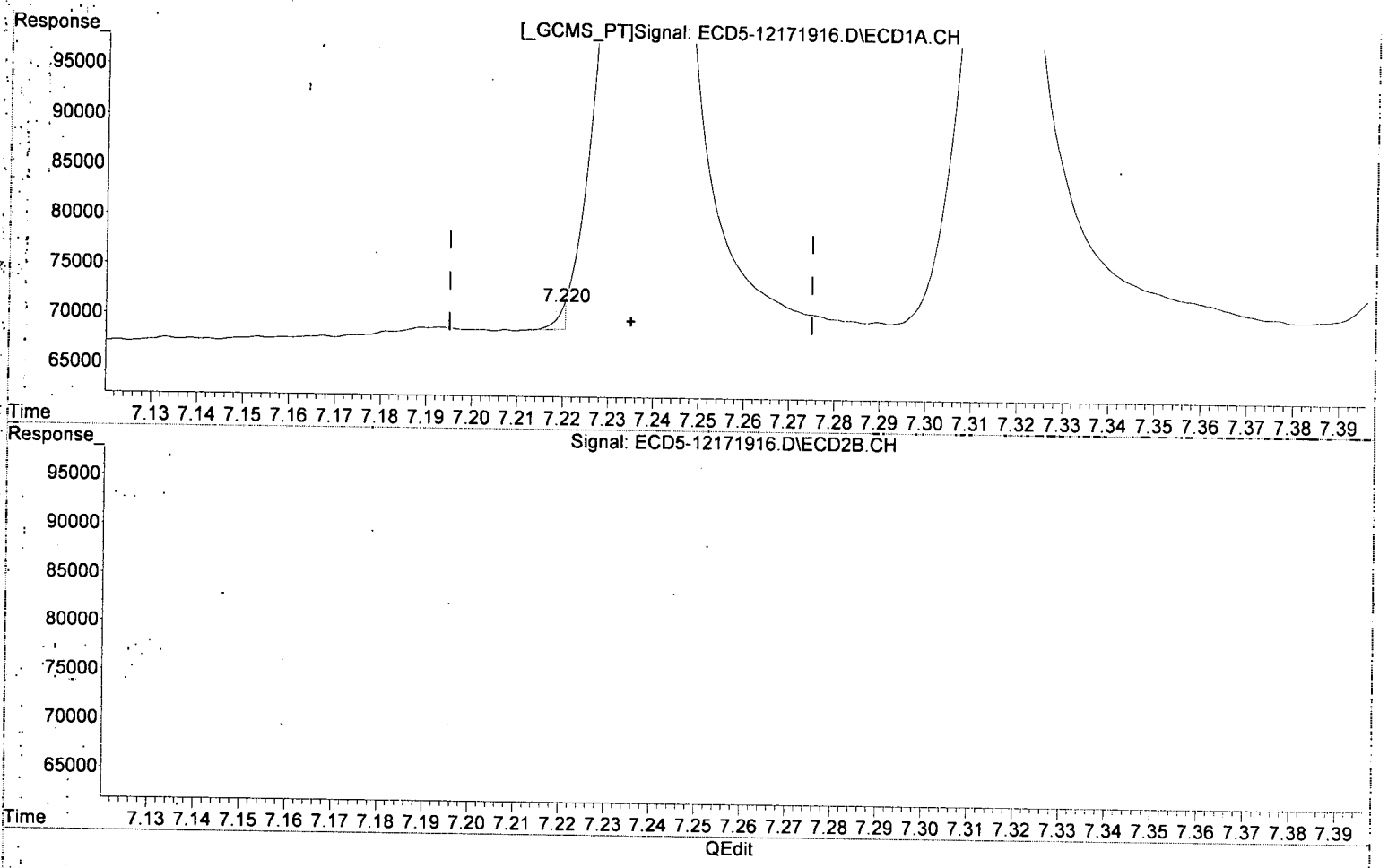


R = 1.15e+002 A*A + 1.41e+005 A + 2.74e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:18
Operator : MJB
Sample : 9L17040-CALA
Misc : A19L232, 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: Dec 17 18:48:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(25) Oxychlordane

7.220min -0.177 ng/mL (m)

response 2310

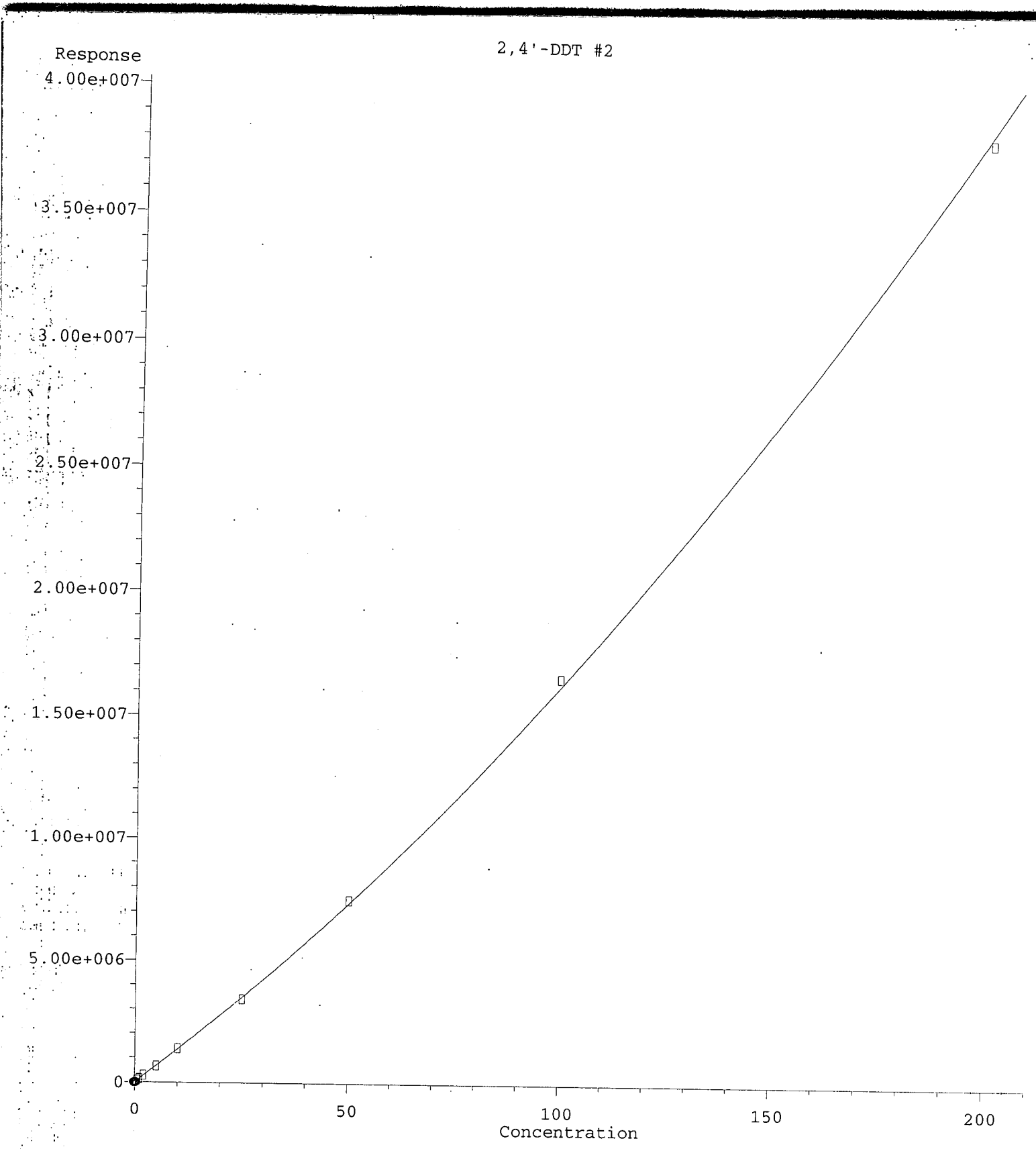
MJB 12/18/19

(25) Oxychlordane #2

8.038min 0.579 ng/mL

response 146369

(+) = Expected Retention Time

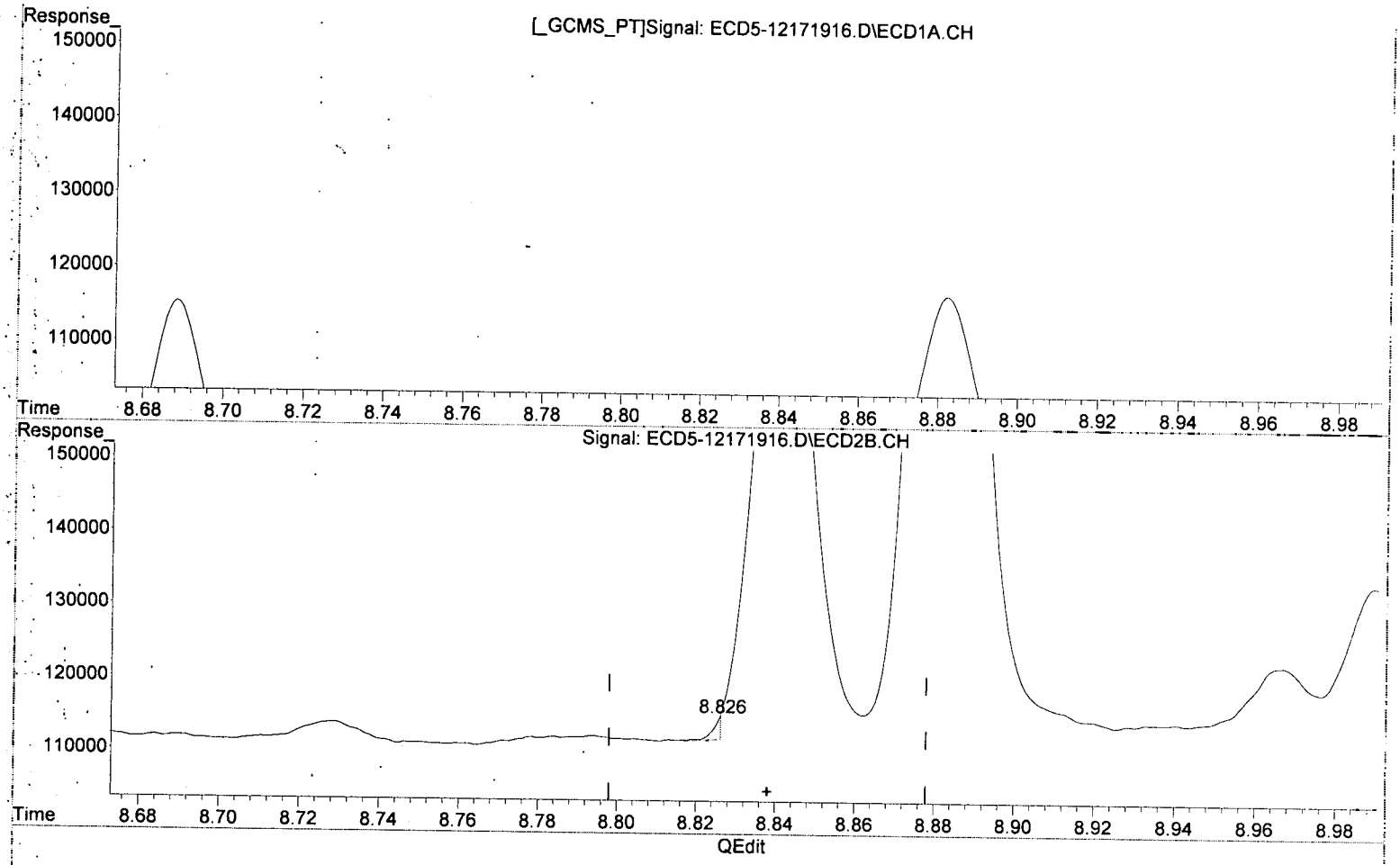


R = 3.10e+002 A*A + 1.31e+005 A + 1.22e+004
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:18
Operator : MJB
Sample : 9L17040-CALA
Misc : A19L232, 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: Dec 17 18:48:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.870min 0.523 ng/mL

response 50574

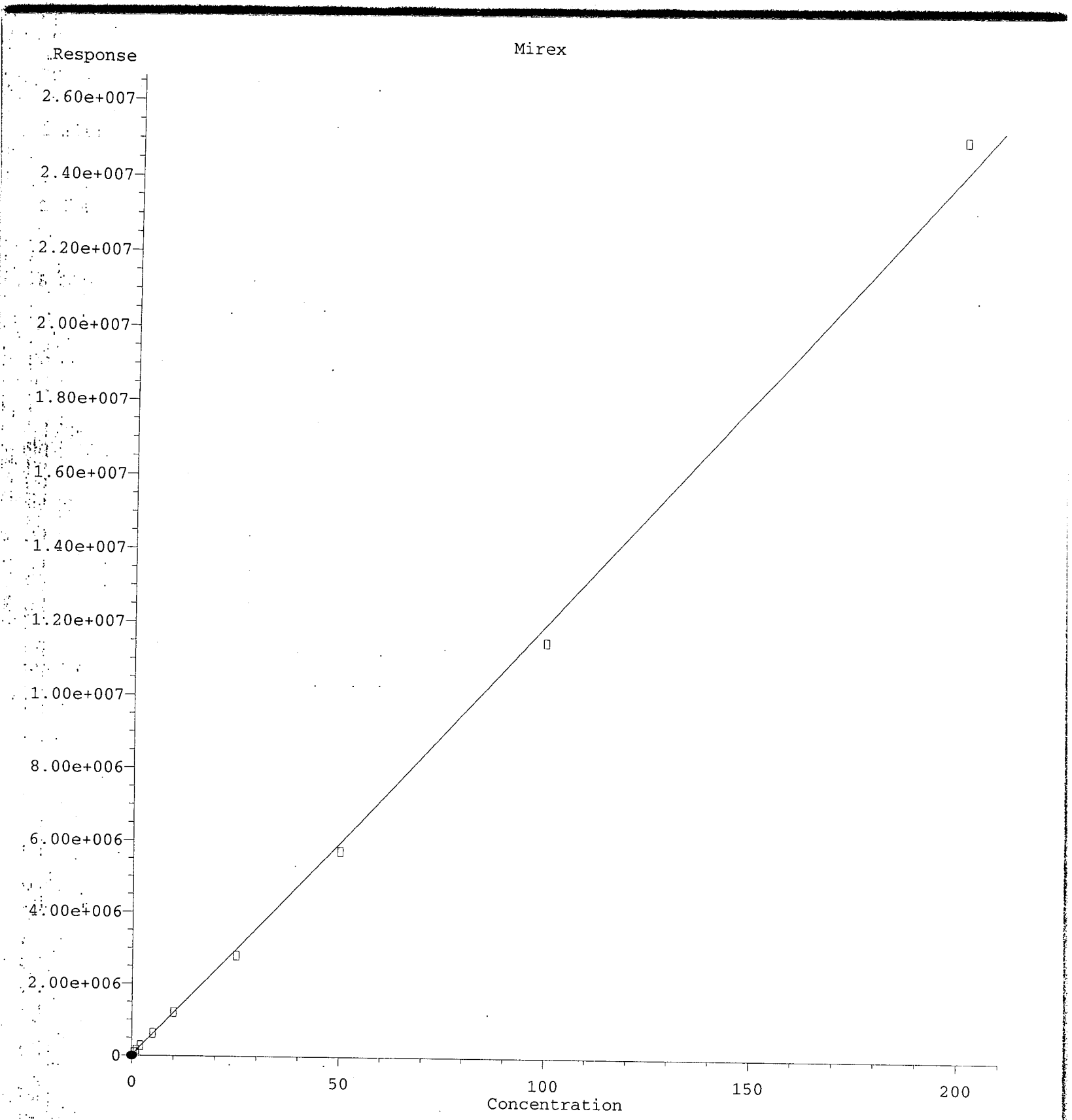
MJB 12/18/19

(29) 2,4'-DDT #2

8.826min -0.071 ng/mL (m)

response 2957

(+) = Expected Retention Time

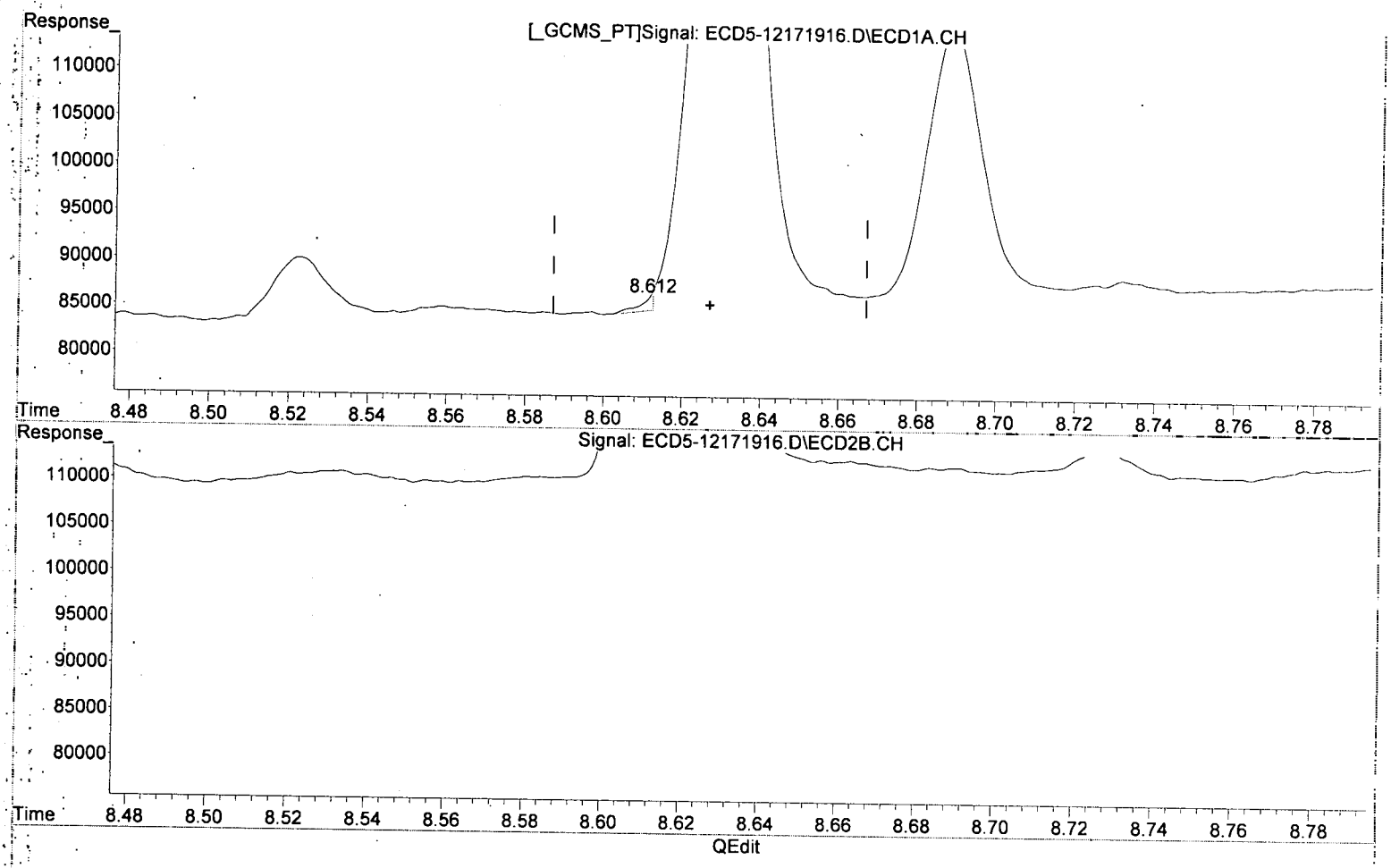


R = 2.43e+001 A*A + 1.17e+005 A + 3.00e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:18
Operator : MJB
Sample : 9L17040-CALA
Misc : A19L232, 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: Dec 17 18:48:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.612min -0.243 ng/mL (m)

response 1467

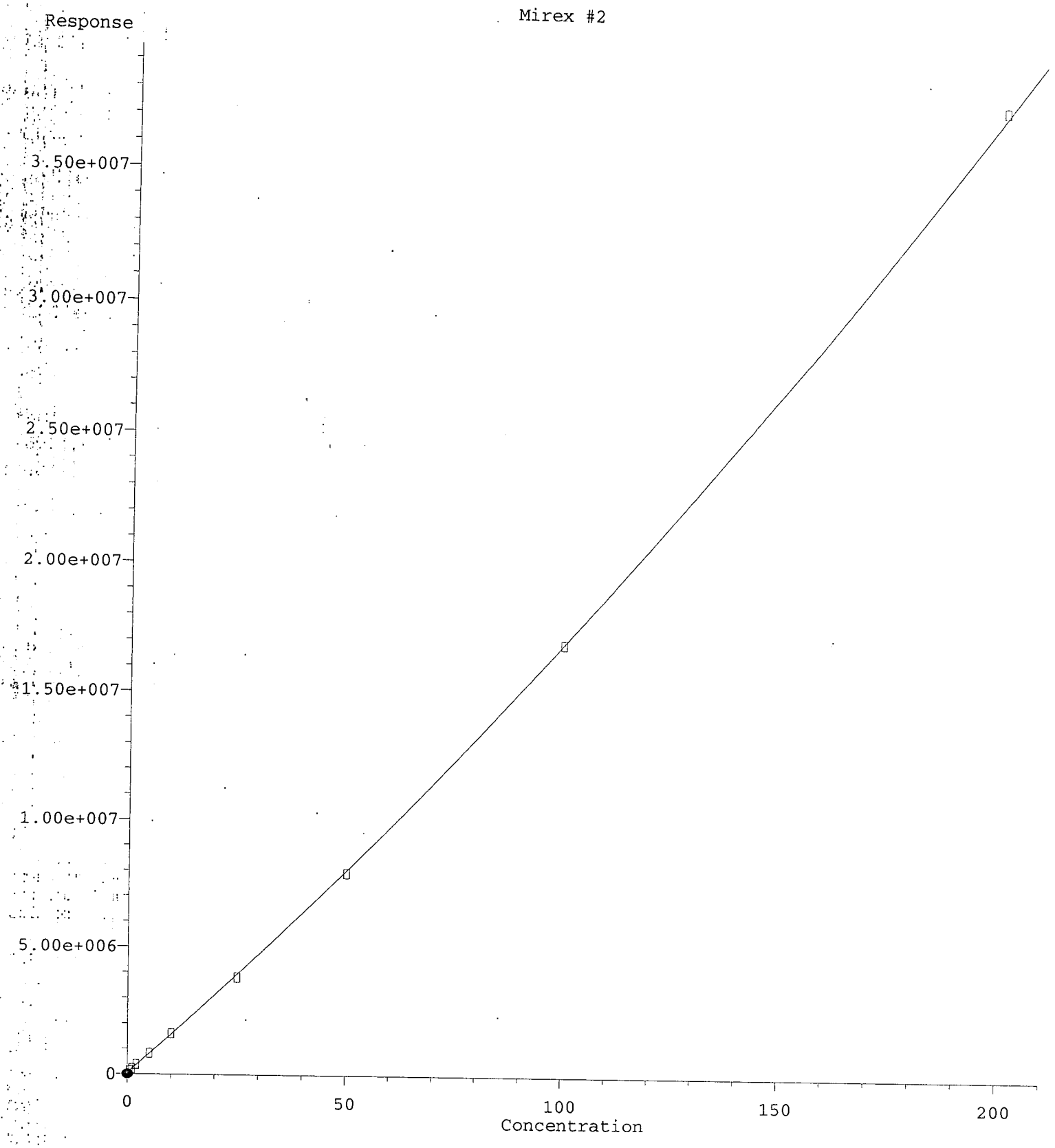
MJB 12/18/19

(31) Mirex #2

9.819min 0.495 ng/mL

response 131195

(+) = Expected Retention Time

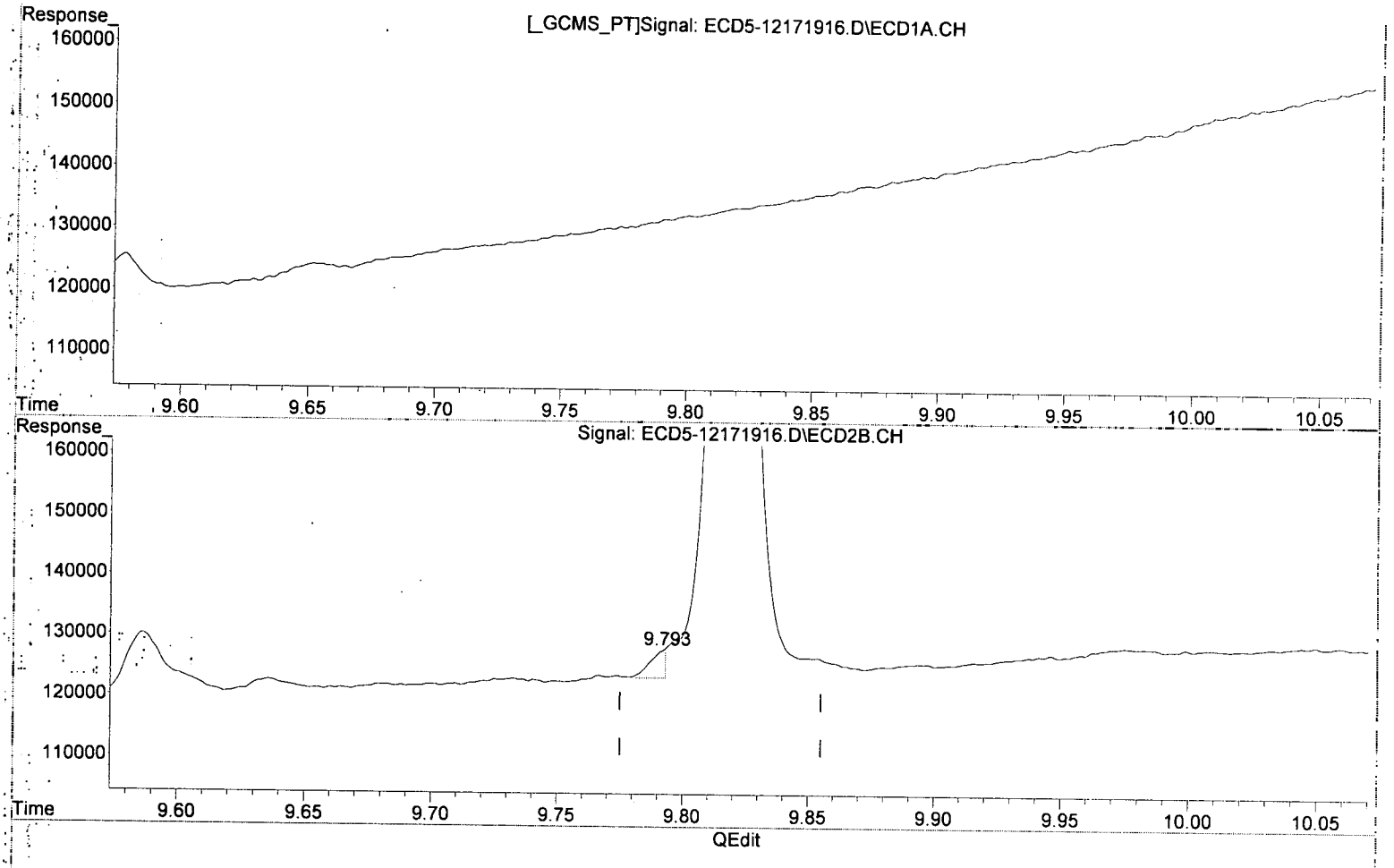


R = 1.80e+002 A*A + 1.51e+005 A + 5.66e+004
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:18
Operator : MJB
Sample : 9L17040-CALA
Misc : A19L232, 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: Dec 17 18:48:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.612min -0.243 ng/mL m

response 1467

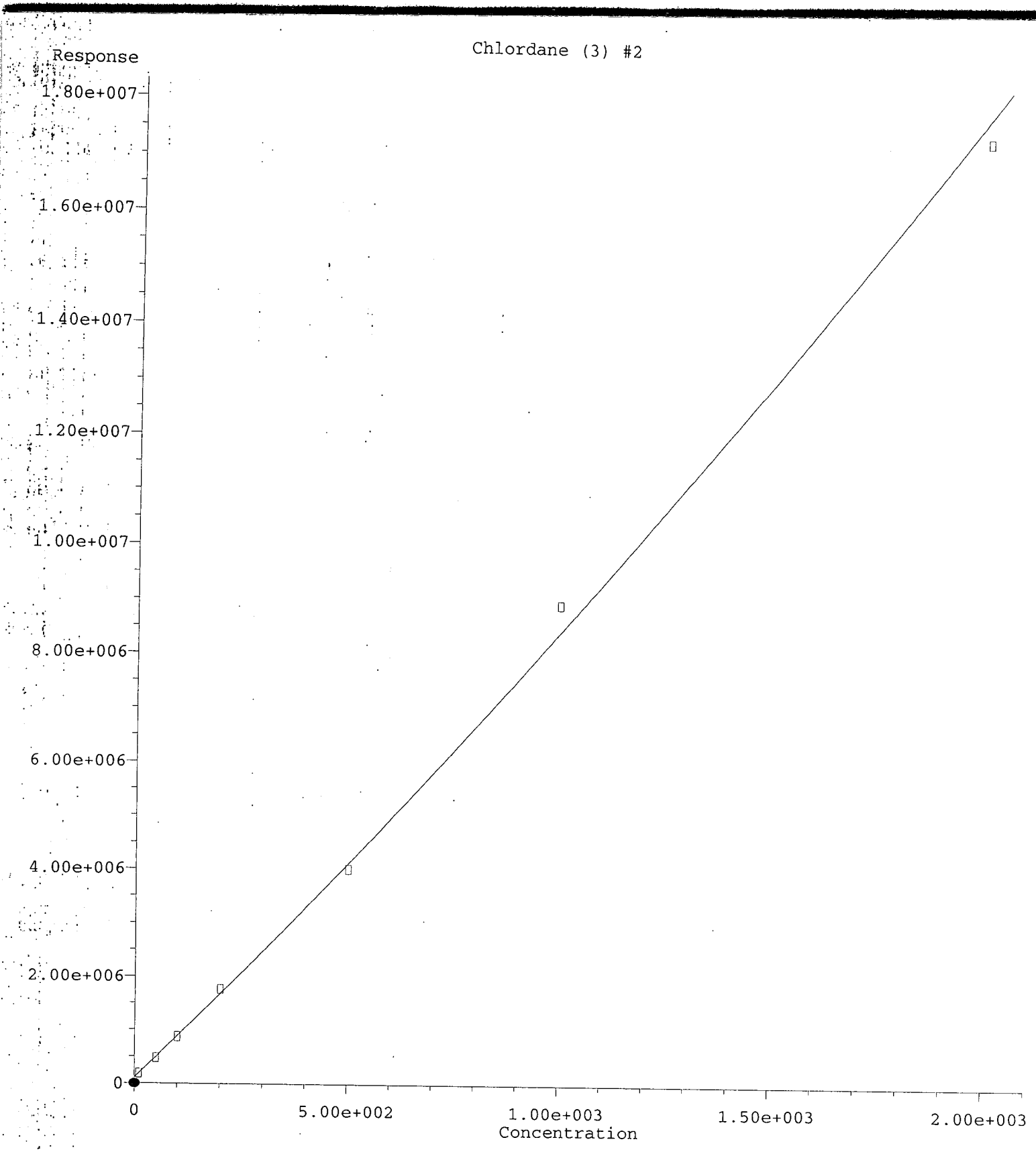
MJB 12/18/19

(31) Mirex #2

9.793min -0.344 ng/mL m

response 4717

(+) = Expected Retention Time

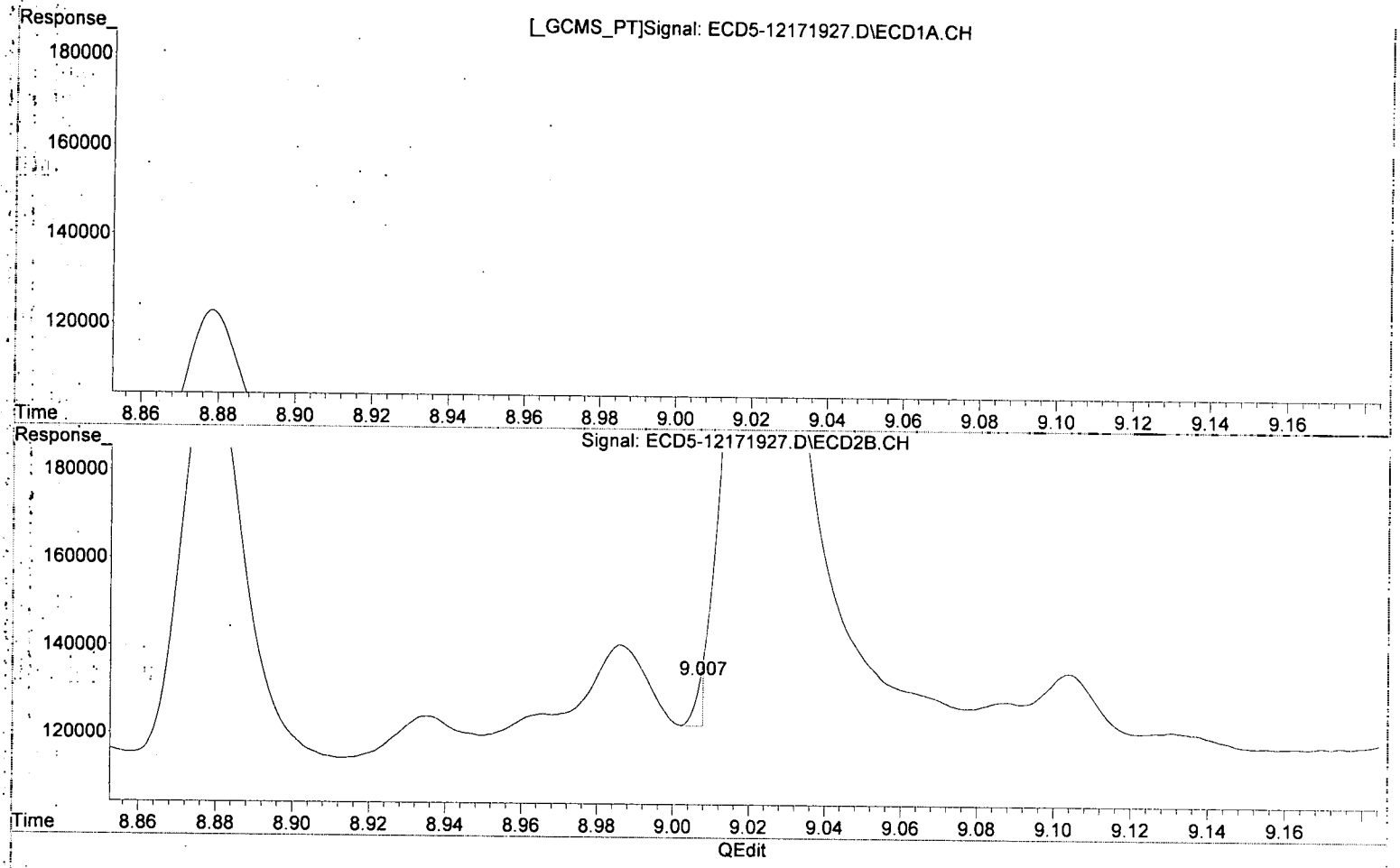


R = 5.80e-001 A*A + 7.72e+003 A + 1.06e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 18:27
Operator : MJB
Sample : 9L17040-CALJ
Misc : A19L233, 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: Dec 18 11:50:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(34) Chlordane (3)

8.046min 10.560 ng/mL

response 60278

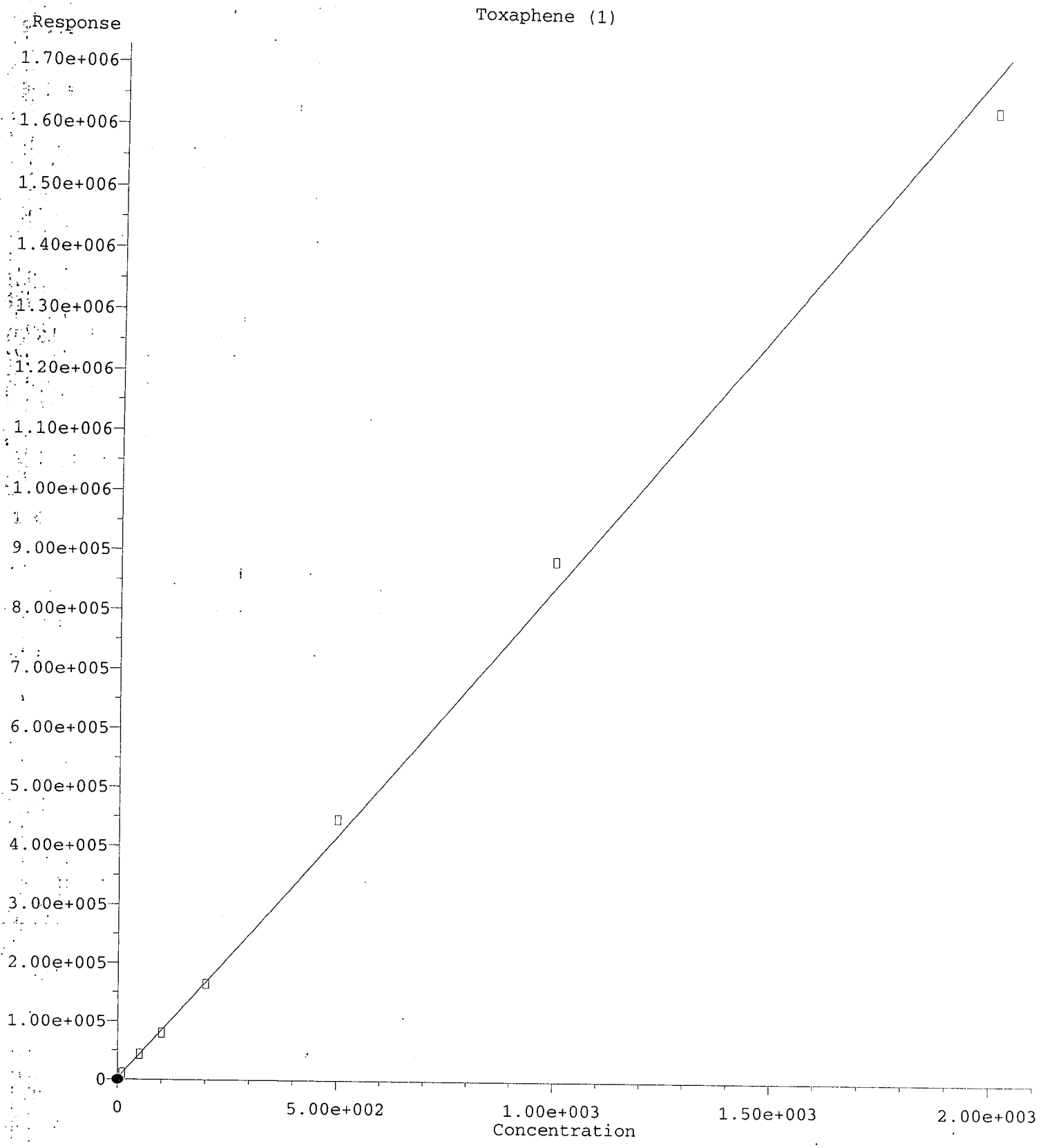
MJB 12/18/19

(34) Chlordane (3) #2

9.007min -12.388 ng/mL m

response 10699

(+) = Expected Retention Time

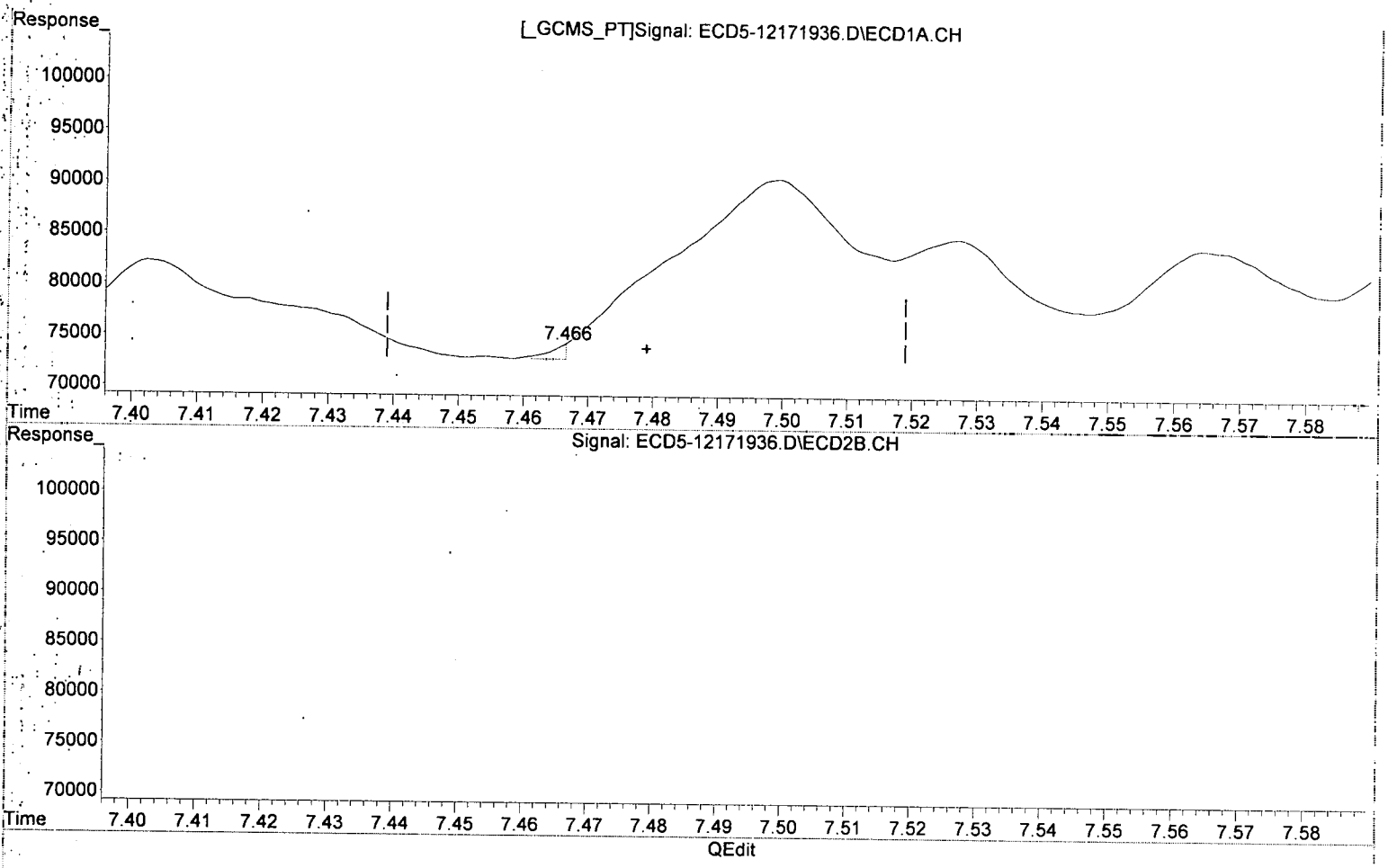


R = 1.53e-002 A*A + 8.23e+002 A + 2.47e+003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:54:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.466min -1.172 ng/mL (m)

response 1506

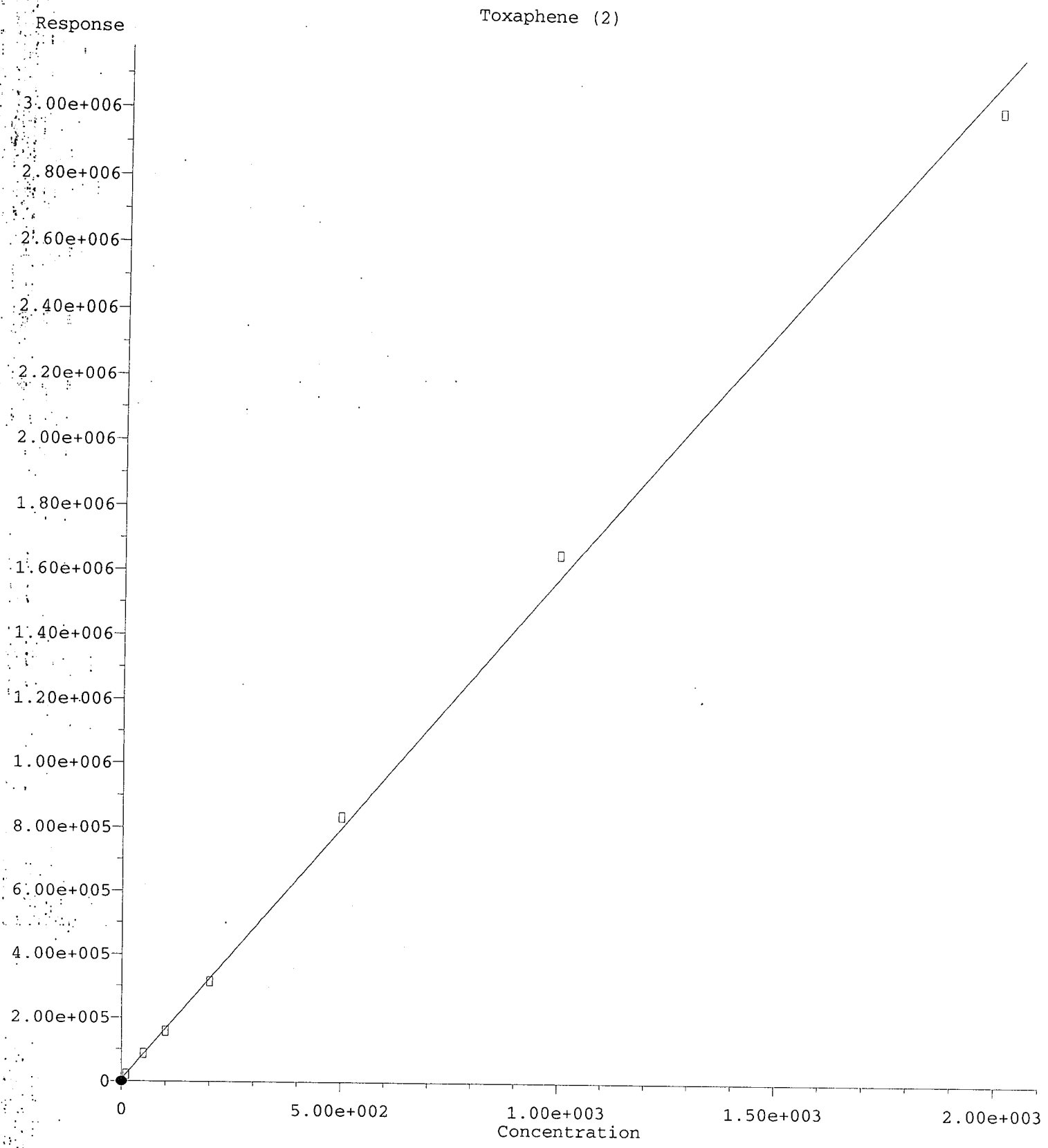
MJB 12/18/19

(36) Toxaphene (1) #2

8.571min 9.896 ng/mL

response 23414

(+) = Expected Retention Time

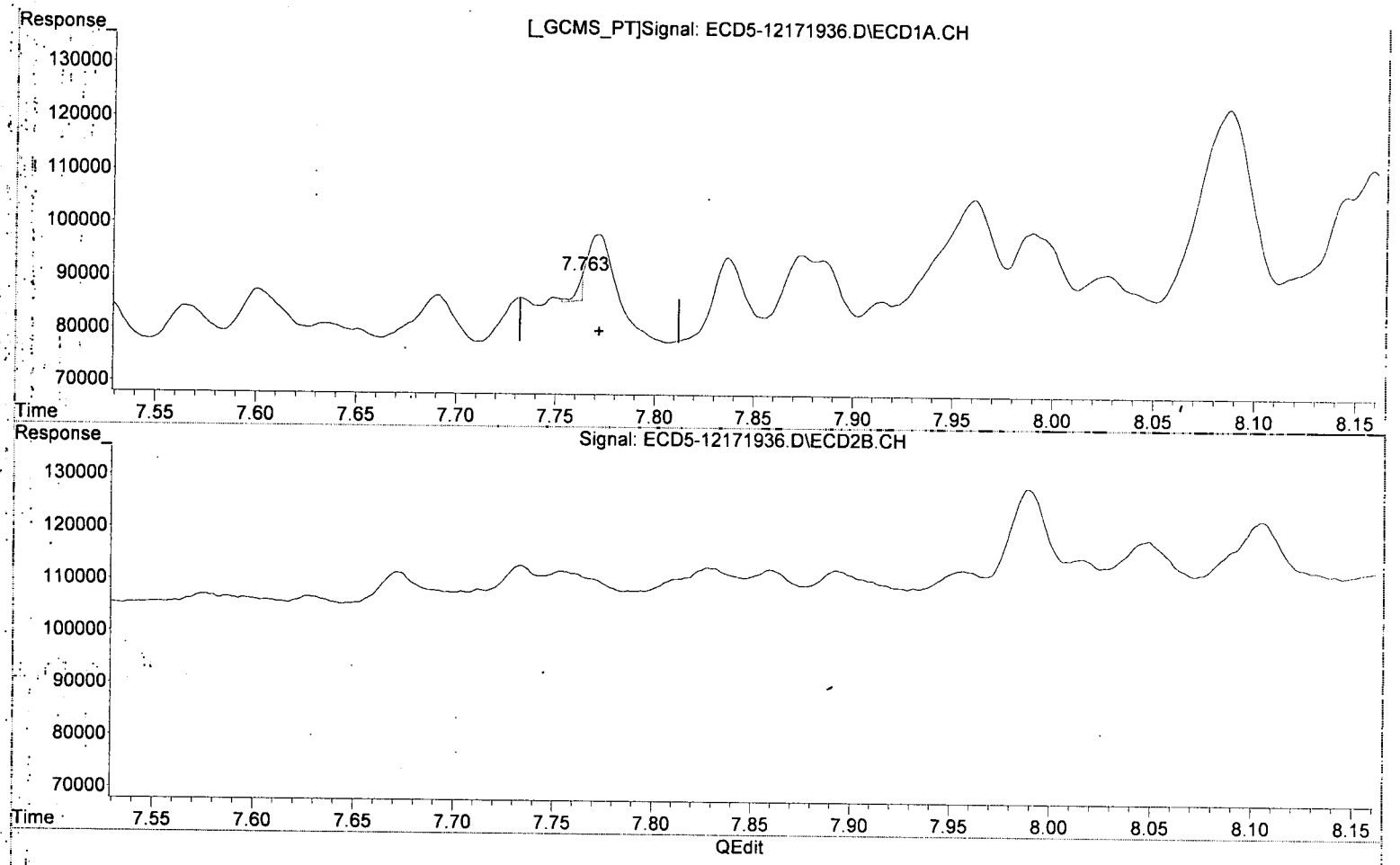


R = -2.03e-002 A*A + 1.60e+003 A + 5.80e+003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:54:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(37) Toxaphene (2)

7.763min 78762.695 ng/mL (m)

response 4789

, Q Del

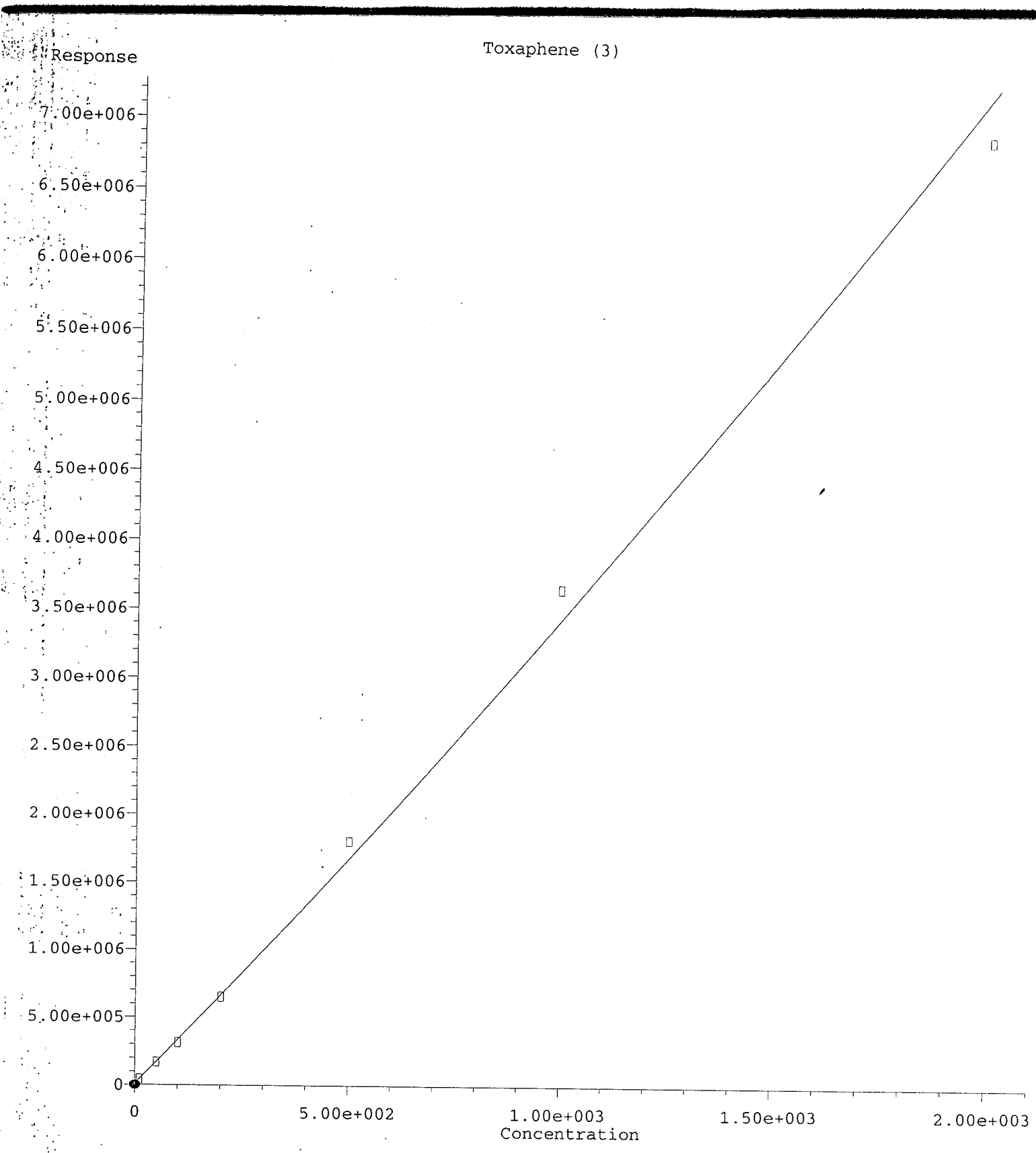
MJB 12/18/19

(37) Toxaphene (2) #2

8.934min 10.010 ng/mL

response 29649

(+) = Expected Retention Time

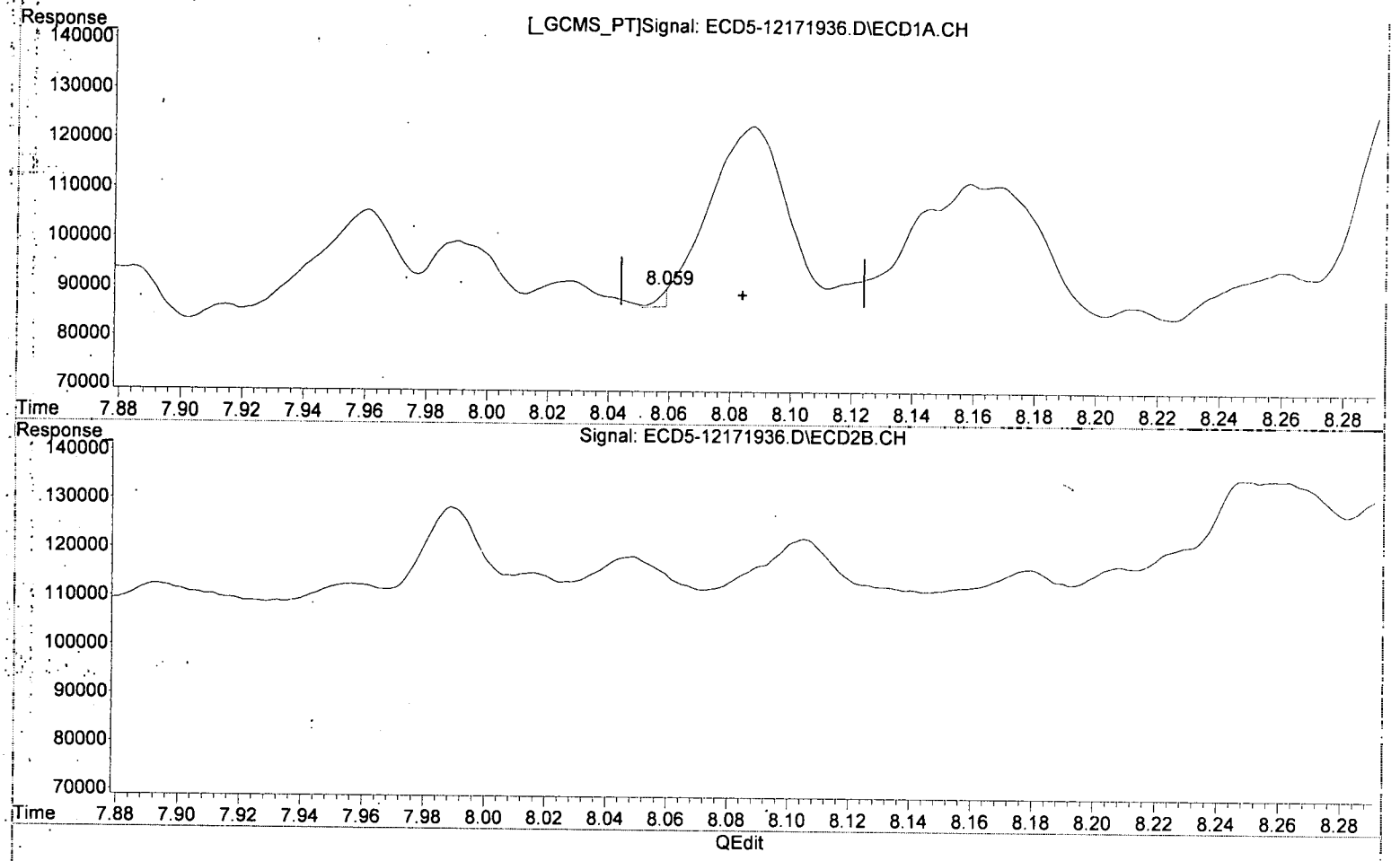


R = 1.88e-001 A*A + 3.23e+003 A + 1.00e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:54:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(38) Toxaphene (3)

8.059min -1.968 ng/mL (m)

response 3662

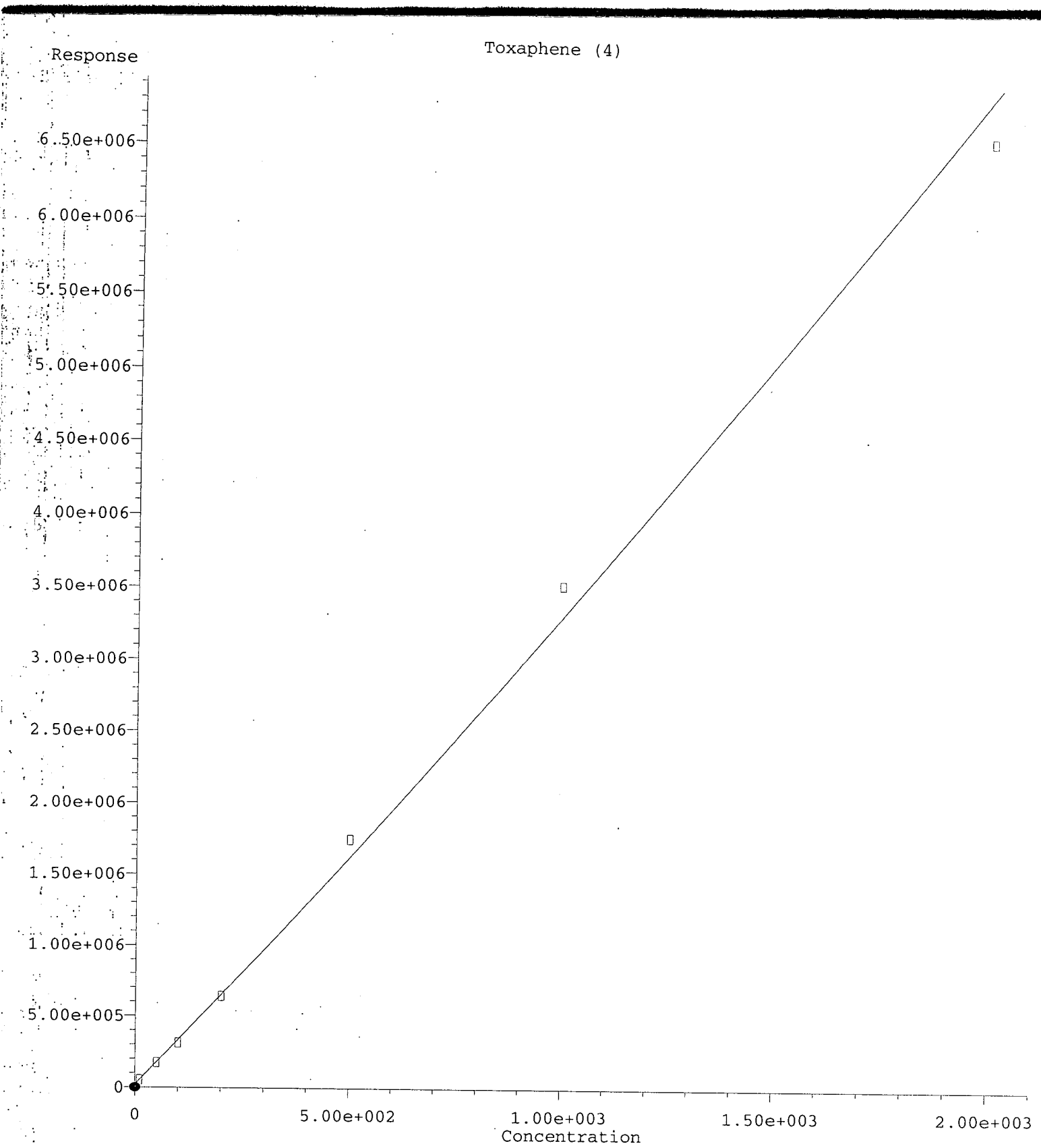
MJB 12/18/19

(38) Toxaphene (3) #2

8.971min 11.531 ng/mL

response 55881

(+) = Expected Retention Time

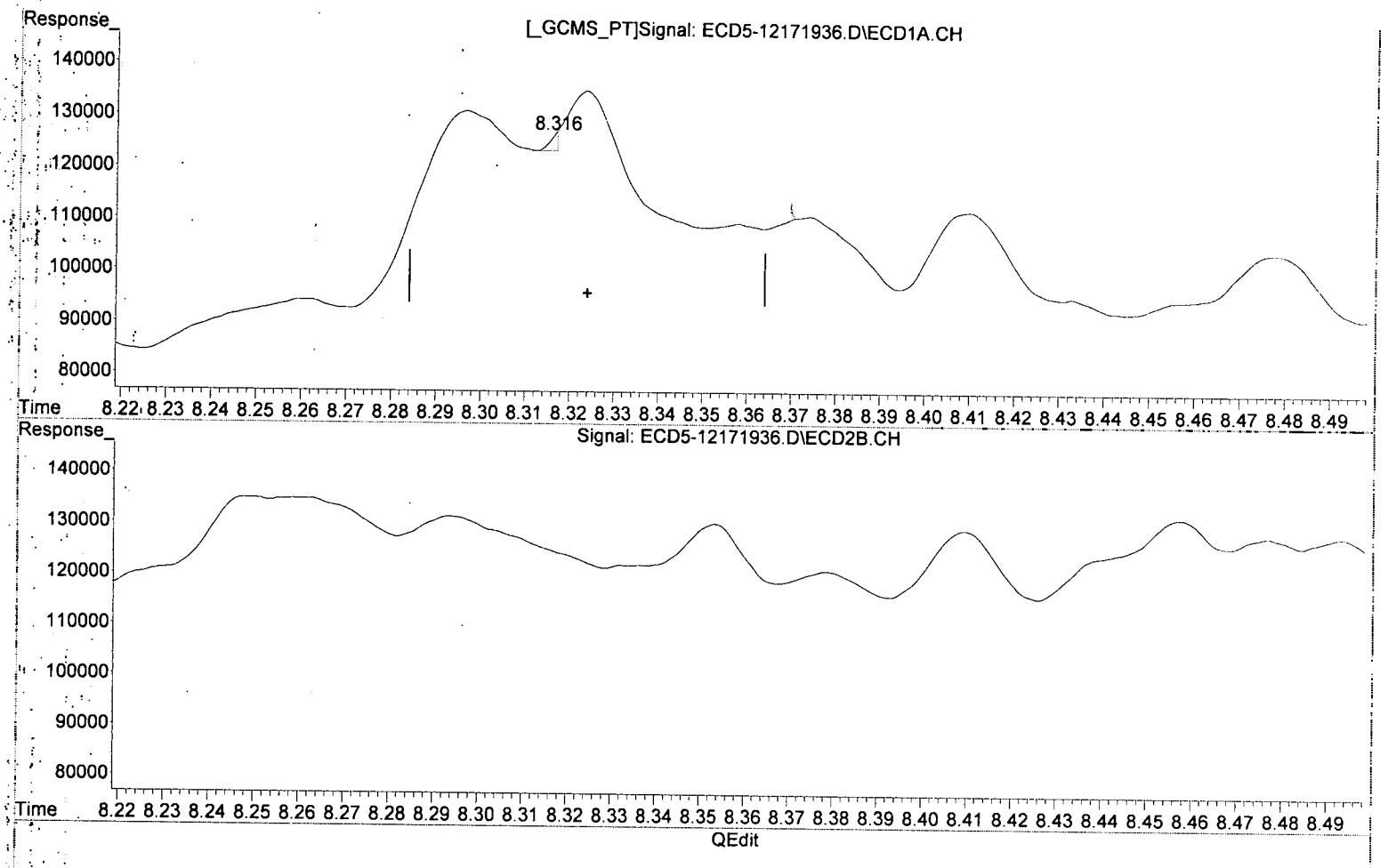


R = 1.57e-001 A*A + 3.13e+003 A + 2.01e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:54:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(39) Toxaphene (4)

8.316min -5.429 ng/mL (m)

response 3148

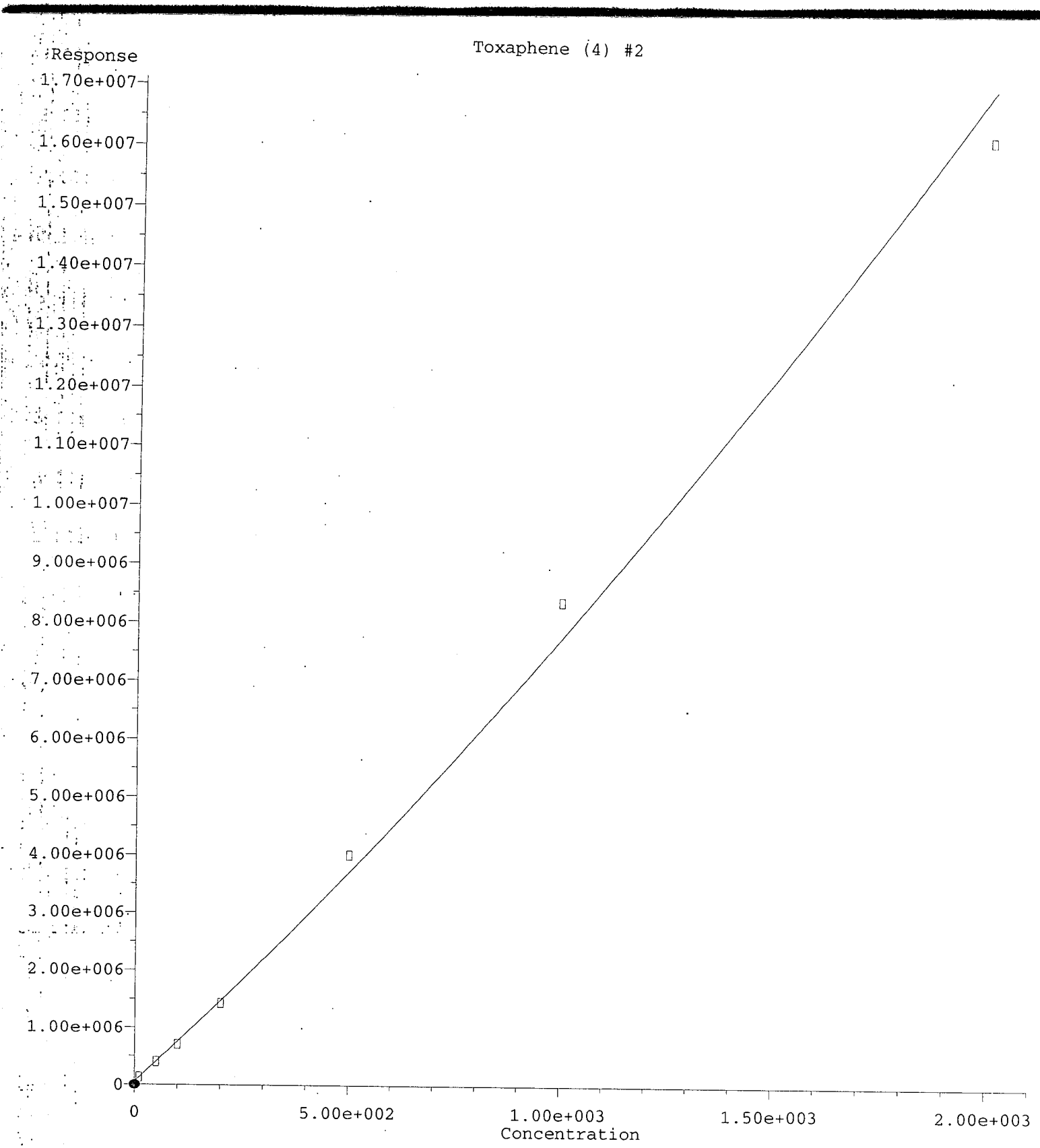
MJB 12/18/19

(39) Toxaphene (4) #2

9.025min 10.109 ng/mL

response 129540

(+) = Expected Retention Time

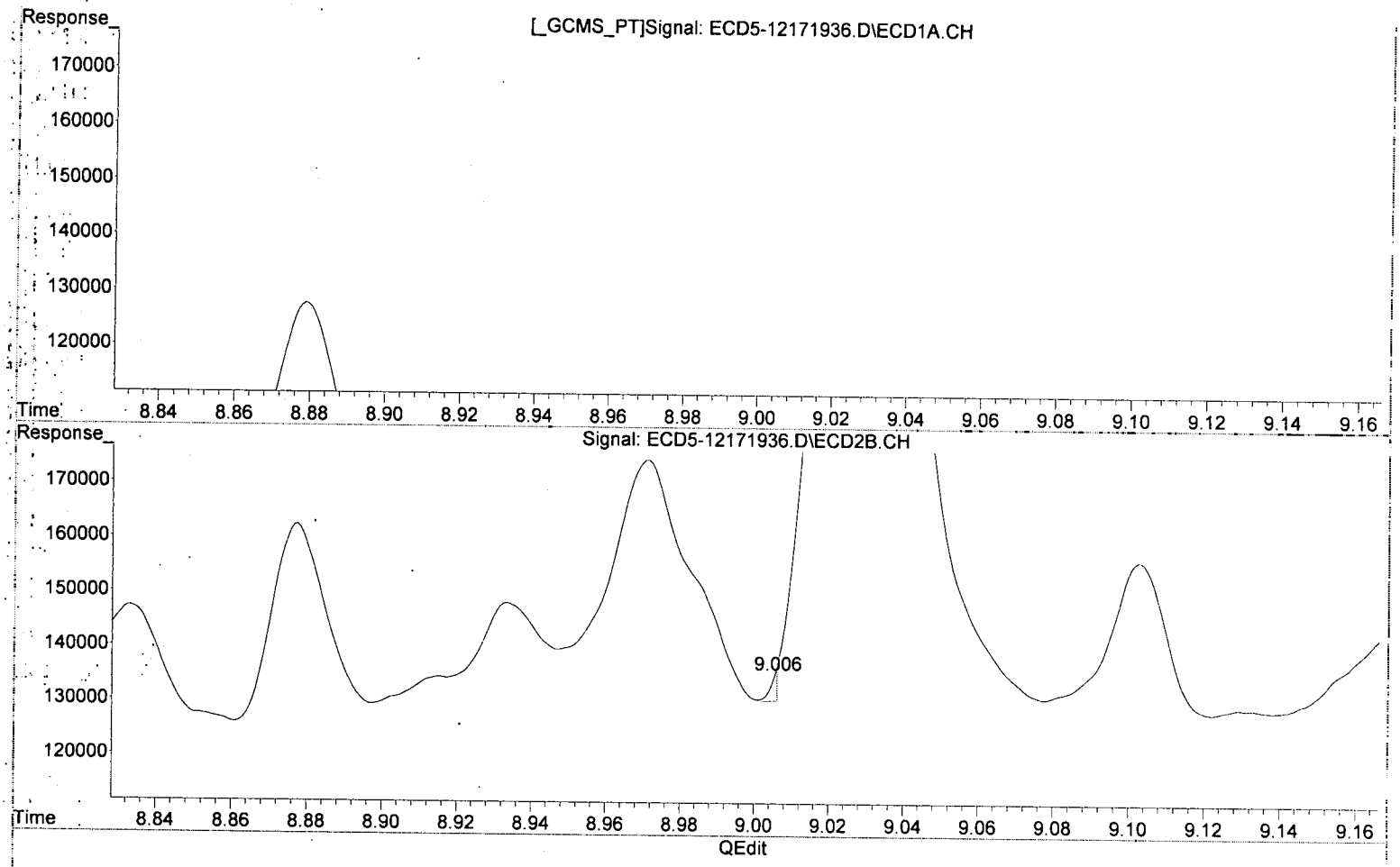


R = 8.15e-001 A*A + 6.89e+003 A + 5.98e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:54:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(39) Toxaphene (4)

8.316min -5.429 ng/mL m

response 3148

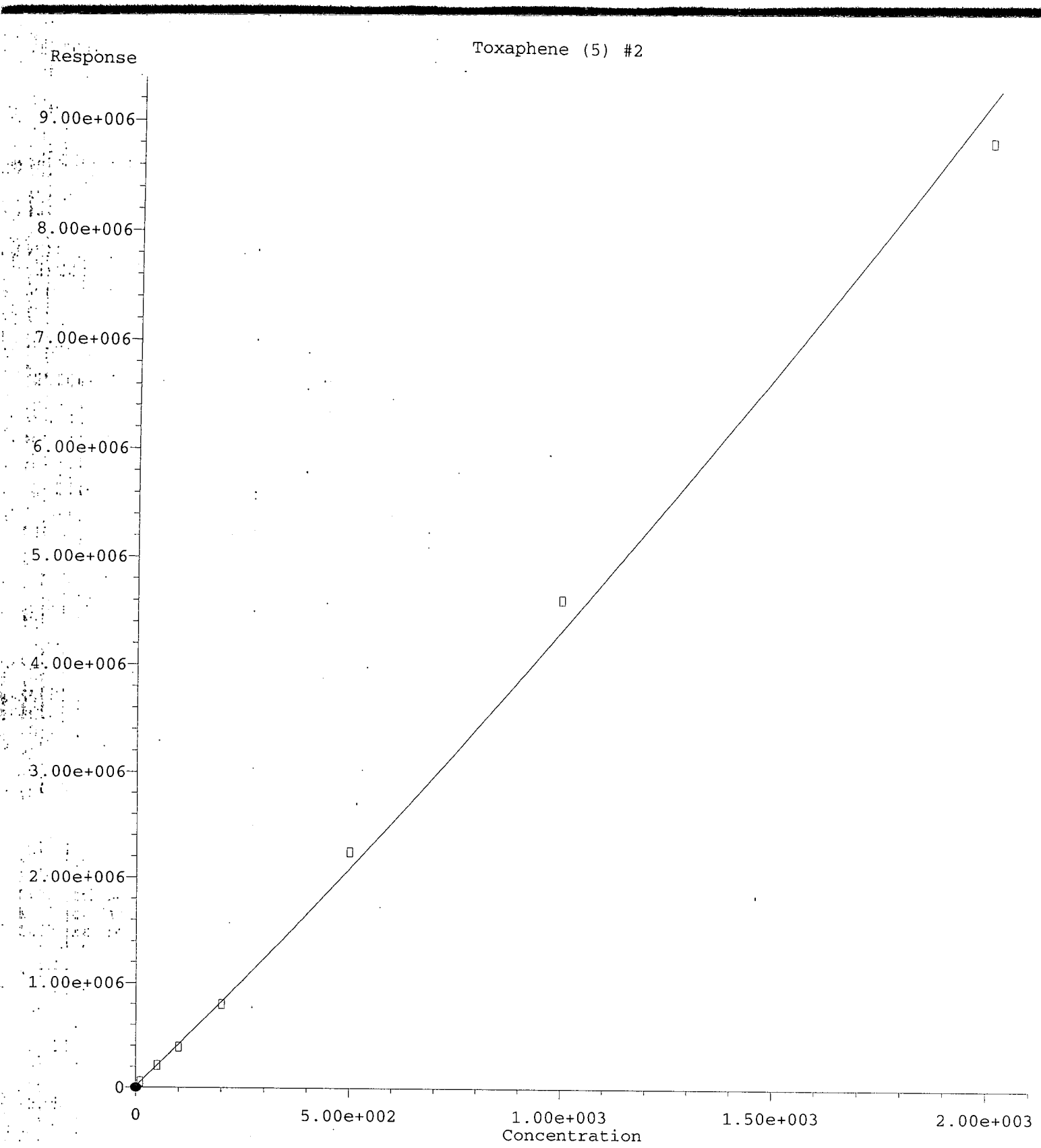
MJB 12/18/19

(39) Toxaphene (4) #2

9.006min -7.979 ng/mL m

response 4887

(+) = Expected Retention Time

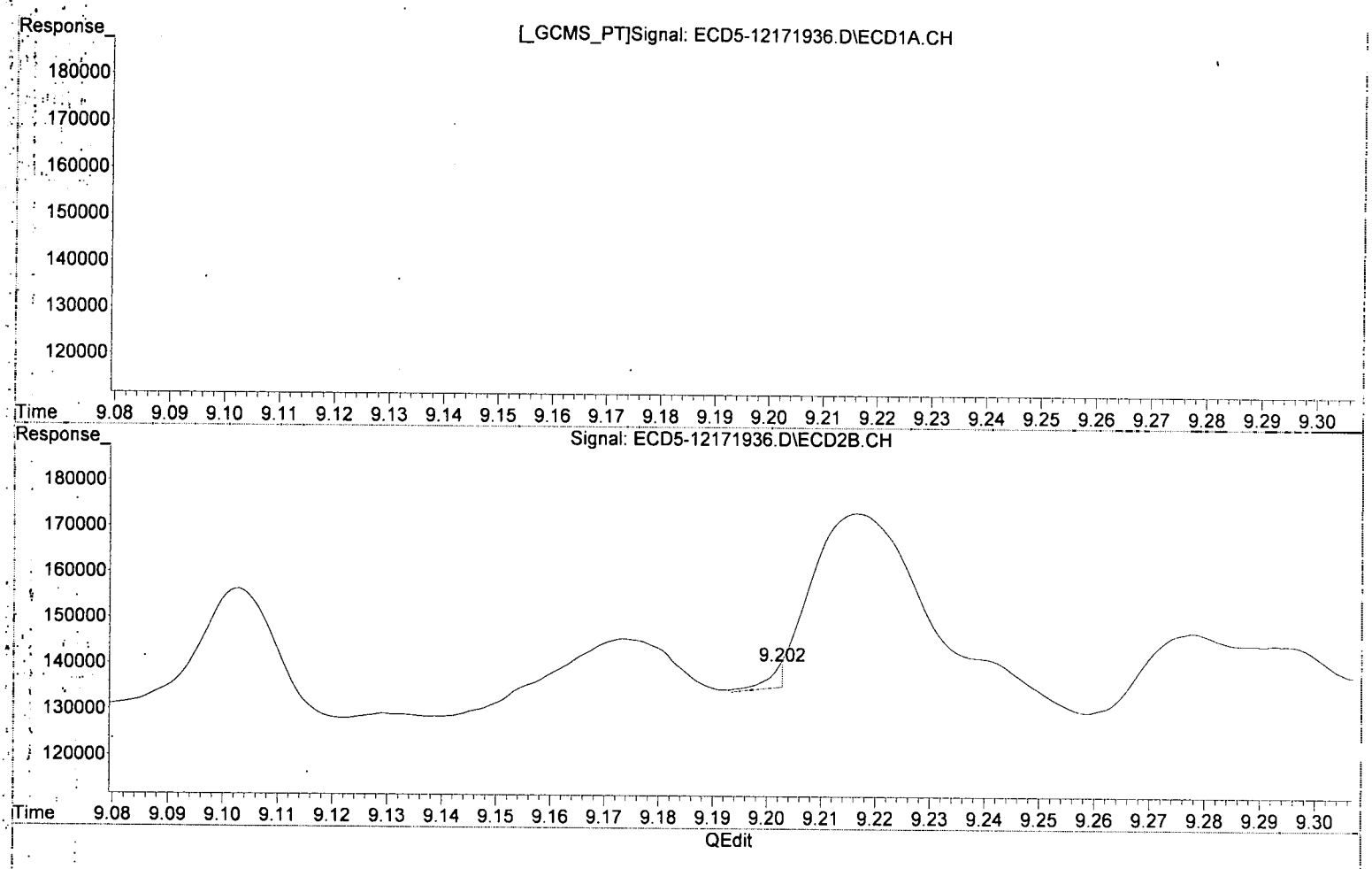


R = 3.32e-001 A*A + 3.99e+003 A + 1.33e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_191217.M
Calibration Table Last Updated: Wed Dec 18 11:48:31 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:54:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(40) Toxaphene (5)

8.553min 10.020 ng/mL

response 25387

MJB 12/18/19

(40) Toxaphene (5) #2

9.202min -2.159 ng/mL m

response 4710

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 11:52
Operator : MJB
Sample : 9L17040-ICB1
Misc : A19L018
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: Dec 18 12:56:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

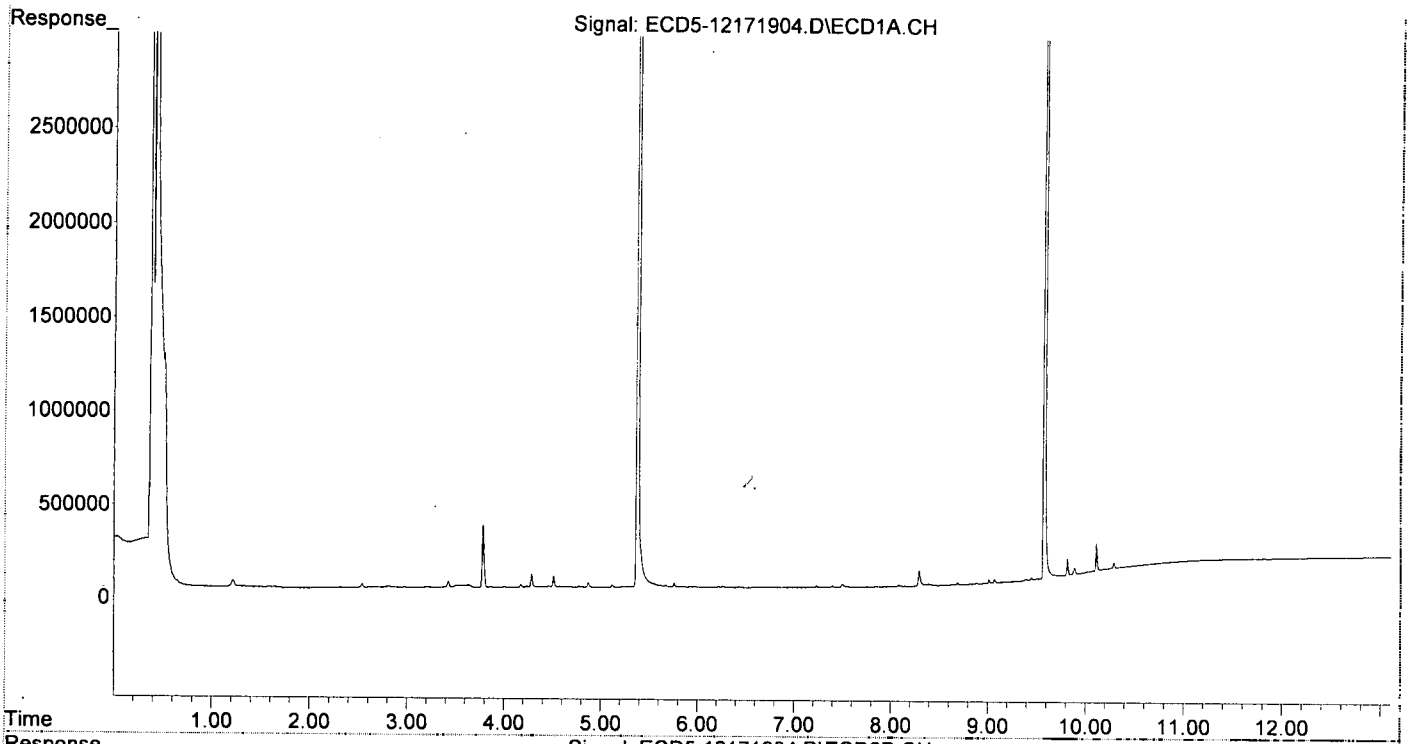
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.376	6.095	17651239	31518923	98.959	106.171	
22)	S DCBP (S)	9.577	10.703	14826770	17225730	108.115	101.161	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.215	0.000	4524	0	0.022	N.D.	#
4)	b-BHC	6.260	0.000	7703	0	0.109	N.D.	#
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)	d-BHC	6.429	7.345	4933	10751	0.001	BelowCal	#
7)	Aldrin	0.000	7.674	0	14687	N.D.	0.047	#
8)	Heptachlo...	7.346f	0.000	3183	0	0.018	N.D.	#
9)	trans-Chl...	7.394	8.260	7872	37808	0.044	0.130	#
10)	cis-Chlor...	7.499	0.000	16866	0	BelowCal	N.D.	
11)	Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
12)	4,4'-DDE	7.551	0.000	2659	0	0.017	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...	8.079	8.991	8684	4758	0.057	0.020	#
17)	4,4'-DDT	8.147f	9.131f	1976	6596	BelowCal	0.262	
18)	Endrin Al...	8.386	9.226	12450	13025	0.104	0.066	
19)	Endosulfa...	8.688	9.418	13333	16708	BelowCal	BelowCal	
20)	Methoxychlor	8.517	0.000	4645	0	0.161	N.D.	#
21)	Endrin Ke...	8.883	9.823	7380	8409	BelowCal	BelowCal	
23)	Hexachlor...	3.194f	0.000	6318	0	BelowCal	N.D.	
24)	Hexachlor...	5.757	6.575	21401	6496	BelowCal	0.022	
25)	Oxychlordane	7.231	0.000	9465	0	BelowCal	N.D.	
26)	2,4'-DDE	7.346f	8.260f	3183	37808	0.030	0.199	#
27)	trans-Non...	7.499	0.000	16866	0	0.094	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	8.631	9.823	6641	8409	BelowCal	BelowCal	
32)	Chlordane...	7.394	8.260	7872	37808	0.412	1.113	#
33)	Chlordane...	7.499	0.000	16866	0	0.749	N.D.	#
34)	Chlordane...	8.079f	9.022	8684	153085	1.521	6.053	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.499	0.000	16866	0	17.487	N.D.	#
37)	Toxaphene...	0.000	8.965f	0	9021	N.D.	3.046	#
38)	Toxaphene...	8.079	8.965	8684	9021	BelowCal	1.862	
39)	Toxaphene...	8.292f	9.022	84398	153085	20.537	13.517	
40)	Toxaphene...	8.517f	9.226	4645	13025	1.834	BelowCal	#
41)	Toxaphene...	8.631	0.000	6641	0	1.953	N.D.	#
42)	Toxaphene...	3.779f	0.000	337159	0	NoCal	N.D.	

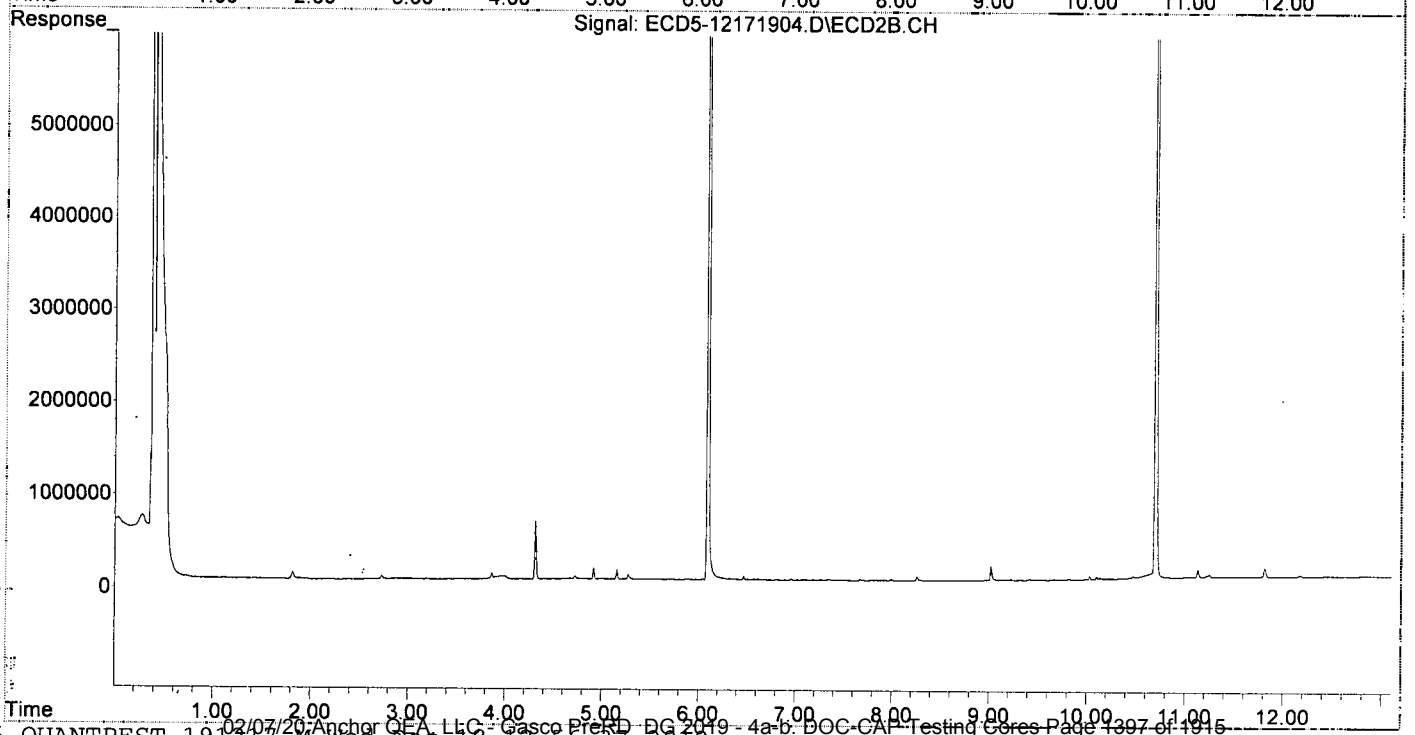
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171904.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 11:52
Operator : MJB
Sample : 9L17040-ICB1
Misc : A19L018
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: Dec 18 12:56:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 14:44
Operator : MJB
Sample : 9L17040-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: Dec 18 12:56:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

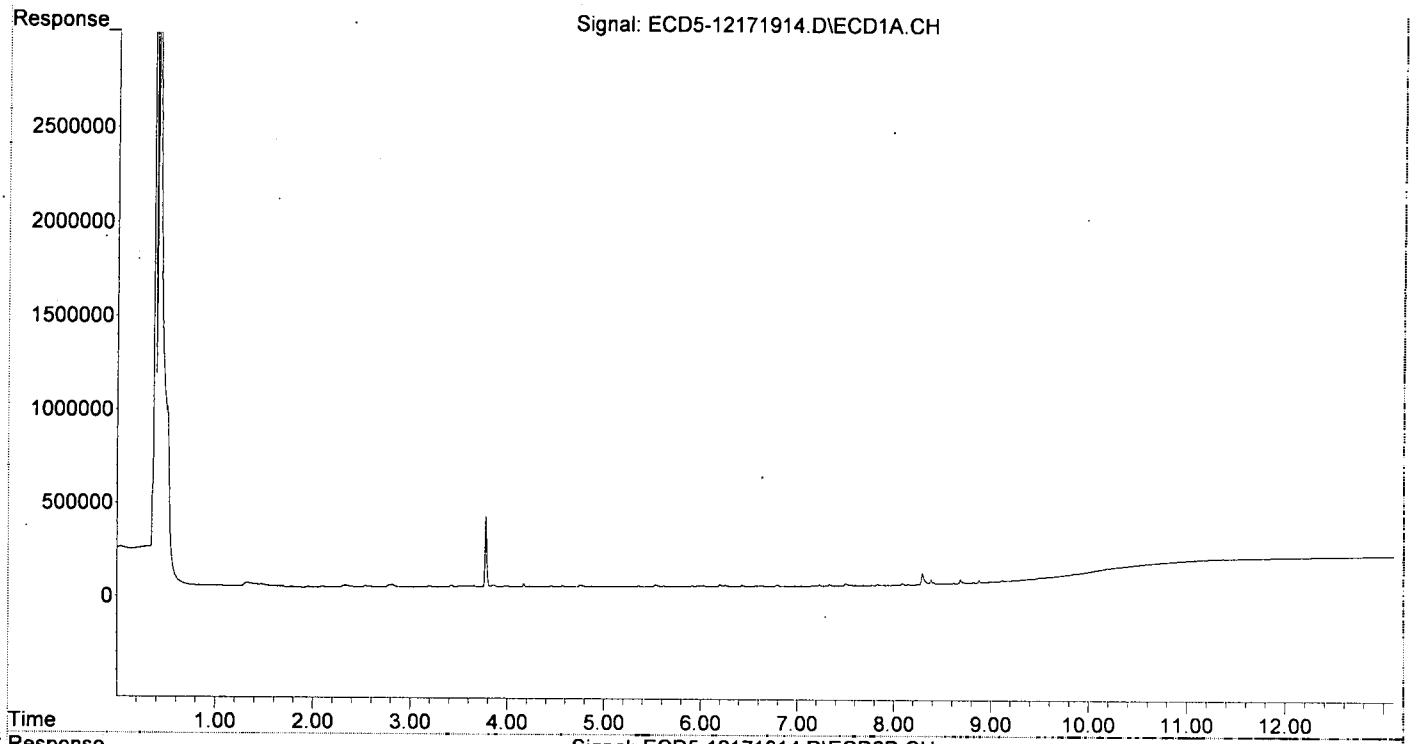
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.355	0.000	4367	0	0.024	N.D.	#
22)	S	DCBP (S)	9.576	0.000	8677	0	BelowCal	N.D.	
		Target Compounds							
2)		a-BHC	5.910	0.000	3140	0	0.013	N.D.	#
3)		g-BHC	6.199	0.000	9116	0	0.045	N.D.	#
4)		b-BHC	6.257	0.000	7172	0	0.101	N.D.	#
5)		Heptachlor	6.634f	0.000	4175	0	0.023	N.D.	#
6)		d-BHC	6.426	7.342	6644	17639	0.014	0.017	
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	7.337f	0.000	7753	0	0.043	N.D.	#
9)		trans-Chl...	0.000	8.261	0	24549	N.D.	0.084	#
10)		cis-Chlor...	7.502	0.000	12167	0	BelowCal	N.D.	
11)		Endosulfa...	7.598	0.000	2357	0	0.013	N.D.	#
12)		4,4'-DDE	7.598f	0.000	2357	0	0.015	N.D.	#
13)		Dieldrin	7.771	0.000	2376	0	0.012	N.D.	#
14)		Endrin	7.936	0.000	1532	0	0.010	N.D.	#
15)		4,4'-DDD	7.988	0.000	1305	0	BelowCal	N.D.	
16)		Endosulfa...	8.092	8.987	8678	10982	0.057	0.046	
17)		4,4'-DDT	8.183	9.102	1012	5817	BelowCal	0.257	
18)		Endrin Al...	8.384	9.224	24206	33644	0.202	0.171	
19)		Endosulfa...	8.686	9.415	21646	29529	BelowCal	BelowCal	
20)		Methoxychlor	8.522	0.000	1591	0	0.097	N.D.	#
21)		Endrin Ke...	8.880	9.821	12749	20692	BelowCal	BelowCal	
23)		Hexachlor...	3.190	0.000	6379	0	BelowCal	N.D.	
24)		Hexachlor...	0.000	6.573	0	6632	N.D.	0.023	#
25)		Oxychlordane	7.229	0.000	9115	0	BelowCal	N.D.	
26)		2,4'-DDE	7.337f	8.261f	7753	24549	0.072	0.129	#
27)		trans-Non...	7.502	0.000	12167	0	0.068	N.D.	#
28)		2,4'-DDD	7.683	0.000	2007	0	0.020	N.D.	#
29)		2,4'-DDT	7.829f	0.000	6592	0	0.068	N.D.	#
30)		cis-Nonac...	7.936f	0.000	1532	0	0.007	N.D.	#
31)		Mirex	8.620	9.821	1901	20692	BelowCal	BelowCal	
32)		Chlordane...	0.000	8.261	0	24549	N.D.	0.723	#
33)		Chlordane...	7.502	0.000	12167	0	0.540	N.D.	#
34)		Chlordane...	0.000	9.023	0	113638	N.D.	0.949	#
35)		Chlordane...	3.776f	0.000	375550	0	NoCal	N.D.	
36)		Toxaphene...	7.502f	0.000	12167	0	11.780 Q021	N.D.	#
37)		Toxaphene...	7.771	8.963f	2376	6370	~~78764.206~~	2.151	#
38)		Toxaphene...	8.092	8.963	8678	6370	BelowCal	1.315	
39)		Toxaphene...	8.294f	9.023	60193	113638	12.808	7.806	
40)		Toxaphene...	8.522f	9.224	1591	33644	0.628	5.088	#
41)		Toxaphene...	8.620	0.000	1901	0	0.559	N.D.	#
42)		Toxaphene...	3.776f	0.000	375550	0	NoCal	N.D.	

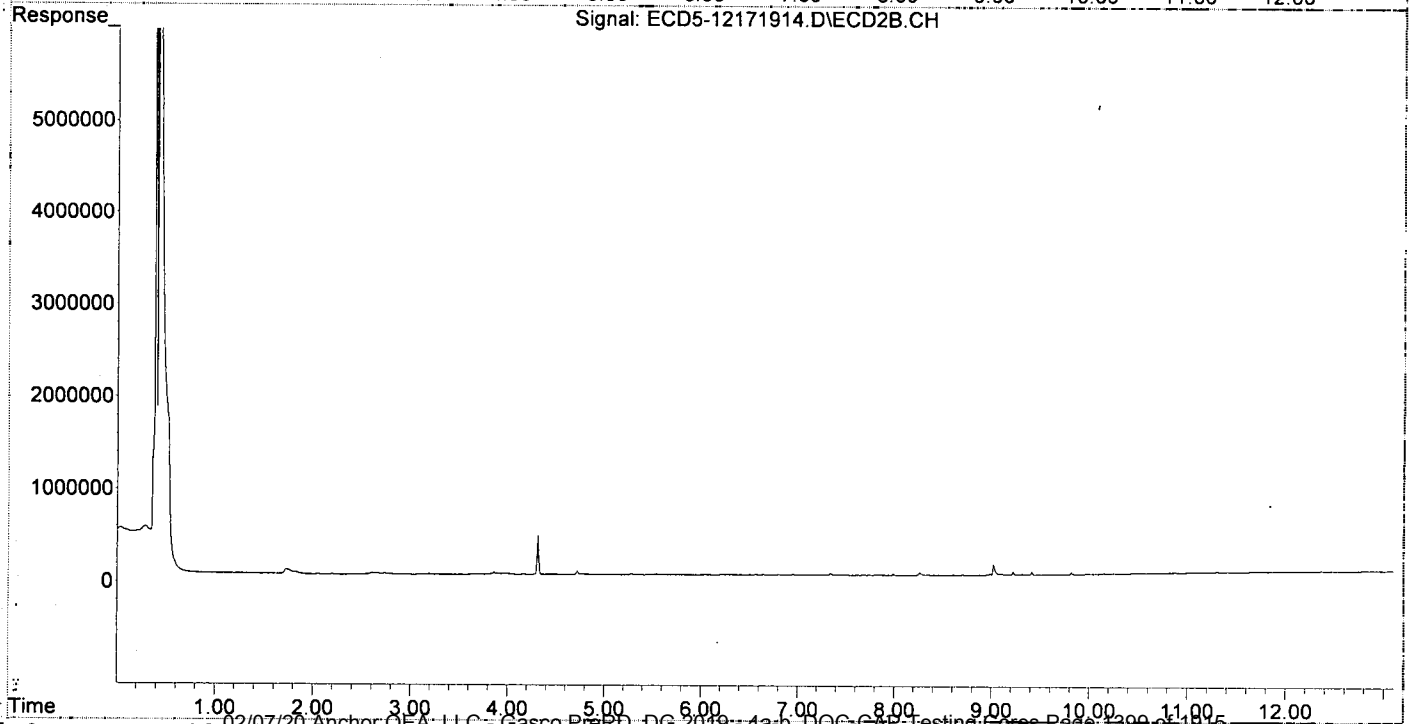
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171914.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 14:44
Operator : MJB
Sample : 9L17040-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: Dec 18 12:56:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:01
Operator : MJB
Sample : 9L17040-ICV1
Misc : A19I209, 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: Dec 18 12:56:49 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

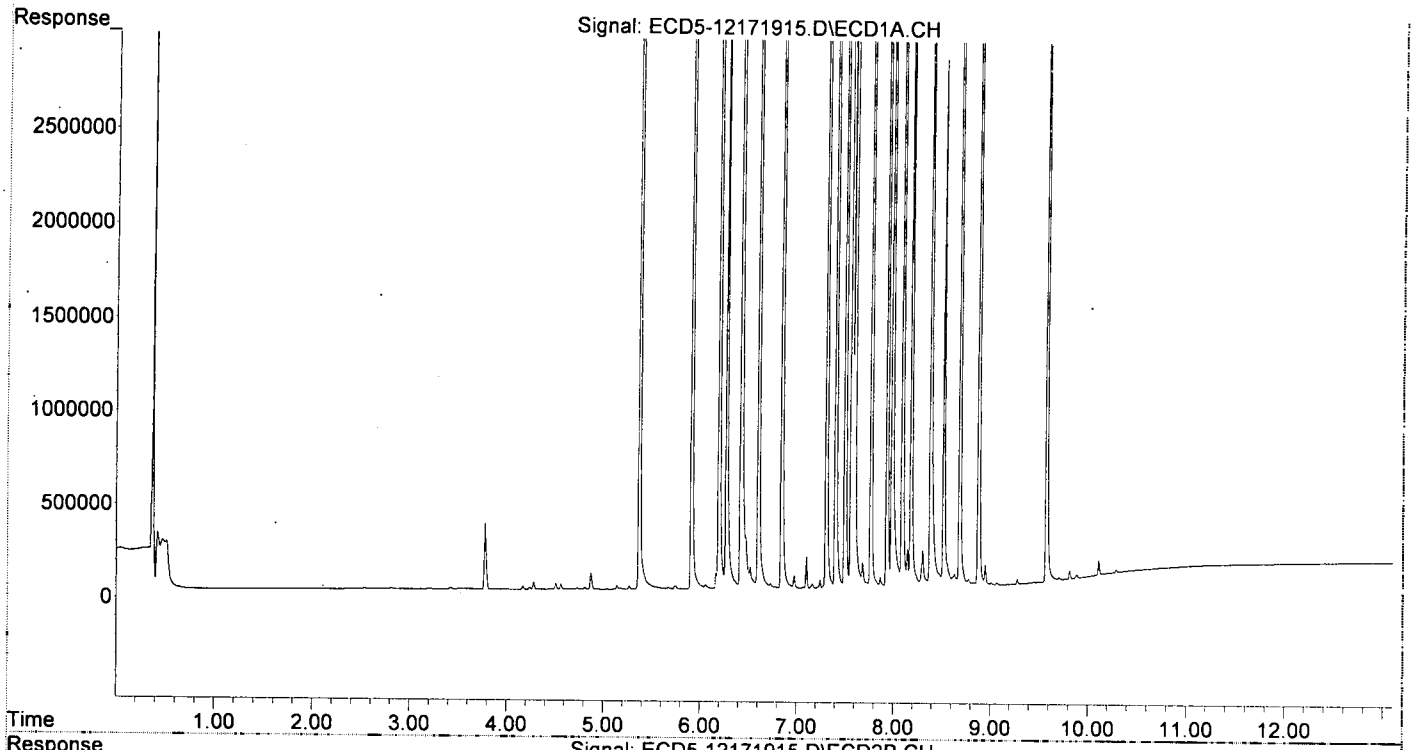
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.373	6.093	8603206	14957899	48.232	50.386	
22)	S	DCBP (S)	9.576	10.701	7016332	8308279	51.963	48.792	
		Target Compounds							
2)		a-BHC	5.913	6.702	12410327	21819102	51.696	54.829	
3)		g-BHC	6.196	7.022	10861467	18175099	53.410	53.674	
4)		b-BHC	6.273	7.084	3765093	7051723	53.103	50.885	
5)		Heptachlor	6.604	7.400	9227554	15930338	50.188	53.245	
6)		d-BHC	6.423	7.342	8429081	16723877	55.030	53.991	
7)		Aldrin	6.845	7.669	10021119	16893323	52.773	54.445	
8)		Heptachlo...	7.308	8.108	9256055	14873288	51.519	51.935	
9)		trans-Chl...	7.403	8.248	9269553	15244489	51.415	52.263	
10)		cis-Chlor...	7.500	8.357	9079437	14456235	53.014	51.510	
11)		Endosulfa...	7.598	8.409	8923873	13600640	50.778	51.745	
12)		4,4'-DDE	7.564	8.460	8138828	14751340	52.974	52.967	
13)		Dieldrin	7.770	8.611	10017904	16009311	51.038	53.895	
14)		Endrin	7.935	8.841	8281253	12103560	54.203	55.075	
15)		4,4'-DDD	7.986	8.878	6835611	11940583	52.973	52.970	
16)		Endosulfa...	8.092	8.987	8133848	12669065	53.236	53.512	
17)		4,4'-DDT	8.182	9.106	6161232	9275121	57.267	54.835	
18)		Endrin Al...	8.383	9.225	6871800	11569740	57.486	58.939	
19)		Endosulfa...	8.685	9.416	8007489	12163020	56.525	57.888	
20)		Methoxychlor	8.520	9.585	2798715	4416409	52.707	53.335	
21)		Endrin Ke...	8.880	9.821	8819383	12468760	53.217	54.311	
23)		Hexachlor...	3.190f	0.000	4986	0	BelowCal	N.D.	
24)		Hexachlor...	5.741	6.573	16802	7267	BelowCal	0.025	
25)		Oxychlordane	7.243	8.028	46134	15584	0.133	0.062	#
26)		2,4'-DDE	7.308	8.248	9256055	15244489	85.847	80.159	
27)		trans-Non...	7.500	8.306	9079437	64327	50.511	0.228	#
28)		2,4'-DDD	7.684	8.611	132030	16009311	1.343	94.430	#
29)		2,4'-DDT	7.867	8.841	49432	12103560	0.511	77.809	#
30)		cis-Nonac...	7.986f	8.878	6835611	11940583	33.195	37.290	
31)		Mirex	8.634	9.821	61937	12468760	0.272	75.571	#
32)		Chlordane...	7.403	8.248	9269553	15244489	485.145	448.895	
33)		Chlordane...	7.500	8.357	9079437	14456235	403.021	500.444	
34)		Chlordane...	0.000	9.022	0	202117	N.D.	12.392	#
35)		Chlordane...	3.776f	0.000	350275	0	NoCal	N.D.	
36)		Toxaphene...	7.500f	8.611f	9079437	16009311	9392.673	6766.258	
37)		Toxaphene...	7.770	0.000	10017904	0	6869.768	N.D.	#
38)		Toxaphene...	8.092	8.987	8133848	12669065	2225.171	2614.287	
39)		Toxaphene...	8.304	9.022	191346	202117	54.613	20.605	#
40)		Toxaphene...	8.520f	9.225	2798715	11569740	1104.638	2411.088	#
41)		Toxaphene...	8.634	9.585	61937	4416409	18.213	963.085	#
42)		Toxaphene...	3.776f	0.000	350275	0	NoCal	N.D.	

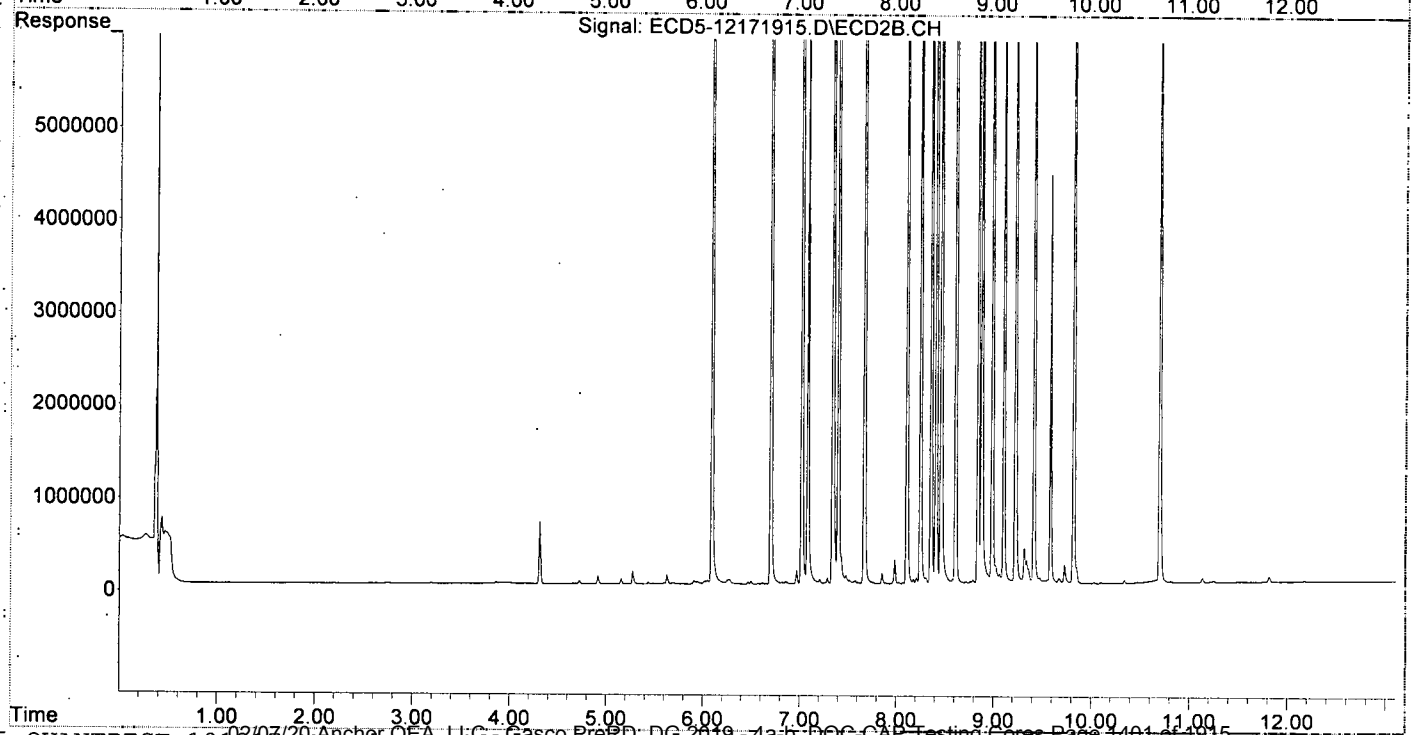
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171915.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:01
Operator : MJB
Sample : 9L17040-ICV1
Misc : A19I209, 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: Dec 18 12:56:49 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:53
Operator : MJB
Sample : 9L17040-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: Dec 18 12:56:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

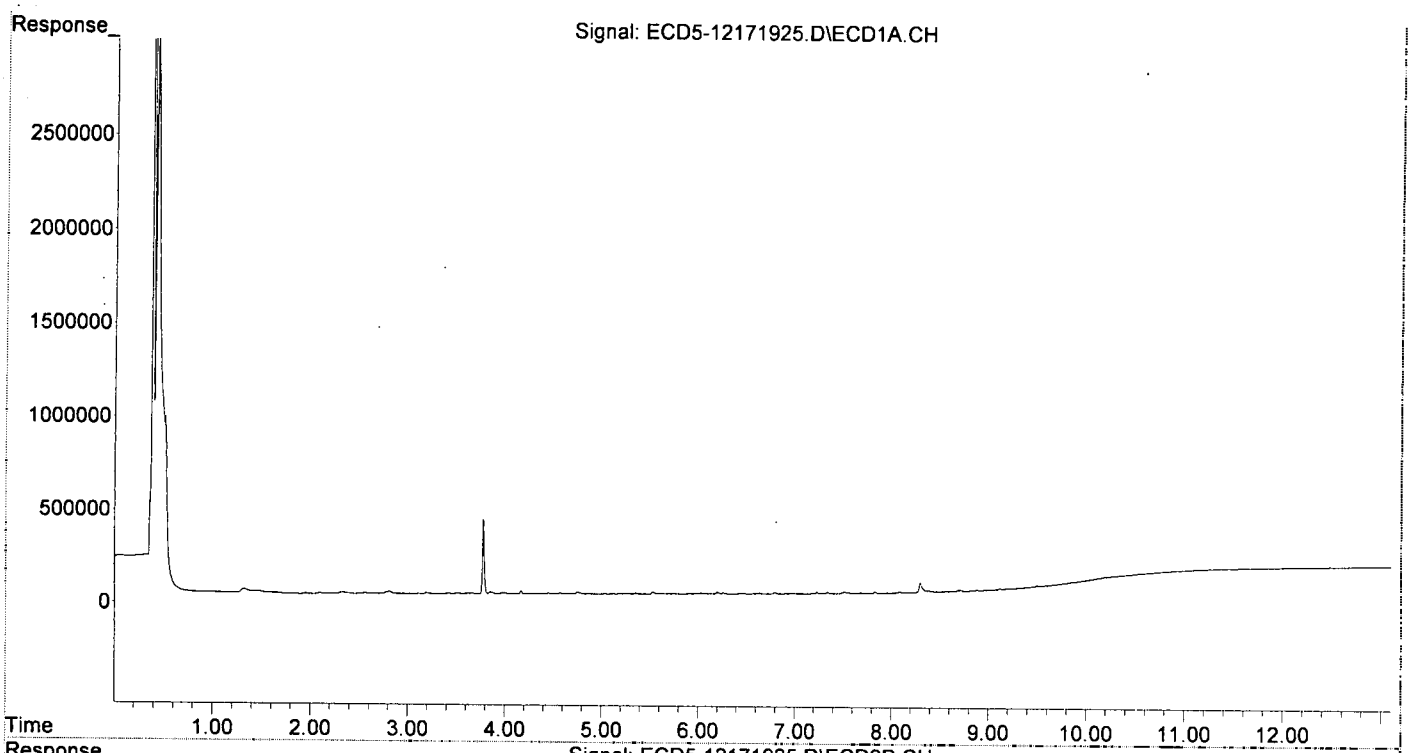
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.354	0.000	4960	0	0.028	N.D.	#
22)	S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.199	0.000	8290	0	0.041	N.D.	#
4)	b-BHC	6.258	0.000	6529	0	0.092	N.D.	#
5)	Heptachlor	6.634f	0.000	3922	0	0.021	N.D.	#
6)	d-BHC	6.428	7.342	2844	11630	BelowCal	BelowCal	
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	7.336f	0.000	7512	0	0.042	N.D.	#
9)	trans-Chl...	0.000	8.263	0	22152	N.D.	0.076	#
10)	cis-Chlor...	7.511	0.000	7050	0	BelowCal	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...	8.078	8.987	5988	3710	0.039	0.016	#
17)	4,4'-DDT	8.147f	9.097	2156	6546	BelowCal	0.262	
18)	Endrin Al...	8.384	9.224	8075	8416	0.068	0.043	
19)	Endosulfa...	8.687	9.415	7406	11445	BelowCal	BelowCal	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.880	9.821	5849	13635	BelowCal	BelowCal	
23)	Hexachlor...	3.188	0.000	6770	0	BelowCal	N.D.	
24)	Hexachlor...	0.000	6.571	0	7478	N.D.	0.026	#
25)	Oxychlordane	7.230	0.000	9236	0	BelowCal	N.D.	
26)	2,4'-DDE	7.336f	8.263f	7512	22152	0.070	0.116	#
27)	trans-Non...	7.511f	0.000	7050	0	0.039	N.D.	#
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)	2,4'-DDT	7.828f	0.000	6526	0	0.067	N.D.	#
30)	cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.	
31)	Mirex	0.000	9.821	0	13635	N.D.	BelowCal	
32)	Chlordane...	0.000	8.263	0	22152	N.D.	0.652	#
33)	Chlordane...	7.511	0.000	7050	0	0.313	N.D.	#
34)	Chlordane...	8.078f	9.024	5988	103245	1.049	BelowCal	#
35)	Chlordane...	3.775f	0.000	401100	0	NoCal	N.D.	
36)	Toxaphene...	7.511f	0.000	7050	0	5.565	N.D.	#
37)	Toxaphene...	0.000	8.963f	0	6725	N.D.	2.271	#
38)	Toxaphene...	8.078	8.963	5988	6725	BelowCal	1.388	
39)	Toxaphene...	8.297f	9.024	49927	103245	9.529	6.300	
40)	Toxaphene...	0.000	9.224	0	8416	N.D.	BelowCal	
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)	Toxaphene...	3.775f	0.000	401100	0	NoCal	N.D.	

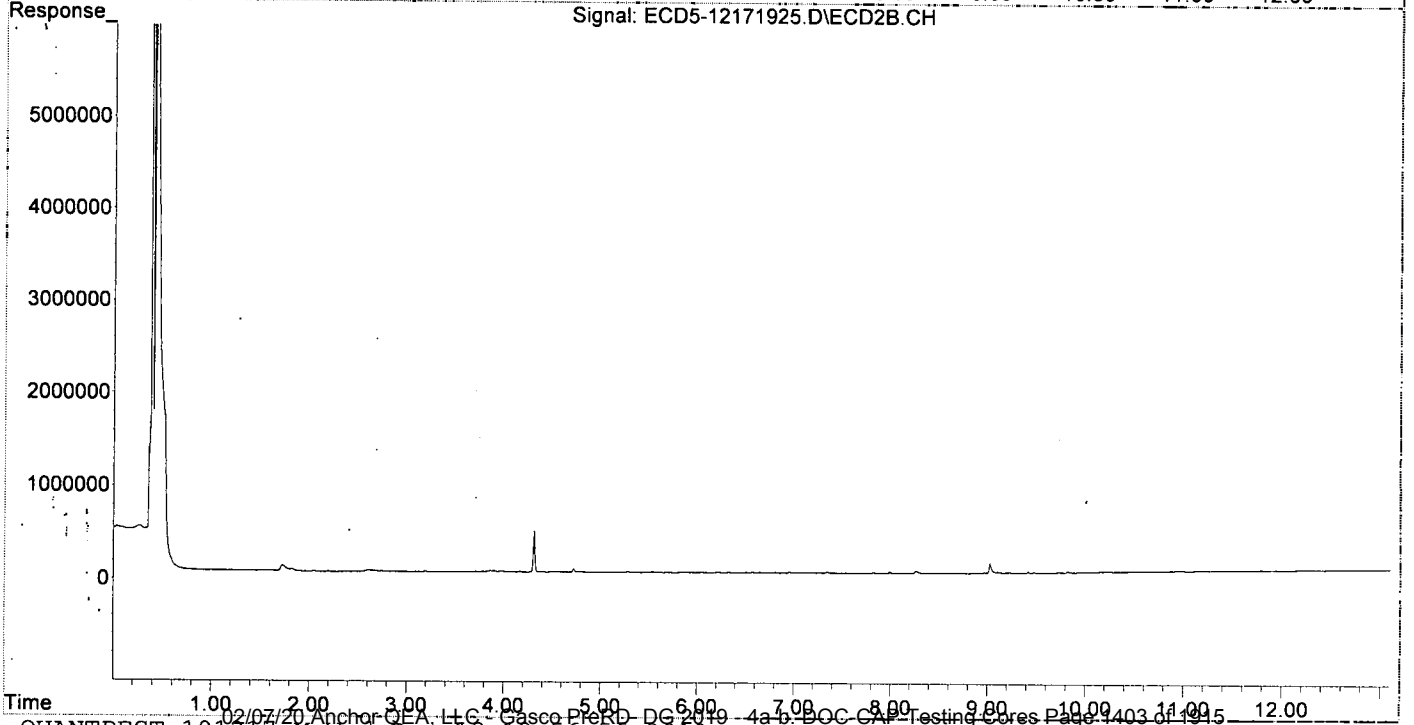
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171925.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:53
Operator : MJB
Sample : 9L17040-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: Dec 18 12:56:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171926.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 18:10
Operator : MJB
Sample : 9L17040-ICV2
Misc : A19J410, 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: Dec 18 12:57:02 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

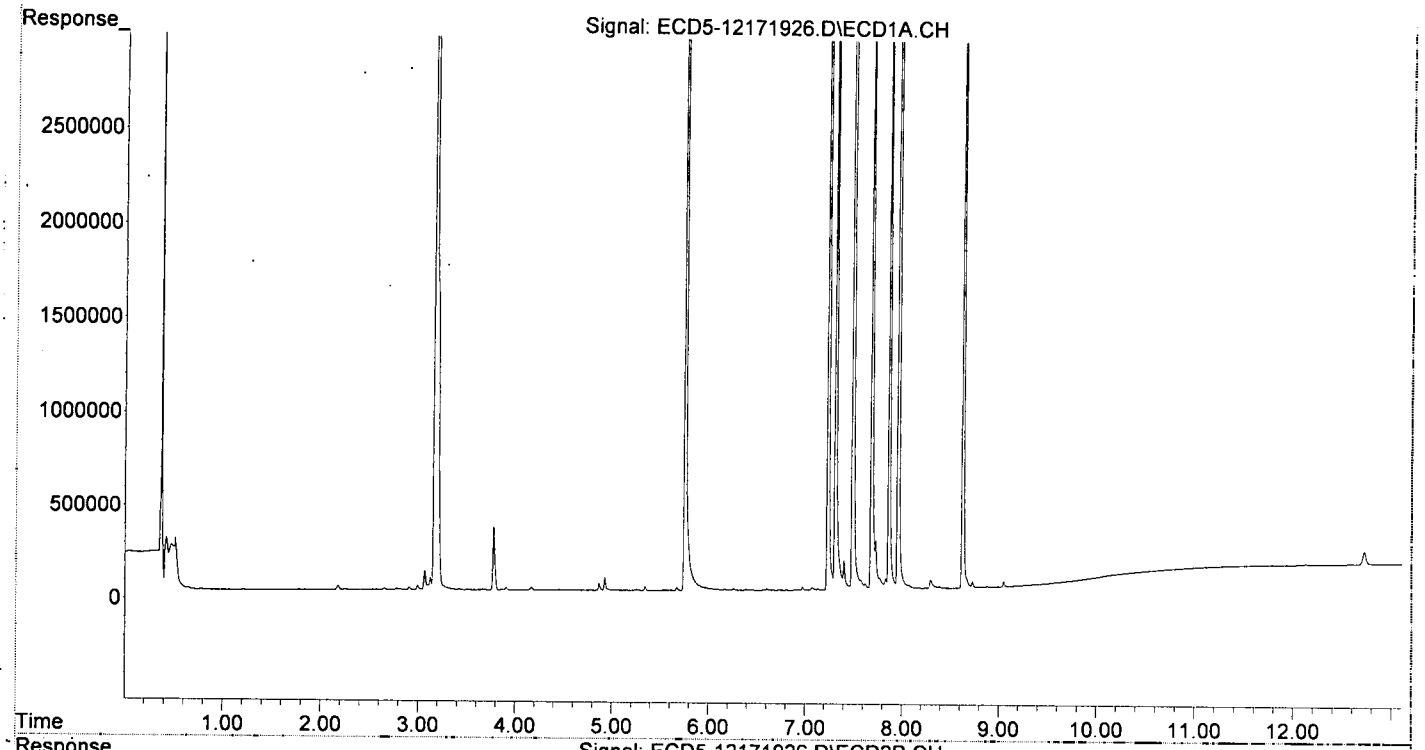
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.345f	6.093	21786	13940	0.122	0.047	#
22)	S DCBP (S)	9.576	0.000	4845	0	BelowCal	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.167f	0.000	5721	0	0.028	N.D.	#
4)	b-BHC	6.258	0.000	8095	0	0.114	N.D.	#
5)	Heptachlor	6.603	7.398	8040	15386	0.044	0.051	
6)	d-BHC	6.386f	7.340	3612	7471	BelowCal	BelowCal	
7)	Aldrin	0.000	7.671	0	7926	N.D.	0.026	#
8)	Heptachlo...	7.311	8.147f	5245449	77014	29.196	0.269	#
9)	trans-Chl...	7.401	8.237	156929	9463154	0.870	32.442	#
10)	cis-Chlor...	7.489	8.354	8731408	609766	51.033	2.173	#
11)	Endosulfa...	7.621f	8.416	33618	42652	0.191	0.162	
12)	4,4'-DDE	0.000	8.500f	0	36907	N.D.	0.090	#
13)	Dieldrin	0.000	8.612	0	8251511	N.D.	27.778	#
14)	Endrin	7.961f	8.838	9591184	7960145	62.777	37.295	#
15)	4,4'-DDD	7.961f	8.880	9591184	15275556	72.440	66.319	
16)	Endosulfa...	0.000	9.023f	0	99903	N.D.	0.422	#
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.389	9.226	7256	6797	0.061	0.035	#
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...	8.878	9.815	4304	8159222	BelowCal	36.629	
23)	Hexachlor...	3.169	3.774	7560638	16403824	46.434	45.290	
24)	Hexachlor...	5.753	6.561	8015516	14550359	49.127	49.657	
25)	Oxychlordane	7.234	8.035	7612359	12754866	51.496	50.415	
26)	2,4'-DDE	7.311	8.237	5245449	9463154	48.650	49.759	
27)	trans-Non...	7.489	8.310	8731408	14091085	48.575	49.946	
28)	2,4'-DDD	7.684	8.612	4541644	8251511	46.190	48.671	
29)	2,4'-DDT	7.866	8.838	4776243	7960145	49.362	53.727	
30)	cis-Nonac...	7.961	8.880	9591184	15275556	46.577	47.705	
31)	Mirex	8.627	9.815	5799328	8159222	48.640	50.716	
32)	Chlordane...	7.401	8.237	156929	9463154	8.213	278.656	#
33)	Chlordane...	7.489	8.354	8731408	609766	387.573	21.109	#
34)	Chlordane...	0.000	9.023	0	99903	N.D.	BelowCal	
35)	Chlordane...	3.775f	0.000	341267	0	NoCal	N.D.	
36)	Toxaphene...	7.489	8.612f	8731408	8251511	9077.718	3487.461	#
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...	8.297f	9.023	42888	99903	7.280	5.816	
40)	Toxaphene...	0.000	9.226	0	6797	N.D.	BelowCal	
41)	Toxaphene...	8.627	0.000	5799328	0	1705.316	N.D.	#
42)	Toxaphene...	3.775f	0.000	341267	0	NoCal	N.D.	

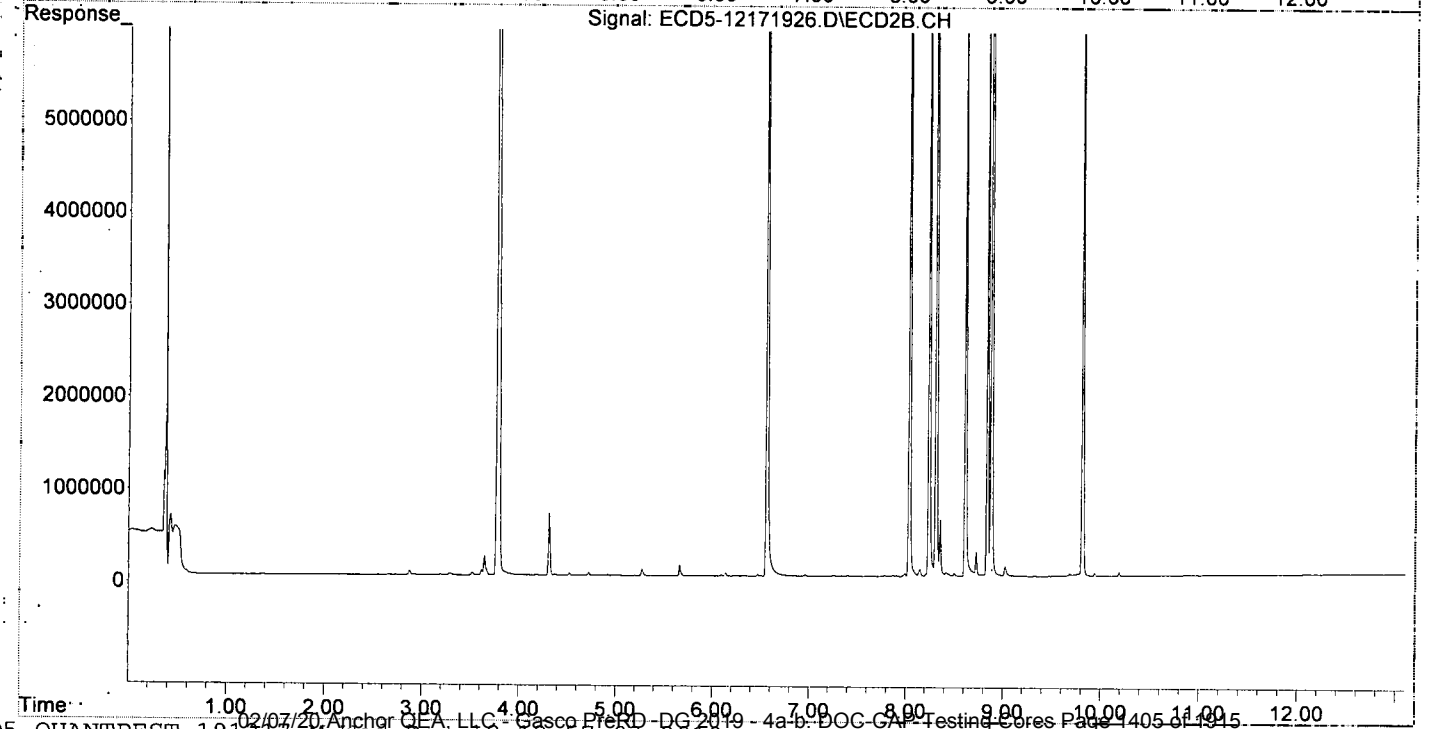
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171926.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 18:10
Operator : MJB
Sample : 9L17040-ICV2
Misc : A19J410, 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: Dec 18 12:57:02 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171934.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 20:28
Operator : MJB
Sample : 9L17040-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: Dec 18 12:57:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

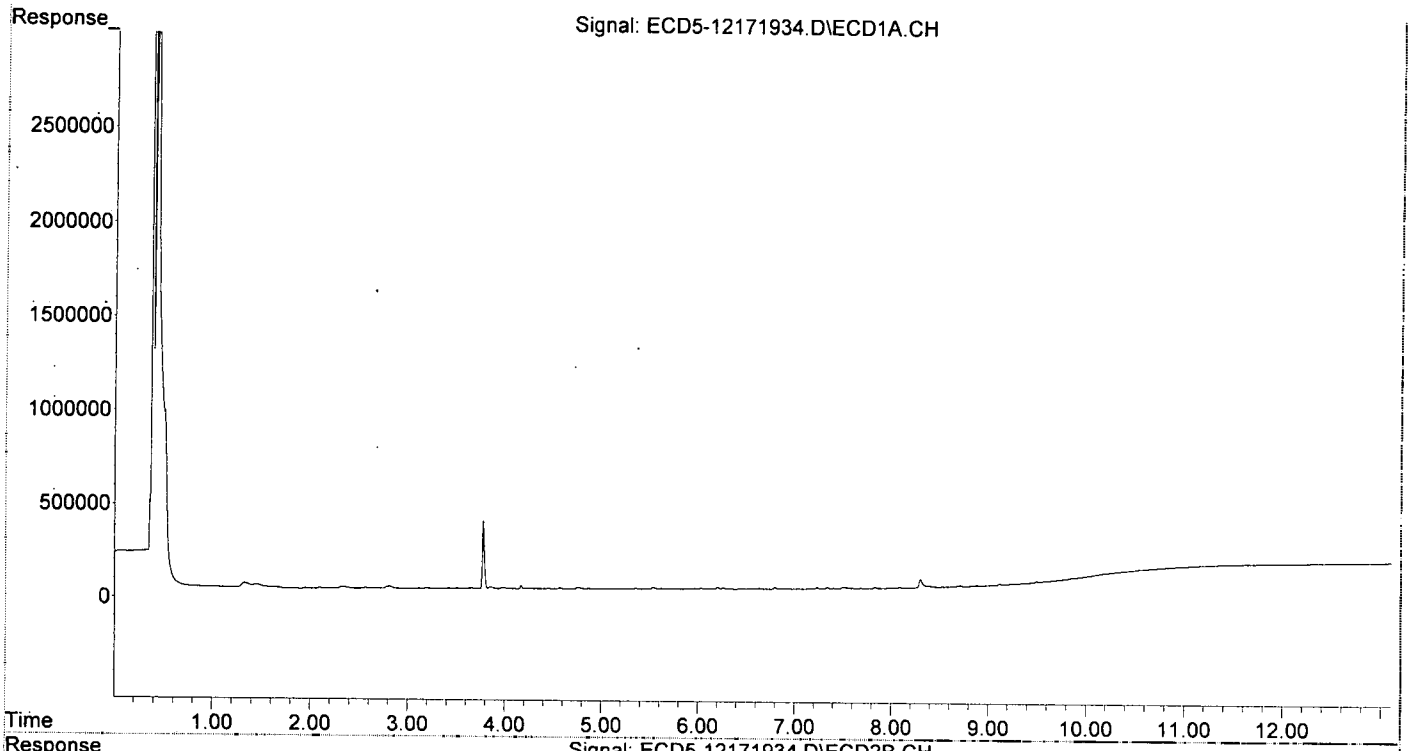
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.355	0.000	4805	0	0.027	N.D.	#
22)	S DCBP (S)	9.576	0.000	2319	0	BelowCal	N.D.	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.199	0.000	8293	0	0.041	N.D.	#
4)	b-BHC	6.258	0.000	6605	0	0.093	N.D.	#
5)	Heptachlor	6.634f	0.000	3816	0	0.021	N.D.	#
6)	d-BHC	0.000	7.340	0	10408	N.D.	BelowCal	
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	7.337f	0.000	7443	0	0.041	N.D.	#
9)	trans-Chl...	7.402	8.262	4007	21061	0.022	0.072	#
10)	cis-Chlor...	7.501	0.000	8494	0	BelowCal	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	7.771	0.000	1538	0	0.008	N.D.	#
14)	Endrin	7.961f	0.000	1422	0	0.009	N.D.	#
15)	4,4'-DDD	7.961f	0.000	1422	0	BelowCal	N.D.	
16)	Endosulfa...	8.079	8.986	5990	4144	0.039	0.018	#
17)	4,4'-DDT	8.148f	9.096	2044	6979	BelowCal	0.265	
18)	Endrin Al...	8.384	9.223	9303	8113	0.078	0.041	#
19)	Endosulfa...	8.687	9.414	6768	10488	BelowCal	BelowCal	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.880	9.820	5750	12630	BelowCal	BelowCal	
23)	Hexachlor...	3.189	0.000	5881	0	BelowCal	N.D.	
24)	Hexachlor...	0.000	6.571	0	7250	N.D.	0.025	#
25)	Oxychlordane	7.230	0.000	8534	0	BelowCal	N.D.	
26)	2,4'-DDE	7.337f	8.262f	7443	21061	0.069	0.111	#
27)	trans-Non...	7.501	8.307	8494	7984	0.047	0.028	#
28)	2,4'-DDD	7.683	0.000	2444	0	0.025	N.D.	#
29)	2,4'-DDT	7.828f	0.000	6630	0	0.069	N.D.	#
30)	cis-Nonac...	7.961	0.000	1422	0	0.007	N.D.	#
31)	Mirex	0.000	9.820	0	12630	N.D.	BelowCal	
32)	Chlordane...	7.402	8.262	4007	21061	0.210	0.620	#
33)	Chlordane...	7.501	0.000	8494	0	0.377	N.D.	#
34)	Chlordane...	8.046	9.023	928	103968	0.163	BelowCal	#
35)	Chlordane...	3.775f	0.000	370440	0	NoCal	N.D.	
36)	Toxaphene...	7.501f	0.000	8494	0	7.318 QD1	N.D.	#
37)	Toxaphene...	7.771	8.962f	1538	6866	78764.731	2.318	#
38)	Toxaphene...	8.079	8.962	5990	6866	BelowCal	1.417	
39)	Toxaphene...	8.299f	9.023	43840	103968	7.584	6.405	
40)	Toxaphene...	0.000	9.223	0	8113	N.D.	BelowCal	
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)	Toxaphene...	3.775f	0.000	370440	0	NoCal	N.D.	

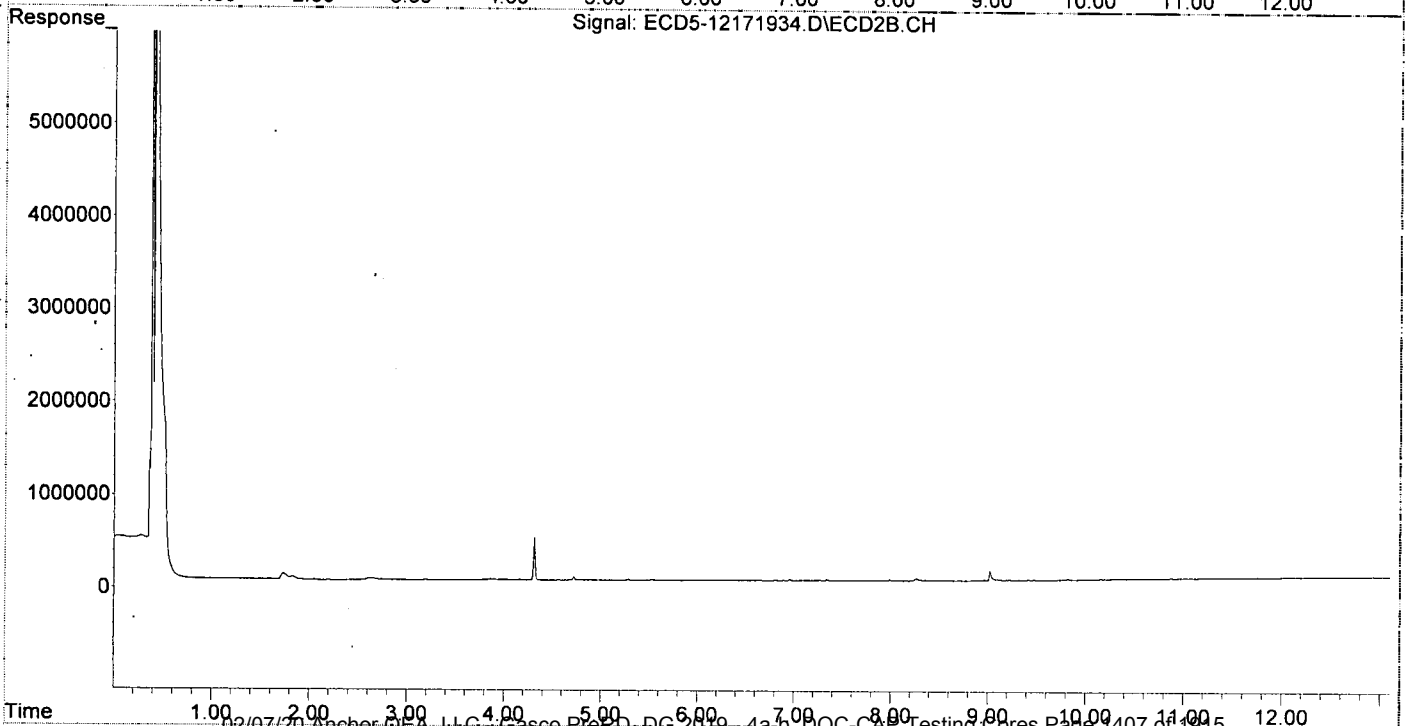
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171934.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 20:28
Operator : MJB
Sample : 9L17040-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: Dec 18 12:57:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171935.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 20:45
Operator : MJB
Sample : 9L17040-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: Dec 18 12:57:14 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.091	0	14373	N.D.	0.048	#
22)	S	DCBP (S)	9.582	10.668f	22895	6767	BelowCal	0.040	
		Target Compounds							
2)		a-BHC	0.000	6.706	0	38309	N.D.	0.096	#
3)		g-BHC	6.213	7.029	20873	173427	0.103	0.512	#
4)		b-BHC	6.296f	7.123f	119416	524269	1.684	3.783	#
5)		Heptachlor	6.603	7.398	4320896	7154809	23.501	23.914	
6)		d-BHC	6.412	7.327	83038	73938	0.569	0.218	#
7)		Aldrin	6.851	7.670	80095	107827	0.422	0.348	
8)		Heptachlo...	7.315	8.124	756047	444786	4.208	1.553	#
9)		trans-Chl...	7.402	8.246	9820447	18252250	54.470	62.574	
10)		cis-Chlor...	7.495	8.355	11466873	14797953	66.485	52.728	
11)		Endosulfa...	7.615	8.430f	282121	246255	1.605	0.937	#
12)		4,4'-DDE	7.554	8.449	326235	432210	2.123	1.647	
13)		Dieldrin	7.782	8.608	346354	1173851	1.765	3.952	#
14)		Endrin	7.960f	8.853	1729444	194882	11.320	0.910	#
15)		4,4'-DDD	7.960f	8.880	1729444	2714841	14.038	12.793	
16)		Endosulfa...	8.095	8.995	221011	294523	1.447	1.244	
17)		4,4'-DDT	8.219f	9.115	573874	108431	6.172	0.965	#
18)		Endrin Al...	8.405f	9.194f	62840	89334	0.526	0.455	
19)		Endosulfa...	8.687	9.446f	121860	74792	0.612	0.111	#
20)		Methoxychlor	8.530	9.588	57303	18133	1.262	0.381	#
21)		Endrin Ke...	8.871	9.820	17737	135266	BelowCal	0.445	
23)		Hexachlor...	3.189	0.000	5986	0	BelowCal	N.D.	
24)		Hexachlor...	5.738	6.570	21346	9060	BelowCal	0.031	
25)		Oxychlordane	7.227	8.047	121775	267661	0.667	1.058	#
26)		2,4'-DDE	7.315	8.246	756047	18252250	7.012	95.974	#
27)		trans-Non...	7.495	8.309	11466873	13651463	63.793	48.388	
28)		2,4'-DDD	7.651f	8.608	819098	1173851	8.331	6.924	
29)		2,4'-DDT	7.893f	8.853	257582	194882	2.662	1.387	#
30)		cis-Nonac...	7.960	8.880	1729444	2714841	8.399	8.478	
31)		Mirex	8.619	9.820	17493	135266	BelowCal	0.522	
32)		Chlordane...	7.402	8.246	9820447	18252250	513.978	537.463	
33)		Chlordane...	7.495	8.355	11466873	14797953	508.996	512.273	
34)		Chlordane...	8.046	9.023	3069354	4480908	537.726	544.081	
35)		Chlordane...	3.775f	0.000	366071	0	NoCal	N.D.	
36)		Toxaphene...	7.495	8.608f	11466873	1173851	11483.697	496.123	#
37)		Toxaphene...	7.782	8.935	346354	457327	213.872	154.407	
38)		Toxaphene...	8.095	8.973	221011	363404	65.007	74.989	
39)		Toxaphene...	8.324	9.023	141686	4480908	38.805	599.213	#
40)		Toxaphene...	8.530f	9.194f	57303	89334	22.617	19.012	
41)		Toxaphene...	8.619	9.588	17493	18133	5.144	3.954	
42)		Toxaphene...	3.775f	0.000	366071	0	NoCal	N.D.	

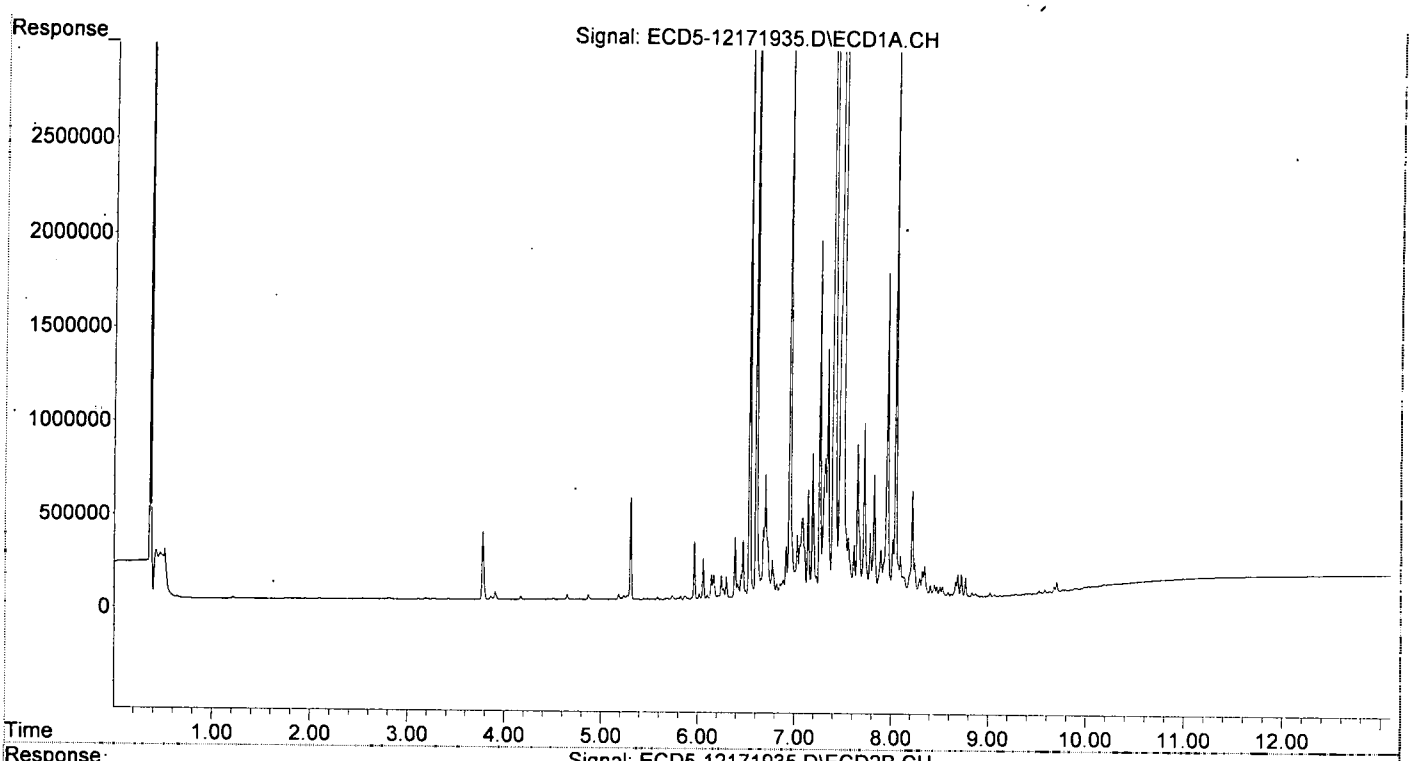
A B
520.23 531.27

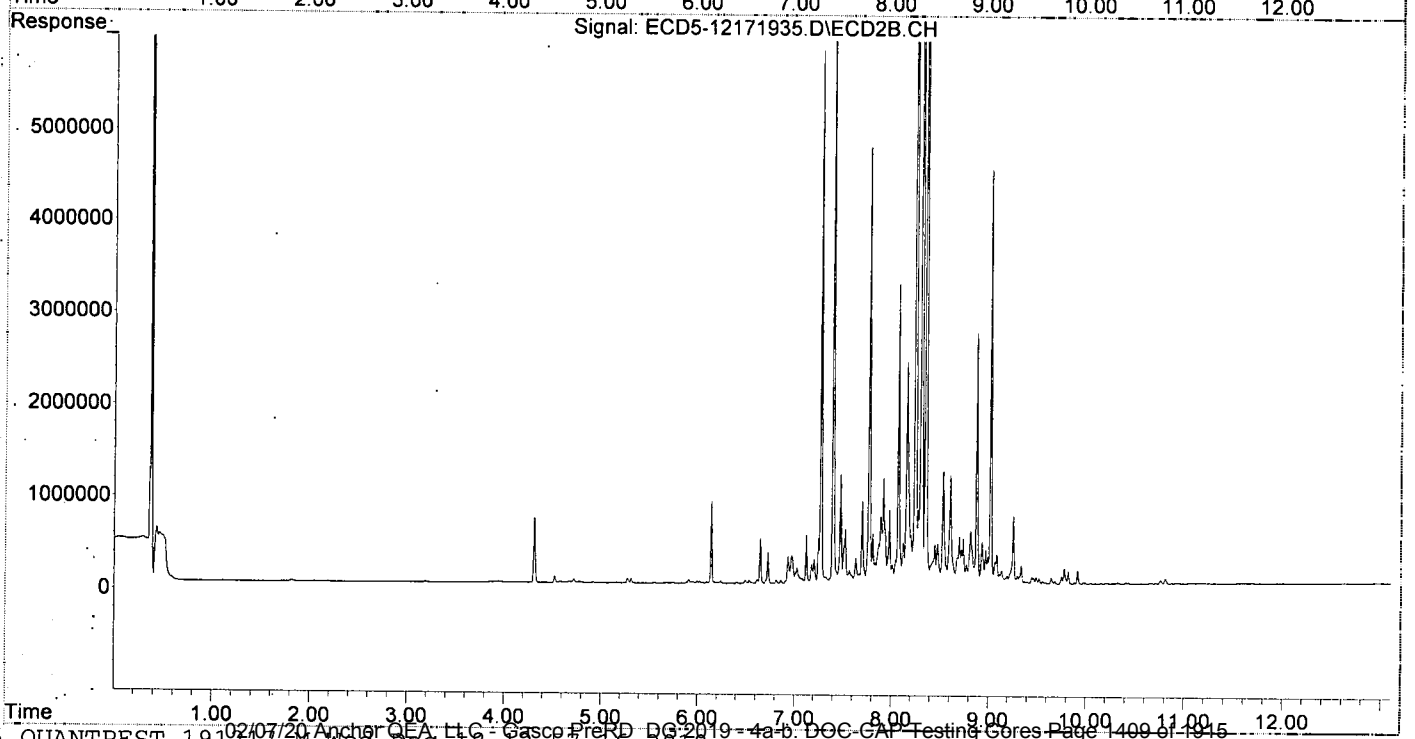
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171935.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 20:45
Operator : MJB
Sample : 9L17040-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: Dec 18 12:57:14 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171943.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 23:02
Operator : MJB
Sample : 9L17040-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: Dec 18 12:57:21 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

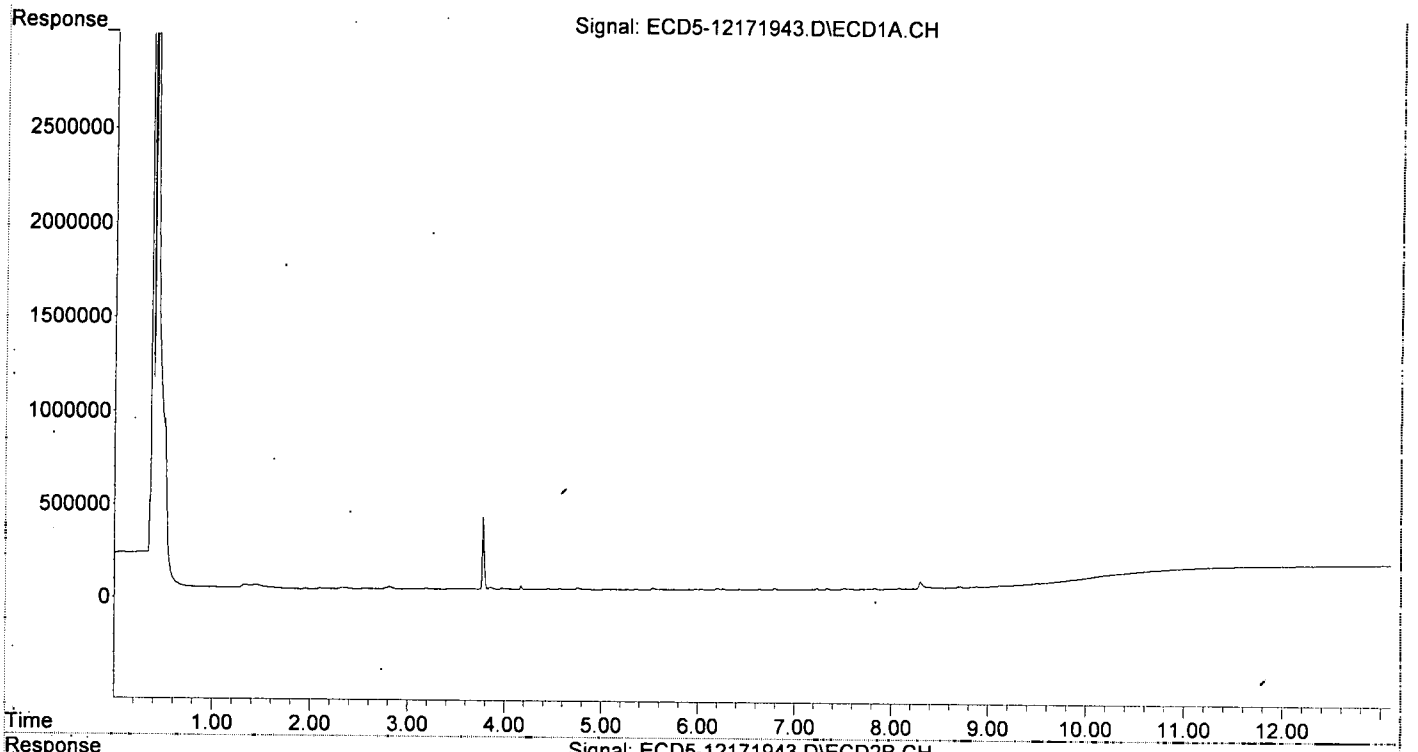
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds									
21)	S	TCMX (S)	5.355	0.000	4795	0	0.027	N.D.	#
22)	S	DCBP (S)	0.000	0.000	0	0	N.D.	N.D.	
Target Compounds									
32)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
33)		g-BHC	6.199	0.000	8112	0	0.040	N.D.	#
34)		b-BHC	6.258	0.000	6916	0	0.098	N.D.	#
35)		Heptachlor	6.634f	0.000	3866	0	0.021	N.D.	#
36)		d-BHC	0.000	7.341	0	10285	N.D.	BelowCal	
37)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
38)		Heptachlo...	7.336f	0.000	7388	0	0.041	N.D.	#
39)		trans-Chl...	0.000	8.263	0	18593	N.D.	0.064	#
40)		cis-Chlor...	7.515	0.000	4784	0	BelowCal	N.D.	
41)		Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
42)		4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
43)		Dieldrin	0.000	0.000	0	0	N.D.	N.D.	
44)		Endrin	0.000	0.000	0	0	N.D.	N.D.	
45)		4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
46)		Endosulfa...	8.079	8.986	6655	4193	0.044	0.018	#
47)		4,4'-DDT	8.148f	9.096	2244	7050	BelowCal	0.265	
48)		Endrin Al...	8.384	9.223	8058	8352	0.067	0.043	
49)		Endosulfa...	8.687	9.413	6710	10800	BelowCal	BelowCal	
50)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
51)		Endrin Ke...	8.880	9.820	5198	11884	BelowCal	BelowCal	
52)		Hexachlor...	3.189	0.000	7218	0	BelowCal	N.D.	
53)		Hexachlor...	0.000	6.571	0	7513	N.D.	0.026	#
54)		Oxychlordane	7.230	0.000	9124	0	BelowCal	N.D.	
55)		2,4'-DDE	7.336f	8.263f	7388	18593	0.069	0.098	#
56)		trans-Non...	7.515f	0.000	4784	0	0.027	N.D.	#
57)		2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
58)		2,4'-DDT	7.829f	0.000	6684	0	0.069	N.D.	#
59)		cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.	
60)		Mirex	0.000	9.820	0	11884	N.D.	BelowCal	
61)		Chlordane...	0.000	8.263	0	18593	N.D.	0.547	#
62)		Chlordane...	7.515	0.000	4784	0	0.212	N.D.	#
63)		Chlordane...	8.079f	9.023	6655	89185	1.166	BelowCal	#
64)		Chlordane...	3.776f	0.000	388665	0	NoCal	N.D.	
65)		Toxaphene...	7.515f	0.000	4784	0	2.811	N.D.	#
66)		Toxaphene...	0.000	8.962f	0	8514	N.D.	2.875	#
67)		Toxaphene...	8.079	8.962	6655	8514	BelowCal	1.757	
68)		Toxaphene...	8.300f	9.023	37886	89185	5.681	4.262	
69)		Toxaphene...	0.000	9.223	0	8352	N.D.	BelowCal	
70)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
71)		Toxaphene...	3.776f	0.000	388665	0	NoCal	N.D.	

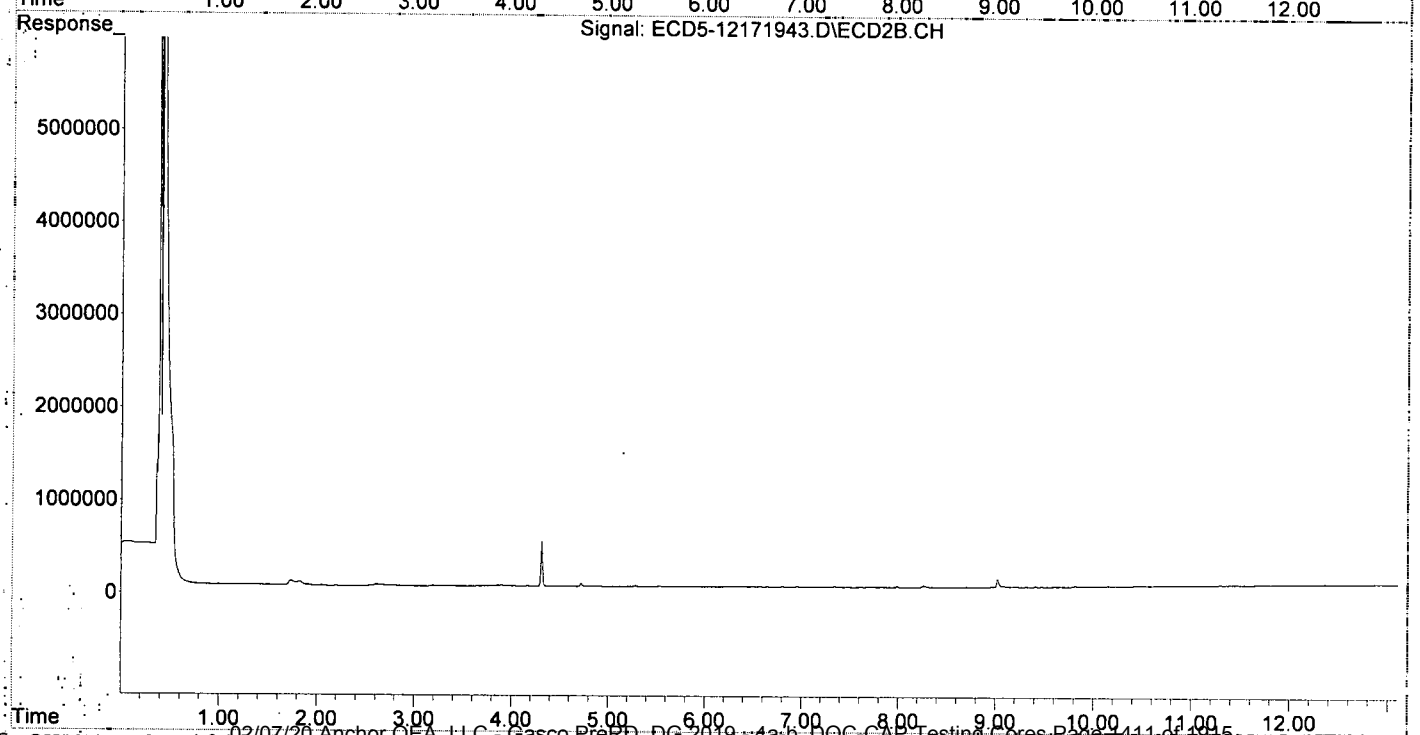
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171943.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 23:02
Operator : MJB
Sample : 9L17040-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: Dec 18 12:57:21 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171944.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 23:19
Operator : MJB
Sample : 9L17040-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: Dec 18 12:57:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.093	0	13550	N.D.	0.046	#
22)	S	DCBP (S)	9.571	10.679f	28565	38020	0.002	0.223	#
		Target Compounds							
2)		a-BHC	5.910	6.700	6220	6565	0.026	0.016	
3)		g-BHC	6.211	7.010	4113	24059	0.020	0.071	#
4)		b-BHC	6.263	7.072	13257	29119	0.187	0.210	
5)		Heptachlor	6.603	7.401	22627	50075	0.123	0.167	
6)		d-BHC	6.406	7.340	8224	45288	0.025	0.116	#
7)		Aldrin	6.846	7.692f	50852	110823	0.268	0.357	
8)		Heptachlo...	7.334f	8.101	249372	393267	1.388	1.373	
9)		trans-Chl...	7.386	8.227f	225895	457745	1.253	1.569	
10)		cis-Chlor...	7.479f	8.378f	413186	462461	2.305	1.648	
11)		Endosulfa...	7.604	8.411	514211	558478	2.926	2.125	
12)		4,4'-DDE	7.527f	8.477	354049	696601	2.304	2.684	
13)		Dieldrin	7.771	8.625	777349	709738	3.960	2.389	
14)		Endrin	7.913f	8.831	638404	1353158	4.179	6.635	#
15)		4,4'-DDD	7.999	8.883	735845	893116	5.945	4.169	
16)		Endosulfa...	8.084	8.971	1708039	2301651	11.179	9.722	
17)		4,4'-DDT	8.165	9.102	1486216	950129	15.569	6.662	#
18)		Endrin Al...	8.370	9.214	1156605	2161794	9.676	11.013	
19)		Endosulfa...	8.688	9.419	650117	926814	4.506	4.569	
20)		Methoxychlor	8.522	9.600	573869	2302277	11.791	29.475	#
21)		Endrin Ke...	8.873	9.841	440519	443290	2.544	1.929	
23)		Hexachlor...	3.189	0.000	6508	0	BelowCal	N.D.	
24)		Hexachlor...	5.791f	6.571	3320	8804	BelowCal	0.030	
25)		Oxychlordane	7.239	8.049	322148	371046	2.081	1.467	
26)		2,4'-DDE	7.334f	8.227	249372	457745	2.313	2.407	
27)		trans-Non...	7.479	8.321	413186	463970	2.299	1.645	
28)		2,4'-DDD	7.690	8.625	573242	709738	5.830	4.186	
29)		2,4'-DDT	7.875	8.831	929377	1353158	9.605	9.980	
30)		cis-Nonac...	7.960	8.883	1085073	893116	5.269	2.789	#
31)		Mirex	8.619	9.841f	1644327	443290	13.708	2.560	#
32)		Chlordane...	7.386	8.227	225895	457745	11.823	13.479	
33)		Chlordane...	7.479	8.335f	413186	435485	18.341	15.076	
34)		Chlordane...	8.024f	9.038	748983	3792379	131.216	461.205	#
35)		Chlordane...	3.721	0.000	5795	0	NoCal	N.D.	
36)		Toxaphene...	7.479	8.571	413186	1147527	494.536	484.997	
37)		Toxaphene...	7.771	8.934	777349	1478183	486.224	499.077	
38)		Toxaphene...	8.084	8.971	1708039	2301651	510.057	474.950	
39)		Toxaphene...	8.324	9.038	1657430	3792379	510.570	510.877	
40)		Toxaphene...	8.552	9.214	1308311	2161794	516.384	516.071	
41)		Toxaphene...	8.619	9.600	1644327	2302277	483.521	502.057	
42)		Toxaphene...	3.721	0.000	5795	0	NoCal	N.D.	

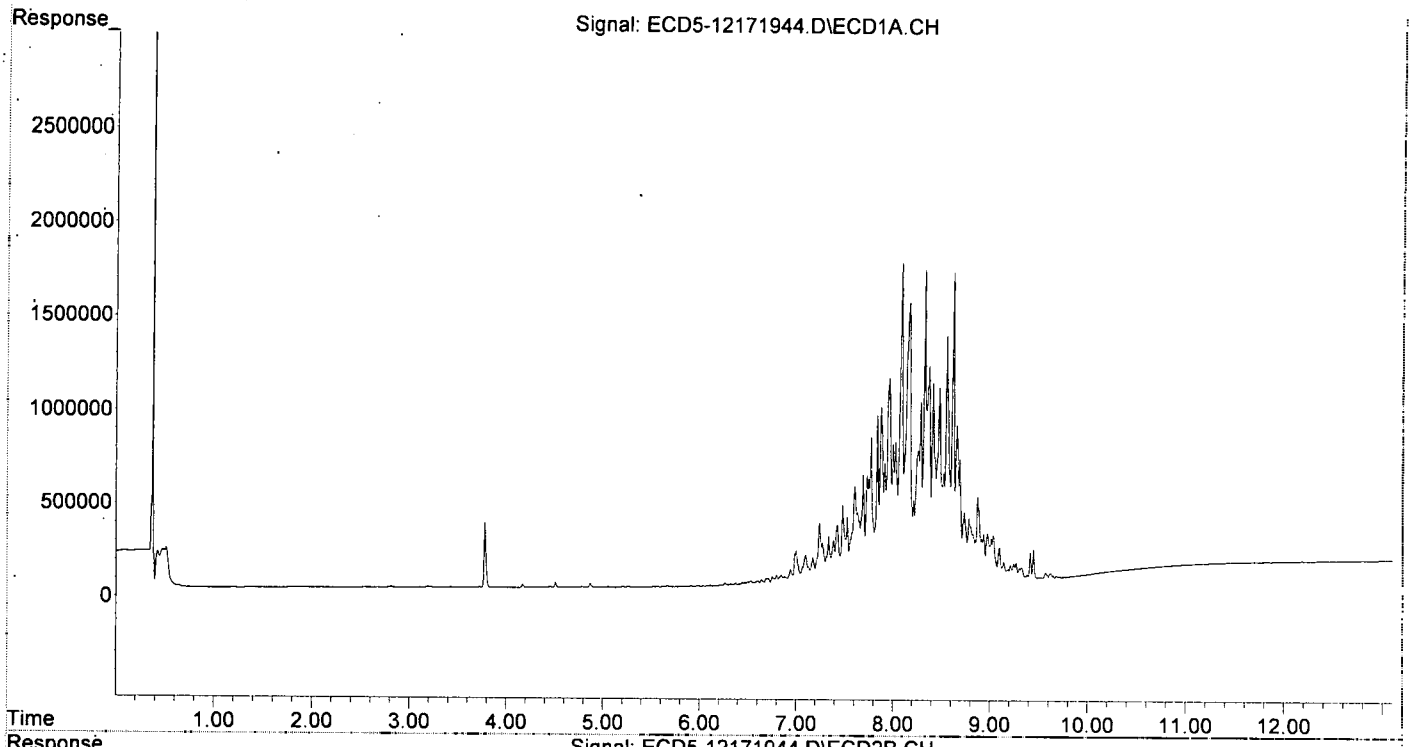
A B
500.22 498.00

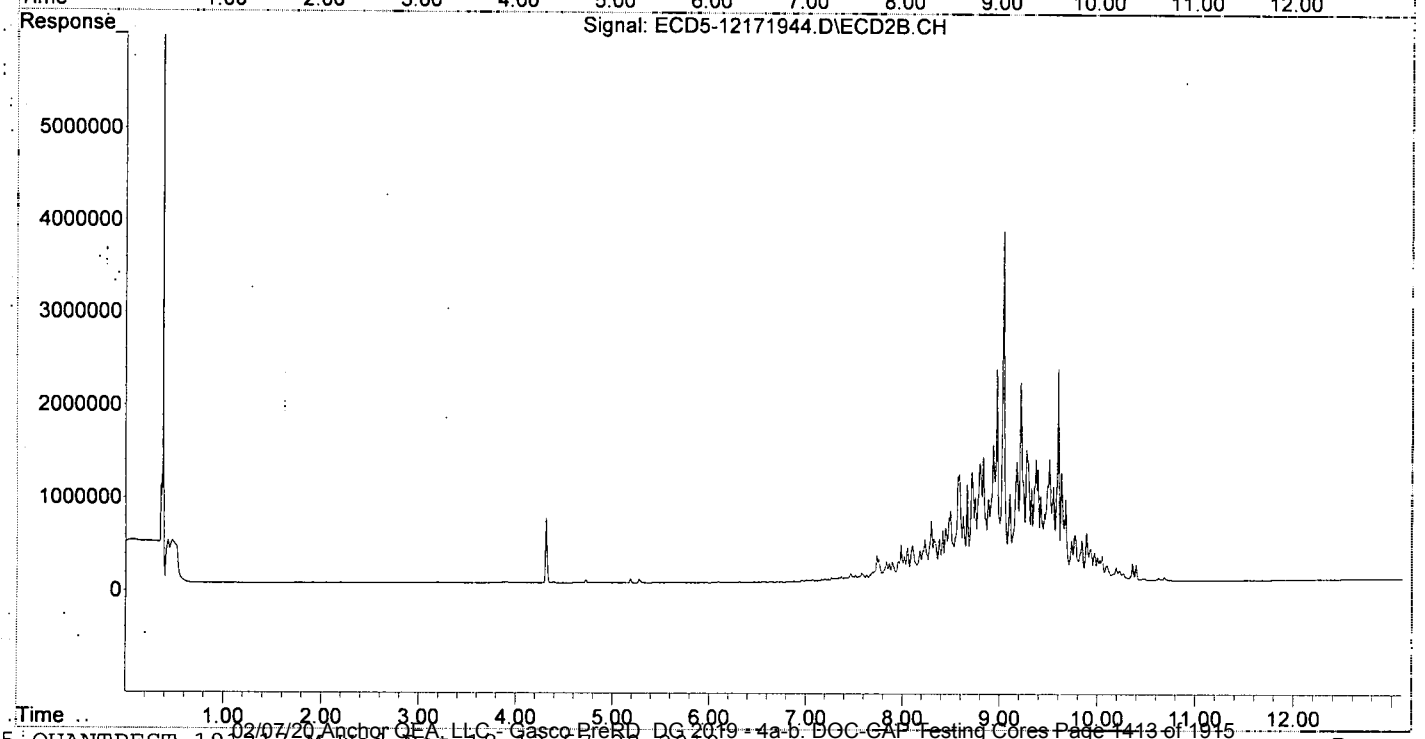
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171944.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 23:19
Operator : MJB
Sample : 9L17040-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: Dec 18 12:57:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
21)	S	TCMX (S)	5.374	6.093	107840	171805	0.605	0.579	
22)	S	DCBP (S)	9.576	10.702	92475	102856	0.485	0.604	
		Target Compounds							
2)		a-BHC	5.914	6.702	125233	196651	0.522	0.494	
3)		g-BHC	6.198	7.022	108992	173094	0.536	0.511	
4)		b-BHC	6.278	7.086	38904	81389	0.549	0.587	
5)		Heptachlor	6.606	7.401	102001	159363	0.555	0.533	
6)		d-BHC	6.428	7.343	76349	156807	0.520	0.514	
7)		Aldrin	6.847	7.670	96511	154419	0.508	0.498	
8)		Heptachlo...	7.311	8.109	102358	153974	0.570	0.538	
9)		trans-Chl...	7.405	8.251	100665	165086	0.558	0.566	
10)		cis-Chlor...	7.502	8.358	115491	155479	0.509	0.554	
11)		Endosulfa...	7.600	8.410	98359	142563	0.560	0.542	
12)		4,4'-DDE	7.567	8.461	81063	144252	0.528	0.514	
13)		Dieldrin	7.772	8.612	108462	155520	0.553	0.524	
14)		Endrin	7.937	8.842	84320	116310	0.552	0.517	
15)		4,4'-DDD	7.989	8.880	82379	138945	0.515	0.518	
16)		Endosulfa...	8.095	8.989	92837	136257	0.608	0.576	
17)		4,4'-DDT	8.185	9.107	53357	77719	0.555	0.754	
18)		Endrin Al...	8.386	9.226	130680	199842	1.093	1.018	
19)		Endosulfa...	8.688	9.417	109906	153851	0.524	0.528	
20)		Methoxychlor	8.521	9.585	35313	48768	0.803	0.800	
21)		Endrin Ke...	8.882	9.822	118883	150334	0.516	0.518	
23)		Hexachlor...	3.193f	0.000	6620	0	BelowCal	N.D.	
24)		Hexachlor...	0.000	6.576	0	6594	N.D.	0.023	#
25)		Oxychlordane	7.232	0.000	8927	0	BelowCal	N.D.	
26)		2,4'-DDE	7.311	8.251	102358	165086	0.949	0.868	
27)		trans-Non...	7.502	8.311	115491	6243	0.643	0.022	#
28)		2,4'-DDD	0.000	8.612	0	155520	N.D.	0.917	#
29)		2,4'-DDT	0.000	8.842	0	116310	N.D.	0.791	#
30)		cis-Nonac...	7.937f	8.880	84320	138945	0.409	0.434	
31)		Mirex	8.627	9.822	2290	150334	BelowCal	0.622	
32)		Chlordane...	7.502	8.251f	115491	165086	2.261	1.777	
33)		Chlordane...	7.600	8.311	98359	6243	1.513	0.080	#
34)		Chlordane...	8.150	8.989	4771	136257	0.320	6.772	#
35)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)		Toxaphene...	7.600	0.000	98359	0	41.723	N.D.	#
37)		Toxaphene...	0.000	8.880f	0	138945	N.D.	16.339	#
38)		Toxaphene...	8.185	0.000	53357	0	6.127	N.D.	#
39)		Toxaphene...	8.466f	8.989	2096	136257	0.250	6.316	#
40)		Toxaphene...	8.627f	9.192	2290	18001	0.373	1.495	#
41)		Toxaphene...	8.688f	9.585f	109906	48768	13.517	3.996	#
42)		Toxaphene...	3.778f	0.000	360415	0	NoCal	N.D.	

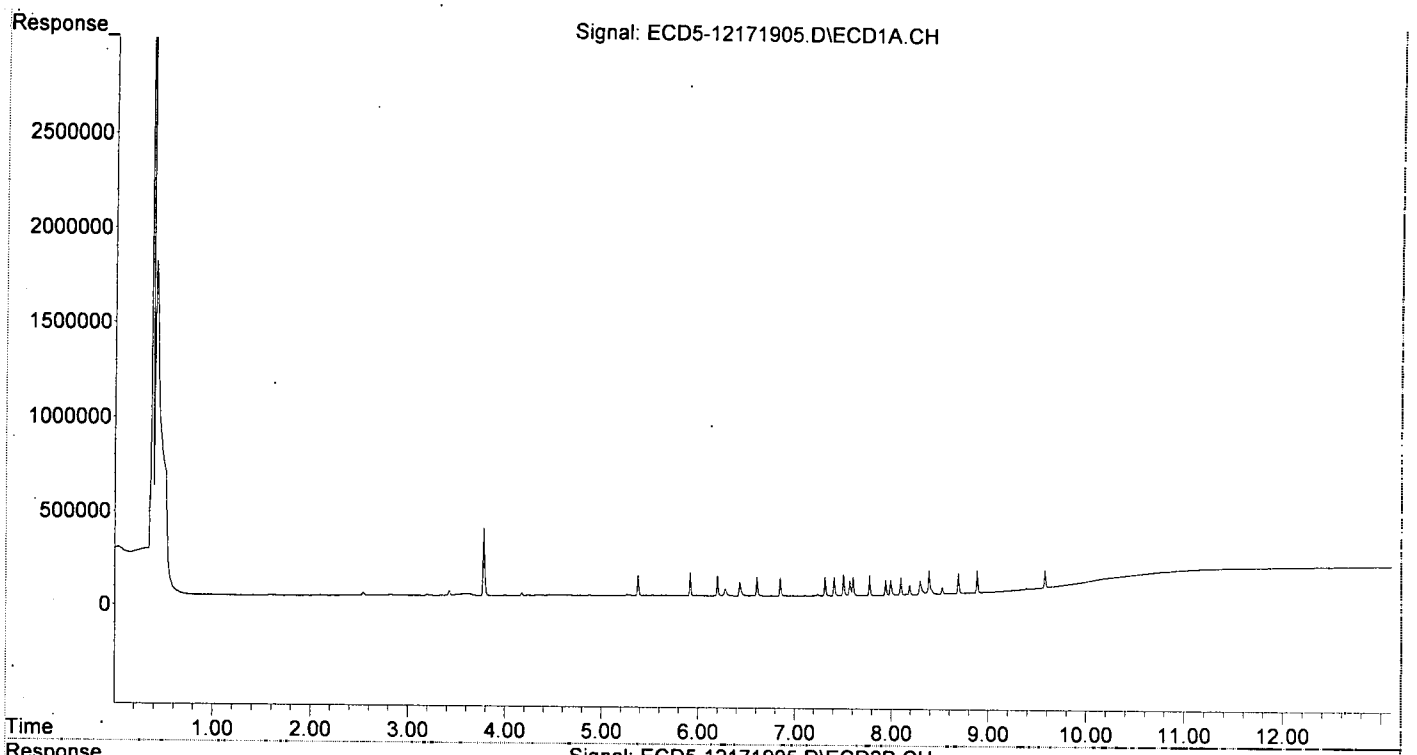
Not used in cal.

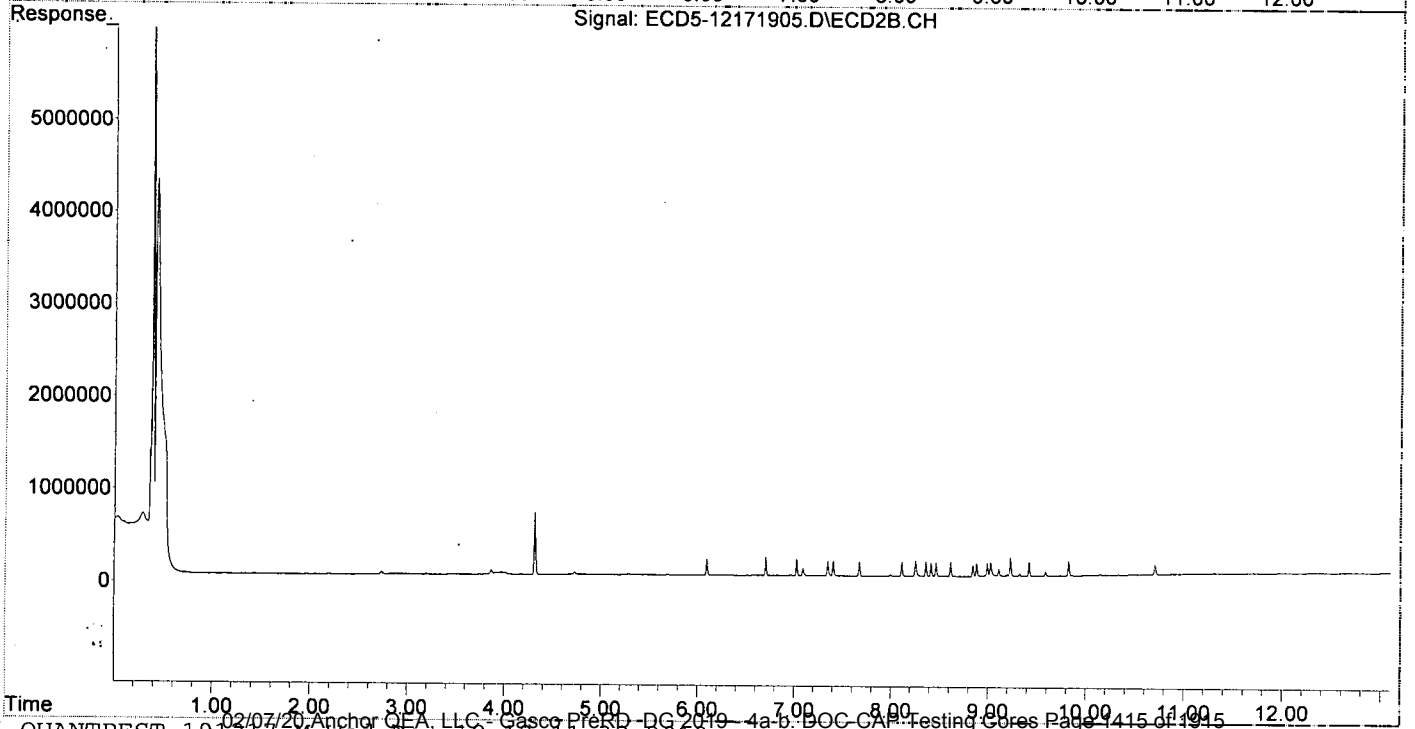
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:44:44 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:26
Operator : MJB
Sample : 9L17040-CAL2
Misc : A19K127, 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: Dec 17 18:45:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

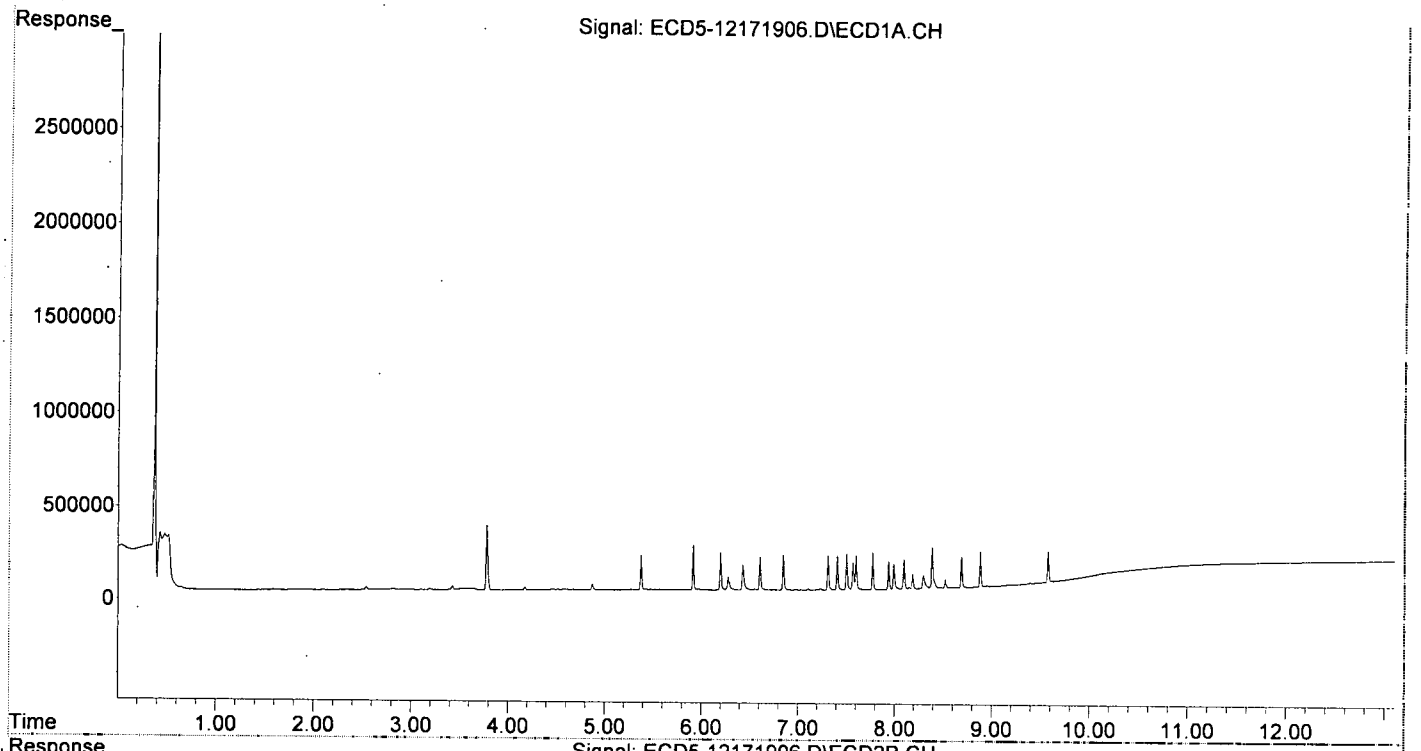
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.373	6.092	184724	297799	1.036	1.003	
22)	S	DCBP (S)	9.576	10.701	166387	184041	1.044	1.081	
		Target Compounds							
2)		a-BHC	5.913	6.701	241374	375078	1.005	0.943	
3)		g-BHC	6.197	7.021	203908	323532	1.003	0.955	
4)		b-BHC	6.277	7.085	70020	143775	0.988	1.037	
5)		Heptachlor	6.605	7.400	181225	289003	0.986	0.966	
6)		d-BHC	6.427	7.343	135318	286739	0.948	0.977	
7)		Aldrin	6.846	7.669	189147	299925	0.996	0.967	✓
8)		Heptachlo...	7.309	8.109	187437	281558	1.043	0.983	
9)		trans-Chl...	7.405	8.249	185492	289448	1.029	0.992	
10)		cis-Chlor...	7.502	8.357	193253	278558	0.979	0.993	
11)		Endosulfa...	7.600	8.410	185825	262580	1.057	0.999	
12)		4,4'-DDE	7.567	8.461	146606	262707	0.954	0.981	
13)		Dieldrin	7.771	8.611	197836	280575	1.008	0.945	
14)		Endrin	7.937	8.841	148336	206050	0.971	0.966	
15)		4,4'-DDD	7.989	8.879	135077	228308	0.956	0.953	
16)		Endosulfa...	8.095	8.988	158465	232669	1.037	0.983	
17)		4,4'-DDT	8.184	9.107	79677	120042	0.843	1.045	
18)		Endrin Al...	8.386	9.225	222466	348248	~~1.861~~	~~1.774~~	→ Not used in cal
19)		Endosulfa...	8.687	9.416	163328	229780	0.919	0.927	
20)		Methoxychlor	8.521	9.585	45321	65371	1.012	1.027	
21)		Endrin Ke...	8.881	9.822	187610	240047	0.950	0.951	✓
23)		Hexachlor...	3.190f	0.000	6690	0	BelowCal	N.D.	
24)		Hexachlor...	0.000	6.574	0	6069	N.D.	0.021	#
25)		Oxychlordane	7.231	0.000	8289	0	BelowCal	N.D.	
26)		2,4'-DDE	7.309	8.249	187437	289448	1.738	1.522	
27)		trans-Non...	7.502	0.000	193253	0	1.075	N.D.	#
28)		2,4'-DDD	0.000	8.611	0	280575	N.D.	1.655	#
29)		2,4'-DDT	0.000	8.841	0	206050	N.D.	1.471	#
30)		cis-Nonac...	7.937f	8.879	148336	228308	0.720	0.713	
31)		Mirex	8.636	9.822	1550	240047	BelowCal	1.216	
32)		Chlordane...	7.502	8.249f	193253	289448	3.784	3.116	
33)		Chlordane...	7.600	8.357f	185825	278558	2.858	3.575	
34)		Chlordane...	8.150	8.988	8069	232669	0.540	11.563	#
35)		Chlordane...	3.777f	0.000	347744	0	NoCal	N.D.	
36)		Toxaphene...	7.600	0.000	185825	0	78.825	N.D.	#
37)		Toxaphene...	0.000	8.879f	0	228308	N.D.	26.848	#
38)		Toxaphene...	8.184	0.000	79677	0	9.149	N.D.	#
39)		Toxaphene...	0.000	8.988	0	232669	N.D.	10.786	#
40)		Toxaphene...	8.636	0.000	1550	0	0.252	N.D.	#
41)		Toxaphene...	8.687f	9.585f	163328	65371	20.087	5.356	#
42)		Toxaphene...	3.777f	0.000	347744	0	NoCal	N.D.	

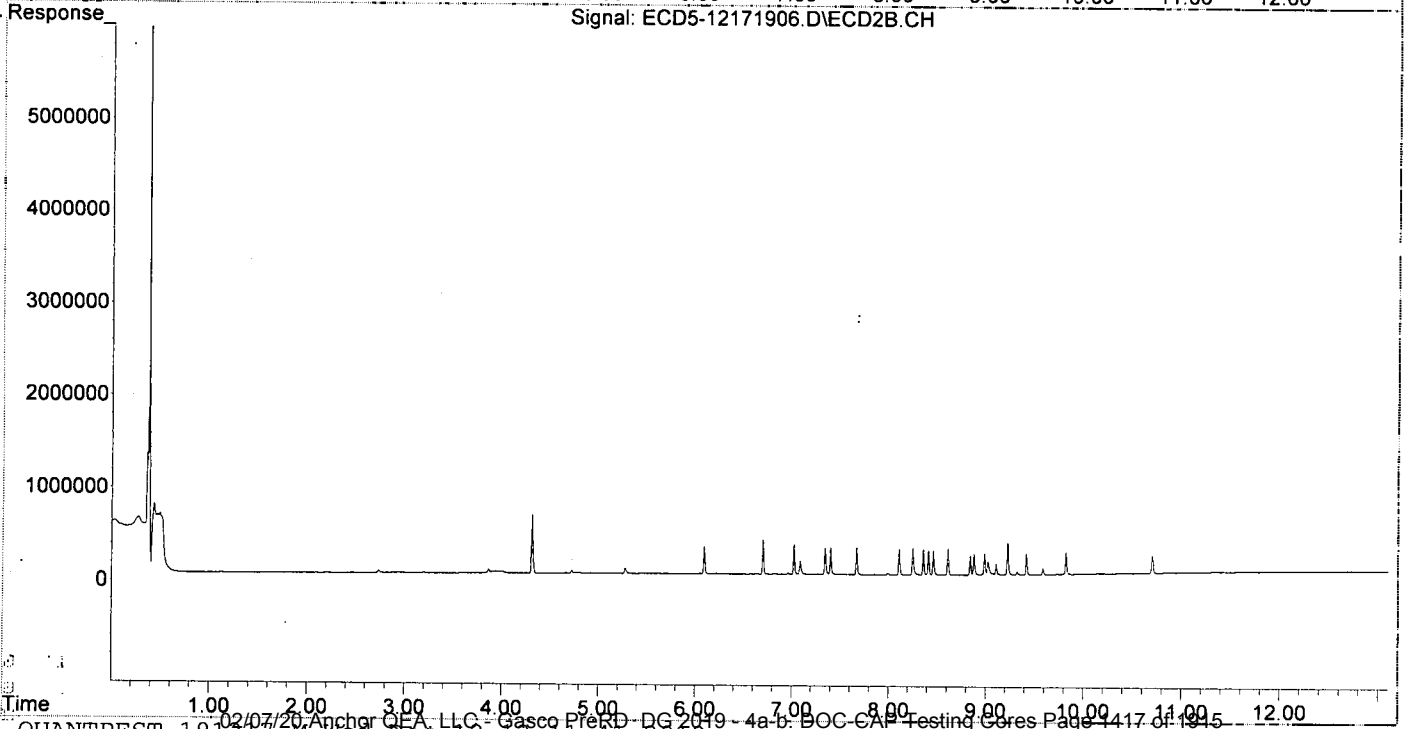
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:26
Operator : MJB
Sample : 9L17040-CAL2
Misc : A19K127, 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: Dec 17 18:45:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:43
Operator : MJB
Sample : 9L17040-CAL3
Misc : A19K128, 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: Dec 17 18:46:05 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

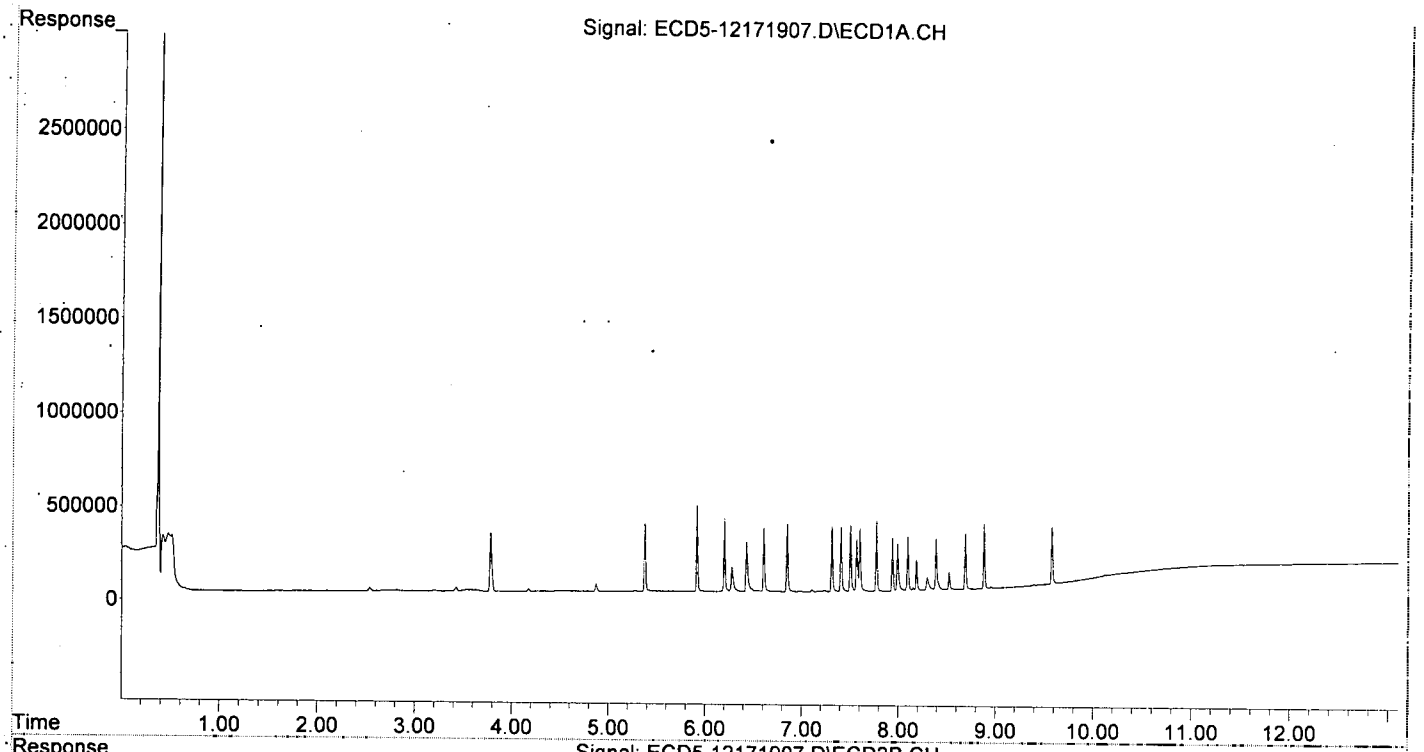
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.374	6.093	361023	580590	2.024	1.956	
22)	S	DCBP (S)	9.576	10.701	302818	347202	2.074	2.039	
		Target Compounds							
2)		a-BHC	5.914	6.701	459108	719006	1.912	1.807	
3)		g-BHC	6.197	7.021	386286	613703	1.900	1.812	
4)		b-BHC	6.276	7.085	131691	266326	1.857	1.922	
5)		Heptachlor	6.605	7.400	342809	536465	1.865	1.793	
6)		d-BHC	6.426	7.343	266215	536200	1.895	1.864	
7)		Aldrin	6.847	7.669	362515	569789	1.909	1.836	
8)		Heptachlo...	7.309	8.109	346704	532800	1.930	1.860	
9)		trans-Chl...	7.405	8.249	346350	527678	1.921	1.809	
10)		cis-Chlor...	7.502	8.358	352877	521577	1.942	1.858	
11)		Endosulfa...	7.600	8.410	338273	470630	1.925	1.791	
12)		4,4'-DDE	7.567	8.461	275625	489498	1.794	1.872	
13)		Dieldrin	7.771	8.611	377531	528006	1.923	1.778	
14)		Endrin	7.937	8.841	284266	385254	1.861	1.859	
15)		4,4'-DDD	7.989	8.879	252316	423022	1.936	1.899	
16)		Endosulfa...	8.095	8.988	289510	443878	1.895	1.875	
17)		4,4'-DDT	8.184	9.106	163361	241293	1.759	1.878	
18)		Endrin Al...	8.386	9.226	276999	419673	2.317	2.138	
19)		Endosulfa...	8.688	9.416	299968	404451	1.928	1.844	
20)		Methoxychlor	8.521	9.586	91580	130584	1.975	1.916	
21)		Endrin Ke...	8.881	9.822	345442	438726	1.945	1.907	
23)		Hexachlor...	3.192f	0.000	5167	0	BelowCal	N.D.	
24)		Hexachlor...	0.000	6.574	0	5997	N.D.	0.020	#
25)		Oxychlordane	7.232	0.000	8004	0	BelowCal	N.D.	
26)		2,4'-DDE	7.309	8.249	346704	527678	3.216	2.775	
27)		trans-Non...	7.502	0.000	352877	0	1.963	N.D.	#
28)		2,4'-DDD	0.000	8.611	0	528006	N.D.	3.114	#
29)		2,4'-DDT	0.000	8.841	0	385254	N.D.	2.823	#
30)		cis-Nonac...	7.937f	8.879	284266	423022	1.380	1.321	
31)		Mirex	8.636	9.822	2479	438726	BelowCal	2.529	
32)		Chlordane...	7.502	8.249f	352877	527678	6.909	5.681	
33)		Chlordane...	7.600	8.358f	338273	521577	5.202	6.694	
34)		Chlordane...	8.150	8.988	14543	443878	0.974	22.060	#
35)		Chlordane...	3.777f	0.000	313441	0	NoCal	N.D.	
36)		Toxaphene...	7.600	0.000	338273	0	143.492	N.D.	#
37)		Toxaphene...	0.000	8.879f	0	423022	N.D.	49.745	#
38)		Toxaphene...	8.184	0.000	163361	0	18.759	N.D.	#
39)		Toxaphene...	0.000	8.988	0	443878	N.D.	20.577	#
40)		Toxaphene...	8.636	0.000	2479	0	0.403	N.D.	#
41)		Toxaphene...	8.688f	9.586f	299968	130584	36.891	10.700	#
42)		Toxaphene...	3.777f	0.000	313441	0	NoCal	N.D.	

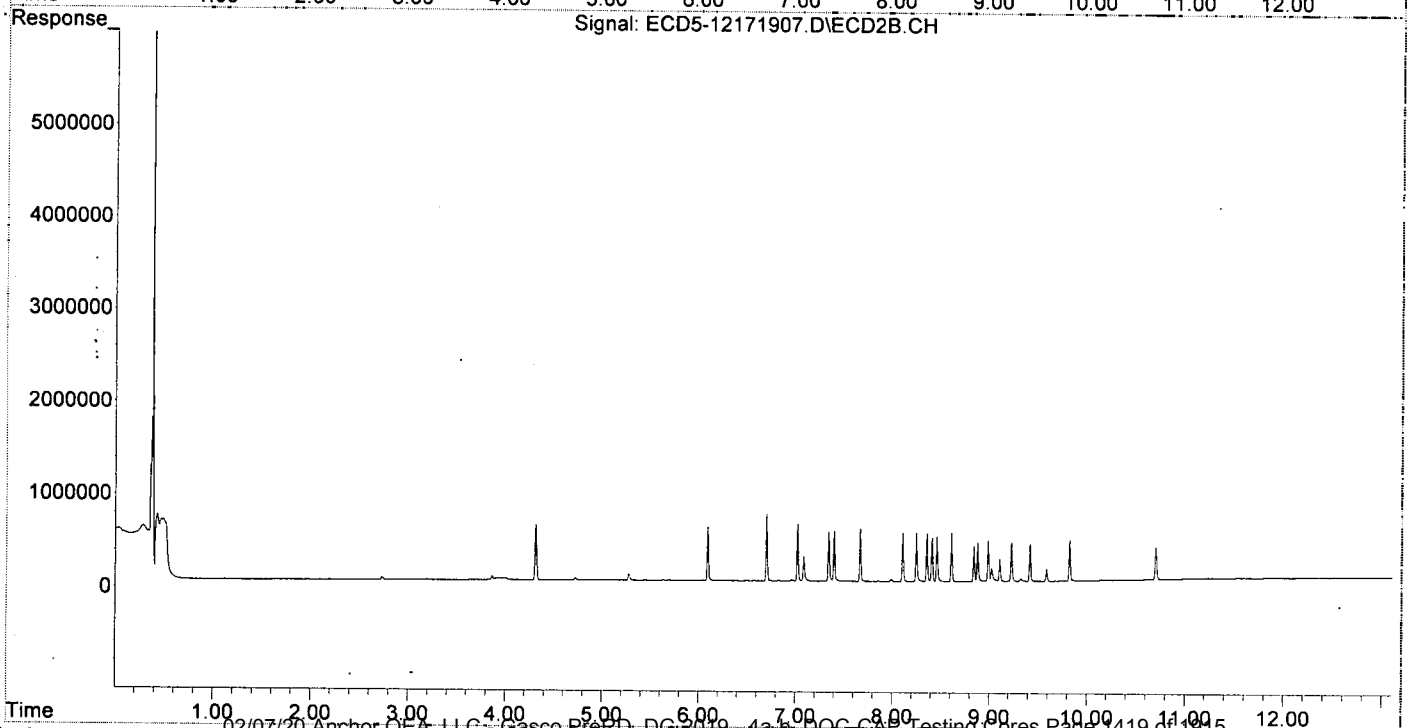
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:43
Operator : MJB
Sample : 9L17040-CAL3
Misc : A19K128, 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: Dec 17 18:46:05 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:01
Operator : MJB
Sample : 9L17040-CAL4
Misc : A19K130, 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: Dec 17 18:46:28 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12.18.19

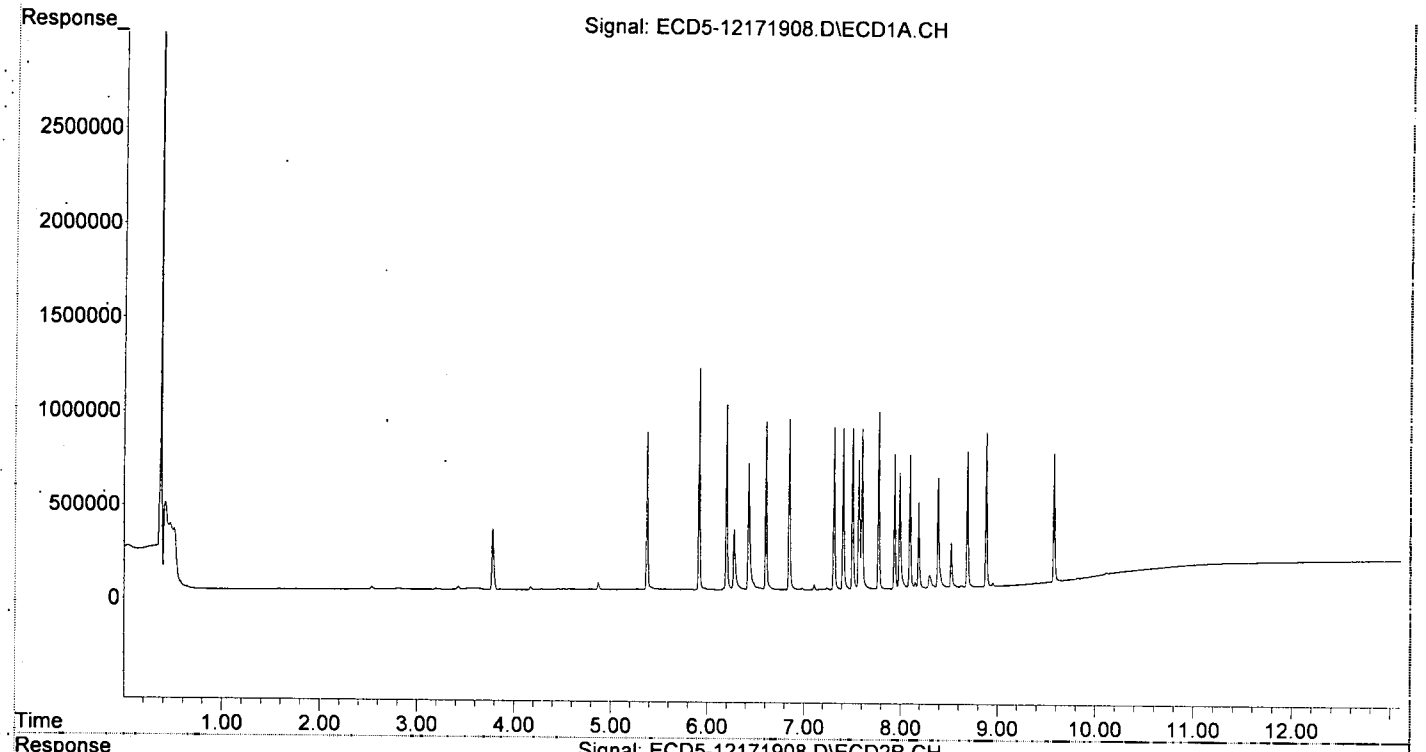
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.373	6.092	843510	1374589	4.729	4.630	
22)	S	DCBP (S)	9.575	10.701	693262	768471	5.019	4.513	
		Target Compounds							
2)		a-BHC	5.913	6.701	1182849	1877429	4.927	4.718	
3)		g-BHC	6.196	7.021	989578	1589909	4.866	4.695	
4)		b-BHC	6.275	7.085	319479	642581	4.506	4.637	
5)		Heptachlor	6.605	7.399	896908	1382442	4.878	4.621	
6)		d-BHC	6.425	7.342	674132	1405767	4.823	4.932	
7)		Aldrin	6.846	7.668	914719	1467413	4.817	4.729	
8)		Heptachlo...	7.309	8.108	870850	1323228	4.847	4.620	
9)		trans-Chl...	7.404	8.249	854340	1323437	4.739	4.537	
10)		cis-Chlor...	7.501	8.357	858342	1299605	4.984	4.631	
11)		Endosulfa...	7.599	8.409	860009	1213631	4.894	4.617	
12)		4,4'-DDE	7.566	8.461	693169	1255498	4.512	4.863	
13)		Dieldrin	7.771	8.610	937319	1369414	4.775	4.610	
14)		Endrin	7.936	8.840	724200	1017388	4.740	4.987	
15)		4,4'-DDD	7.988	8.878	615909	1057950	4.955	4.960	
16)		Endosulfa...	8.094	8.988	711439	1076068	4.656	4.545	
17)		4,4'-DDT	8.184	9.106	453915	660247	4.895	4.723	
18)		Endrin Al...	8.385	9.225	587378	953401	4.914	4.857	
19)		Endosulfa...	8.686	9.416	724874	999583	5.056	4.947	
20)		Methoxychlor	8.520	9.585	237393	357925	4.986	4.983	
21)		Endrin Ke...	8.880	9.821	820034	1080727	4.928	4.972	
23)		Hexachlor...	3.190f	0.000	5436	0	BelowCal	N.D.	
24)		Hexachlor...	0.000	6.574	0	6686	N.D.	0.023	#
25)		Oxychlordane	7.232	0.000	8001	0	BelowCal	N.D.	
26)		2,4'-DDE	7.309	8.249	870850	1323437	8.077	6.959	
27)		trans-Non...	7.501	0.000	858342	0	4.775	N.D.	#
28)		2,4'-DDD	0.000	8.610	0	1369414	N.D.	8.077	#
29)		2,4'-DDT	0.000	8.840	0	1017388	N.D.	7.523	#
30)		cis-Nonac...	7.936f	8.878	724200	1057950	3.517	3.304	
31)		Mirex	8.623	9.821	6691	1080727	BelowCal	6.745	
32)		Chlordane...	7.501	8.209	858342	8754	16.805	0.094	#
33)		Chlordane...	7.599	8.357f	860009	1299605	13.226	16.679	
34)		Chlordane...	8.149	8.988	31250	1076068	2.093	53.479	#
35)		Chlordane...	3.776f	0.000	326467	0	NoCal	N.D.	
36)		Toxaphene...	7.599	0.000	860009	0	364.807	N.D.	#
37)		Toxaphene...	0.000	8.878f	0	1057950	N.D.	124.410	#
38)		Toxaphene...	8.184	0.000	453915	0	52.124	N.D.	#
39)		Toxaphene...	0.000	8.988	0	1076068	N.D.	49.883	#
40)		Toxaphene...	8.623f	0.000	6691	0	1.089	N.D.	#
41)		Toxaphene...	8.686f	9.585f	724874	357925	89.148	29.327	#
42)		Toxaphene...	3.776f	0.000	326467	0	NoCal	N.D.	

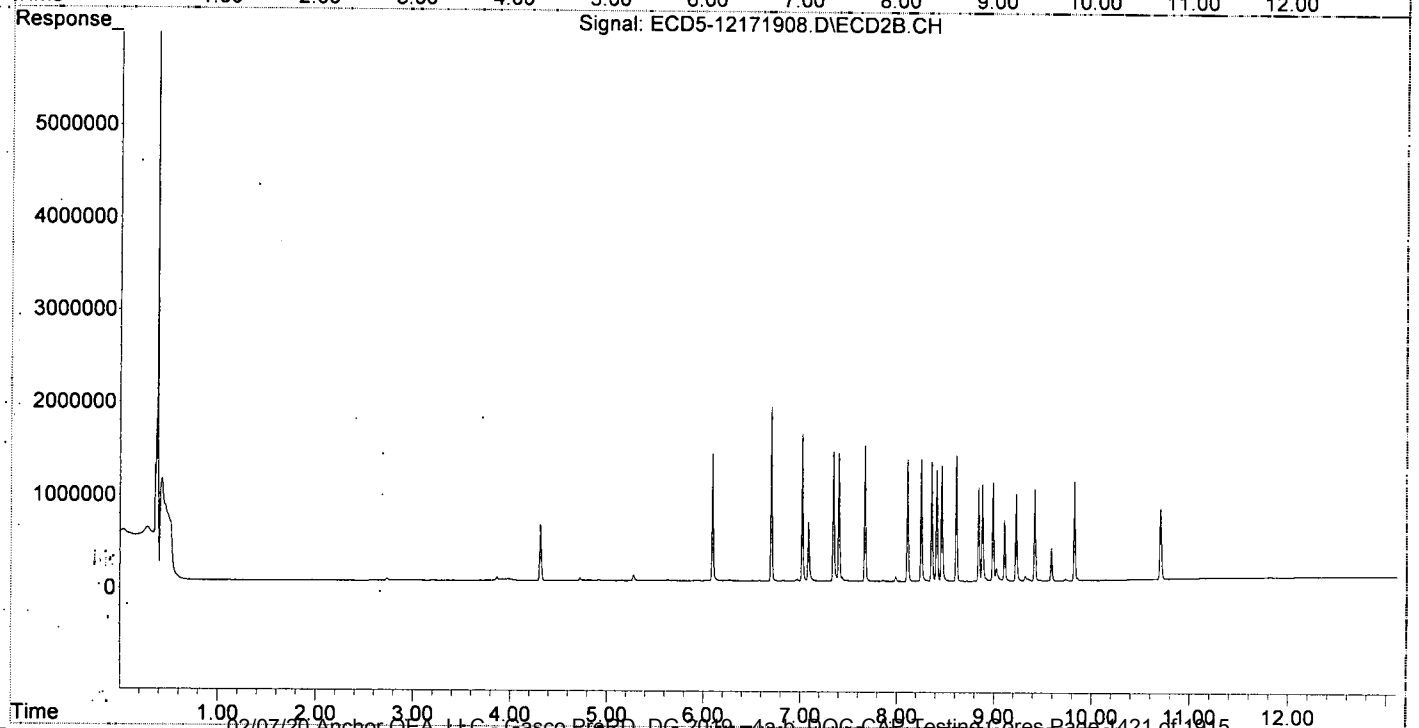
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:01
Operator : MJB
Sample : 9L17040-CAL4
Misc : A19K130, 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: Dec 17 18:46:28 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171909.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:18
Operator : MJB
Sample : 9L17040-CAL5
Misc : A19K131, 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: Dec 17 18:46:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

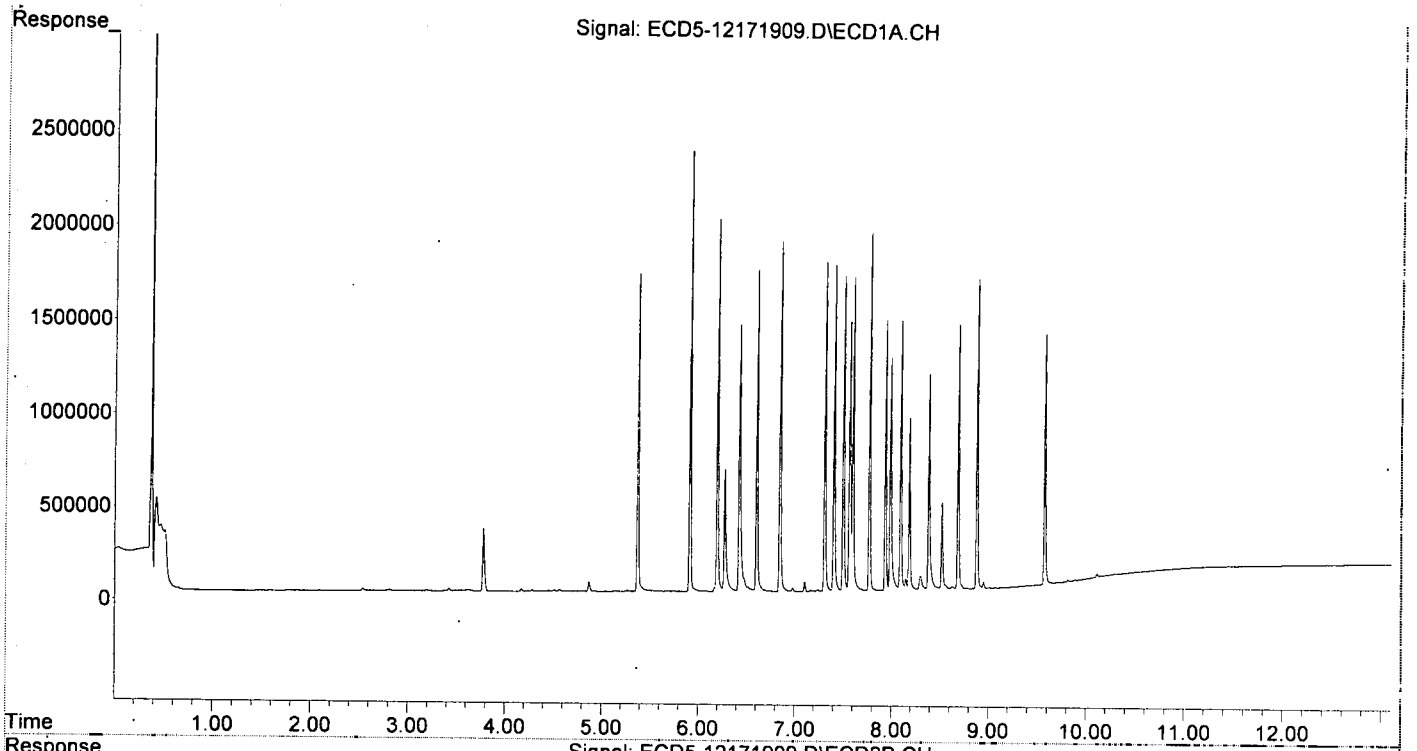
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.373	6.092	1699266	2759992	9.527	9.297	
22)	S DCBP (S)	9.575	10.700	1335922	1559283	9.855	9.157	
	Target Compounds							
2)	a-BHC	5.913	6.701	2350656	3830771	9.792	9.626	
3)	g-BHC	6.196	7.021	1981782	3170788	9.745	9.364	
4)	b-BHC	6.274	7.084	643167	1261615	9.071	9.104	
5)	Heptachlor	6.604	7.399	1717256	2744140	9.340	9.172	
6)	d-BHC	6.424	7.342	1417249	2891635	10.070	10.092	
7)	Aldrin	6.846	7.669	1862536	2936331	9.809	9.464	
8)	Heptachlo...	7.308	8.108	1748792	2700621	9.734	9.430	
9)	trans-Chl...	7.404	8.249	1699960	2659413	9.429	9.117	
10)	cis-Chlor...	7.501	8.357	1662015	2576710	9.799	9.181	
11)	Endosulfa...	7.599	8.409	1675334	2471513	9.533	9.403	
12)	4,4'-DDE	7.565	8.461	1421662	2597057	9.253	10.022	
13)	Dieldrin	7.770	8.611	1881171	2832469	9.584	9.535	
14)	Endrin	7.936	8.840	1441333	2015224	9.434	9.856	
15)	4,4'-DDD	7.988	8.878	1208878	2126589	9.822	10.037	
16)	Endosulfa...	8.093	8.987	1439037	2161513	9.418	9.130	
17)	4,4'-DDT	8.183	9.106	921208	1369041	9.813	9.424	
18)	Endrin Al...	8.385	9.225	1135948	1835183	9.503	9.349	
19)	Endosulfa...	8.686	9.416	1414215	1981311	10.099	9.992	
20)	Methoxychlor	8.520	9.585	455886	682302	9.426	9.277	
21)	Endrin Ke...	8.880	9.821	1653533	2104459	10.132	9.786	
23)	Hexachlor...	3.190f	0.000	6295	0	BelowCal	N.D.	
24)	Hexachlor...	5.751	6.574	4562	5975	BelowCal	0.020	
25)	Oxychlordane	7.239	0.000	8864	0	BelowCal	N.D.	
26)	2,4'-DDE	7.308	8.249	1748792	2659413	16.220	13.984	
27)	trans-Non...	7.501	0.000	1662015	0	9.246	N.D.	#
28)	2,4'-DDD	0.000	8.611	0	2832469	N.D.	16.707	#
29)	2,4'-DDT	0.000	8.840	0	2015224	N.D.	14.745	#
30)	cis-Nonac...	7.936f	8.878	1441333	2126589	6.999	6.641	
31)	Mirex	8.631	9.821	12705	2104459	BelowCal	13.382	
32)	Chlordane...	7.501	8.208	1662015	16285	32.540	0.175	#
33)	Chlordane...	7.599	8.357f	1675334	2576710	25.765	33.068	
34)	Chlordane...	8.183f	8.987	921208	2161513	61.702	107.425	#
35)	Chlordane...	3.777f	0.000	338463	0	NoCal	N.D.	
36)	Toxaphene...	7.599	0.000	1675334	0	710.659	N.D.	#
37)	Toxaphene...	0.000	8.878f	0	2126589	N.D.	250.077	#
38)	Toxaphene...	8.183	0.000	921208	0	105.784	N.D.	#
39)	Toxaphene...	0.000	8.987	0	2161513	N.D.	100.200	#
40)	Toxaphene...	8.631	0.000	12705	0	2.067	N.D.	#
41)	Toxaphene...	8.686f	9.585f	1414215	682302	173.926	55.905	#
42)	Toxaphene...	3.777f	0.000	338463	0	NoCal	N.D.	

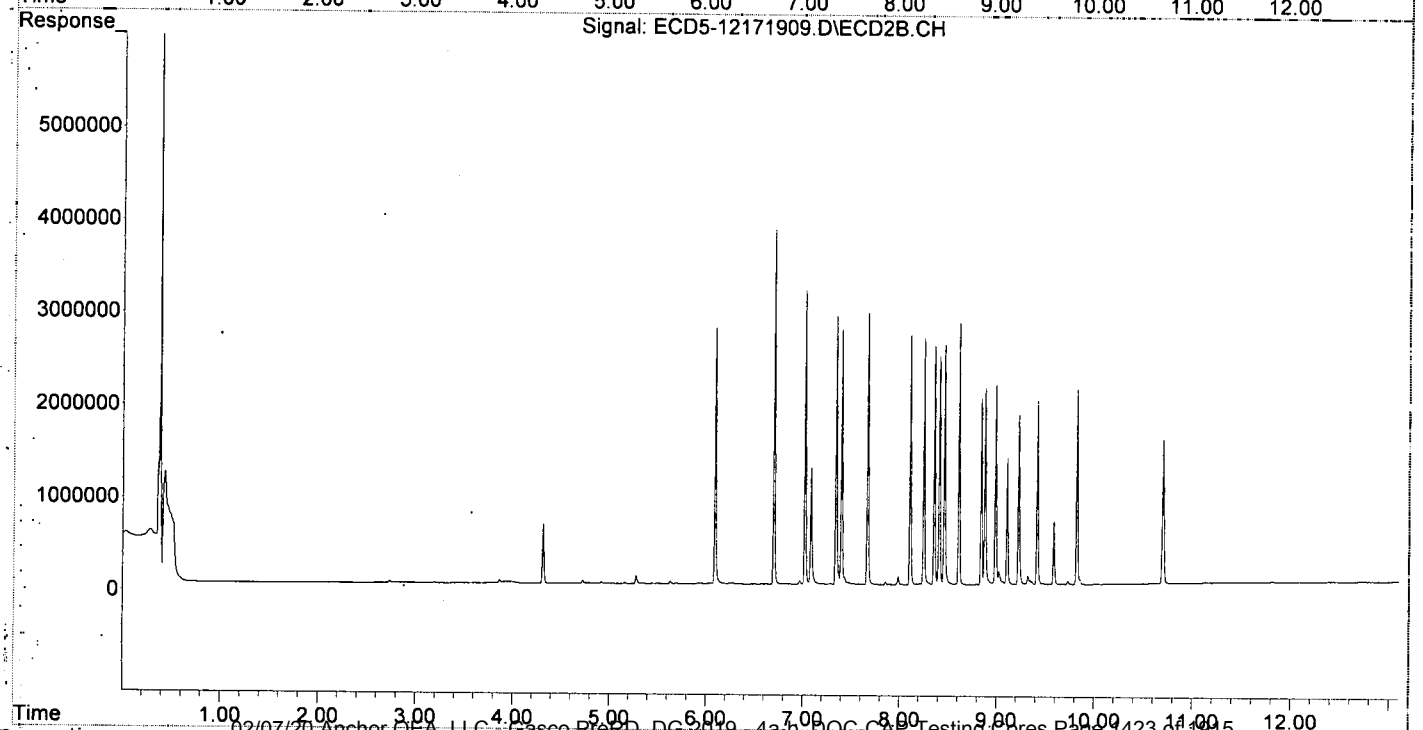
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171909.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:18
Operator : MJB
Sample : 9L17040-CAL5
Misc : A19K131, 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: Dec 17 18:46:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:35
Operator : MJB
Sample : 9L17040-CAL6
Misc : A19K132, 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: Dec 17 18:46:56 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

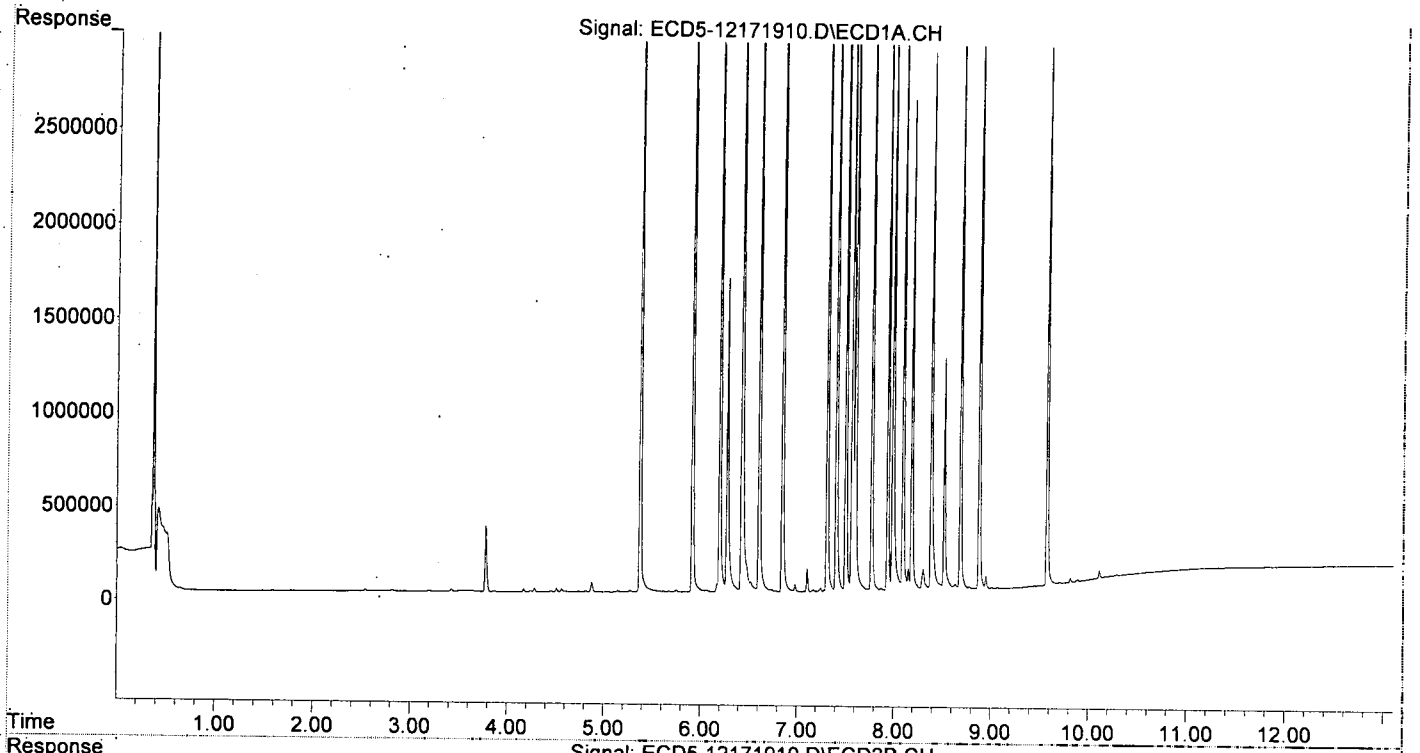
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.374	6.094	4243594	6986261	23.791	23.533	
22)	S	DCBP (S)	9.577	10.702	3306397	3845378	24.590	22.583	
		Target Compounds							
2)		a-BHC	5.914	6.703	5936103	9864465	24.727	24.788	
3)		g-BHC	6.198	7.023	4954608	8310977	24.364	24.544	
4)		b-BHC	6.275	7.086	1669971	3210892	23.553	23.170	
5)		Heptachlor	6.606	7.401	4364591	7265847	23.739	24.285	
6)		d-BHC	6.426	7.344	3749624	7522457	25.867	25.560	
7)		Aldrin	6.847	7.671	4690741	7574380	24.702	24.411	
8)		Heptachlo...	7.310	8.110	4236498	6805140	23.580	23.762	
9)		trans-Chl...	7.405	8.250	4360278	7018076	24.185	24.060	
10)		cis-Chlor...	7.502	8.358	4326723	6704391	25.572	23.889	
11)		Endosulfa...	7.600	8.411	4267974	6311814	24.285	24.014	
12)		4,4'-DDE	7.566	8.462	3722284	6834813	24.228	25.717	
13)		Dieldrin	7.771	8.612	4824660	7347082	24.580	24.734	
14)		Endrin	7.936	8.842	3735781	5413970	24.452	25.849	
15)		4,4'-DDD	7.988	8.880	3263714	5518468	26.179	25.578	
16)		Endosulfa...	8.094	8.989	3611428	5536790	23.637	23.387	
17)		4,4'-DDT	8.184	9.108	2612422	3840634	26.497	24.857	
18)		Endrin Al...	8.385	9.227	2863649	4660864	23.956	23.744	
19)		Endosulfa...	8.687	9.418	3552392	5155901	25.503	25.735	
20)		Methoxychlor	8.521	9.586	1237898	1949432	24.689	25.237	
21)		Endrin Ke...	8.881	9.823	4148947	5733301	25.462	26.184	
23)		Hexachlor...	3.191f	0.000	6128	0	BelowCal	N.D.	
24)		Hexachlor...	5.753	6.575	8036	5672	BelowCal	0.019	
25)		Oxychlordane	7.245	8.030	21213	9410	BelowCal	0.037	
26)		2,4'-DDE	7.310	8.250	4236498	7018076	39.292	36.903	
27)		trans-Non...	7.502	8.305	4326723	37509	24.071	0.133	#
28)		2,4'-DDD	0.000	8.612	0	7347082	N.D.	43.336	#
29)		2,4'-DDT	7.868	8.842	12244	5413970	0.127	37.778	#
30)		cis-Nonac...	7.936f	8.880	3735781	5518468	18.142	17.234	
31)		Mirex	8.636	9.823	27746	5733301	BelowCal	36.127	
32)		Chlordane...	7.502	8.209	4326723	35144	84.712	0.378	#
33)		Chlordane...	7.600	8.305f	4267974	37509	65.636	0.481	#
34)		Chlordane...	8.150	8.989	113745	5536790	7.619	275.173	#
35)		Chlordane...	3.778f	0.000	352622	0	NoCal	N.D.	
36)		Toxaphene...	7.600	8.583f	4267974	23902	1810.430	3.497	#
37)		Toxaphene...	7.868	8.880f	12244	5518468	2.881	648.946	#
38)		Toxaphene...	8.184	0.000	2612422	0	299.990	N.D.	#
39)		Toxaphene...	0.000	8.989	0	5536790	N.D.	256.666	#
40)		Toxaphene...	8.636	0.000	27746	0	4.515	N.D.	#
41)		Toxaphene...	8.687f	9.586f	3552392	1949432	436.889	159.729	#
42)		Toxaphene...	3.778f	0.000	352622	0	NoCal	N.D.	

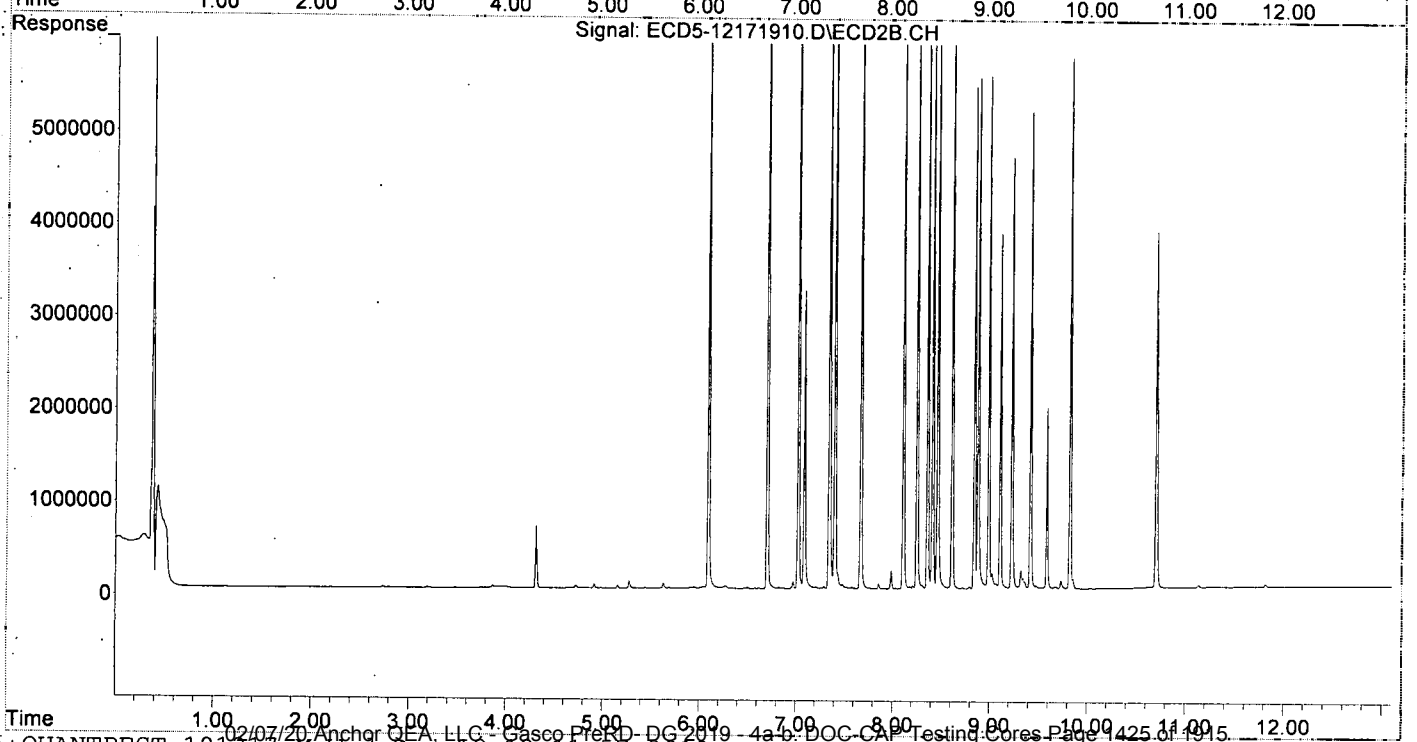
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:35
Operator : MJB
Sample : 9L17040-CAL6
Misc : A19K132, 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: Dec 17 18:46:56 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171911.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:52
Operator : MJB
Sample : 9L17040-CAL7
Misc : A19K133, 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: Dec 17 18:47:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

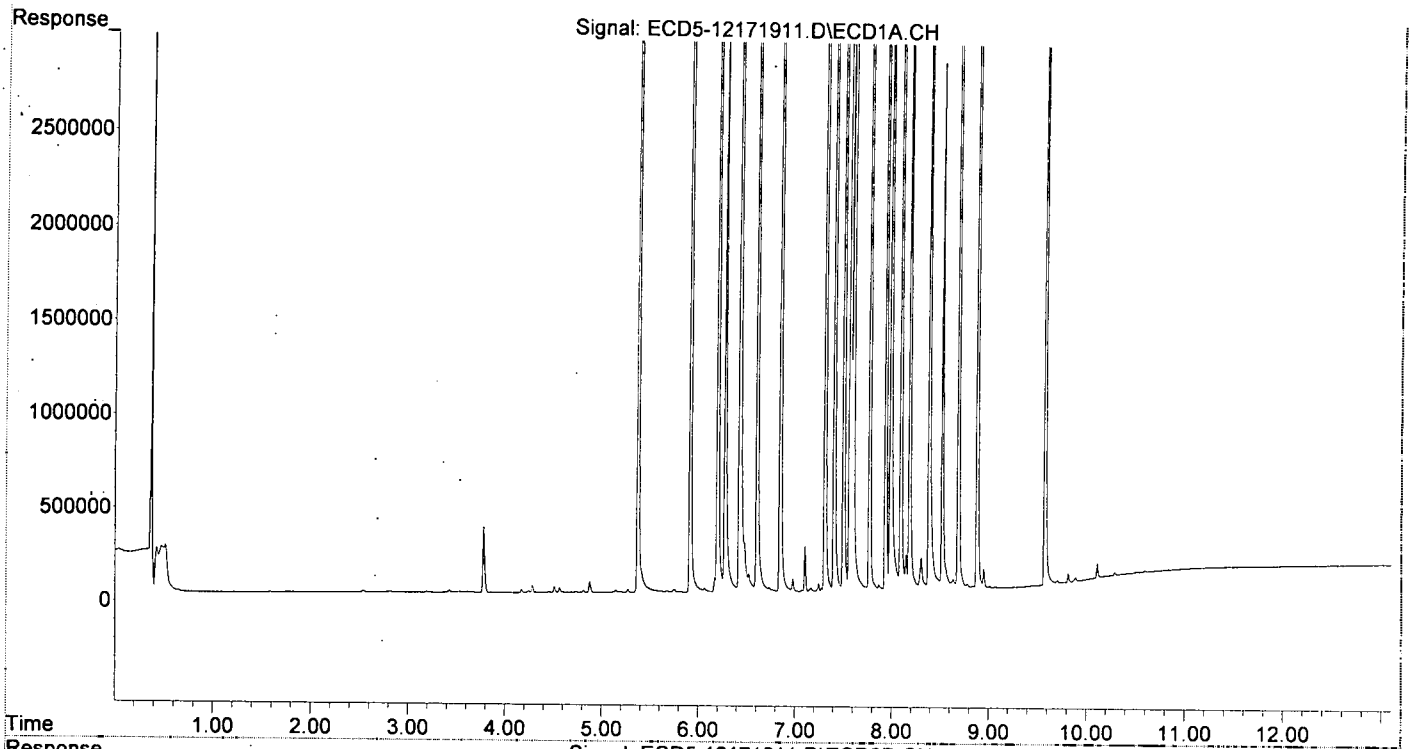
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.374	6.093	8449545	14176645	47.371	47.754	
22)	S	DCBP (S)	9.575	10.701	6524046	8054885	48.358	47.304	
		Target Compounds							
2)		a-BHC	5.914	6.702	11868342	20274387	49.438	50.948	
3)		g-BHC	6.197	7.022	10057825	17320813	49.458	51.151	
4)		b-BHC	6.273	7.084	3539897	6647192	49.927	47.966	
5)		Heptachlor	6.605	7.400	9059429	14845579	49.273	49.619	
6)		d-BHC	6.423	7.342	7754511	15790849	51.006	51.229	
7)		Aldrin	6.846	7.669	9536334	15779115	50.220	50.855	
8)		Heptachlo...	7.308	8.109	8647248	14017061	48.130	48.945	
9)		trans-Chl...	7.403	8.249	8893103	14430791	49.327	49.473	
10)		cis-Chlor...	7.500	8.357	8733660	13785379	51.046	49.120	
11)		Endosulfa...	7.598	8.409	8514085	12951478	48.446	49.275	
12)		4,4'-DDE	7.564	8.460	7777850	14315538	50.625	51.528	
13)		Dieldrin	7.770	8.611	9670712	14983375	49.270	50.441	
14)		Endrin	7.935	8.841	7708910	11257846	50.457	51.525	
15)		4,4'-DDD	7.986	8.878	6499503	11466499	50.532	51.027	
16)		Endosulfa...	8.092	8.987	7288047	11493514	47.700	48.547	
17)		4,4'-DDT	8.183	9.106	5824163	9100039	54.540	53.936	
18)		Endrin Al...	8.384	9.225	5674743	9436227	47.472	48.071	
19)		Endosulfa...	8.686	9.416	7195661	10961689	50.974	52.597	
20)		Methoxychlor	8.520	9.585	2789794	4280365	52.555	51.870	
21)		Endrin Ke...	8.880	9.821	8447896	11683419	51.051	51.165	
23)		Hexachlor...	3.190f	0.000	5286	0	BelowCal	N.D.	
24)		Hexachlor...	5.752	6.574	14212	6297	BelowCal	0.021	
25)		Oxychlordane	7.243	8.028	41144	14247	0.097	0.056	#
26)		2,4'-DDE	7.308	8.249	8647248	14430791	80.201	75.880	
27)		trans-Non...	7.500	8.307	8733660	62315	48.587	0.221	#
28)		2,4'-DDD	0.000	8.611	0	14983375	N.D.	88.378	#
29)		2,4'-DDT	7.866	8.841	28557	11257846	0.295	73.059	#
30)		cis-Nonac...	7.986f	8.878	6499503	11466499	31.563	35.809	
31)		Mirex	8.634	9.821	51435	11683419	0.182	71.136	#
32)		Chlordane...	7.500	8.207	8733660	59395	170.995	0.639	#
33)		Chlordane...	7.598	8.307f	8514085	62315	130.936	0.800	#
34)		Chlordane...	8.148	8.987	186675	11493514	12.503	571.216	#
35)		Chlordane...	3.777f	0.000	352013	0	NoCal	N.D.	
36)		Toxaphene...	7.598	0.000	8514085	0	3611.585	N.D.	#
37)		Toxaphene...	7.866	8.878f	28557	11466499	6.720	1348.407	#
38)		Toxaphene...	8.183	0.000	5824163	0	668.801	N.D.	#
39)		Toxaphene...	0.000	8.987	0	11493514	N.D.	532.800	#
40)		Toxaphene...	8.634	0.000	51435	0	8.370	N.D.	#
41)		Toxaphene...	8.686f	9.585f	7195661	4280365	884.954	350.718	#
42)		Toxaphene...	3.777f	0.000	352013	0	NoCal	N.D.	

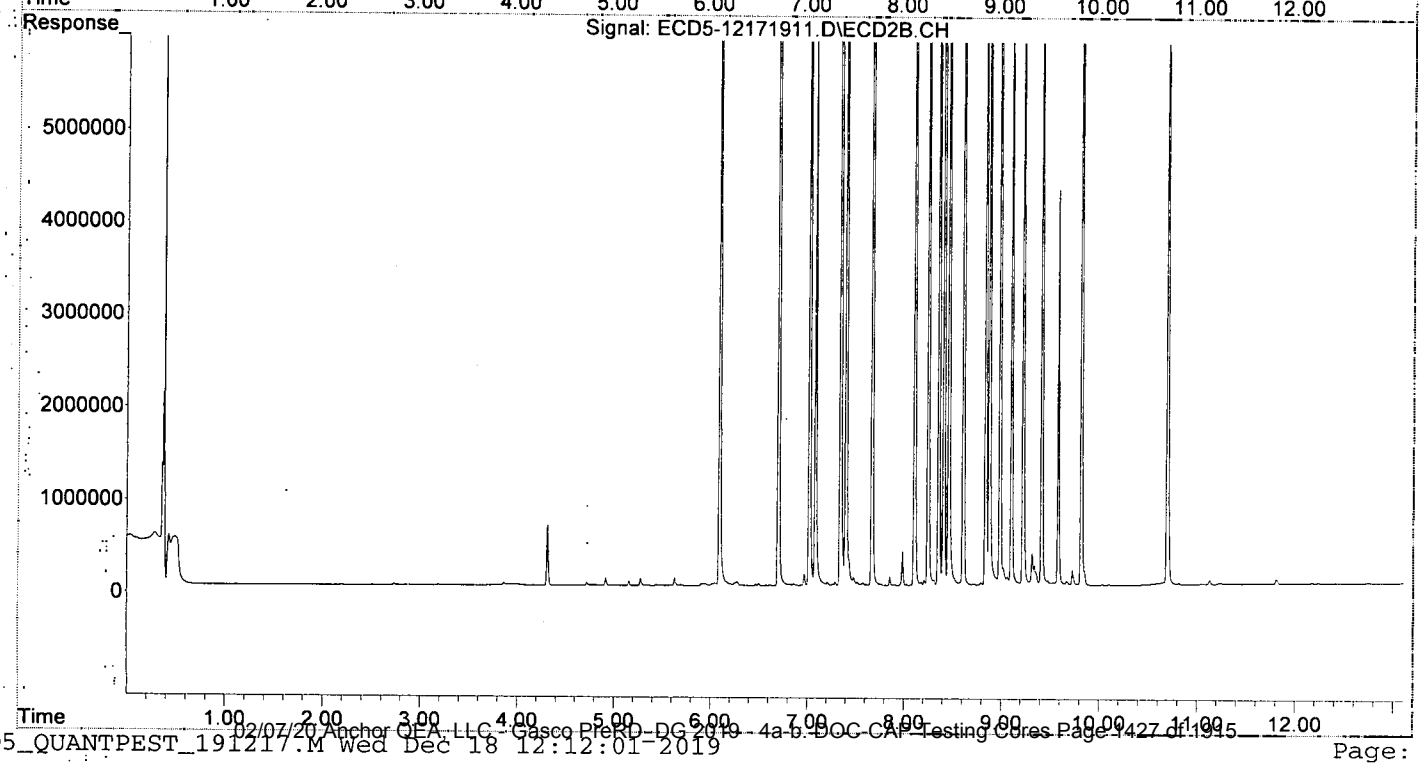
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171911.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:52
Operator : MJB
Sample : 9L17040-CAL7
Misc : A19K133, 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: Dec 17 18:47:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 14:09
Operator : MJB
Sample : 9L17040-CAL8
Misc : A19K134, 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: Dec 17 18:47:25 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

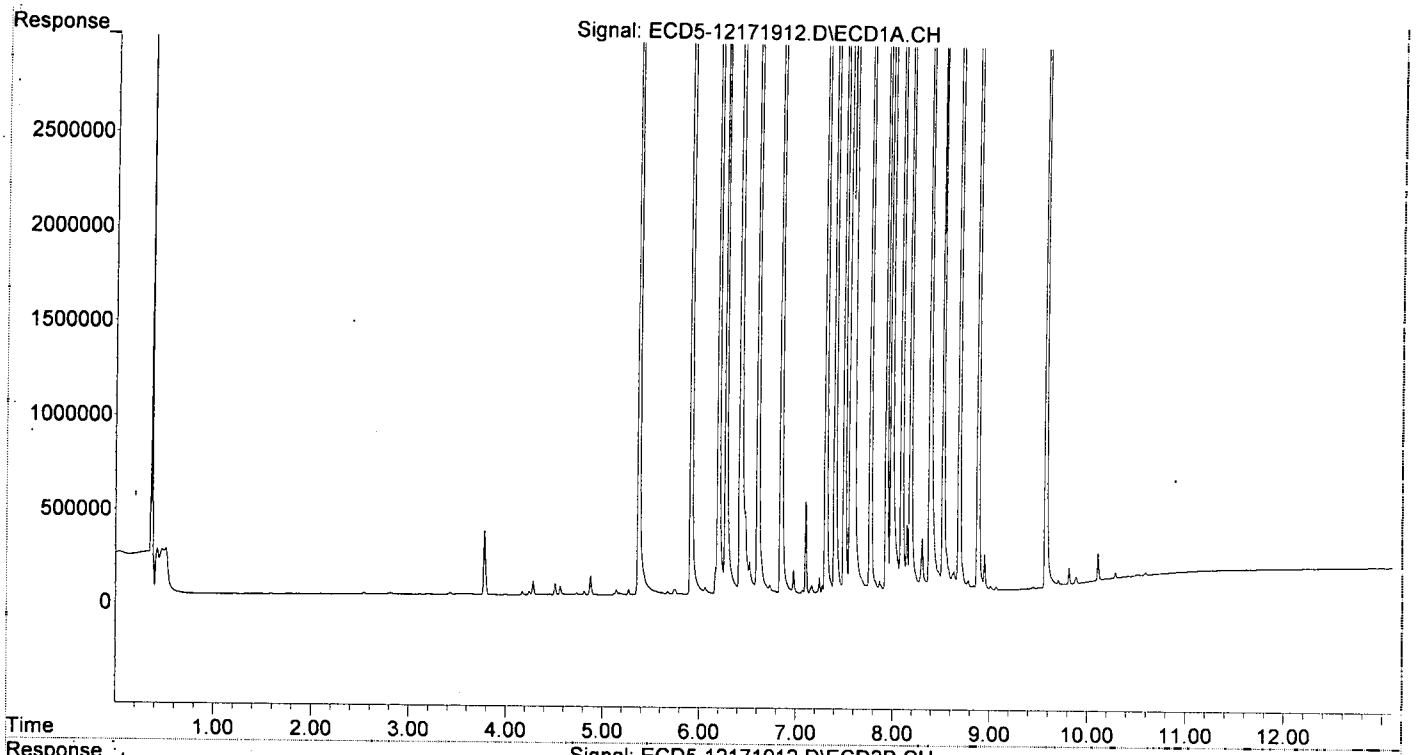
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.373	6.093	17197724	30640622	96.416	103.213	
22)	S DCBP (S)	9.575	10.702	13681671	16518476	100.003	97.008	
	Target Compounds							
2)	a-BHC	5.913	6.702	24524520	44068155	102.158	110.739	
3)	g-BHC	6.196	7.022	21080579	37444172	103.661	110.579	
4)	b-BHC	6.272	7.083	7741430	14145006	109.185	102.069	
5)	Heptachlor	6.604	7.400	19422226	33292648	105.636	111.276	
6)	d-BHC	6.422	7.342	17674060	34770087	105.508	103.222	
7)	Aldrin	6.845	7.669	19724511	33995438	103.873	109.564	
8)	Heptachlo...	7.307	8.108	17929060	30921682	99.792	107.973	
9)	trans-Chl...	7.402	8.248	18532311	31265073	102.792	107.186	
10)	cis-Chlor...	7.499	8.357	18114632	29807216	102.982	106.208	
11)	Endosulfa...	7.597	8.409	17483481	28011777	99.484	106.574	
12)	4,4'-DDE	7.563	8.460	17040817	31400152	110.916	103.760	
13)	Dieldrin	7.769	8.611	19972896	32774728	101.756	110.334	
14)	Endrin	7.935	8.841	15865799	24673444	103.846	103.954	
15)	4,4'-DDD	7.985	8.878	14149556	25324880	102.743	103.684	
16)	Endosulfa...	8.092	8.987	15261241	25263705	99.884	106.711	
17)	4,4'-DDT	8.182	9.106	13032007	20662586	106.720	106.740	
18)	Endrin Al...	8.384	9.225	11868626	19673843	99.287	100.224	
19)	Endosulfa...	8.685	9.416	14994080	23600428	102.613	104.623	
20)	Methoxychlor	8.518	9.584	6044972	9837727	103.548	105.876	
21)	Endrin Ke...	8.879	9.821	17546140	25560662	102.230	102.683	
23)	Hexachlor...	3.190	0.000	4438	0	BelowCal	N.D.	
24)	Hexachlor...	5.751	6.572	26807	7254	BelowCal	0.025	
25)	Oxychlordane	7.242	8.027	81911	31380	0.386	0.124	#
26)	2,4'-DDE	7.307	8.248	17929060	31265073	166.287	164.399	
27)	trans-Non...	7.499	8.306	18114632	113629	100.776	0.403	#
28)	2,4'-DDD	0.000	8.611	0	32774728	N.D.	193.319	#
29)	2,4'-DDT	7.866	8.841	59445	24673444	0.614	140.942	#
30)	cis-Nonac...	7.985f	8.878	14149556	25324880	68.714	79.089	
31)	Mirex	8.633	9.821	102312	25560662	0.615	144.377	#
32)	Chlordane...	7.499	8.206	18114632	105030	354.664	1.131	#
33)	Chlordane...	7.597	8.306f	17483481	113629	268.875	1.458	#
34)	Chlordane...	8.147	8.987	355589	25263705	23.817	1255.580	#
35)	Chlordane...	3.776f	0.000	344618	0	NoCal	N.D.	
36)	Toxaphene...	7.597	8.581f	17483481	79817	7416.309	11.677	#
37)	Toxaphene...	7.866	8.878f	59445	25324880	13.988	2978.088	#
38)	Toxaphene...	8.182	0.000	13032007	0	1496.493	N.D.	#
39)	Toxaphene...	0.000	8.987	0	25263705	N.D.	1171.138	#
40)	Toxaphene...	8.633	0.000	102312	0	16.649	N.D.	#
41)	Toxaphene...	8.685f	9.527f	14994080	58688	1844.038	4.809	#
42)	Toxaphene...	3.776f	0.000	344618	0	NoCal	N.D.	

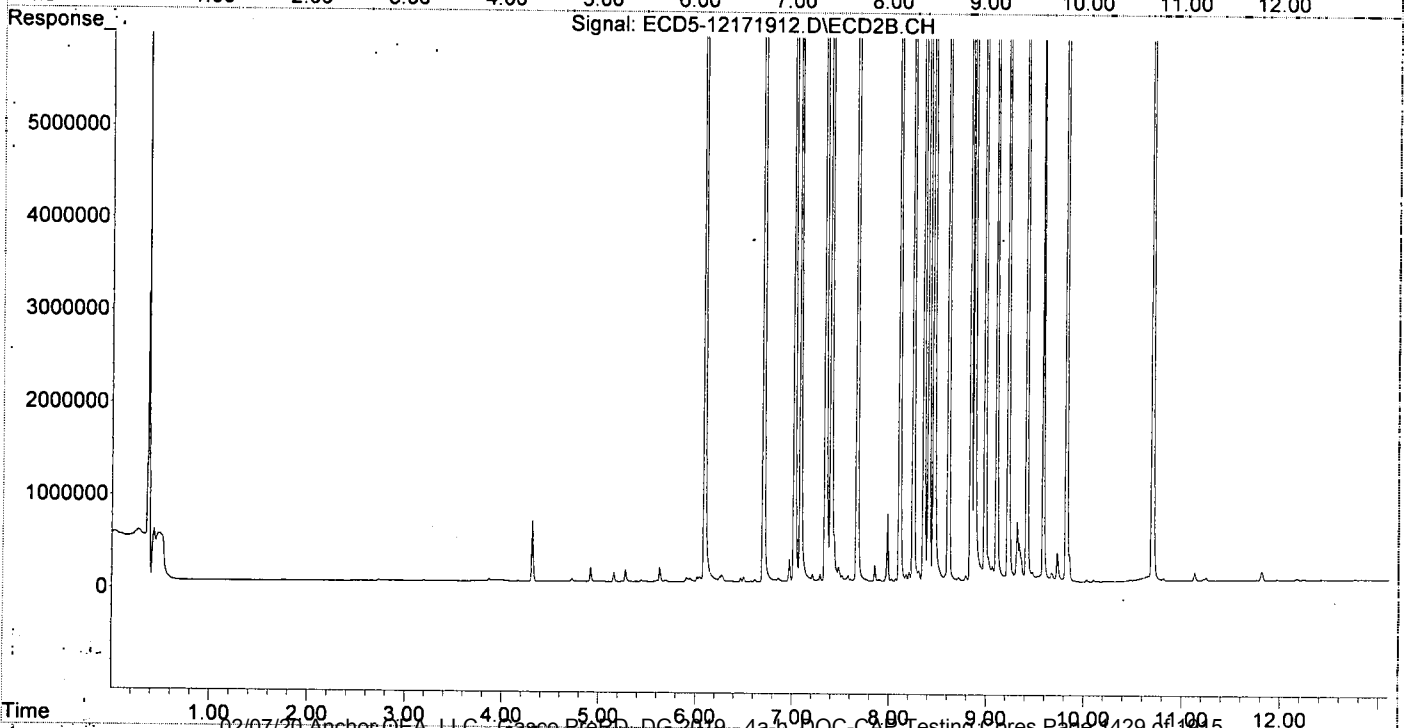
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 14:09
Operator : MJB
Sample : 9L17040-CAL8
Misc : A19K134, 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: Dec 17 18:47:25 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 14:27
Operator : MJB
Sample : 9L17040-CAL9
Misc : A19K126, 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: Dec 17 18:47:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

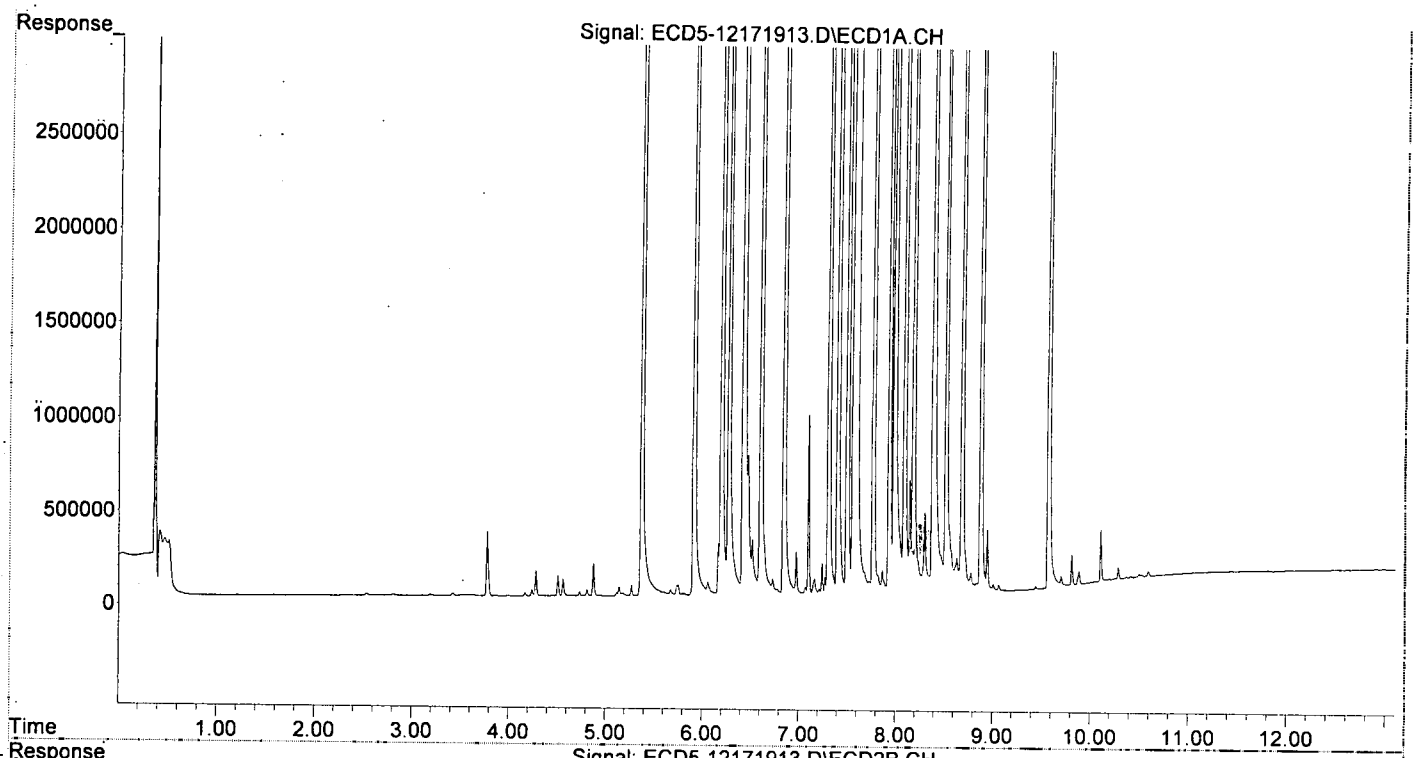
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.373	6.094	35014348	63960499	196.302	215.451	
22)	S DCBP (S)	9.575	10.701	28470025	35889299	201.887	210.766	
	Target Compounds							
2)	a-BHC	5.914	6.703	49497834	90863551	206.186	228.331	
3)	g-BHC	6.196	7.023	41793057	76529101	205.513	226.003	
4)	b-BHC	6.272	7.083	16244340	30004416	229.109	216.509	
5)	Heptachlor	6.605	7.400	39401377	69074079	214.301	230.871	
6)	d-BHC	6.422	7.342	37539585	76239367	194.619	196.361	
7)	Aldrin	6.845	7.669	40156558	70646128	211.473	227.685	
8)	Heptachlo...	7.307	8.109	36145136	65013871	201.182	227.017	
9)	trans-Chl...	7.402	8.249	36829271	65826657	204.279	225.673	
10)	cis-Chlor...	7.499	8.357	36275364	63198125	196.155	225.185	
11)	Endosulfa...	7.597	8.410	34925972	60208314	198.734	229.068	
12)	4,4'-DDE	7.562	8.460	36106803	67790061	235.014	195.672	
13)	Dieldrin	7.769	8.611	40260245	67879313	205.114	228.512	
14)	Endrin	7.934	8.841	32938881	52850159	215.593	195.442	
15)	4,4'-DDD	7.984	8.878	30379139	54696204	196.779	196.078	
16)	Endosulfa...	8.091	8.987	31437910	53656877	205.760	226.639	
17)	4,4'-DDT	8.181	9.106	28241147	45209295	191.900	193.234	
18)	Endrin Al...	8.383	9.225	24094000	43631591	201.559	222.271	
19)	Endosulfa...	8.685	9.416	30580173	49664905	196.459	194.181	
20)	Methoxychlor	8.518	9.584	13324107	21392963	196.089	194.666	
21)	Endrin Ke...	8.879	9.822	36120990	56423545	196.831	196.588	
23)	Hexachlor...	3.189	0.000	5794	0	BelowCal	N.D.	
24)	Hexachlor...	5.751	6.567	53638	9735	0.155	0.033	#
25)	Oxychlordane	7.242	8.026	156812	67918	0.915	0.268	#
26)	2,4'-DDE	7.307	8.249	36145136	65826657	335.237	346.131	
27)	trans-Non...	7.499	8.306	36275364	199461	201.808	0.707	#
28)	2,4'-DDD	0.000	8.611	0	67879313	N.D.	400.381	#
29)	2,4'-DDT	7.865	8.841	114049	52850159	1.179	252.229	#
30)	cis-Nonac...	7.984f	8.878	30379139	54696204	147.528	170.814	
31)	Mirex	8.632	9.822	177637	56423545	1.257	280.235	#
32)	Chlordane...	7.499	8.204	36275364	173403	710.231	1.867	#
33)	Chlordane...	7.597	8.306f	34925972	199461	537.120	2.560	#
34)	Chlordane...	8.181f	8.987	28241147	53656877	1891.571	2666.692	#
35)	Chlordane...	3.776f	0.000	344204	0	NoCal	N.D.	
36)	Toxaphene...	7.597	0.000	34925972	0	14815.230	N.D.	#
37)	Toxaphene...	7.865	8.878f	114049	54696204	26.837	6432.020	#
38)	Toxaphene...	8.181	0.000	28241147	0	3242.990	N.D.	#
39)	Toxaphene...	0.000	8.987	0	53656877	N.D.	2487.348	#
40)	Toxaphene...	8.632	0.000	177637	0	28.907	N.D.	#
41)	Toxaphene...	8.685f	9.525f	30580173	105232	3760.885	8.622	#
42)	Toxaphene...	3.776f	0.000	344204	0	NoCal	N.D.	

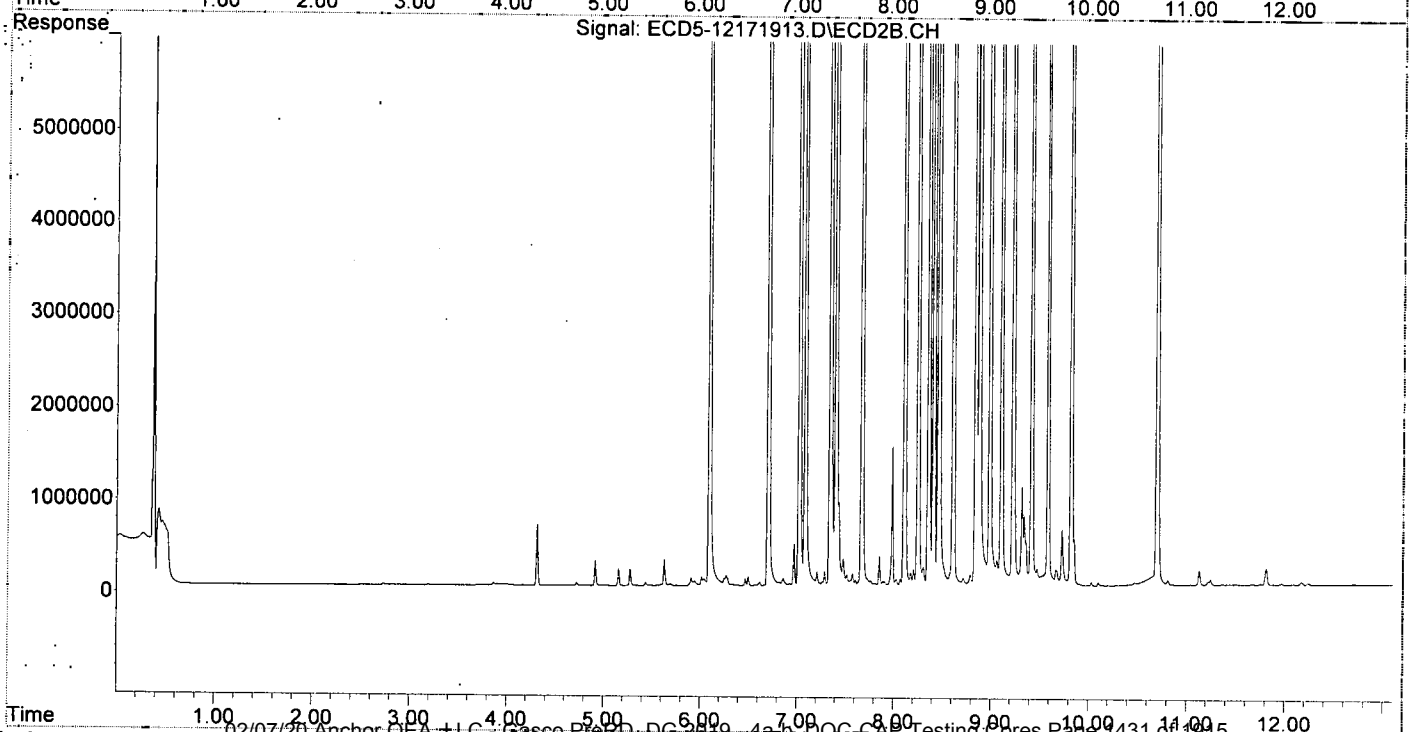
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 14:27
Operator : MJB
Sample : 9L17040-CAL9
Misc : A19K126, 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: Dec 17 18:47:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:18
Operator : MJB
Sample : 9L17040-CALA
Misc : A19L232, 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: Dec 17 18:48:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

WP 12/18/19

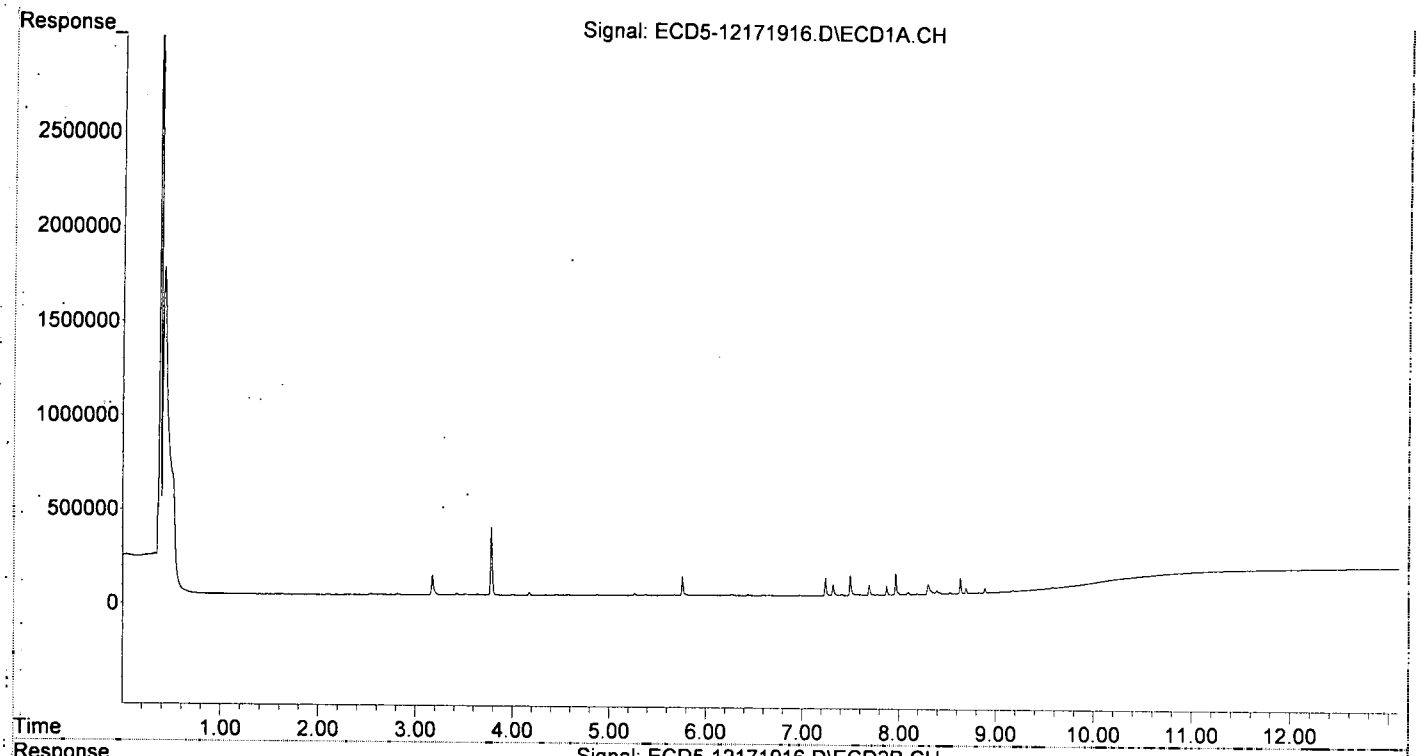
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.374	6.094	6421	17114	0.036	0.058	#
22)	S	DCBP (S)	9.578	10.703	11142	7594	BelowCal	0.045	
		Target Compounds							
2)		a-BHC	5.912	0.000	2780	0	0.012	N.D.	#
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.262	7.087	7092	8247	0.100	0.060	#
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	6.429	7.345	6035	13374	0.009	0.002	#
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	7.316	0.000	60510	0	0.337	N.D.	#
9)		trans-Chl...	7.405	8.241	6686	105594	0.037	0.362	#
10)		cis-Chlor...	7.494	8.358	106883	12127	0.457	0.043	#
11)		Endosulfa...	7.601	0.000	4483	0	0.026	N.D.	#
12)		4,4'-DDE	7.568	8.462	6722	9637	0.044	BelowCal	#
13)		Dieldrin	7.773	8.615	5856	100478	0.030	0.338	#
14)		Endrin	7.964f	8.842	116267	77757	0.761	0.324	#
15)		4,4'-DDD	7.964f	8.882	116267	185621	0.799	0.745	
16)		Endosulfa...	8.095	8.990	13173	17822	0.086	0.075	
17)		4,4'-DDT	8.185	9.107	6024	8963	0.034	0.278	#
18)		Endrin Al...	8.387	9.227	19363	27893	0.162	0.142	
19)		Endosulfa...	8.689	9.418	28252	38584	BelowCal	BelowCal	
20)		Methoxychlor	8.523	9.587	5958	9735	0.189	0.266	#
21)		Endrin Ke...	8.883	9.819	26507	131195	BelowCal	0.426	
23)		Hexachlor...	3.171	3.775	106143	208302	0.494	0.575	
24)		Hexachlor...	5.756	6.563	103857	168053	0.481	0.574	
25)		Oxychlordane	7.238	8.038	95907	146369	0.485	0.579	
26)		2,4'-DDE	7.316	8.241	60510	105594	0.561	0.555	
27)		trans-Non...	7.494	8.313	106883	158141	0.595	0.561	
28)		2,4'-DDD	7.689	8.615	56916	100478	0.579	0.593	
29)		2,4'-DDT	7.870	8.842	50574	77757	0.523	0.499	
30)		cis-Nonac...	7.964	8.882	116267	185621	0.565	0.580	
31)		Mirex	8.631	9.819	85238	131195	0.470	0.495	
32)		Chlordane...	7.494	8.241f	106883	105594	2.093	1.137	#
33)		Chlordane...	7.601	8.313	4483	158141	0.069	2.030	#
34)		Chlordane...	8.149	8.990	2314	17822	0.155	0.886	#
35)		Chlordane...	3.778f	0.000	361003	0	NoCal	N.D.	
36)		Toxaphene...	7.601	0.000	4483	0	1.902	N.D.	#
37)		Toxaphene...	7.870	8.882	50574	185621	11.901	21.828	#
38)		Toxaphene...	8.185	8.967f	6024	7692	0.692	0.587	
39)		Toxaphene...	8.387f	8.990	19363	17822	2.306	0.826	#
40)		Toxaphene...	8.631	0.000	85238	0	13.871	N.D.	#
41)		Toxaphene...	8.689f	9.587f	28252	9735	3.475	0.798	#
42)		Toxaphene...	3.778f	0.000	361003	0	NoCal	N.D.	

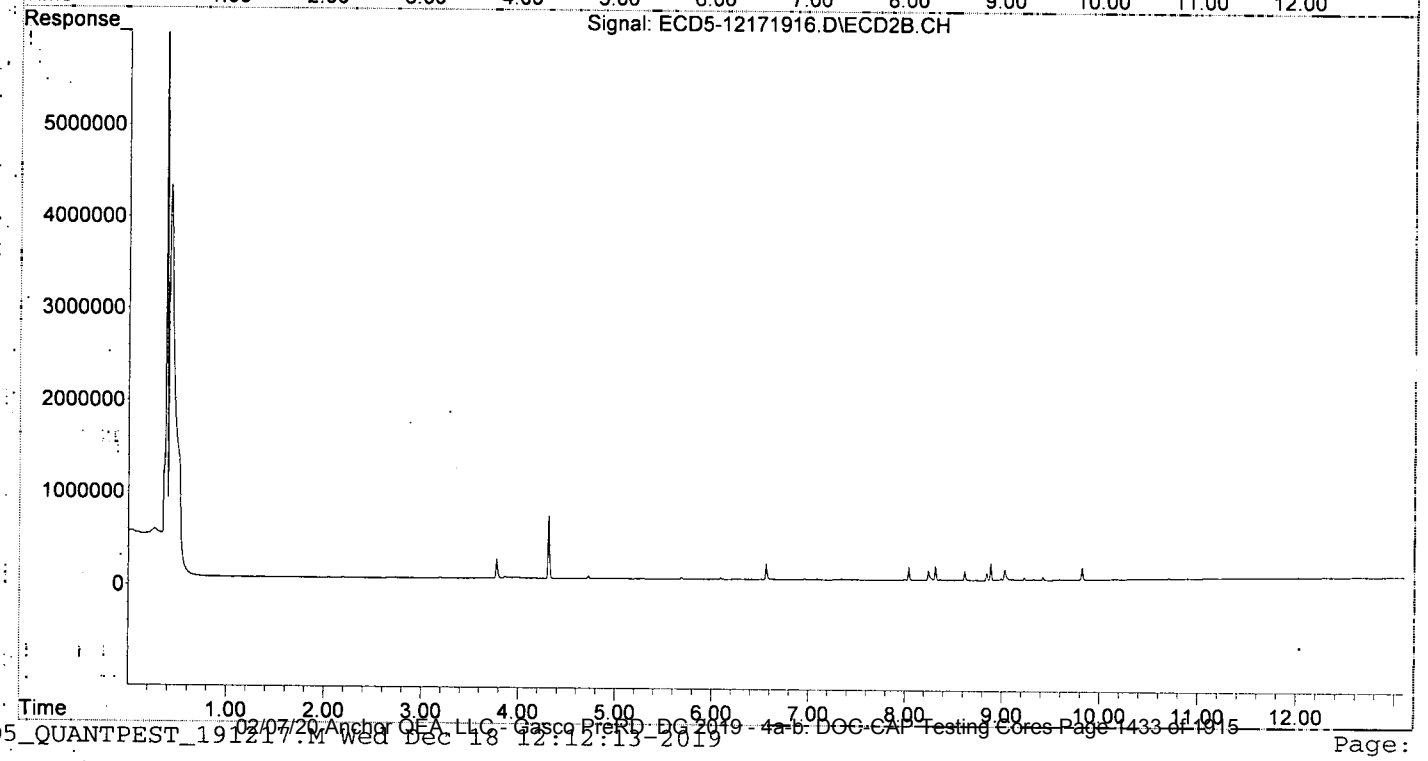
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:18
Operator : MJB
Sample : 9L17040-CALA
Misc : A19L232, 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: Dec 17 18:48:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:35
Operator : MJB
Sample : 9L17040-CALB
Misc : A19K263, 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: Dec 17 18:48:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

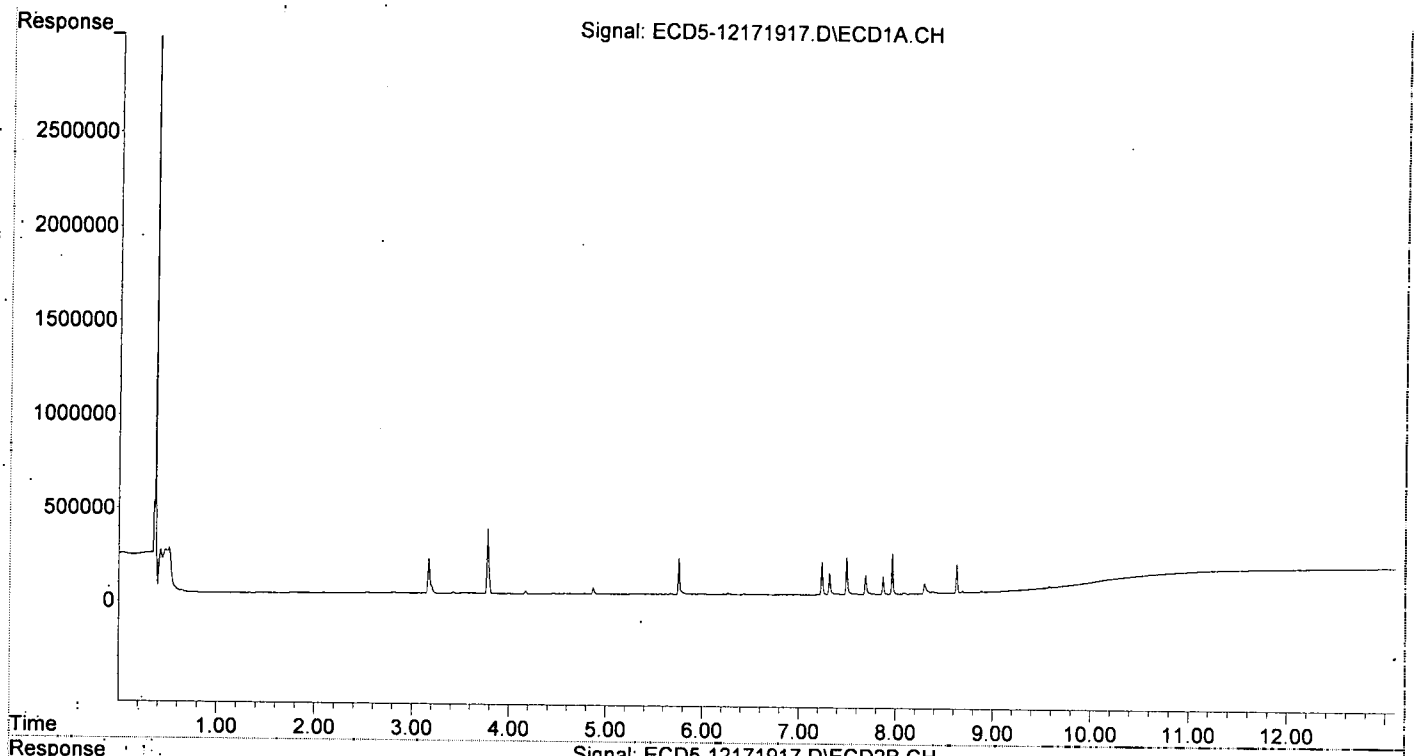
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.094	0	10800	N.D.	0.036	#
22)	S	DCBP (S)	9.576	10.701	7129	8876	BelowCal	0.052	
		Target Compounds							
2)		a-BHC	5.910	0.000	2578	0	0.011	N.D.	#
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.260	7.086	7059	9542	0.100	0.069	
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	6.427	7.343	4622	10334	BelowCal	BelowCal	
7)		Aldrin	0.000	7.674	0	8129	N.D.	0.026	#
8)		Heptachlo...	7.314	0.000	113603	0	0.632	N.D.	#
9)		trans-Chl...	7.401	8.239	6387	195287	0.035	0.670	#
10)		cis-Chlor...	7.492	0.000	198603	0	1.011	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	7.771	8.614	3900	184058	0.020	0.620	#
14)		Endrin	7.963f	8.840	220253	144489	1.442	0.658	#
15)		4,4'-DDD	7.963f	8.881	220253	320665	1.668	1.402	
16)		Endosulfa...	8.081	8.989	6292	6813	0.041	0.029	
17)		4,4'-DDT	8.184	9.104	1483	3256	BelowCal	0.239	
18)		Endrin Al...	8.385	9.225	12130	15433	0.101	0.079	
19)		Endosulfa...	8.687	9.416	11763	15476	BelowCal	BelowCal	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.881	9.816	9126	208028	BelowCal	0.797	
23)		Hexachlor...	3.170	3.774	188124	376994	1.006	1.041	
24)		Hexachlor...	5.755	6.563	192193	316745	1.054	1.081	
25)		Oxychlordane	7.236	8.036	176361	273521	1.053	1.081	
26)		2,4'-DDE	7.314	8.239	113603	195287	1.054	1.027	
27)		trans-Non...	7.492	8.311	198603	294049	1.105	1.042	
28)		2,4'-DDD	7.688	8.614	105189	184058	1.070	1.086	
29)		2,4'-DDT	7.869	8.840	95238	144489	0.984	1.005	
30)		cis-Nonac...	7.963	8.881	220253	320665	1.070	1.001	
31)		Mirex	8.629	9.816	158597	208028	1.095	1.004	
32)		Chlordane...	7.492	8.239	198603	195287	3.888	2.102	#
33)		Chlordane...	0.000	8.311	0	294049	N.D.	3.774	#
34)		Chlordane...	8.147	8.989	1676	6813	0.112	0.339	#
35)		Chlordane...	3.776f	0.000	348175	0	NoCal	N.D.	
36)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
37)		Toxaphene...	7.869	8.881f	95238	320665	22.411	37.709	#
38)		Toxaphene...	8.184	8.965f	1483	7292	0.170	0.557	#
39)		Toxaphene...	8.411	8.989	6423	6813	0.765	0.316	#
40)		Toxaphene...	8.629f	0.000	158597	0	25.809	N.D.	#
41)		Toxaphene...	8.729	0.000	1261	0	0.155	N.D.	#
42)		Toxaphene...	3.776f	0.000	348175	0	NoCal	N.D.	

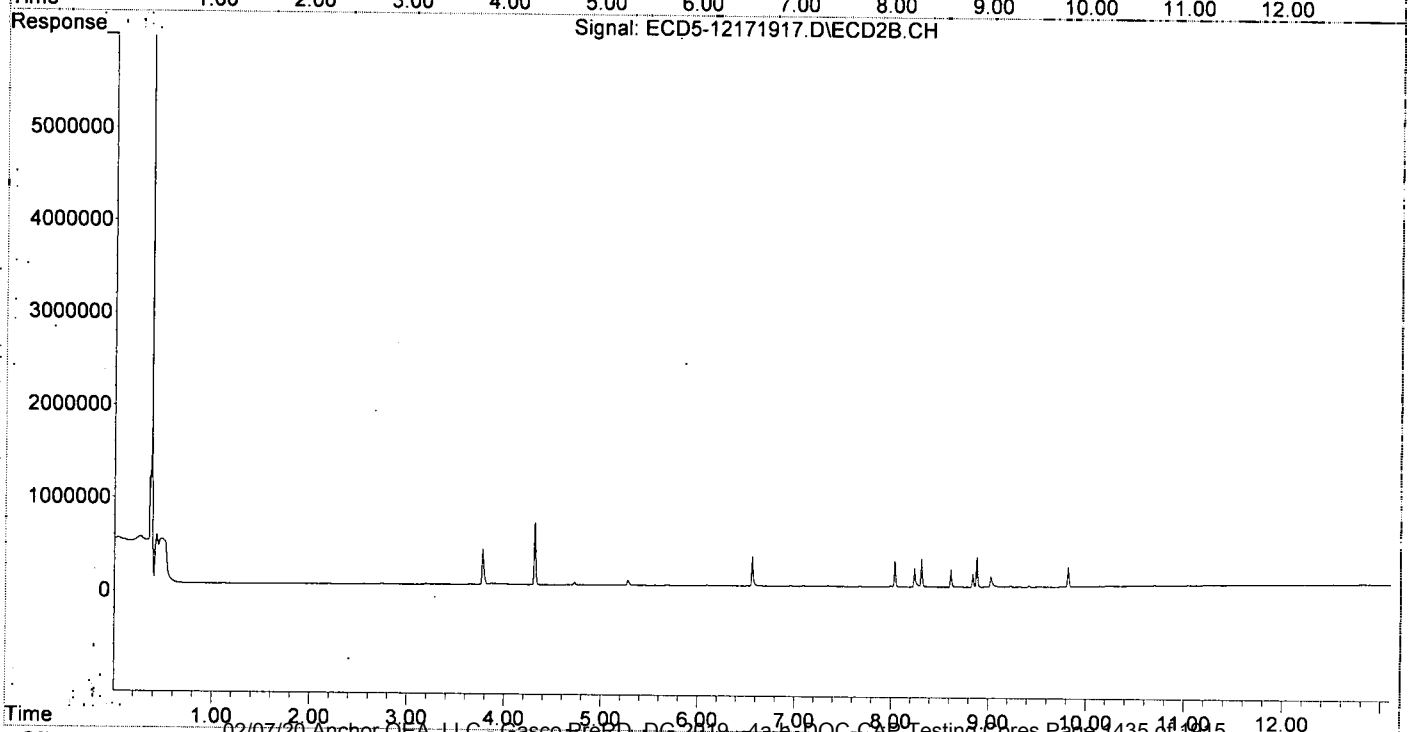
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:35
Operator : MJB
Sample : 9L17040-CALB
Misc : A19K263, 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: Dec 17 18:48:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:53
Operator : MJB
Sample : 9L17040-CALC
Misc : A19K264, 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: Dec 17 18:48:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

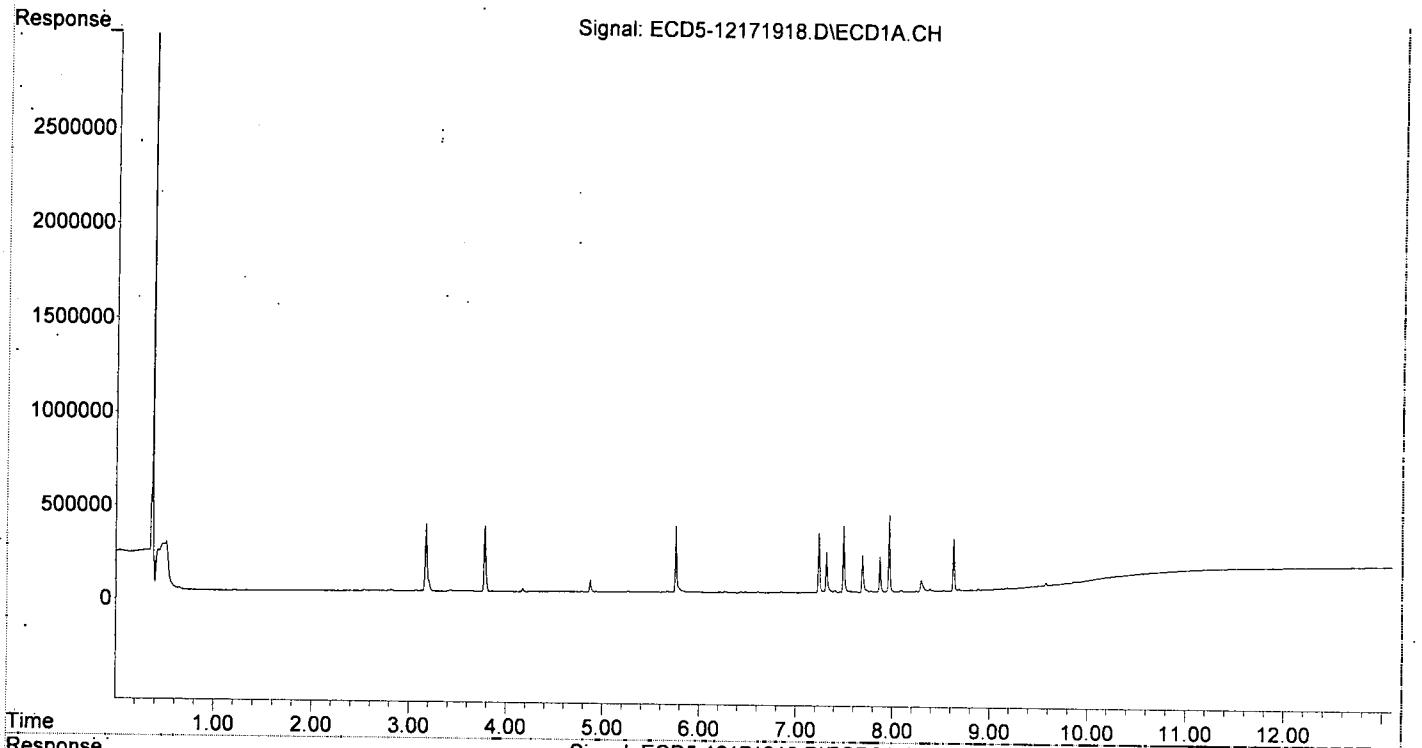
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds									
1)	S	TCMX (S)	0.000	6.094	0	14866	N.D.	0.050	#
22)	S	DCBP (S)	9.575	10.700	21892	19666	BelowCal	0.115	
Target Compounds									
2)		a-BHC	5.911	0.000	5074	0	0.021	N.D.	#
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.259	0.000	7109	0	0.100	N.D.	#
5)		Heptachlor	6.605	7.400	6569	8379	0.036	0.028	
6)		d-BHC	6.427	7.343	4189	9942	BelowCal	BelowCal	
7)		Aldrin	6.846	7.670	5719	14755	0.030	0.048	#
8)		Heptachlo...	7.314	8.107	213313	8066	1.187	0.028	#
9)		trans-Chl...	7.403	8.238	11605	367032	0.064	1.258	#
10)		cis-Chlor...	7.491	8.356	359472	14372	1.982	0.051	#
11)		Endosulfa...	7.598	8.409	5018	7046	0.029	0.027	
12)		4,4'-DDE	7.564	0.000	6130	0	0.040	N.D.	#
13)		Dieldrin	7.772	8.613	8099	332609	0.041	1.120	#
14)		Endrin	7.962f	8.839	411349	278769	2.692	1.329	#
15)		4,4'-DDD	7.962f	8.880	411349	603233	3.260	2.771	
16)		Endosulfa...	8.091	8.988	10259	8193	0.067	0.035	#
17)		4,4'-DDT	8.183	9.104	2465	6255	BelowCal	0.260	
18)		Endrin Al...	8.385	9.225	14602	13837	0.122	0.070	#
19)		Endosulfa...	8.686	9.416	9962	12057	BelowCal	BelowCal	
20)		Methoxychlor	8.524	0.000	4169	0	0.151	N.D.	#
21)		Endrin Ke...	8.881	9.816	8201	367611	BelowCal	1.565	
23)		Hexachlor...	3.170	3.775	362145	727357	2.093	2.008	
24)		Hexachlor...	5.754	6.562	351615	576454	2.085	1.967	
25)		Oxychlordane	7.236	8.036	316566	491168	2.042	1.941	
26)		2,4'-DDE	7.314	8.238	213313	367032	1.978	1.930	
27)		trans-Non...	7.491	8.311	359472	535823	2.000	1.899	
28)		2,4'-DDD	7.687	8.613	193713	332609	1.970	1.962	
29)		2,4'-DDT	7.867	8.839	186867	278769	1.931	2.021	
30)		cis-Nonac...	7.962	8.880	411349	603233	1.998	1.884	
31)		Mirex	8.628	9.816	276752	367611	2.100	2.060	
32)		Chlordane...	7.491	8.238	359472	367032	7.038	3.951	#
33)		Chlordane...	7.598	8.311	5018	535823	0.077	6.877	#
34)		Chlordane...	8.183f	8.988	2465	8193	0.165	0.407	#
35)		Chlordane...	3.776f	0.000	352404	0	NoCal	N.D.	
36)		Toxaphene...	7.598	0.000	5018	0	2.128	N.D.	#
37)		Toxaphene...	7.867	8.880f	186867	603233	43.972	70.937	#
38)		Toxaphene...	8.183	8.964f	2465	6830	0.283	0.521	#
39)		Toxaphene...	0.000	8.988	0	8193	N.D.	0.380	#
40)		Toxaphene...	8.628f	0.000	276752	0	45.036	N.D.	#
41)		Toxaphene...	8.716	0.000	4526	0	0.557	N.D.	#
42)		Toxaphene...	3.776f	0.000	352404	0	NoCal	N.D.	

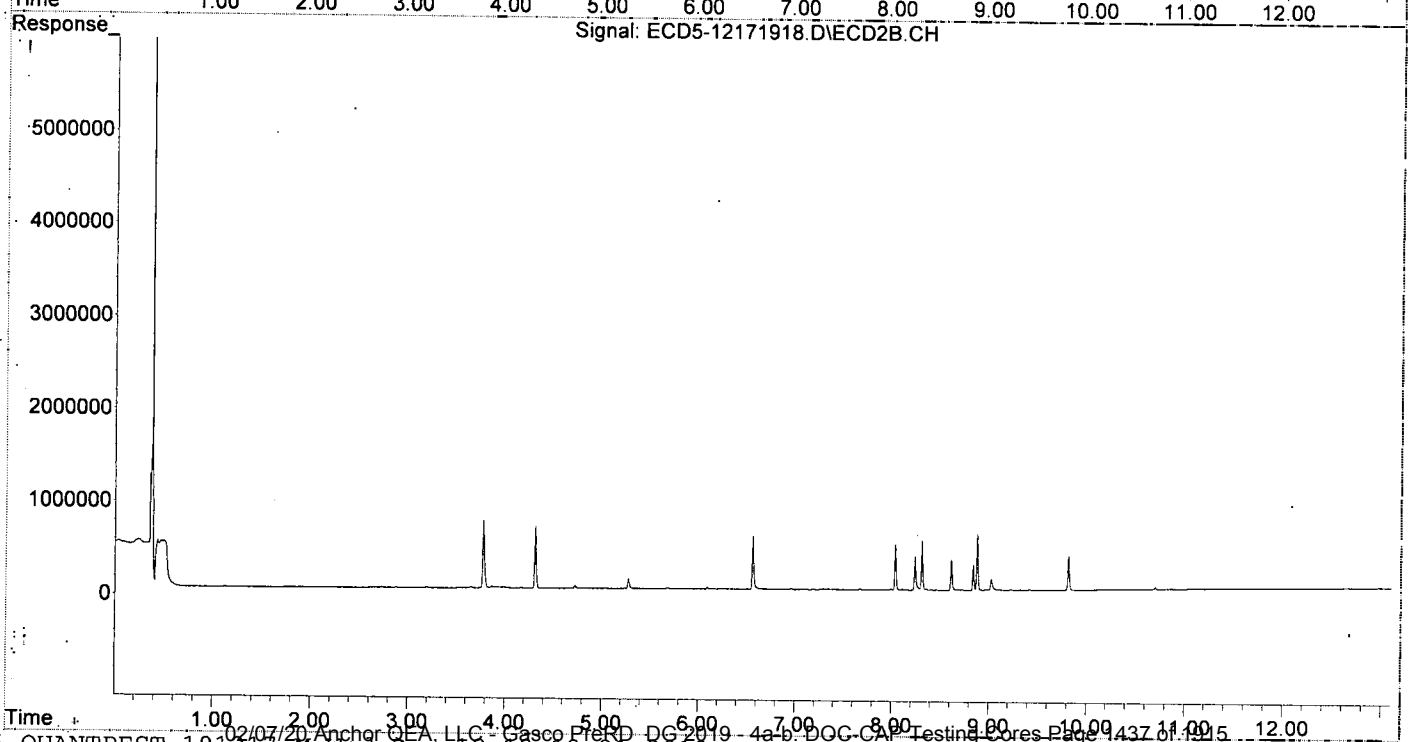
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:53
Operator : MJB
Sample : 9L17040-CALC
Misc : A19K264, 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: Dec 17 18:48:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 16:10
Operator : MJB
Sample : 9L17040-CALD
Misc : A19K265, 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: Dec 17 18:49:13 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

WP 12/18/19

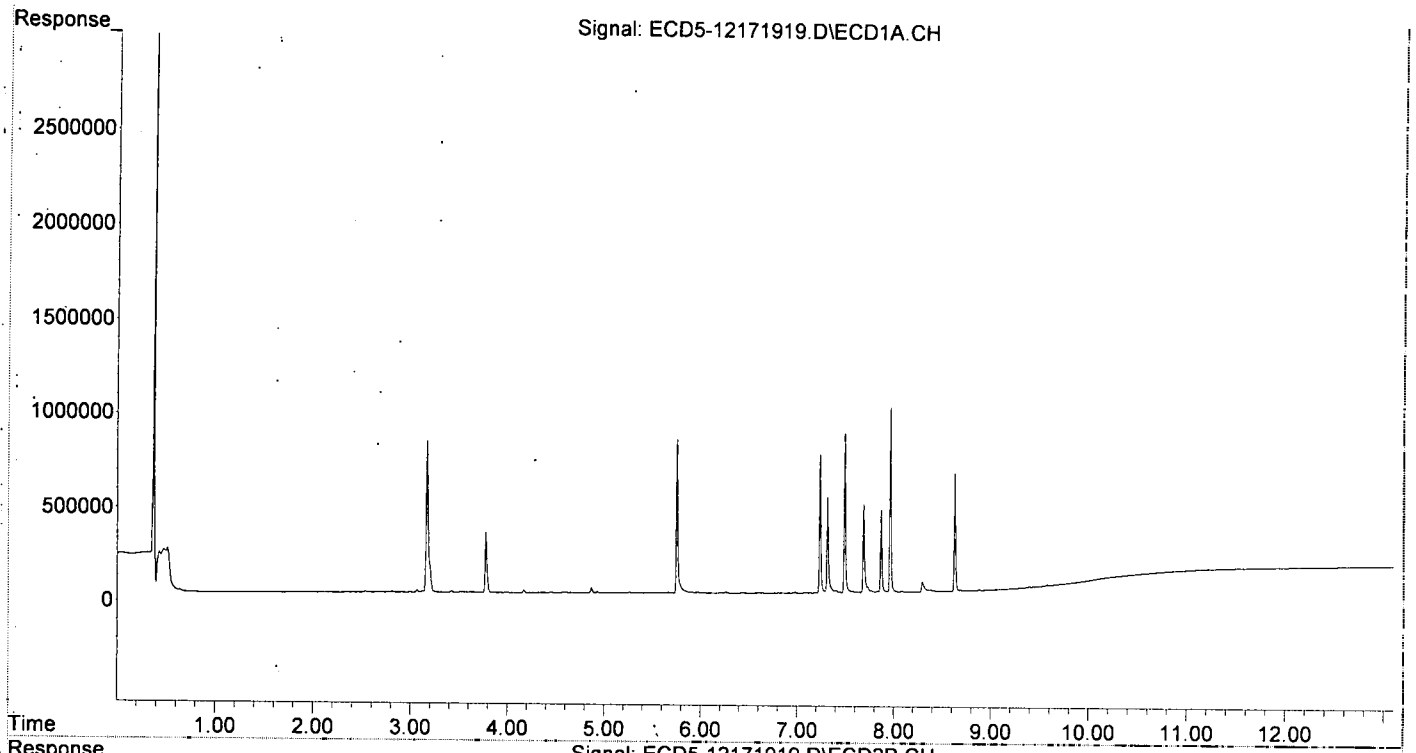
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.092	0	6472	N.D.	0.022	#
22)	S	DCBP (S)	9.575	10.700	6518	6675	BelowCal	0.039	
		Target Compounds							
2)		a-BHC	5.906	0.000	6649	0	0.028	N.D.	#
3)		g-BHC	6.215	0.000	3245	0	0.016	N.D.	#
4)		b-BHC	6.257	0.000	7771	0	0.110	N.D.	#
5)		Heptachlor	6.603	0.000	4427	0	0.024	N.D.	#
6)		d-BHC	6.424	7.341	4162	8572	BelowCal	BelowCal	
7)		Aldrin	0.000	7.672	0	5616	N.D.	0.018	#
8)		Heptachlo...	7.312	8.105	508879	7385	2.832	0.026	#
9)		trans-Chl...	7.400	8.237	12989	879058	0.072	3.014	#
10)		cis-Chlor...	7.490	0.000	840623	0	4.878	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	8.612	0	785110	N.D.	2.643	#
14)		Endrin	7.961f	8.838	980127	659795	6.415	3.222	#
15)		4,4'-DDD	7.961f	8.879	980127	1430117	7.952	6.739	
16)		Endosulfa...	8.076	8.962f	6805	6006	0.045	0.025	#
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.384	9.224	9677	8964	0.081	0.046	#
19)		Endosulfa...	8.685	9.415	8025	9361	BelowCal	BelowCal	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.880	9.815	6180	816726	BelowCal	3.716	
23)		Hexachlor...	3.168	3.773	804572	1627240	4.853	4.493	
24)		Hexachlor...	5.753	6.561	808631	1385505	5.029	4.728	
25)		Oxychlordane	7.234	8.035	735392	1164662	4.987	4.603	
26)		2,4'-DDE	7.312	8.237	508879	879058	4.720	4.622	
27)		trans-Non...	7.490	8.310	840623	1309235	4.677	4.641	
28)		2,4'-DDD	7.686	8.612	469389	785110	4.774	4.631	
29)		2,4'-DDT	7.867	8.838	436892	659795	4.515	4.877	
30)		cis-Nonac...	7.961	8.879	980127	1430117	4.760	4.466	
31)		Mirex	8.628	9.815	627521	816726	5.083	5.017	
32)		Chlordane...	7.490f	8.237	840623	879058	16.458	9.464	#
33)		Chlordane...	0.000	8.310	0	1309235	N.D.	16.802	#
34)		Chlordane...	0.000	8.962f	0	6006	N.D.	0.299	#
35)		Chlordane...	3.775f	0.000	324057	0	NoCal	N.D.	
36)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
37)		Toxaphene...	7.867	8.879f	436892	1430117	102.806	168.175	#
38)		Toxaphene...	0.000	8.962f	0	6006	N.D.	0.459	#
39)		Toxaphene...	0.000	9.023f	0	109739	N.D.	5.087	#
40)		Toxaphene...	8.628f	9.191	627521	6411	102.118	0.532	#
41)		Toxaphene...	8.729	0.000	3770	0	0.464	N.D.	#
42)		Toxaphene...	3.775f	0.000	324057	0	NoCal	N.D.	

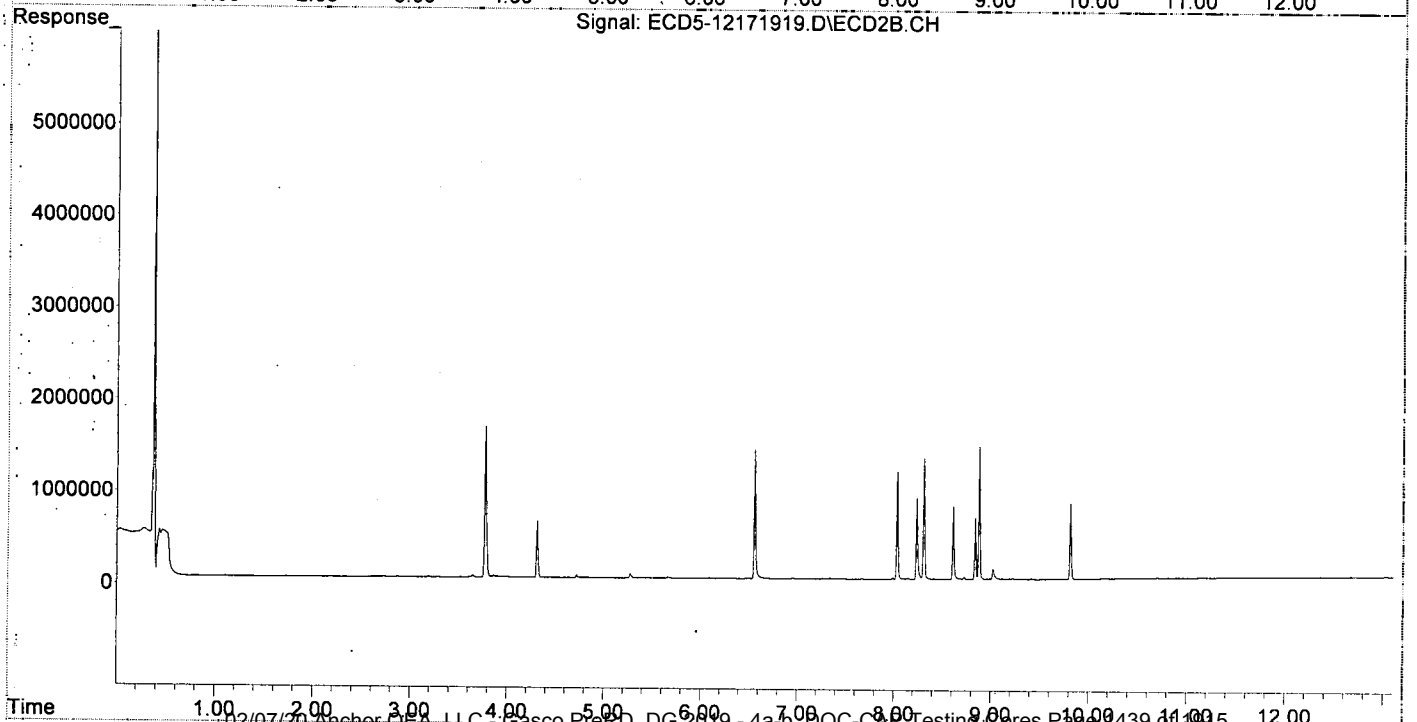
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 16:10
Operator : MJB
Sample : 9L17040-CALD
Misc : A19K265, 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: Dec 17 18:49:13 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 16:27
Operator : MJB
Sample : 9L17040-CALE
Misc : A19K266, 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: Dec 17 18:49:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

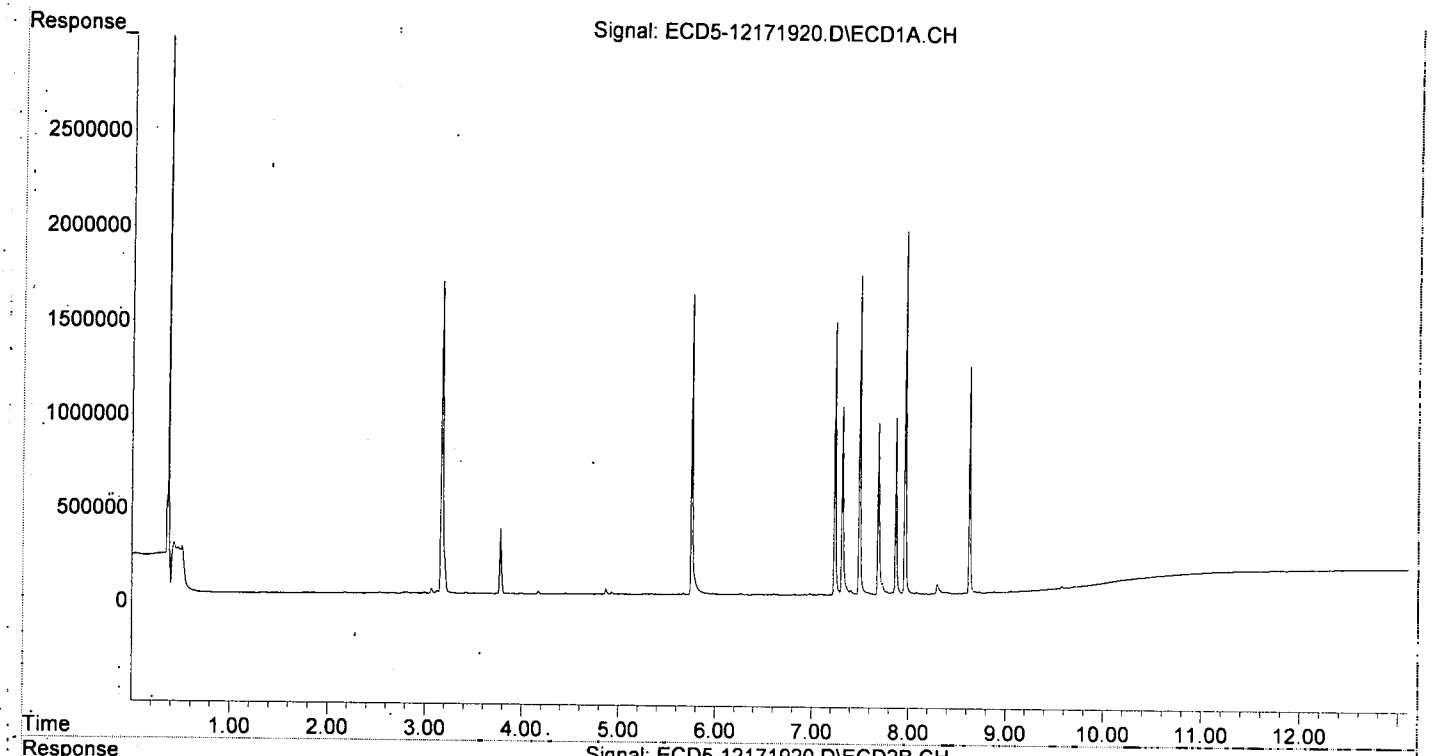
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.345f	6.093	3902	10845	0.022	0.037 #
22)	S DCBP (S)	9.575	10.700	11186	11729	BelowCal	0.069
	Target Compounds						
2)	a-BHC	5.907	0.000	7140	0	0.030	N.D. #
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.
4)	b-BHC	6.259	0.000	7051	0	0.099	N.D. #
5)	Heptachlor	6.604	7.399	4568	6954	0.025	0.023
6)	d-BHC	6.427	7.343	4193	9306	BelowCal	BelowCal
7)	Aldrin	0.000	7.672	0	6060	N.D.	0.020 #
8)	Heptachlo...	7.313	8.105	1007610	12766	5.608	0.045 #
9)	trans-Chl...	7.402	8.238	24460	1768686	0.136	6.064 #
10)	cis-Chlor...	7.491	0.000	1684656	0	9.934	N.D. #
11)	Endosulfa...	0.000	8.415	0	6695	N.D.	0.025 #
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13)	Dieldrin	0.000	8.613	0	1537306	N.D.	5.175 #
14)	Endrin	7.962f	8.839	1943329	1365742	12.720	6.697 #
15)	4,4'-DDD	7.962f	8.881	1943329	2995888	15.756	14.101
16)	Endosulfa...	8.078	9.024f	8557	108930	0.056	0.460 #
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18)	Endrin Al...	8.386	9.224	8747	7950	0.073	0.040 #
19)	Endosulfa...	8.685	9.415	9858	7980	BelowCal	BelowCal
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21)	Endrin Ke...	8.880	9.815	6338	1599749	BelowCal	7.424
23)	Hexachlor...	3.169	3.774	1663824	3458035	10.201	9.547
24)	Hexachlor...	5.754	6.562	1598509	2728461	10.072	9.312
25)	Oxychlordane	7.235	8.036	1457065	2290016	10.030	9.052
26)	2,4'-DDE	7.313	8.238	1007610	1768686	9.345	9.300
27)	trans-Non...	7.491	8.310	1684656	2581619	9.372	9.151
28)	2,4'-DDD	7.686	8.613	924430	1537306	9.402	9.068
29)	2,4'-DDT	7.868	8.839	940746	1365742	9.722	10.071
30)	cis-Nonac...	7.962	8.881	1943329	2995888	9.437	9.356
31)	Mirex	8.628	9.815	1213795	1599749	10.060	10.123
32)	Chlordane...	7.491f	8.238	1684656	1768686	32.984	19.041 #
33)	Chlordane...	0.000	8.310	0	2581619	N.D.	33.131 #
34)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
35)	Chlordane...	3.776f	0.000	347823	0	NoCal	N.D.
36)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
37)	Toxaphene...	7.868	8.881f	940746	2995888	221.369	352.303 #
38)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39)	Toxaphene...	8.411	9.024f	4684	108930	0.558	5.050 #
40)	Toxaphene...	8.628f	0.000	1213795	0	197.523	N.D. #
41)	Toxaphene...	8.729	0.000	6743	0	0.829	N.D. #
42)	Toxaphene...	3.776f	0.000	347823	0	NoCal	N.D.

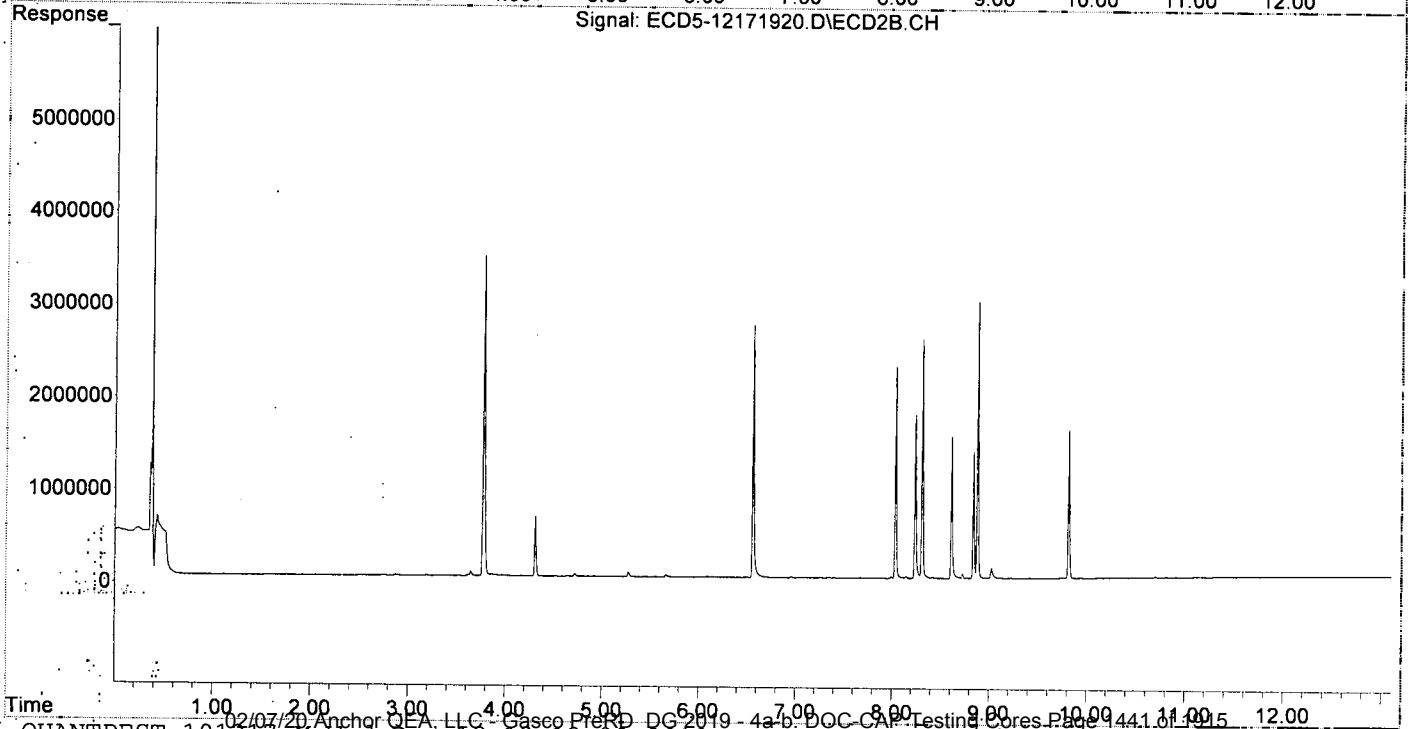
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 16:27
Operator : MJB
Sample : 9L17040-CALE
Misc : A19K266, 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: Dec 17 18:49:26 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 16:44
Operator : MJB
Sample : 9L17040-CALF
Misc : A19J407, 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: Dec 17 18:49:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

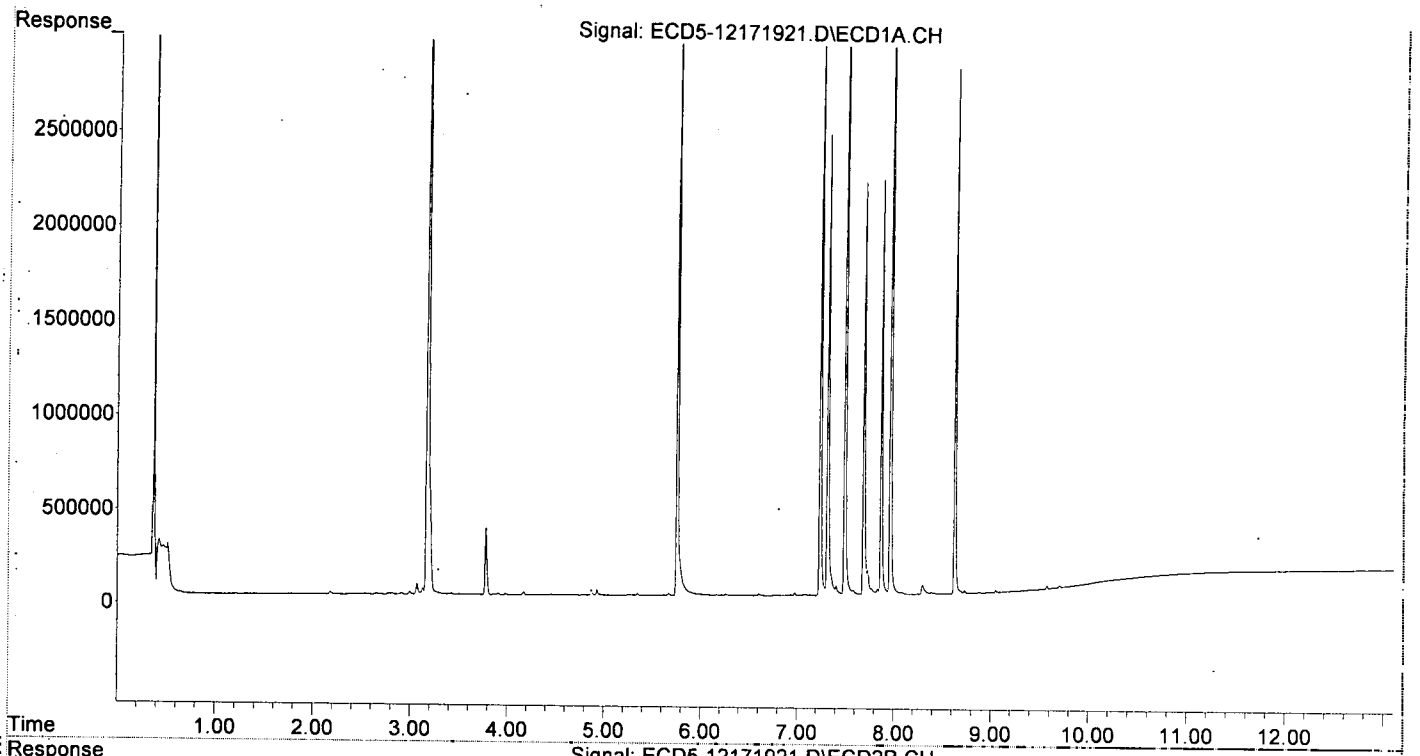
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.346f	6.095	9706	12337	0.054	0.042	
22)	S	DCBP (S)	9.576	10.700	20084	18599	BelowCal	0.109	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.259	0.000	6992	0	0.099	N.D.	#
5)		Heptachlor	6.604	7.399	8310	13981	0.045	0.047	
6)		d-BHC	6.387f	7.343	2717	7263	BelowCal	BelowCal	
7)		Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)		Heptachlo...	7.313	8.105	2457675	26110	13.679	0.091	#
9)		trans-Chl...	7.402	8.238	51408	4303889	0.285	14.755	#
10)		cis-Chlor...	7.491	0.000	4026377	0	23.809	N.D.	#
11)		Endosulfa...	7.578	8.416	25586	27132	0.146	0.103	
12)		4,4'-DDE	7.578	0.000	25586	0	0.167	N.D.	#
13)		Dieldrin	0.000	8.613	0	3784610	N.D.	12.741	#
14)		Endrin	7.962f	8.839	4695232	3405822	30.731	16.505	#
15)		4,4'-DDD	7.962f	8.880	4695232	7295470	37.150	33.404	
16)		Endosulfa...	8.078	9.024f	11723	111041	0.077	0.469	#
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.389	0.000	9170	0	0.077	N.D.	#
19)		Endosulfa...	0.000	9.416	0	5938	N.D.	BelowCal	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.880	9.816	4869	3813757	BelowCal	17.634	
23)		Hexachlor...	3.170	3.774	3900387	8207671	24.038	22.661	
24)		Hexachlor...	5.754	6.562	3887152	6751641	24.376	23.042	
25)		Oxychlordane	7.236	8.036	3515520	5691806	24.196	22.498	
26)		2,4'-DDE	7.313	8.238	2457675	4303889	22.794	22.631	
27)		trans-Non...	7.491	8.311	4026377	6464264	22.400	22.913	
28)		2,4'-DDD	7.686	8.613	2201661	3784610	22.392	22.323	
29)		2,4'-DDT	7.867	8.839	2187224	3405822	22.605	24.441	
30)		cis-Nonac...	7.962	8.880	4695232	7295470	22.801	22.783	
31)		Mirex	8.628	9.816	2800811	3813757	23.481	24.241	
32)		Chlordane...	7.491f	8.209	4026377	12355	78.832	0.133	#
33)		Chlordane...	7.578f	8.311	25586	6464264	0.393	82.959	#
34)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
35)		Chlordane...	3.777f	0.000	360046	0	NoCal	N.D.	
36)		Toxaphene...	7.578	0.000	25586	0	10.853	N.D.	#
37)		Toxaphene...	7.867	8.880f	2187224	7295470	514.681	857.913	#
38)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)		Toxaphene...	8.389f	9.024f	9170	111041	1.092	5.147	#
40)		Toxaphene...	8.628f	0.000	2800811	0	455.781	N.D.	#
41)		Toxaphene...	8.730	0.000	15502	0	1.907	N.D.	#
42)		Toxaphene...	3.777f	0.000	360046	0	NoCal	N.D.	

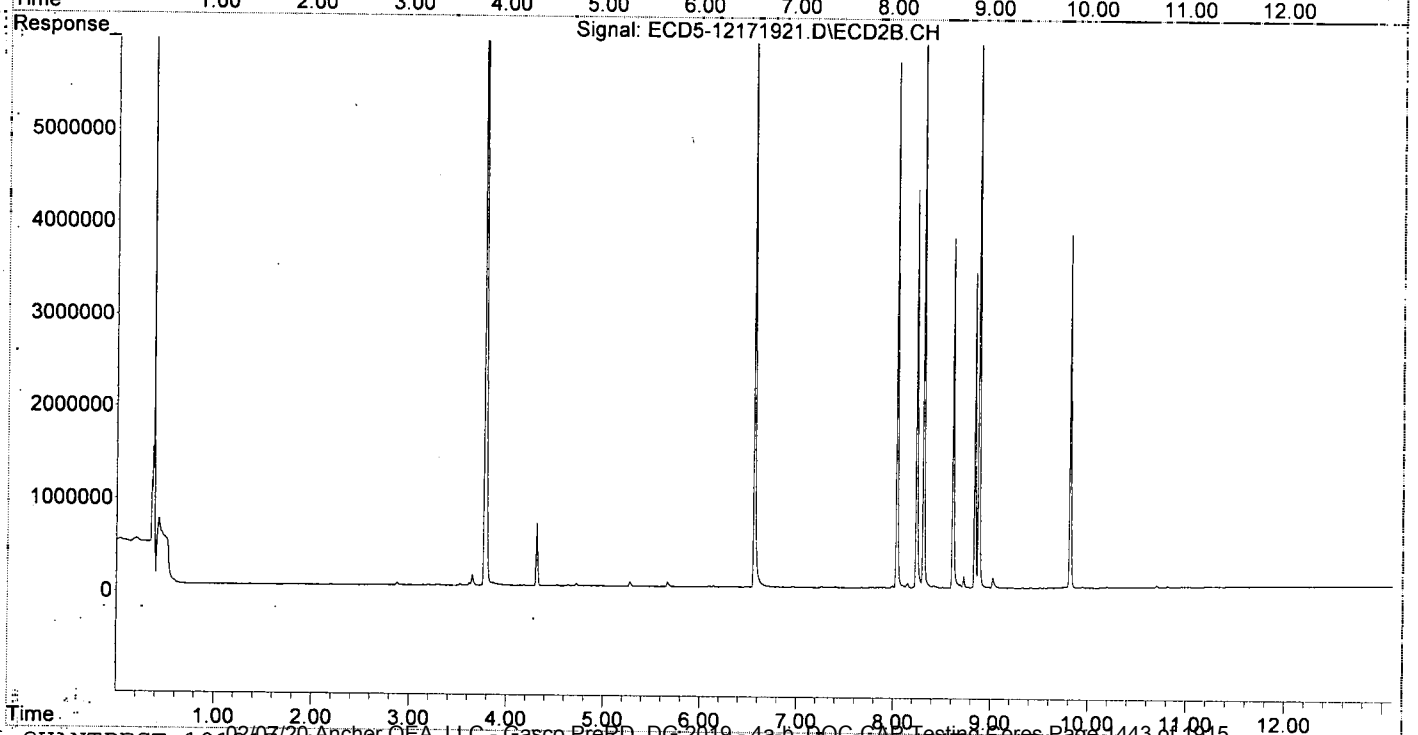
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 16:44
Operator : MJB
Sample : 9L17040-CALF
Misc : A19J407, 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: Dec 17 18:49:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:01
Operator : MJB
Sample : 9L17040-CALG
Misc : A19J408, 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: Dec 17 18:49:56 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

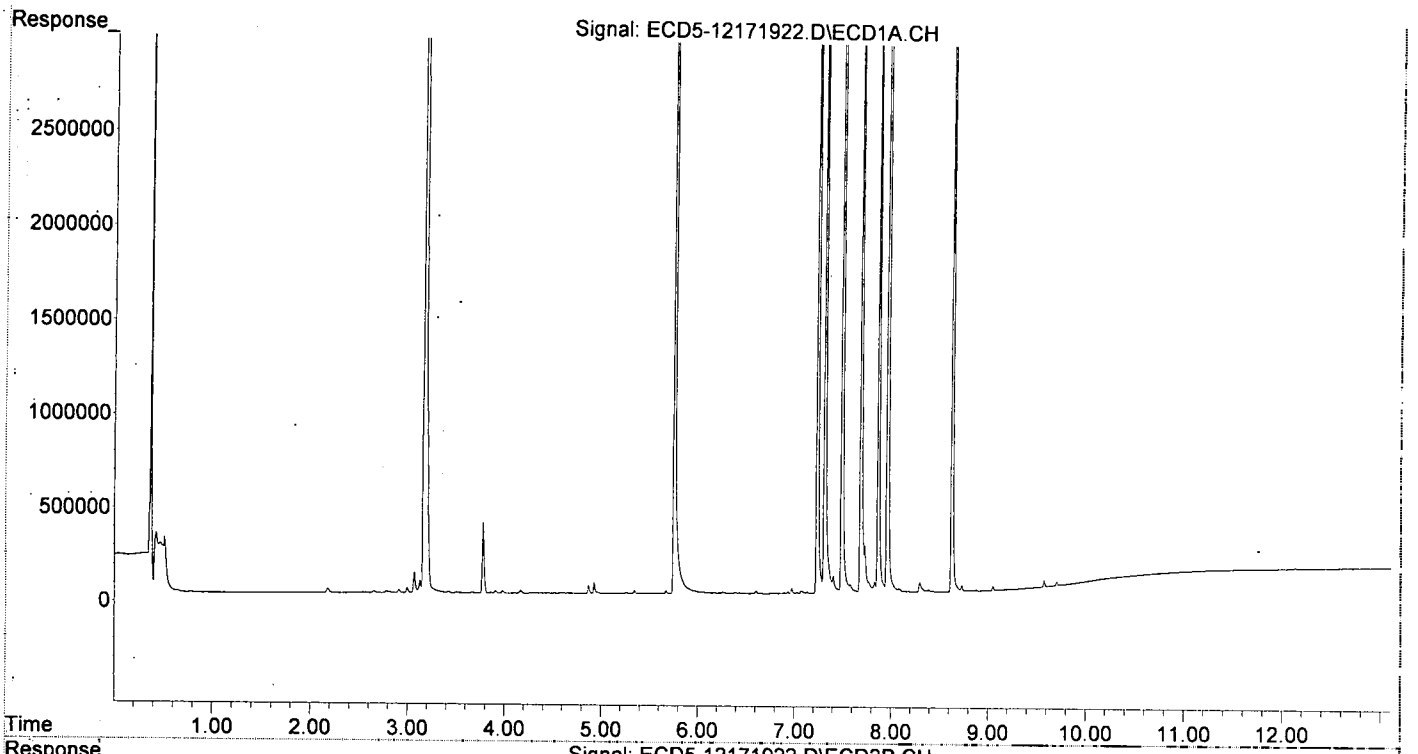
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.345f	6.094	18806	11539	0.105	0.039	#
22)	S	DCBP (S)	9.575	10.700	34950	38068	0.050	0.224	#
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.168f	0.000	8378	0	0.041	N.D.	#
4)		b-BHC	6.258	0.000	9410	0	0.133	N.D.	#
5)		Heptachlor	6.604	7.399	14522	24015	0.079	0.080	
6)		d-BHC	6.426	7.342	4141	9061	BelowCal	BelowCal	
7)		Aldrin	6.811f	7.671	3134	7149	0.017	0.023	
8)		Heptachlo...	7.312	8.105	5201688	48106	28.952	0.168	#
9)		trans-Chl...	7.402	8.238	88828	9346495	0.493	32.043	#
10)		cis-Chlor...	7.490	0.000	8501896	0	49.724	N.D.	#
11)		Endosulfa...	0.000	8.415	0	47975	N.D.	0.183	#
12)		4,4'-DDE	0.000	8.435f	0	28895	N.D.	0.058	#
13)		Dieldrin	0.000	8.613	0	7925871	N.D.	26.682	#
14)		Endrin	7.961f	8.839	9880544	7477383	64.671	35.157	#
15)		4,4'-DDD	7.961f	8.880	9880544	15889642	74.430	68.720	
16)		Endosulfa...	0.000	9.025f	0	106078	N.D.	0.448	#
17)		4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)		Endrin Al...	8.389	0.000	9624	0	0.081	N.D.	#
19)		Endosulfa...	0.000	9.416	0	5764	N.D.	BelowCal	
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.879	9.816	5566	7933700	BelowCal	35.674	
23)		Hexachlor...	3.171	3.775	8366040	17783921	51.321	49.101	
24)		Hexachlor...	5.754	6.562	7985720	14137495	48.952	48.248	
25)		Oxychlordane	7.235	8.036	7401813	12341948	50.120	48.783	
26)		2,4'-DDE	7.312	8.238	5201688	9346495	48.244	49.146	
27)		trans-Non...	7.490	8.311	8501896	13706575	47.298	48.583	
28)		2,4'-DDD	7.685	8.613	4566109	7925871	46.439	46.750	
29)		2,4'-DDT	7.867	8.839	4703486	7477383	48.610	50.778	
30)		cis-Nonac...	7.961	8.880	9880544	15889642	47.982	49.623	
31)		Mirex	8.627	9.816	5720531	7933700	47.983	49.379	
32)		Chlordane...	7.490f	8.208	8501896	23892	166.458	0.257	#
33)		Chlordane...	0.000	8.311	0	13706575	N.D.	175.904	#
34)		Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
35)		Chlordane...	3.776f	0.000	377604	0	NoCal	N.D.	
36)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
37)		Toxaphene...	7.867	8.880f	4703486	15889642	1106.789	1868.548	#
38)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
39)		Toxaphene...	8.389f	9.025f	9624	106078	1.146	4.917	#
40)		Toxaphene...	8.627f	0.000	5720531	0	930.912	N.D.	#
41)		Toxaphene...	8.729	0.000	31481	0	3.872	N.D.	#
42)		Toxaphene...	3.776f	0.000	377604	0	NoCal	N.D.	

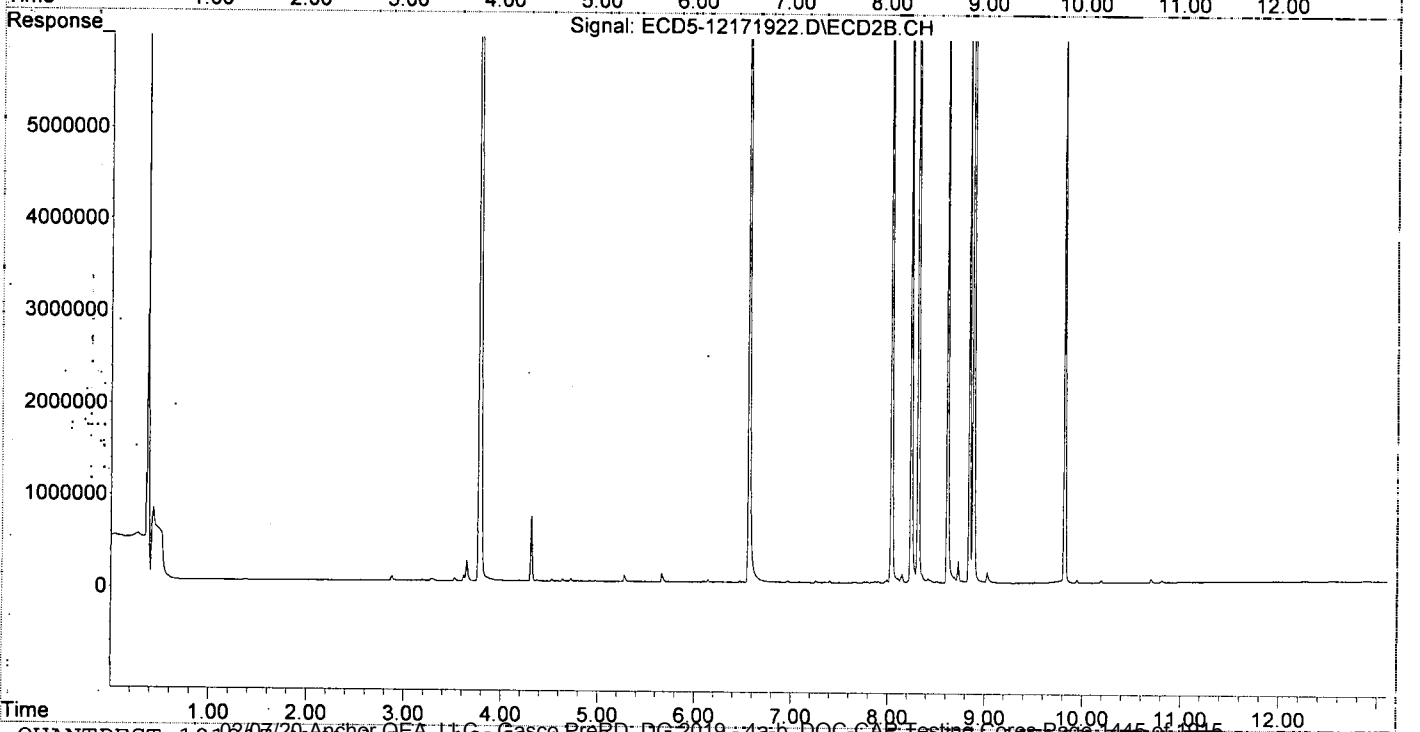
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:01
Operator : MJB
Sample : 9L17040-CALG
Misc : A19J408, 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: Dec 17 18:49:56 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:19
Operator : MJB
Sample : 9L17040-CALH
Misc : A19J409, 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: Dec 17 18:50:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

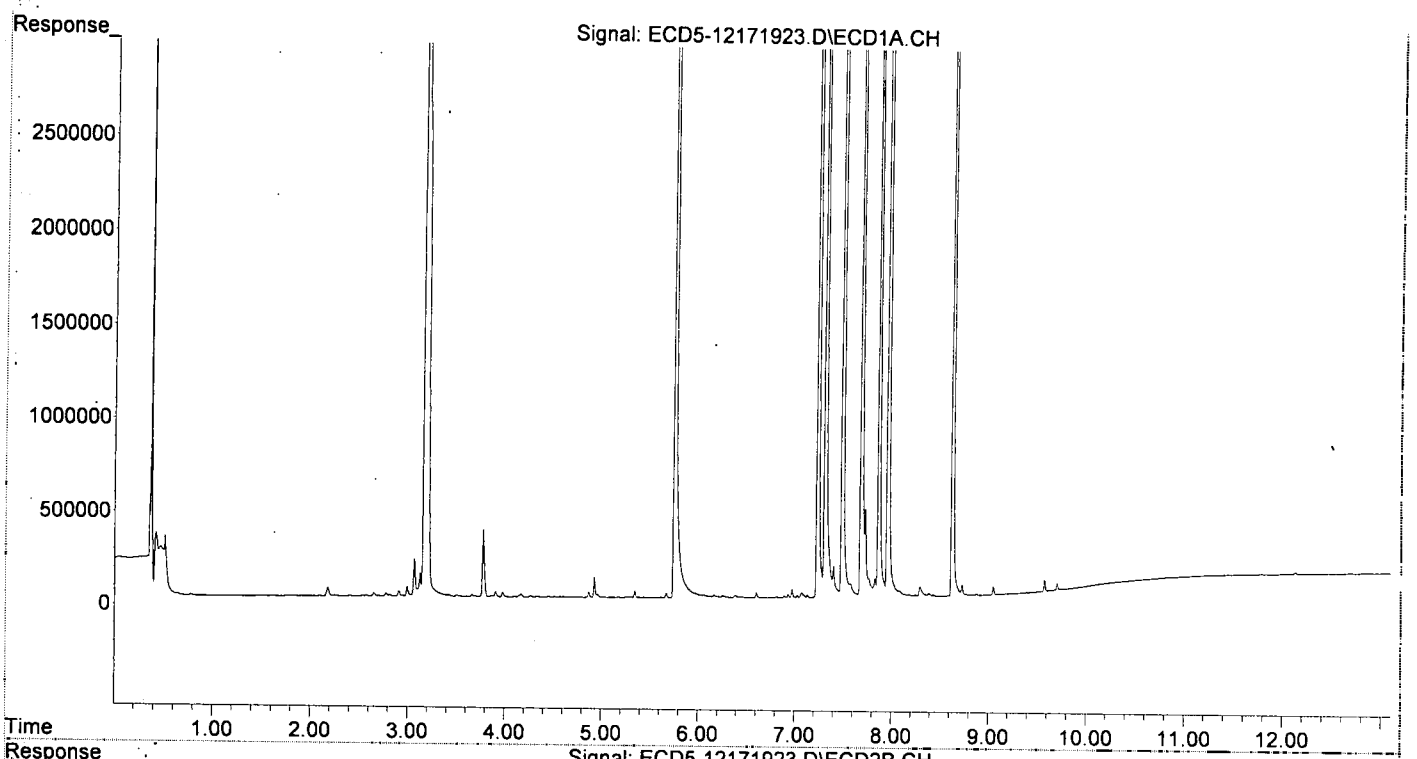
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.345f	6.094	34274	10650	0.192	0.036	#
22)	S DCBP (S)	9.575	10.700	64299	72064	0.272	0.423	#
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.168f	0.000	14939	0	0.073	N.D.	#
4)	b-BHC	6.257	7.084	11825	8725	0.167	0.063	#
5)	Heptachlor	6.604	7.399	26788	41536	0.146	0.139	
6)	d-BHC	6.425	7.343	6120	10481	0.010	BelowCal	#
7)	Aldrin	6.811f	7.671	4873	10724	0.026	0.035	
8)	Heptachlo...	7.311	8.105	10553066	86251	58.738	0.301	#
9)	trans-Chl...	7.401	8.238	167404	19561378	0.929	67.062	#
10)	cis-Chlor...	7.490	0.000	17126798	0	97.649	N.D.	#
11)	Endosulfa...	7.577f	8.415	71990	75279	0.410	0.286	
12)	4,4'-DDE	7.577	8.436f	71990	47595	0.469	0.132	#
13)	Dieldrin	0.000	8.613	0	16992333	N.D.	57.204	#
14)	Endrin	7.961f	8.839	20224945	16560044	132.377	73.189	#
15)	4,4'-DDD	7.961f	8.881	20224945	32661605	140.131	128.767	
16)	Endosulfa...	0.000	8.987	0	21827	N.D.	0.092	#
17)	4,4'-DDT	8.182	0.000	11136	0	0.090	N.D.	#
18)	Endrin Al...	8.390	9.225	16390	7331	0.137	0.037	#
19)	Endosulfa...	0.000	9.416	0	6124	N.D.	BelowCal	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.879	9.816	7366	16894705	BelowCal	71.471	
23)	Hexachlor...	3.170	3.775	15973831	35353095	96.801	97.608	
24)	Hexachlor...	5.754	6.562	16223404	30123096	94.958	102.802	
25)	Oxychlordane	7.235	8.037	14864709	25663810	97.269	101.439	
26)	2,4'-DDE	7.311	8.238	10553066	19561378	97.877	102.858	
27)	trans-Non...	7.490	8.311	17126798	29592633	95.280	104.892	
28)	2,4'-DDD	7.685	8.613	9588674	16992333	97.521	100.228	
29)	2,4'-DDT	7.867	8.839	10139870	16560044	104.794	101.651	
30)	cis-Nonac...	7.961	8.881	20224945	32661605	98.217	102.001	
31)	Mirex	8.628	9.816	11521461	16894705	95.954	99.856	
32)	Chlordane...	7.490f	8.208	17126798	43854	335.324	0.472	#
33)	Chlordane...	7.577f	8.311	71990	29592633	1.107	379.778	#
34)	Chlordane...	8.182f	8.987	11136	21827	0.746	1.085	#
35)	Chlordane...	3.776f	0.000	363270	0	NoCal	N.D.	
36)	Toxaphene...	7.577	0.000	71990	0	30.538	N.D.	#
37)	Toxaphene...	7.867	8.881f	10139870	32661605	2386.039	3840.853	#
38)	Toxaphene...	8.182	0.000	11136	0	1.279	N.D.	#
39)	Toxaphene...	8.432	8.987	6835	21827	0.814	1.012	
40)	Toxaphene...	8.628f	0.000	11521461	0	1874.908	N.D.	#
41)	Toxaphene...	8.729	0.000	56775	0	6.982	N.D.	#
42)	Toxaphene...	3.776f	0.000	363270	0	NoCal	N.D.	

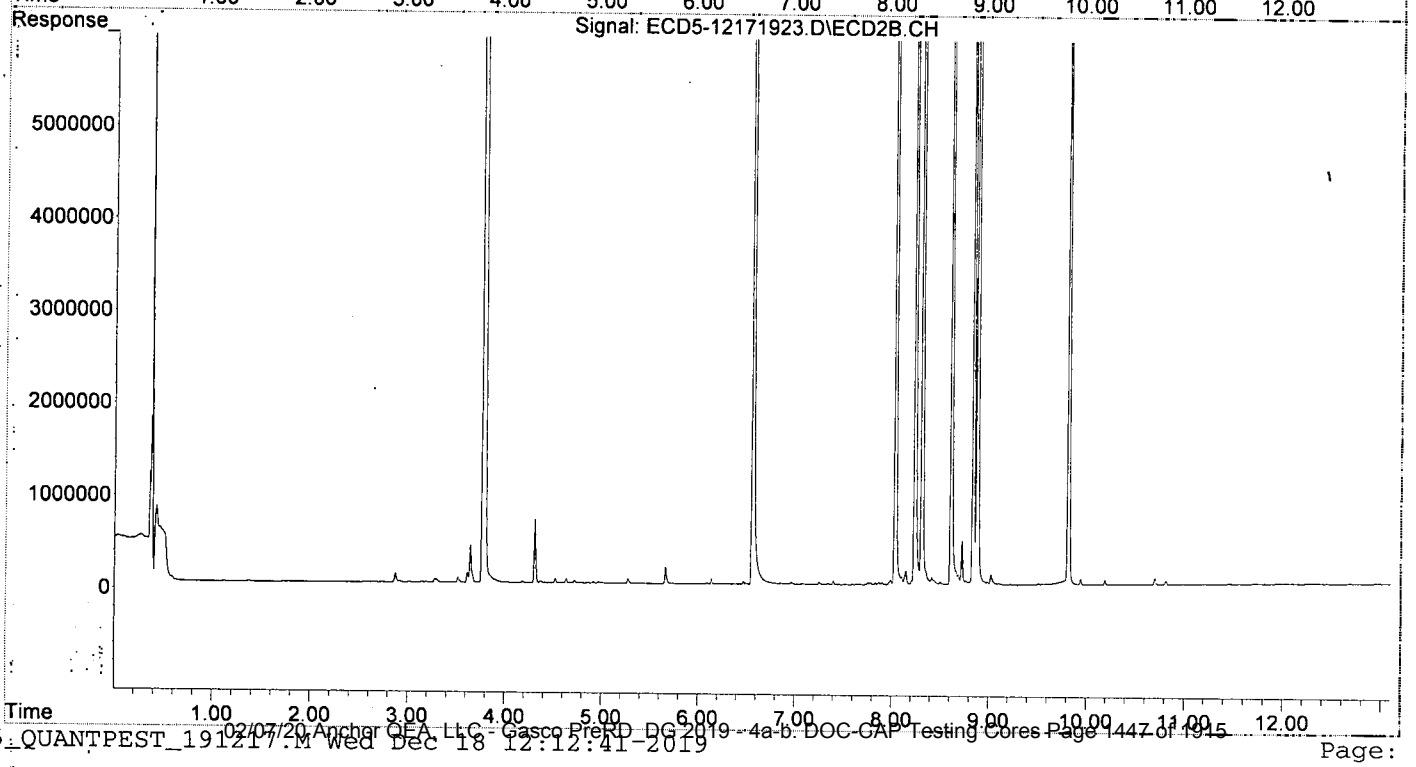
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:19
Operator : MJB
Sample : 9L17040-CALH
Misc : A19J409, 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: Dec 17 18:50:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:36
Operator : MJB
Sample : 9L17040-CALI
Misc : A19K262, 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: Dec 17 18:50:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

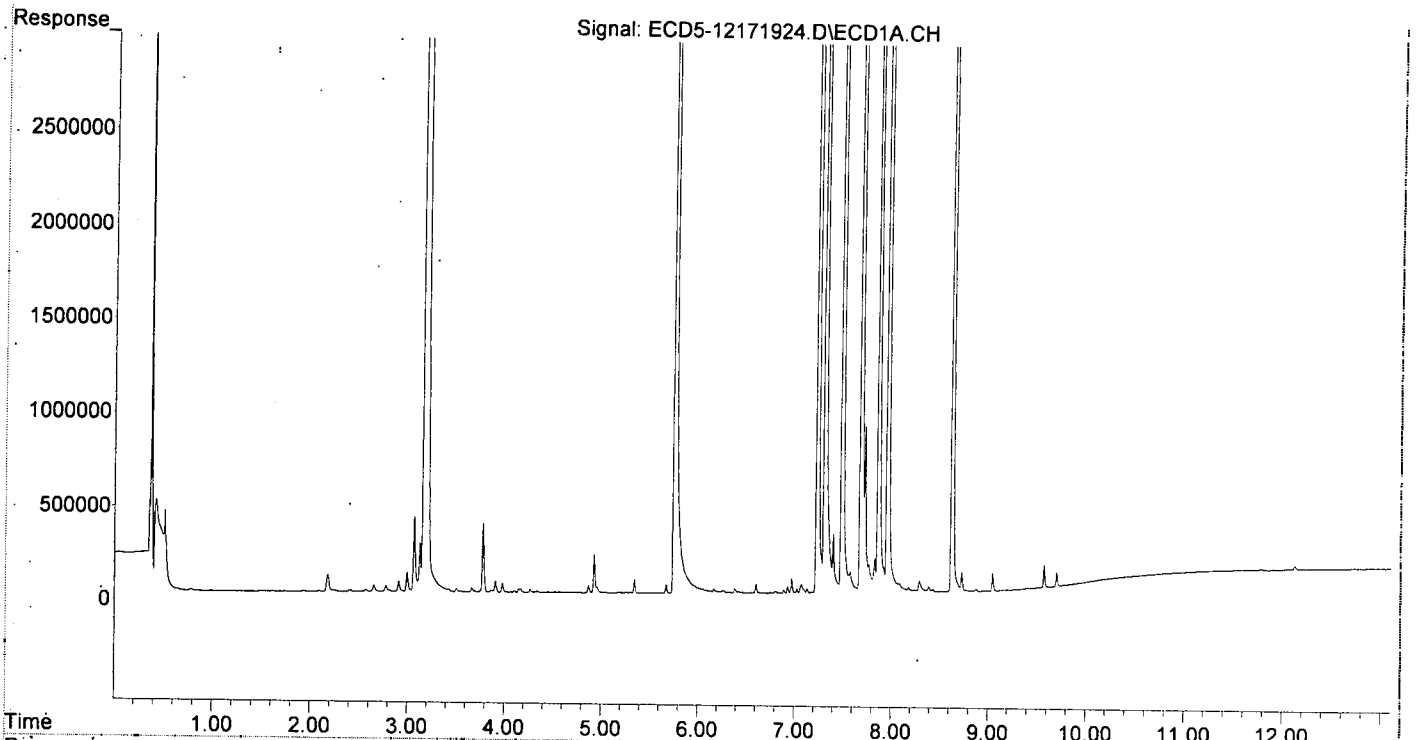
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.345f	6.091	69664	7406	0.391	0.025	#
22)	S	DCBP (S)	9.574	10.699	118875	129303	0.685	0.759	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	6.194	0.000	12170	0	0.060	N.D.	#
4)		b-BHC	6.254	7.082	14319	16590	0.202	0.120	#
5)		Heptachlor	6.603	7.398	49427	67745	0.269	0.226	
6)		d-BHC	6.422	7.341	10330	18804	0.041	0.021	#
7)		Aldrin	6.843	7.668	3999	16418	0.021	0.053	#
8)		Heptachlo...	7.309	8.104	23737847	140227	132.124	0.490	#
9)		trans-Chl...	7.401	8.237	312528	42847182	1.733	146.893	#
10)		cis-Chlor...	7.489	8.351	37341798	202818	201.367	0.723	#
11)		Endosulfa...	7.577f	8.413	112098	127789	0.638	0.486	
12)		4,4'-DDE	7.577	8.432f	112098	68018	0.730	0.213	#
13)		Dieldrin	7.768	8.612	152309	36787414	0.776	123.843	#
14)		Endrin	7.961f	8.838	43359729	38309021	283.800	150.686	#
15)		4,4'-DDD	7.961f	8.881	43359729	73303375	261.401	246.147	
16)		Endosulfa...	8.090	8.985	44905	46948	0.294	0.198	
17)		4,4'-DDT	8.181	9.104	24622	21640	0.239	0.366	#
18)		Endrin Al...	8.389	9.223	27481	13262	0.230	0.068	#
19)		Endosulfa...	0.000	9.414	0	12229	N.D.	BelowCal	
20)		Methoxychlor	0.000	9.585	0	17734	N.D.	0.375	#
21)		Endrin Ke...	8.878	9.815	12705	37614016	BelowCal	142.020	
23)		Hexachlor...	3.171	3.776	34453725	78740386	202.543	217.398	
24)		Hexachlor...	5.754	6.563	38988294	58421671	205.316	199.378	
25)		Oxychlordane	7.234	8.036	33423505	54409204	202.847	215.059	
26)		2,4'-DDE	7.309	8.237	23737847	42847182	220.162	225.300	
27)		trans-Non...	7.489	8.311	37341798	62448664	207.741	221.351	
28)		2,4'-DDD	7.683	8.612	21489158	36787414	218.554	216.988	
29)		2,4'-DDT	7.866	8.838	23322813	38309021	241.037	198.584	
30)		cis-Nonac...	7.961	8.881	43359729	73303375	210.565	228.924	
31)		Mirex	8.627	9.815	25367252	37614016	206.914	200.996	
32)		Chlordane...	7.489f	8.206	37341798	78907	731.111	0.849	#
33)		Chlordane...	7.577f	8.311	112098	62448664	1.724	801.437	#
34)		Chlordane...	8.181f	8.985	24622	46948	1.649	2.333	#
35)		Chlordane...	3.776f	0.000	368935	0	NoCal	N.D.	
36)		Toxaphene...	7.577	0.000	112098	0	47.551	N.D.	#
37)		Toxaphene...	7.866	8.881f	23322813	73303375	5488.152	8620.137	#
38)		Toxaphene...	8.181	0.000	24622	0	2.827	N.D.	#
39)		Toxaphene...	8.431	8.985	15110	46948	1.799	2.176	
40)		Toxaphene...	8.627f	0.000	25367252	0	4128.059	N.D.	#
41)		Toxaphene...	8.729	9.585f	100316	17734	12.337	1.453	#
42)		Toxaphene...	3.776f	0.000	368935	0	NoCal	N.D.	

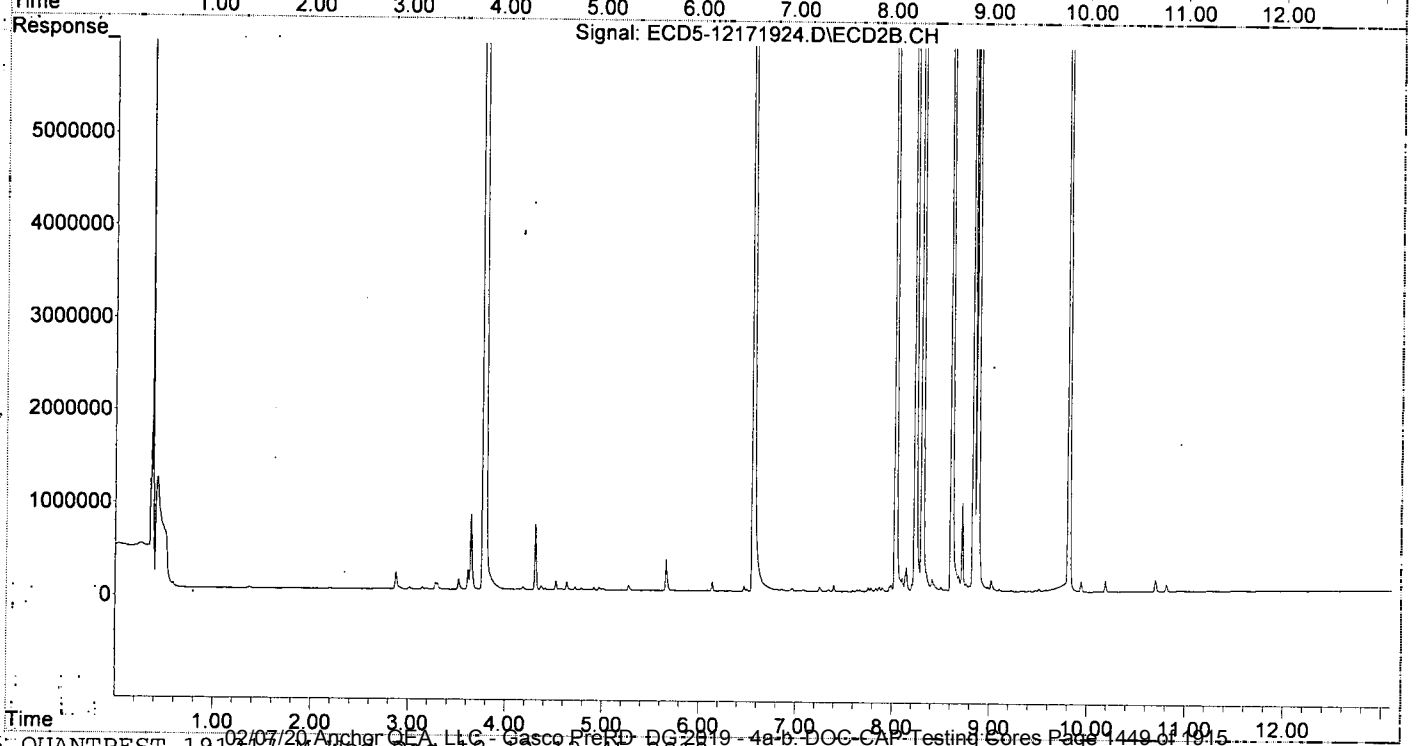
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:36
Operator : MJB
Sample : 9L17040-CALI
Misc : A19K262, 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: Dec 17 18:50:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 18:27
Operator : MJB
Sample : 9L17040-CALJ
Misc : A19L233, 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: Dec 18 11:50:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

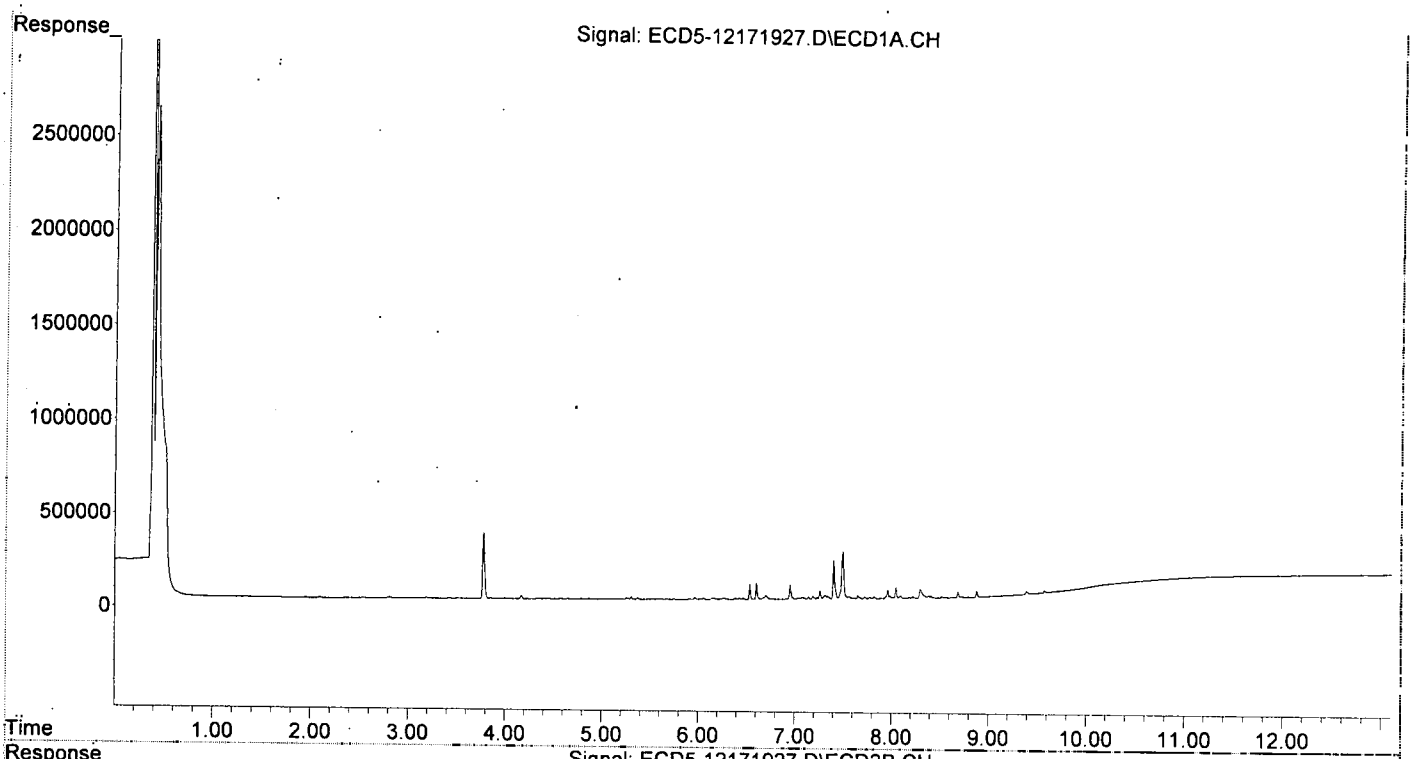
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.371	6.090	9391	18964	0.053	0.064	
22)	S	DCBP (S)	9.574	10.698	14122	12010	BelowCal	0.071	
		Target Compounds							
2)		a-BHC	0.000	6.727f	0	10037	N.D.	0.025	#
3)		g-BHC	6.164f	0.000	7858	0	0.039	N.D.	#
4)		b-BHC	6.261	7.123f	7825	13459	0.110	0.097	
5)		Heptachlor	6.603	7.397	87238	149144	0.474	0.498	
6)		d-BHC	6.427	7.341	6488	10381	0.013	BelowCal	#
7)		Aldrin	0.000	7.701f	0	19898	N.D.	0.064	#
8)		Heptachlo...	7.314	8.073f	20029	74410	0.111	0.260	#
9)		trans-Chl...	7.403	8.246	206049	358273	1.143	1.228	
10)		cis-Chlor...	7.496	8.355	253603	313241	1.343	1.116	
11)		Endosulfa...	7.562f	8.407	12893	9305	0.073	0.035	#
12)		4,4'-DDE	7.562	8.456	12893	16856	0.084	0.010	#
13)		Dieldrin	7.776	8.609	8257	24140	0.042	0.081	#
14)		Endrin	7.961f	8.837	47410	14164	0.310	0.006	#
15)		4,4'-DDD	7.987	8.879	15311	91473	BelowCal	0.287	
16)		Endosulfa...	8.094	8.986	16934	23984	0.111	0.101	
17)		4,4'-DDT	8.183	9.104	7506	14363	0.050	0.316	#
18)		Endrin Al...	8.384	9.223	13095	19400	0.110	0.099	
19)		Endosulfa...	8.686	9.414	31038	40354	BelowCal	BelowCal	
20)		Methoxychlor	8.520	9.583	6624	15854	0.203	0.350	#
21)		Endrin Ke...	8.879	9.819	33057	47729	BelowCal	0.022	
23)		Hexachlor...	3.189	0.000	5883	0	BelowCal	N.D.	
24)		Hexachlor...	0.000	6.573	0	5905	N.D.	0.020	#
25)		Oxychlordane	7.231	8.073f	9588	74410	BelowCal	0.294	
26)		2,4'-DDE	7.314	8.246	20029	358273	0.186	1.884	#
27)		trans-Non...	7.496	8.309	253603	275979	1.411	0.978	
28)		2,4'-DDD	7.652f	8.609	17739	24140	0.180	0.142	
29)		2,4'-DDT	7.893f	8.837	4114	14164	0.043	0.015	#
30)		cis-Nonac...	7.961	8.879	47410	91473	0.230	0.286	
31)		Mirex	8.626	9.819	4096	47729	BelowCal	BelowCal	
32)		Chlordane...	7.403	8.246	206049	358273	10.784	10.550	
33)		Chlordane...	7.496	8.355	253603	313241	11.257	10.844	
34)		Chlordane...	8.046	9.023	60278	184378	10.560	10.099	
35)		Chlordane...	3.776f	0.000	355864	0	NoCal	N.D.	
36)		Toxaphene...	7.496	8.609f	253603	24140	303.451	10.203	#
37)		Toxaphene...	7.776	8.935	8257	8929	1.541	3.015	#
38)		Toxaphene...	8.094	8.986	16934	23984	2.136	4.949	#
39)		Toxaphene...	8.298f	9.023	47314	184378	8.694	18.042	#
40)		Toxaphene...	8.520f	9.223	6624	19400	2.615	1.522	#
41)		Toxaphene...	8.626	9.583	4096	15854	1.205	3.457	#
42)		Toxaphene...	3.776f	0.000	355864	0	NoCal	N.D.	

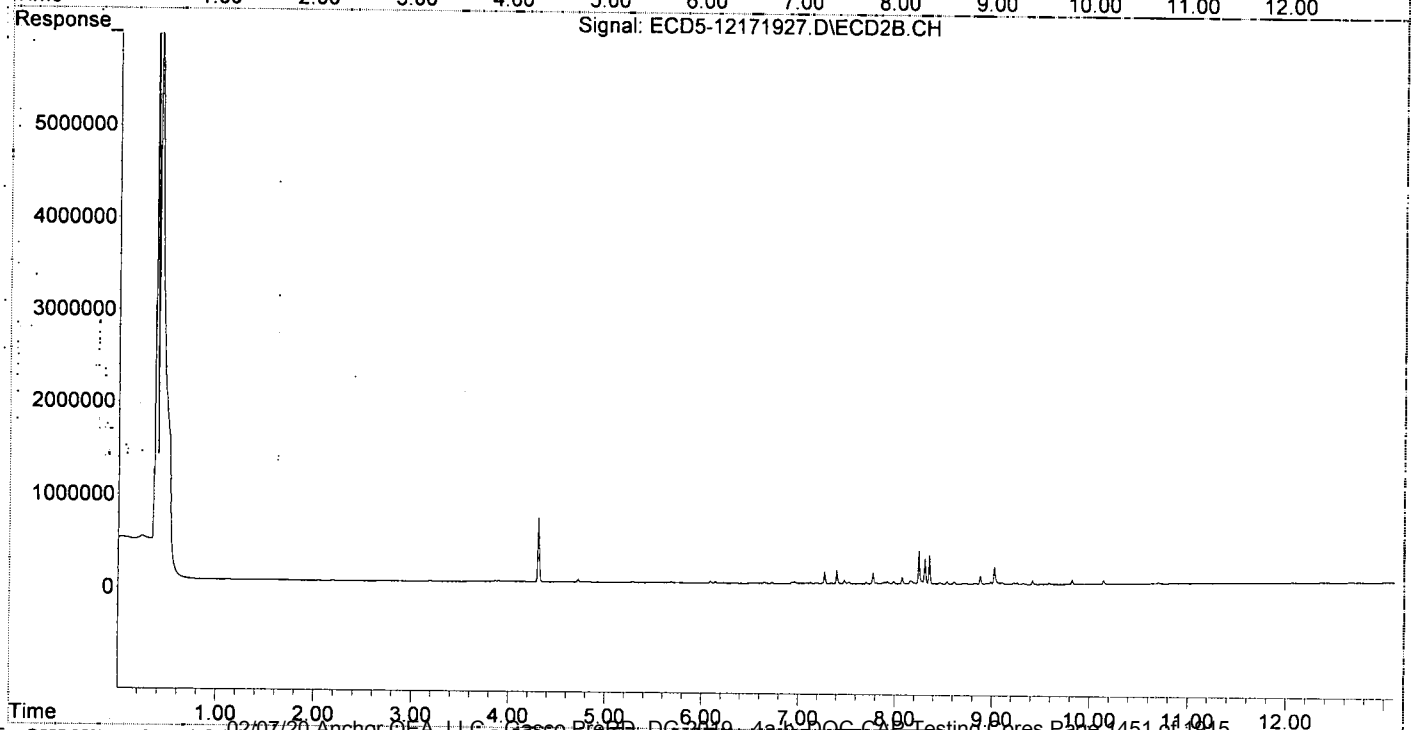
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 18:27
Operator : MJB
Sample : 9L17040-CALJ
Misc : A19L233, 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: Dec 18 11:50:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 18:45
Operator : MJB
Sample : 9L17040-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: Dec 18 11:50:48 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

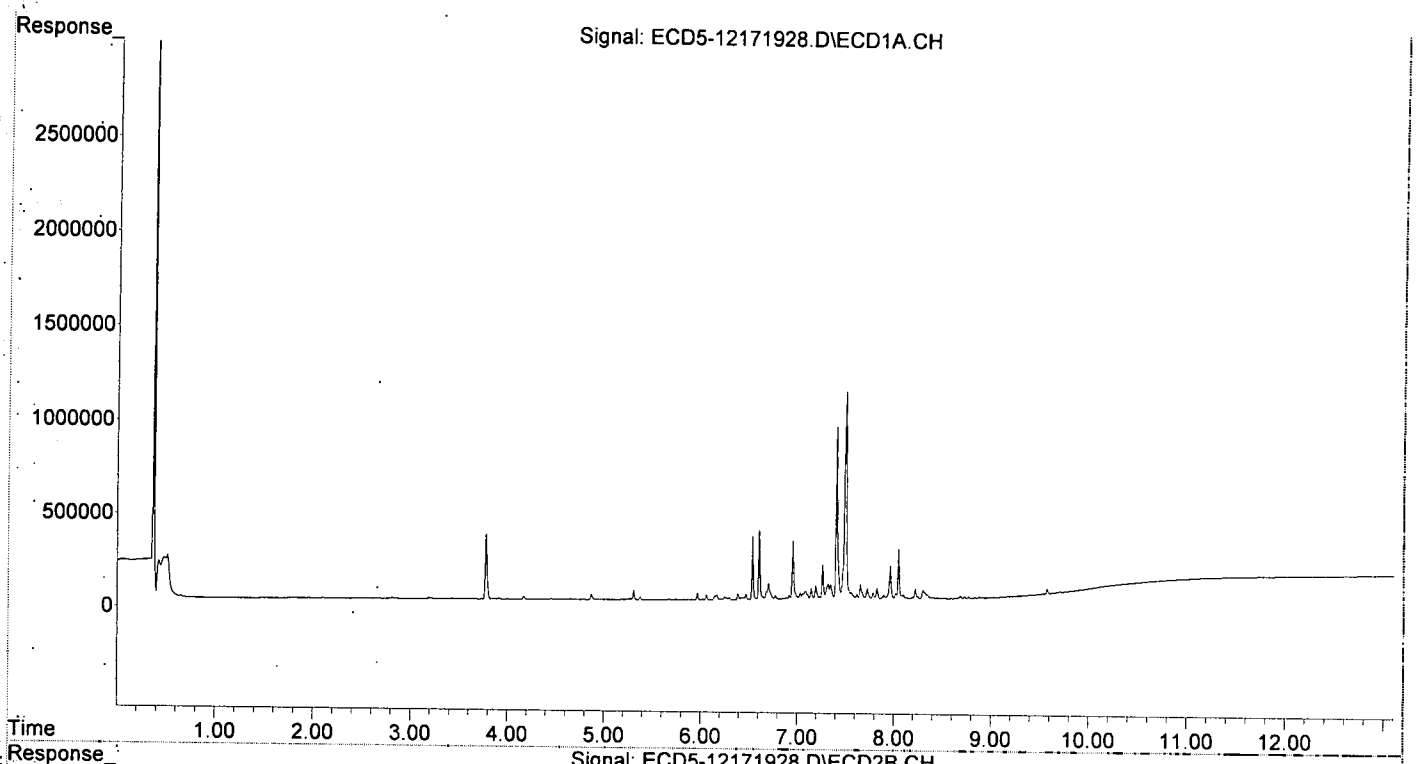
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.371	6.091	15036	31457	0.084	0.106	
22)	S DCBP (S)	9.575	10.699	29210	30066	0.007	0.177	#
	Target Compounds							
2)	a-BHC	0.000	6.705	0	6652	N.D.	0.017	#
3)	g-BHC	6.216	7.028	3523	15458	0.017	0.046	#
4)	b-BHC	6.263	7.124f	12296	54572	0.173	0.394	#
5)	Heptachlor	6.603	7.398	373061	636831	2.029	2.129	
6)	d-BHC	6.417	0.000	12132	0	0.054	N.D.	#
7)	Aldrin	6.852	7.672	7496	13378	0.039	0.043	
8)	Heptachlo...	7.316	8.125	81404	46199	0.453	0.161	#
9)	trans-Chl...	7.403	8.247	928206	1586546	5.148	5.439	
10)	cis-Chlor...	7.496	8.355	1111415	1343229	6.503	4.786	
11)	Endosulfa...	7.616	8.411	28216	21505	0.161	0.082	#
12)	4,4'-DDE	7.555	8.450	38452	44248	0.250	0.119	#
13)	Dieldrin	7.783	8.609	34412	76847	0.175	0.259	#
14)	Endrin	7.961f	8.834	179238	35863	1.173	0.115	#
15)	4,4'-DDD	7.961f	8.880	179238	274451	1.326	1.177	
16)	Endosulfa...	8.095	8.995	22288	29848	0.146	0.126	
17)	4,4'-DDT	8.219f	9.087	54992	38295	0.573	0.481	
18)	Endrin Al...	8.345f	9.257f	23556	75224	0.197	0.383	#
19)	Endosulfa...	8.688	9.446f	14179	4254	BelowCal	BelowCal	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.880	9.819	5065	18789	BelowCal	BelowCal	
23)	Hexachlor...	3.189	0.000	5816	0	BelowCal	N.D.	
24)	Hexachlor...	5.740	6.573	2743	6654	BelowCal	0.023	
25)	Oxychlordane	7.230	8.048	17200	26853	BelowCal	0.106	
26)	2,4'-DDE	7.316	8.247	81404	1586546	0.755	8.342	#
27)	trans-Non...	7.496	8.309	1111415	1221537	6.183	4.330	
28)	2,4'-DDD	7.652f	8.609	80284	76847	0.817	0.453	#
29)	2,4'-DDT	7.894f	8.834	22055	35863	0.228	0.180	
30)	cis-Nonac...	7.961	8.880	179238	274451	0.870	0.857	
31)	Mirex	8.628	9.819	3072	18789	BelowCal	BelowCal	
32)	Chlordane...	7.403	8.247	928206	1586546	48.580	46.718	
33)	Chlordane...	7.496	8.355	1111415	1343229	49.334	46.500	
34)	Chlordane...	8.046	9.024	269437	473594	47.203	47.379	
35)	Chlordane...	3.776f	0.000	352614	0	NoCal	N.D.	
36)	Toxaphene...	7.496	8.609f	1111415	76847	1315.410	32.479	#
37)	Toxaphene...	7.783	8.935	34412	46479	17.925	15.693	
38)	Toxaphene...	8.095	8.973	22288	33186	3.792	6.848	#
39)	Toxaphene...	8.345f	9.024	23556	473594	1.099	59.636	#
40)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
41)	Toxaphene...	8.628	0.000	3072	0	0.903	N.D.	#
42)	Toxaphene...	3.776f	0.000	352614	0	NoCal	N.D.	

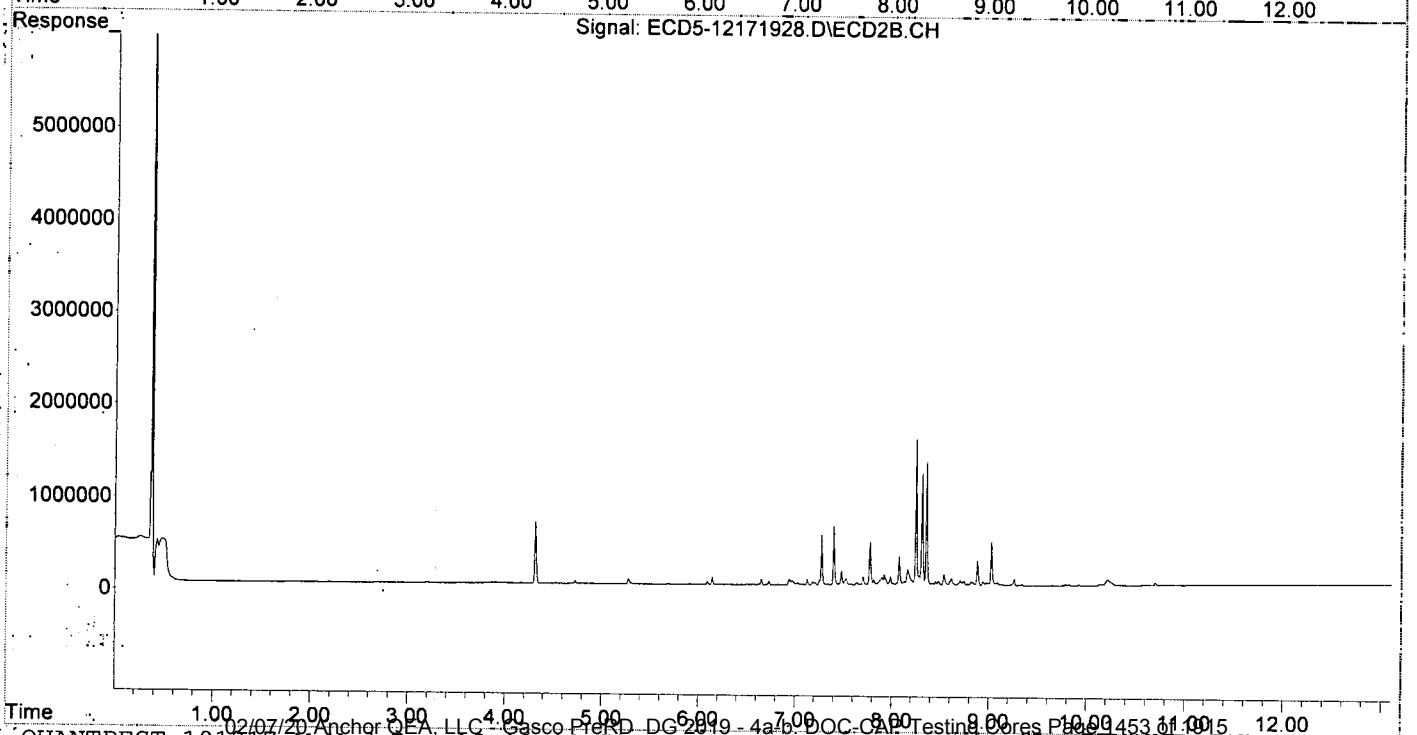
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 18:45
Operator : MJB
Sample : 9L17040-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: Dec 18 11:50:48 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171929.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:02
Operator : MJB
Sample : 9L17040-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: Dec 18 11:50:59 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/19/19

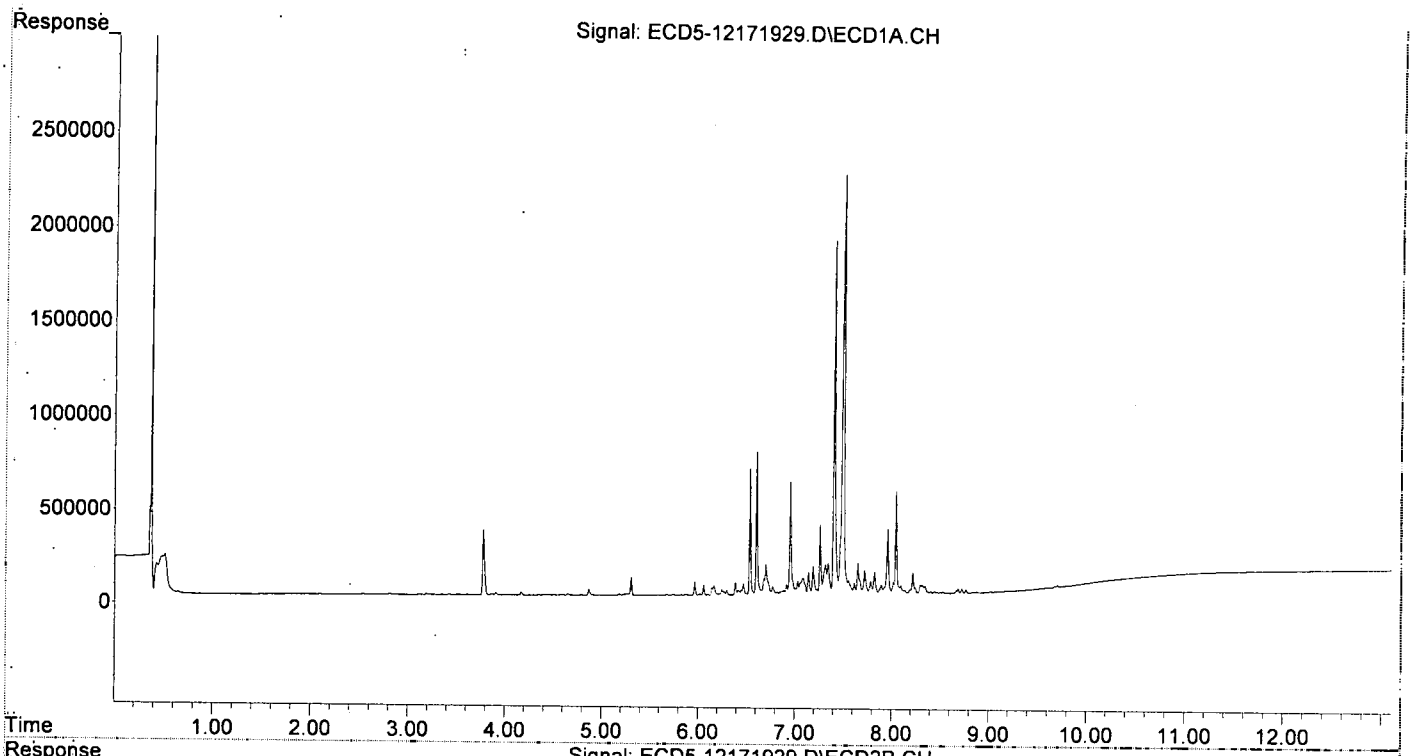
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds									
1)	S	TCMX (S)	0.000	6.094	0	10115	N.D.	0.034	#
22)	S	DCBP (S)	9.583	0.000	8315	0	BelowCal	N.D.	
Target Compounds									
2)		a-BHC	0.000	6.727f	0	81484	N.D.	0.205	#
3)		g-BHC	6.163f	7.028	47915	40630	0.236	0.120	#
4)		b-BHC	6.295f	7.123f	24691	113001	0.348	0.815	#
5)		Heptachlor	6.603	7.397	757015	1288119	4.117	4.305	
6)		d-BHC	6.413	0.000	22580	0	0.130	N.D.	#
7)		Aldrin	6.852	7.671	16305	23264	0.086	0.075	
8)		Heptachlo...	7.316	8.125	157646	93787	0.877	0.327	#
9)		trans-Chl...	7.403	8.246	1884275	3216640	10.451	11.028	
10)		cis-Chlor...	7.496	8.354	2229615	2736000	13.183	9.749	
11)		Endosulfa...	7.616	8.412	57259	44592	0.326	0.170	#
12)		4,4'-DDE	7.555	8.450	73977	86573	0.482	0.286	#
13)		Dieldrin	7.783	8.609	67936	157616	0.346	0.531	#
14)		Endrin	7.960f	8.832	347762	70943	2.276	0.290	#
15)		4,4'-DDD	7.960f	8.880	347762	526578	2.731	2.400	
16)		Endosulfa...	8.095	8.995	43427	59419	0.284	0.251	
17)		4,4'-DDT	8.219f	9.087	110140	68933	1.177	0.693	#
18)		Endrin Al...	8.405f	9.194f	11928	15241	0.100	0.078	
19)		Endosulfa...	8.688	9.446f	24507	12179	BelowCal	BelowCal	
20)		Methoxychlor	8.530	0.000	8208	0	0.236	N.D.	#
21)		Endrin Ke...	8.877	9.819	4345	28839	BelowCal	BelowCal	
23)		Hexachlor...	3.188	0.000	6016	0	BelowCal	N.D.	
24)		Hexachlor...	5.739	6.572	5337	6648	BelowCal	0.023	
25)		Oxychlordane	7.229	8.048	29205	57851	0.013	0.229	#
26)		2,4'-DDE	7.316	8.246	157646	3216640	1.462	16.914	#
27)		trans-Non...	7.496	8.309	2229615	2477257	12.404	8.781	
28)		2,4'-DDD	7.652f	8.609	165428	157616	1.682	0.930	#
29)		2,4'-DDT	7.894f	8.832	47788	70943	0.494	0.447	
30)		cis-Nonac...	7.960	8.880	347762	526578	1.689	1.644	
31)		Mirex	0.000	9.819	0	28839	N.D.	BelowCal	
32)		Chlordane...	7.403	8.246	1884275	3216640	98.618	94.718	
33)		Chlordane...	7.496	8.354	2229615	2736000	98.969	94.714	
34)		Chlordane...	8.046	9.023	547016	867697	95.833	97.848	
35)		Chlordane...	3.775f	0.000	353099	0	NoCal	N.D.	
36)		Toxaphene...	7.496	8.609f	2229615	157616	2582.522	66.616	#
37)		Toxaphene...	7.783	8.935	67936	91520	38.937	30.900	
38)		Toxaphene...	8.095	8.973	43427	65452	10.324	13.506	
39)		Toxaphene...	8.320	9.023	43482	867697	7.469	115.674	#
40)		Toxaphene...	8.530f	9.194f	8208	15241	3.240	0.480	#
41)		Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)		Toxaphene...	3.775f	0.000	353099	0	NoCal	N.D.	

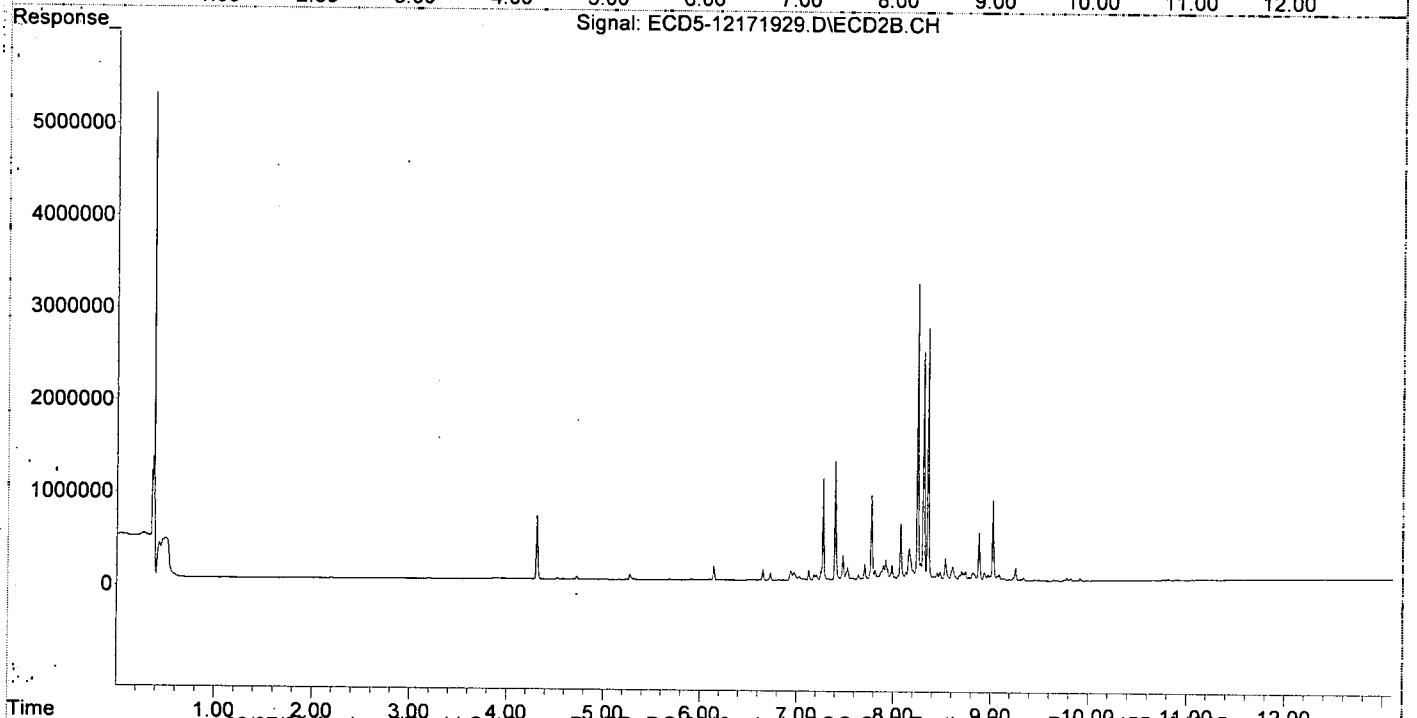
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171929.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:02
Operator : MJB
Sample : 9L17040-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: Dec 18 11:50:59 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171930.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:19
Operator : MJB
Sample : 9L17040-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: Dec 18 11:51:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

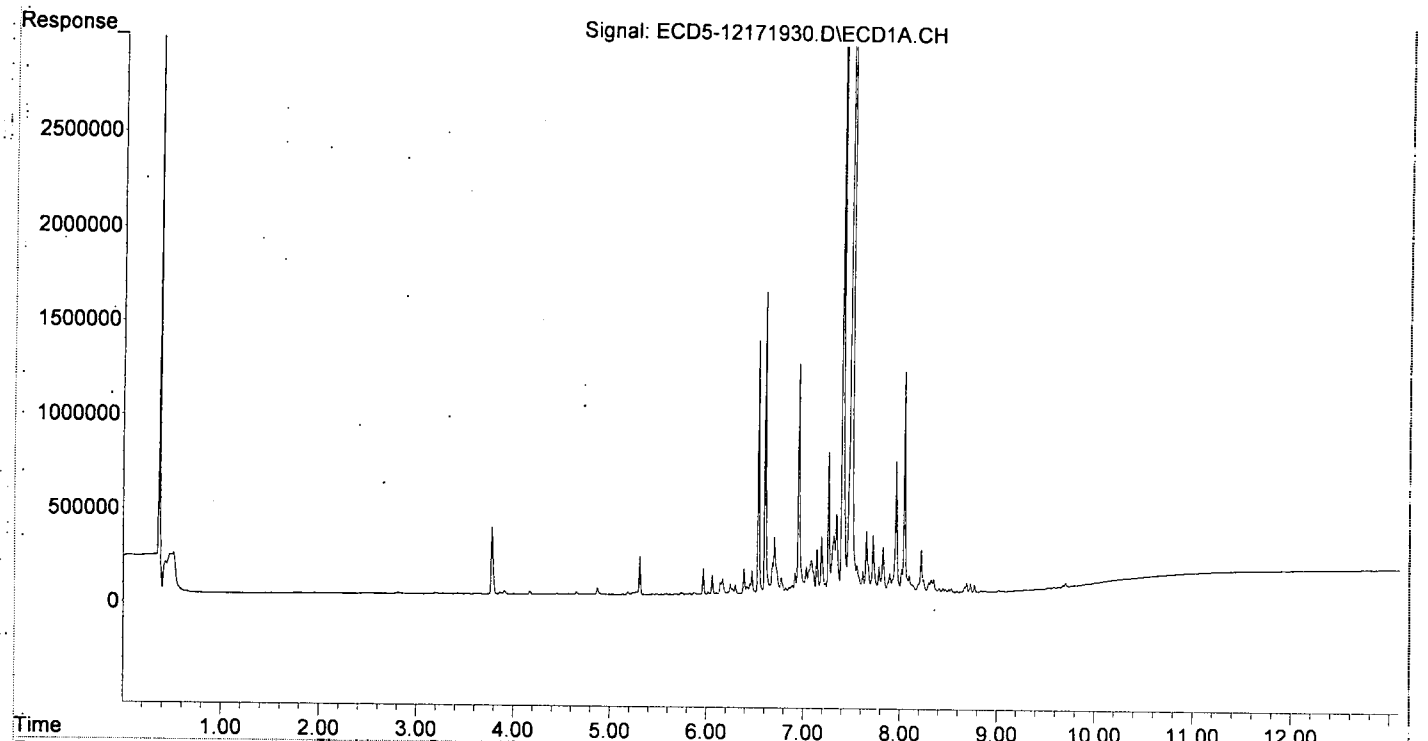
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.092	0	9448	N.D.	0.032	#
22)	S	DCBP (S)	9.583	0.000	11602	0	BelowCal	N.D.	
		Target Compounds							
2)		a-BHC	0.000	6.705	0	20320	N.D.	0.051	#
3)		g-BHC	6.214	7.027	10801	80511	0.053	0.238	#
4)		b-BHC	6.295f	7.122f	50939	218969	0.718	1.580	#
5)		Heptachlor	6.603	7.397	1609975	2679425	8.757	8.956	
6)		d-BHC	6.413	0.000	41125	0	0.265	N.D.	#
7)		Aldrin	6.852	7.670	34507	46397	0.182	0.150	
8)		Heptachlo...	7.316	8.125	312149	184623	1.737	0.645	#
9)		trans-Chl...	7.402	8.246	3892694	6685788	21.591	22.921	
10)		cis-Chlor...	7.496	8.354	4557171	5847346	26.923	20.835	
11)		Endosulfa...	7.615	8.427	116788	93617	0.665	0.356	#
12)		4,4'-DDE	7.554	8.449	147956	179014	0.963	0.651	
13)		Dieldrin	7.783	8.608	140283	381817	0.715	1.285	#
14)		Endrin	7.960f	8.832	702908	149432	4.601	0.683	#
15)		4,4'-DDD	7.960f	8.879	702908	1053185	5.673	4.937	
16)		Endosulfa...	8.095	8.994	90741	119435	0.594	0.504	
17)		4,4'-DDT	8.219f	9.114	229042	44736	2.473	0.526	#
18)		Endrin Al...	8.405f	9.194f	24555	35134	0.205	0.179	
19)		Endosulfa...	8.687	9.445f	51124	27143	0.089	BelowCal	#
20)		Methoxychlor	8.529	9.555f	20074	8149	0.484	0.244	#
21)		Endrin Ke...	8.873	9.819	7435	57200	BelowCal	0.068	
23)		Hexachlor...	3.189	0.000	5612	0	BelowCal	N.D.	
24)		Hexachlor...	5.738	6.572	11248	7323	BelowCal	0.025	
25)		Oxychlordane	7.228	8.047	55683	114547	0.200	0.453	#
26)		2,4'-DDE	7.316	8.246	312149	6685788	2.895	35.155	#
27)		trans-Non...	7.496	8.309	4557171	5145900	25.353	18.240	
28)		2,4'-DDD	7.652f	8.608	337613	381817	3.434	2.252	
29)		2,4'-DDT	7.893f	8.832	101423	149432	1.048	1.043	
30)		cis-Nonac...	7.960	8.879	702908	1053185	3.413	3.289	
31)		Mirex	8.589f	9.819	6579	57200	BelowCal	0.004	
32)		Chlordane...	7.402	8.246	3892694	6685788	203.734	196.872	
33)		Chlordane...	7.496	8.354	4557171	5847346	202.285	202.422	
34)		Chlordane...	8.045	9.022	1182795	1763526	207.216	211.187	
35)		Chlordane...	3.775f	0.000	361051	0	NoCal	N.D.	
36)		Toxaphene...	7.496	8.608f	4557171	381817	5059.555	161.373	#
37)		Toxaphene...	7.783	8.935	140283	181830	84.319	61.391	
38)		Toxaphene...	8.095	8.973	90741	138239	24.927	28.526	
39)		Toxaphene...	8.322	9.022	68415	1763526	15.434	240.440	#
40)		Toxaphene...	8.529f	9.194f	20074	35134	7.923	5.461	
41)		Toxaphene...	8.589f	0.000	6579	0	1.934	N.D.	#
42)		Toxaphene...	3.775f	0.000	361051	0	NoCal	N.D.	

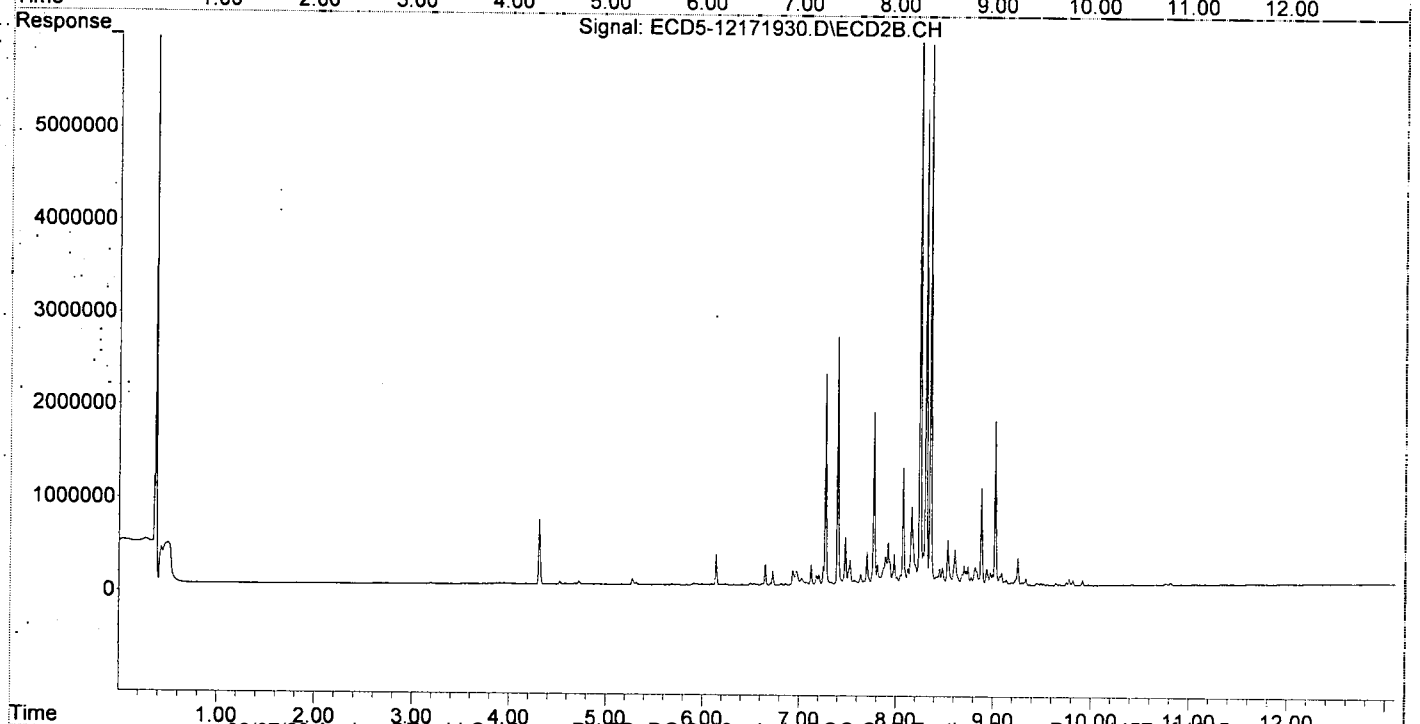
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171930.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:19
Operator : MJB
Sample : 9L17040-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: Dec 18 11:51:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:36
Operator : MJB
Sample : 9L17040-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: Dec 18 11:51:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

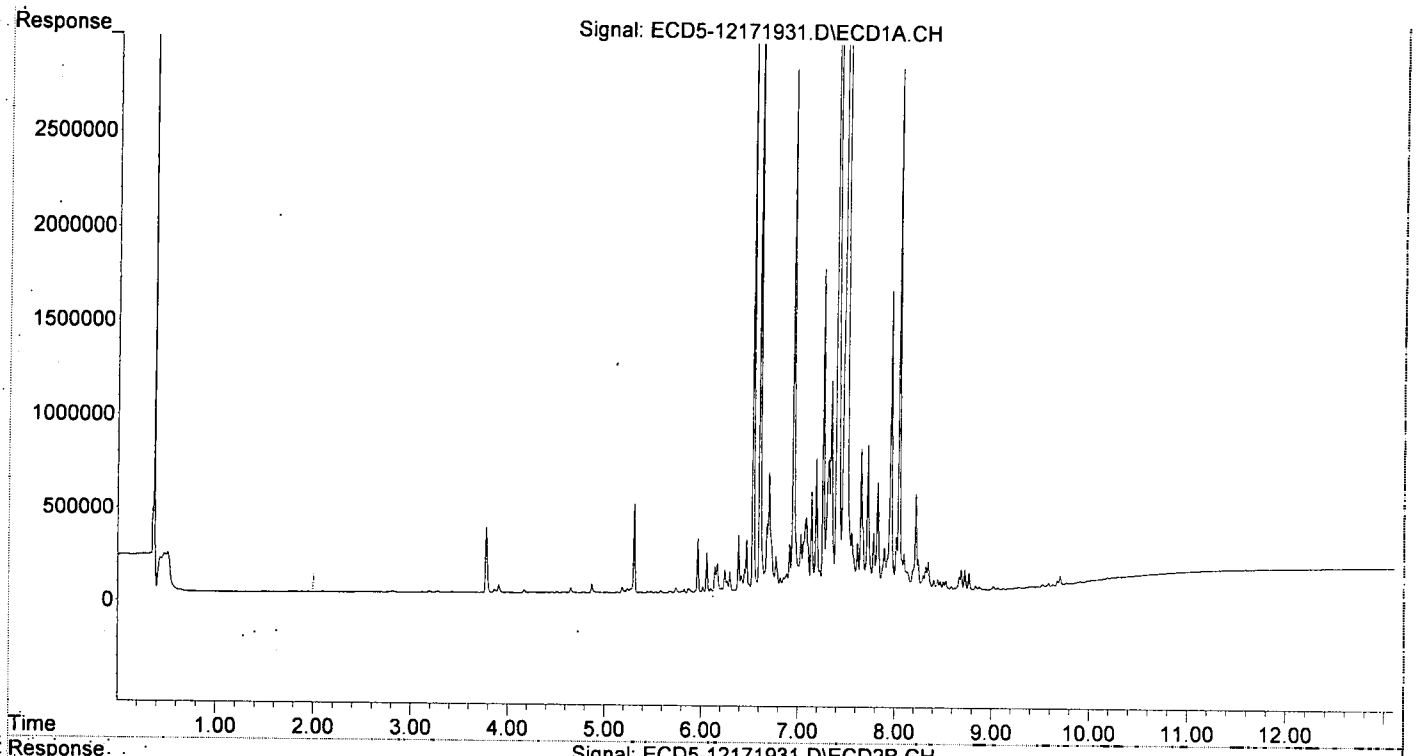
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds									
1)	S	TCMX (S)	0.000	6.094	0	15413	N.D.	0.052	#
22)	S	DCBP (S)	9.583	10.668f	16226	6537	BelowCal	0.038	
Target Compounds									
2)		a-BHC	0.000	6.707	0	40006	N.D.	0.101	#
3)		g-BHC	6.212	7.029	21872	165525	0.108	0.489	#
4)		b-BHC	6.296f	7.124f	114731	484441	1.618	3.496	#
5)		Heptachlor	6.604	7.398	3799719	6414369	20.666	21.439	
6)		d-BHC	6.413	7.328	87657	70764	0.603	0.207	#
7)		Aldrin	6.852	7.671	77145	96450	0.406	0.311	
8)		Heptachlo...	7.316	8.125	709429	403530	3.949	1.409	#
9)		trans-Chl...	7.402	8.247	8970761	16478328	49.758	56.493	
10)		cis-Chlor...	7.496	8.355	10680030	13752508	62.067	49.002	
11)		Endosulfa...	7.615	8.430f	266395	216842	1.516	0.825	#
12)		4,4'-DDE	7.555	8.450	315530	382154	2.054	1.451	
13)		Dieldrin	7.783	8.609	310963	977859	1.584	3.292	#
14)		Endrin	7.961f	8.817f	1609720	479691	10.536	2.329	#
15)		4,4'-DDD	7.961f	8.879	1609720	2449520	13.073	11.553	
16)		Endosulfa...	8.096	8.995	198417	259827	1.299	1.097	
17)		4,4'-DDT	8.219f	9.115	518257	93488	5.581	0.862	#
18)		Endrin Al...	8.405f	9.194f	55348	72547	0.463	0.370	
19)		Endosulfa...	8.688	9.446f	110386	60231	0.527	0.034	#
20)		Methoxychlor	8.530	9.556f	48937	17706	1.087	0.375	#
21)		Endrin Ke...	8.872	9.819	16373	123306	BelowCal	0.388	
23)		Hexachlor...	3.189	0.000	6520	0	BelowCal	N.D.	
24)		Hexachlor...	5.739	6.535f	26675	36717	BelowCal	0.125	
25)		Oxychlordane	7.260f	8.048	1725184	243624	11.893	0.963	#
26)		2,4'-DDE	7.316	8.247	709429	16478328	6.580	86.647	#
27)		trans-Non...	7.496	8.310	10680030	12371442	59.415	43.851	
28)		2,4'-DDD	7.652f	8.609	764946	977859	7.780	5.768	
29)		2,4'-DDT	7.893f	8.817f	232075	479691	2.398	3.532	#
30)		cis-Nonac...	7.961	8.879	1609720	2449520	7.817	7.650	
31)		Mirex	8.621	9.819	12329	123306	BelowCal	0.443	
32)		Chlordane...	7.402	8.247	8970761	16478328	469.507	485.227	
33)		Chlordane...	7.496	8.355	10680030	13752508	474.069	476.082	✓
34)		Chlordane...	8.046	9.023	2782032	3999854	487.390	486.279	
35)		Chlordane...	3.775f	0.000	355965	0	NoCal	N.D.	
36)		Toxaphene...	7.496	8.609f	10680030	977859	10807.342	413.287	#
37)		Toxaphene...	7.783	8.935	310963	410997	191.591	138.764	
38)		Toxaphene...	8.096	8.974	198417	313035	58.069	64.595	
39)		Toxaphene...	8.323	9.023	129261	3999854	34.845	537.668	#
40)		Toxaphene...	8.530f	9.194f	48937	72547	19.315	14.818	
41)		Toxaphene...	8.621	0.000	12329	0	3.625	N.D.	#
42)		Toxaphene...	3.775f	0.000	355965	0	NoCal	N.D.	

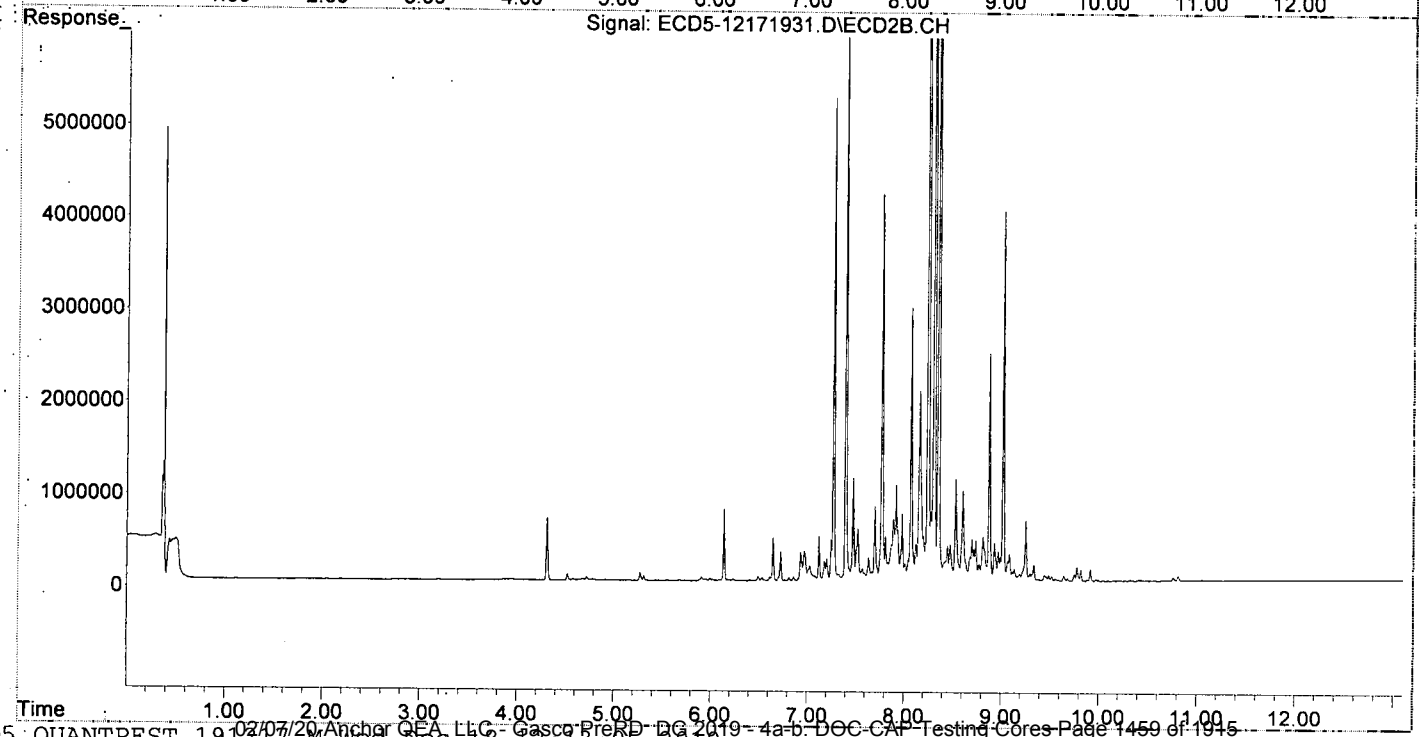
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:36
Operator : MJB
Sample : 9L17040-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: Dec 18 11:51:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171932.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:53
Operator : MJB
Sample : 9L17040-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: Dec 18 11:51:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

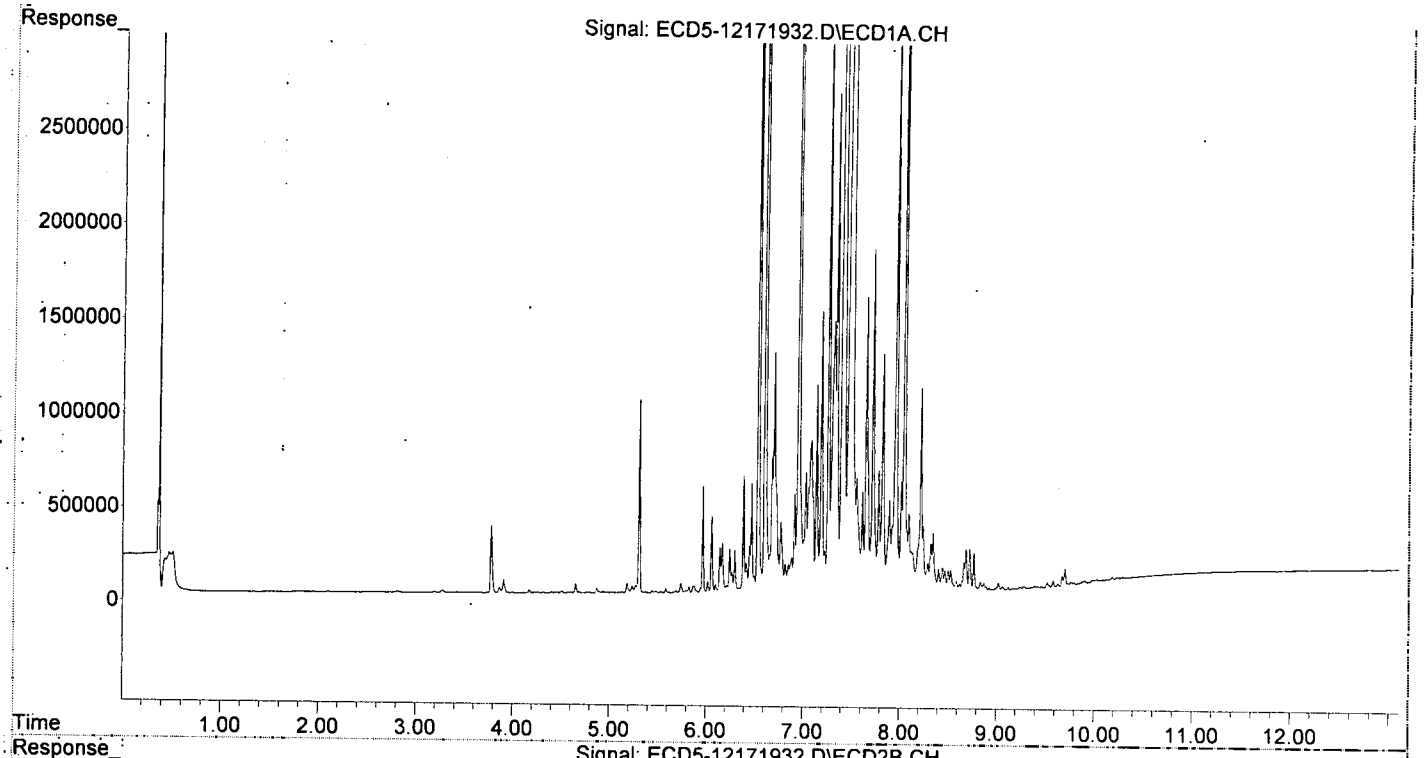
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.371	6.093	7322	13324	0.041	0.045	
22)	S	DCBP (S)	9.583	10.711	31843	8138	0.027	0.048	#
		Target Compounds							
2)		a-BHC	0.000	6.727f	0	616850	N.D.	1.550	#
3)		g-BHC	6.213	7.028	37942	321305	0.187	0.949	#
4)		b-BHC	6.296f	7.074	228189	97633	3.218	0.705	#
5)		Heptachlor	6.604	7.398	7997233	13793959	43.496	46.104	
6)		d-BHC	6.412	7.326	158068	135600	1.113	0.438	#
7)		Aldrin	6.851	7.670	145809	191491	0.768	0.617	
8)		Heptachlo...	7.315	8.124	1449663	854120	8.069	2.982	#
9)		trans-Chl...	7.402	8.247	19599019	35793370	108.709	122.710	
10)		cis-Chlor...	7.495	8.355	22305333	30171728	125.281	107.507	
11)		Endosulfa...	7.615	8.430f	528491	466085	3.007	1.773	#
12)		4,4'-DDE	7.554	8.449	607558	805746	3.954	3.111	
13)		Dieldrin	7.782	8.609	643368	2324573	3.278	7.826	#
14)		Endrin	7.960f	8.853	3401425	357255	22.263	1.720	#
15)		4,4'-DDD	7.960f	8.879	3401425	5155784	27.249	23.955	
16)		Endosulfa...	8.095	8.995	412731	558437	2.701	2.359	
17)		4,4'-DDT	8.218f	9.115	1084845	199635	11.501	1.593	#
18)		Endrin Al...	8.404f	9.194f	115413	167150	0.965	0.852	
19)		Endosulfa...	8.687	9.395f	221381	47287	1.348	BelowCal	#
20)		Methoxychlor	8.530	9.589	106719	40610	2.289	0.689	#
21)		Endrin Ke...	8.871	9.819	35189	252555	BelowCal	1.011	
23)		Hexachlor...	3.189	0.000	6170	0	BelowCal	N.D.	
24)		Hexachlor...	5.739	6.535f	51864	70465	0.144	0.240	#
25)		Oxychlordane	7.227	8.047	219672	490145	1.359	1.937	#
26)		2,4'-DDE	7.315	8.247	1449663	35793370	13.445	188.209	#
27)		trans-Non...	7.495	8.309	22305333	26887362	124.090	95.303	
28)		2,4'-DDD	7.651f	8.609	1565744	2324573	15.924	13.711	
29)		2,4'-DDT	7.893f	8.853	484954	357255	5.012	2.612	#
30)		cis-Nonac...	7.960	8.879	3401425	5155784	16.518	16.101	
31)		Mirex	8.620	9.819	33408	252555	0.029	1.299	#
32)		Chlordane...	7.402	8.247	19599019	35793370	1025.764	1053.986	
33)		Chlordane...	7.495	8.355	22305333	30171728	990.097	1044.480	✓
34)		Chlordane...	8.046	9.023	5893931	8914072	1032.569	1056.385	
35)		Chlordane...	3.775f	0.000	363368	0	NoCal	N.D.	
36)		Toxaphene...	7.495	8.609f	22305333	2324573	19815.117	982.469	#
37)		Toxaphene...	7.782	8.935	643368	848265	401.356	286.399	
38)		Toxaphene...	8.095	8.973	412731	681205	123.660	140.568	
39)		Toxaphene...	8.323	9.023	252959	8914072	74.192	1133.231	#
40)		Toxaphene...	8.530f	9.194f	106719	167150	42.121	38.414	
41)		Toxaphene...	8.620	9.589	33408	40610	9.824	8.856	
42)		Toxaphene...	3.775f	0.000	363368	0	NoCal	N.D.	

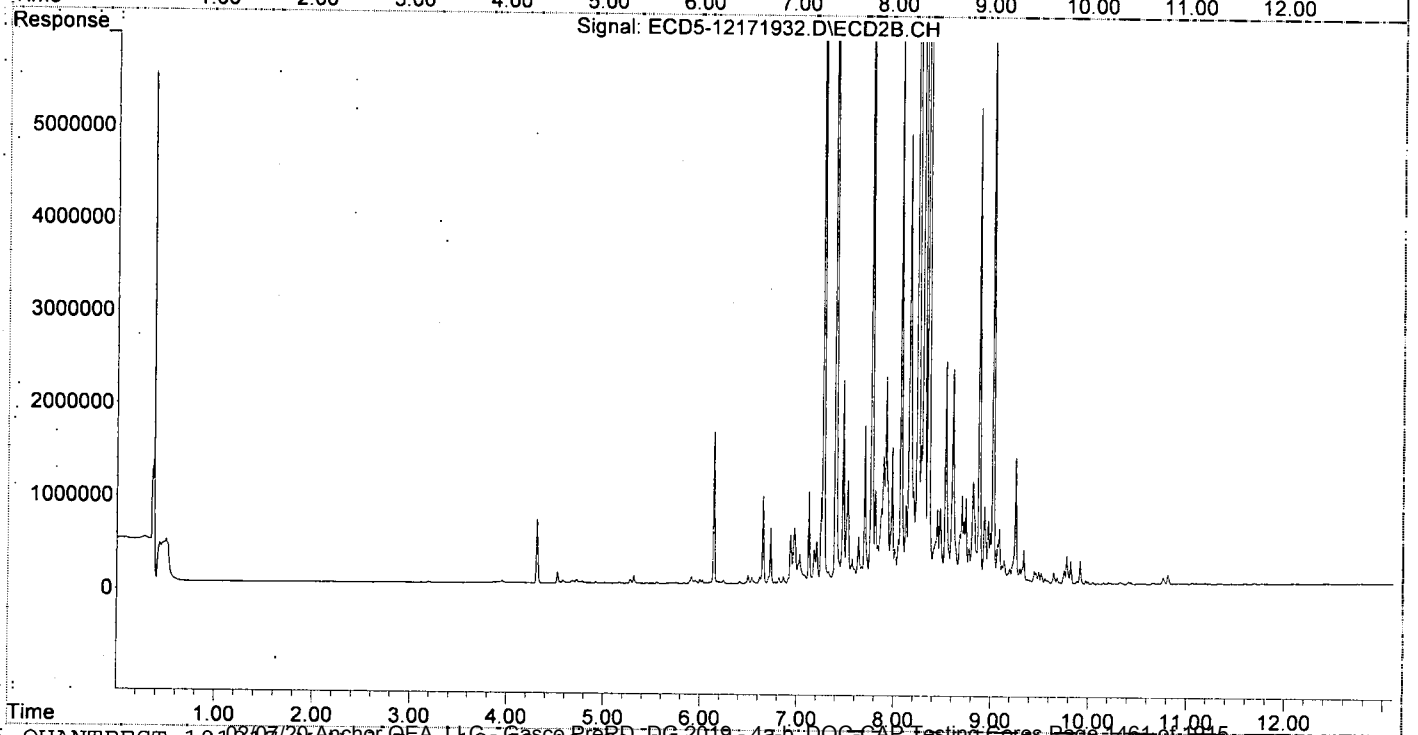
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171932.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:53
Operator : MJB
Sample : 9L17040-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: Dec 18 11:51:32 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171933.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 20:11
Operator : MJB
Sample : 9L17040-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: Dec 18 11:51:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

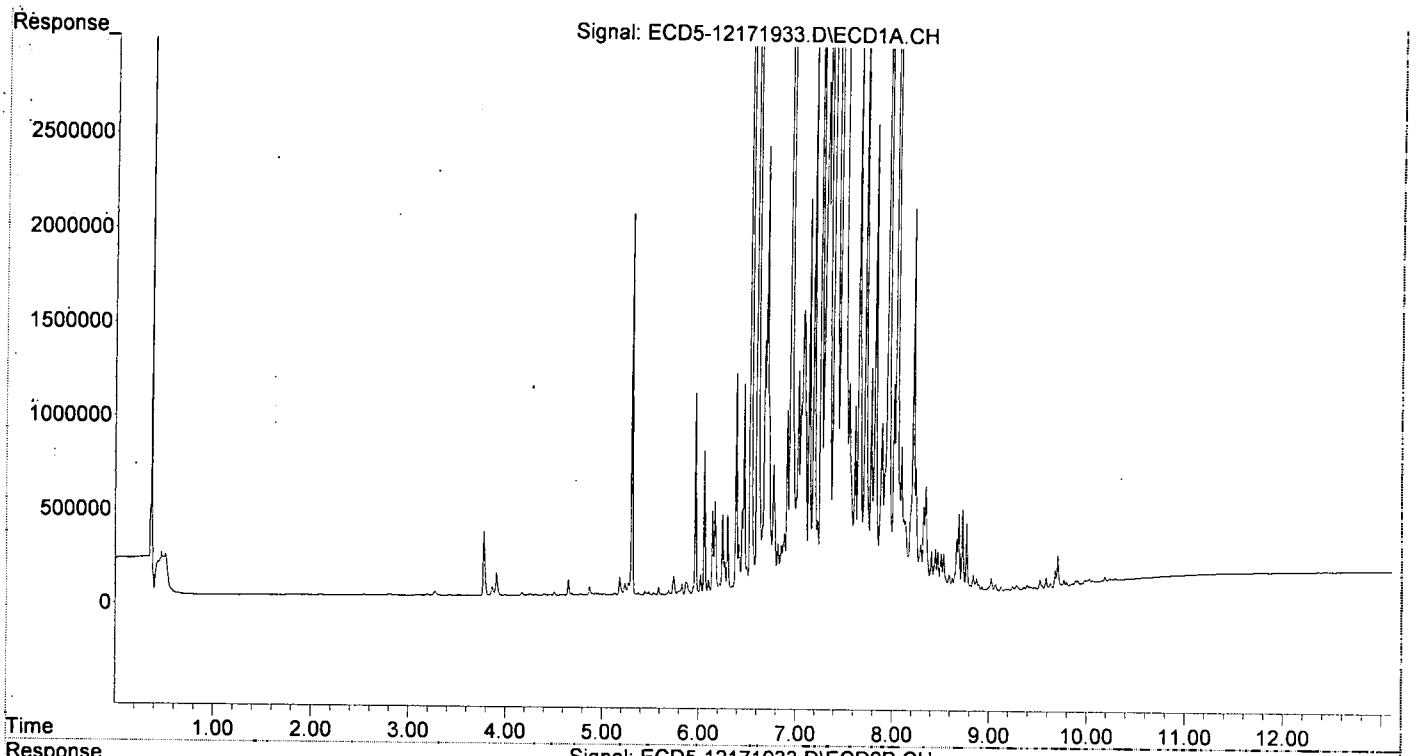
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.371	6.056f	13196	22405	0.074	0.075	
22)	S DCBP (S)	9.584	10.713	58053	15757	0.225	0.093	#
	Target Compounds							
2)	a-BHC	0.000	6.707	0	143921	N.D.	0.362	#
3)	g-BHC	6.213	7.029	60222	555282	0.296	1.640	#
4)	b-BHC	6.296f	0.000	425019	0	5.994	N.D.	#
5)	Heptachlor	6.604	7.399	15153218	27037604	82.417	90.369	
6)	d-BHC	6.411	7.328	268226	229345	1.910	0.773	#
7)	Aldrin	6.851	7.670	258544	336951	1.362	1.086	
8)	Heptachlo...	7.315	8.125	2732359	1580562	15.208	5.519	#
9)	trans-Chl...	7.402	8.248	37463007	71633044	207.794	245.579	
10)	cis-Chlor...	7.496	8.356	42726140	59491532	227.295	211.978	
11)	Endosulfa...	7.615	8.431f	997199	915003	5.674	3.481	
12)	4,4'-DDE	7.554	8.449	1125871	1539977	7.328	5.965	
13)	Dieldrin	7.782	8.609	1202272	4874947	6.125	16.411	#
14)	Endrin	7.961f	8.853	6488317	709383	42.468	3.467	#
15)	4,4'-DDD	7.961f	8.881	6488317	10160002	50.450	45.612	
16)	Endosulfa...	8.096	8.995	773999	1070003	5.066	4.520	
17)	4,4'-DDT	8.219f	9.116	2054409	369720	21.168	2.756	#
18)	Endrin Al...	8.405f	9.195f	215775	315898	1.805	1.609	
19)	Endosulfa...	8.688	9.397	414358	101027	2.771	0.249	#
20)	Methoxychlor	8.531	9.590	203359	86800	4.286	1.320	#
21)	Endrin Ke...	8.872	9.820	67499	477170	0.192	2.092	#
23)	Hexachlor...	3.188	0.000	6778	0	BelowCal	N.D.	
24)	Hexachlor...	5.738	6.536f	100583	127990	0.460	0.437	
25)	Oxychlordane	7.227	8.048	390382	905795	2.562	3.580	
26)	2,4'-DDE	7.315	8.248	2732359	71633044	25.342	376.662	#
27)	trans-Non...	7.496	8.311	42726140	54227685	237.695	192.212	
28)	2,4'-DDD	7.651f	8.609	3052153	4874947	31.042	28.754	
29)	2,4'-DDT	7.892f	8.853	906218	709383	9.366	5.246	#
30)	cis-Nonac...	7.961	8.881	6488317	10160002	31.509	31.729	
31)	Mirex	8.621	9.820	71577	477170	0.354	2.783	#
32)	Chlordane...	7.402	8.248	37463007	71633044	1960.720	2109.335	
33)	Chlordane...	7.496	8.356	42726140	59491532	1896.543	2059.468	
34)	Chlordane...	8.046	9.024	11394892	17435184	1996.294	1955.931	
35)	Chlordane...	3.775f	0.000	345758	0	NoCal	N.D.	
36)	Toxaphene...	7.496	8.609f	42726140	4874947	32416.120	2060.372	#
37)	Toxaphene...	7.782	8.936	1202272	1603078	756.620	541.245	
38)	Toxaphene...	8.096	8.974	773999	1315816	233.125	271.521	
39)	Toxaphene...	8.324	9.024	449711	17435184	136.460	2033.051	#
40)	Toxaphene...	8.531f	9.195	203359	315898	80.265	75.330	
41)	Toxaphene...	8.621	9.590	71577	86800	21.047	18.928	
42)	Toxaphene...	3.775f	0.000	345758	0	NoCal	N.D.	

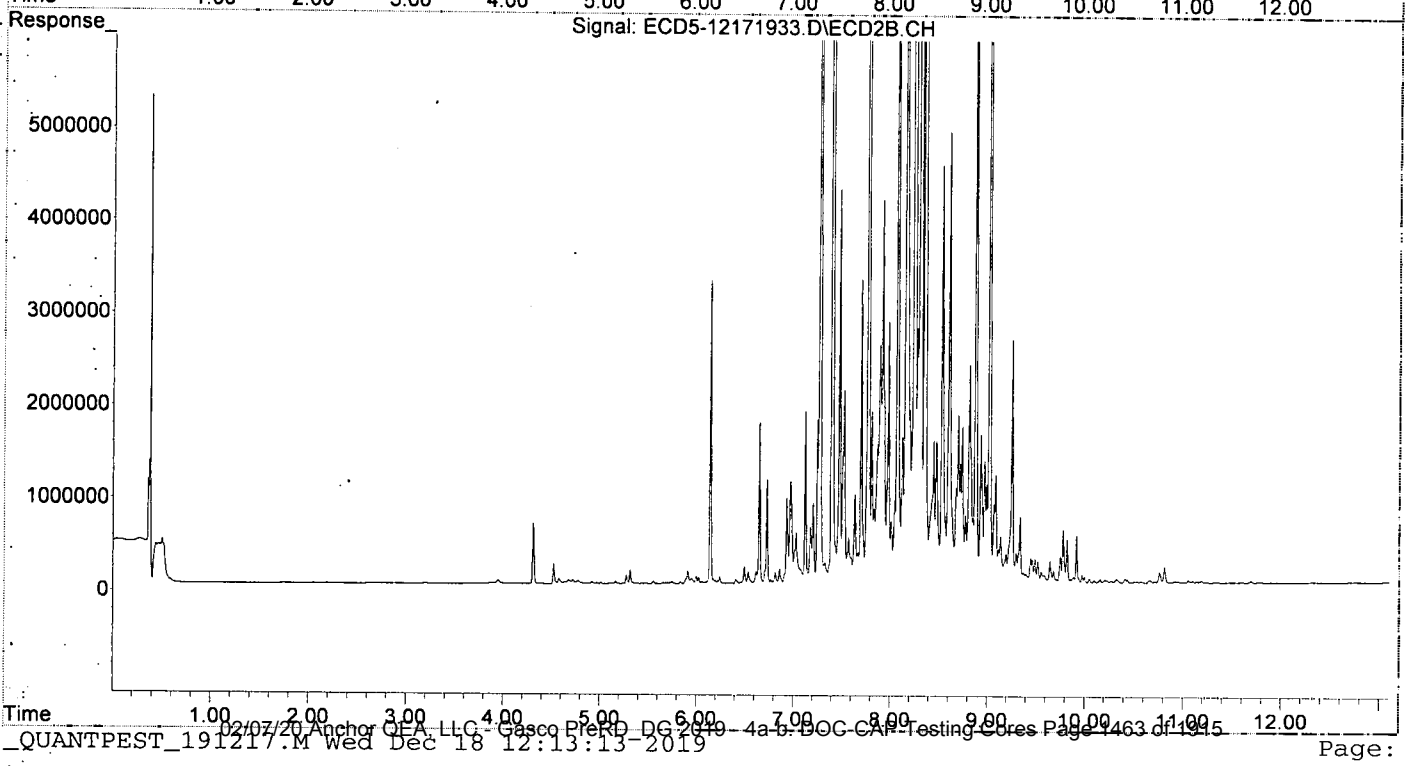
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171933.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 20:11
Operator : MJB
Sample : 9L17040-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: Dec 18 11:51:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:54:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

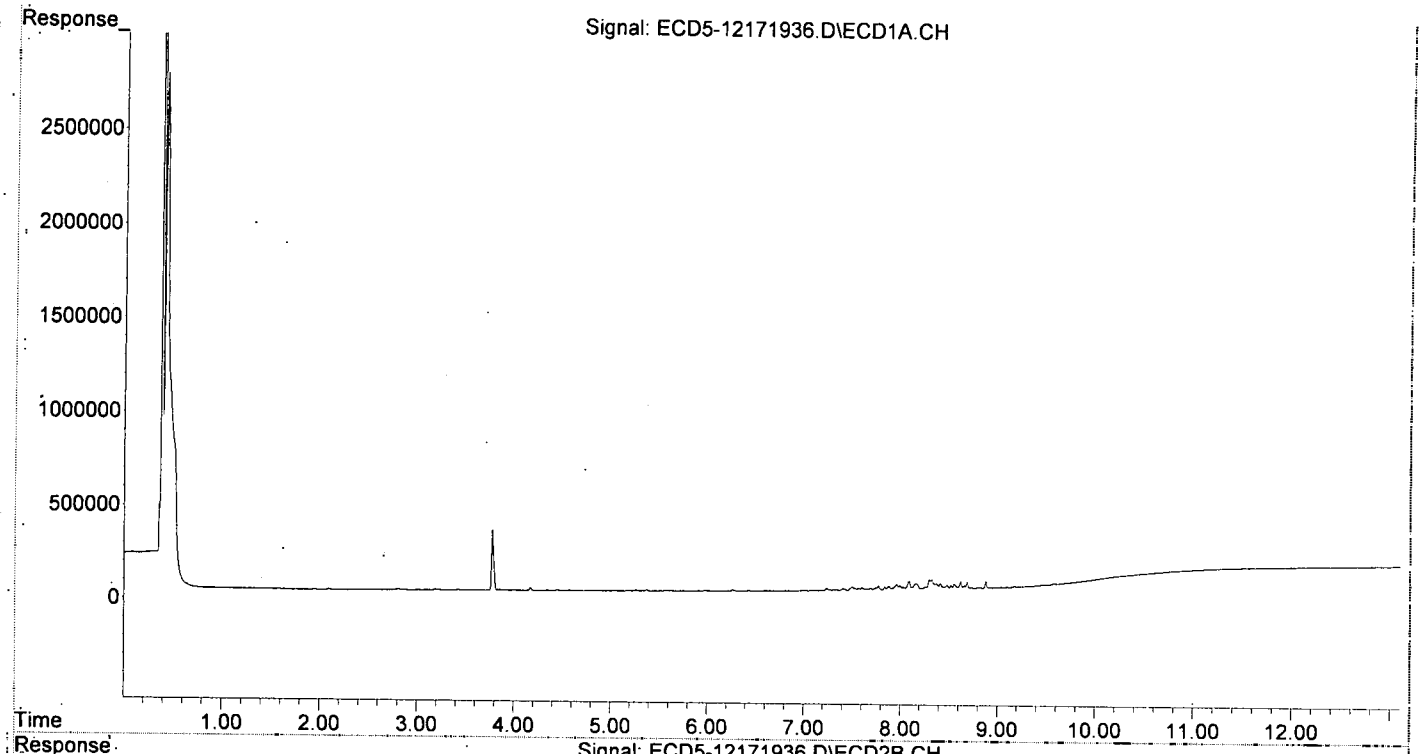
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.372	6.090	7026	15072	0.039	0.051	
22)	S	DCBP (S)	9.575	10.698	8534	7203	BelowCal	0.042	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.261	0.000	6387	0	0.090	N.D.	#
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	6.428	7.341	3692	8517	BelowCal	BelowCal	
7)		Aldrin	0.000	7.672	0	5000	N.D.	0.016	#
8)		Heptachlo...	7.310	8.105	5045	10666	0.028	0.037	
9)		trans-Chl...	7.404	8.249	10297	18230	0.057	0.062	
10)		cis-Chlor...	7.499	8.353	17726	10152	BelowCal	0.036	
11)		Endosulfa...	7.602	8.410	12972	13285	0.074	0.051	
12)		4,4'-DDE	7.566	8.458	10324	15649	0.067	0.006	#
13)		Dieldrin	7.771	8.607	21788	17536	0.111	0.059	#
14)		Endrin	7.960f	8.833	26676	29357	0.175	0.082	#
15)		4,4'-DDD	7.991	8.877	19791	44234	BelowCal	0.056	
16)		Endosulfa...	8.087	8.971	42682	55881	0.279	0.236	
17)		4,4'-DDT	8.162f	9.103	29561	37020	0.293	0.472	#
18)		Endrin Al...	8.373	9.217	26883	53623	0.225	0.273	
19)		Endosulfa...	8.686	9.415	35009	52085	BelowCal	BelowCal	
20)		Methoxychlor	8.521	9.599	17408	50601	0.429	0.825	#
21)		Endrin Ke...	8.880	9.819	36805	46048	BelowCal	0.014	
23)		Hexachlor...	3.189	0.000	5397	0	BelowCal	N.D.	
24)		Hexachlor...	0.000	6.572	0	6960	N.D.	0.024	#
25)		Oxychlordane	7.235	0.000	13320	0	BelowCal	N.D.	
26)		2,4'-DDE	7.310	8.249	5045	18230	0.047	0.096	#
27)		trans-Non...	7.499	8.294	17726	12082	0.099	0.043	#
28)		2,4'-DDD	7.691	8.607	11137	17536	0.113	0.103	
29)		2,4'-DDT	7.876	8.833	16625	29357	0.172	0.130	
30)		cis-Nonac...	7.960	8.877	26676	44234	0.130	0.138	
31)		Mirex	8.621	9.819	36879	46048	0.058	BelowCal	#
32)		Chlordane...	7.404	8.249	10297	18230	0.539	0.537	
33)		Chlordane...	7.499	8.353	17726	10152	0.787	0.351	#
34)		Chlordane...	8.026	9.025	11603	129540	2.033	3.007	#
35)		Chlordane...	3.775f	0.000	328683	0	NoCal	N.D.	
36)		Toxaphene...	7.486	8.571	12014	23414	11.595m	9.896	
37)		Toxaphene...	7.771	8.934	21788	29649	10.017	10.010	
38)		Toxaphene...	8.087	8.971	42682	55881	10.094	11.531	
39)		Toxaphene...	8.324	9.025	51692	129540	10.093	10.109	
40)		Toxaphene...	8.553	9.217	25387	53623	10.020	10.087	
41)		Toxaphene...	8.621	9.599	36879	50601	10.844	11.035	
42)		Toxaphene...	3.775f	0.000	328683	0	NoCal	N.D.	

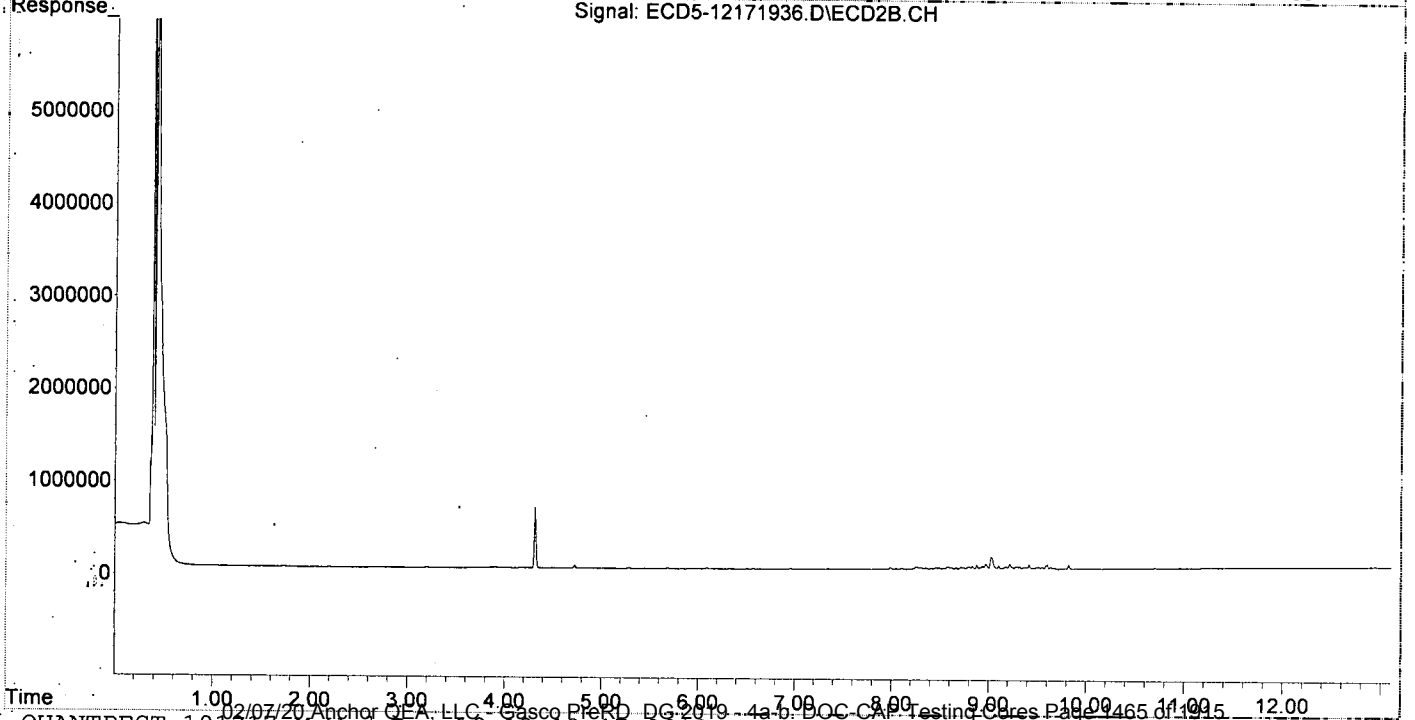
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:54:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

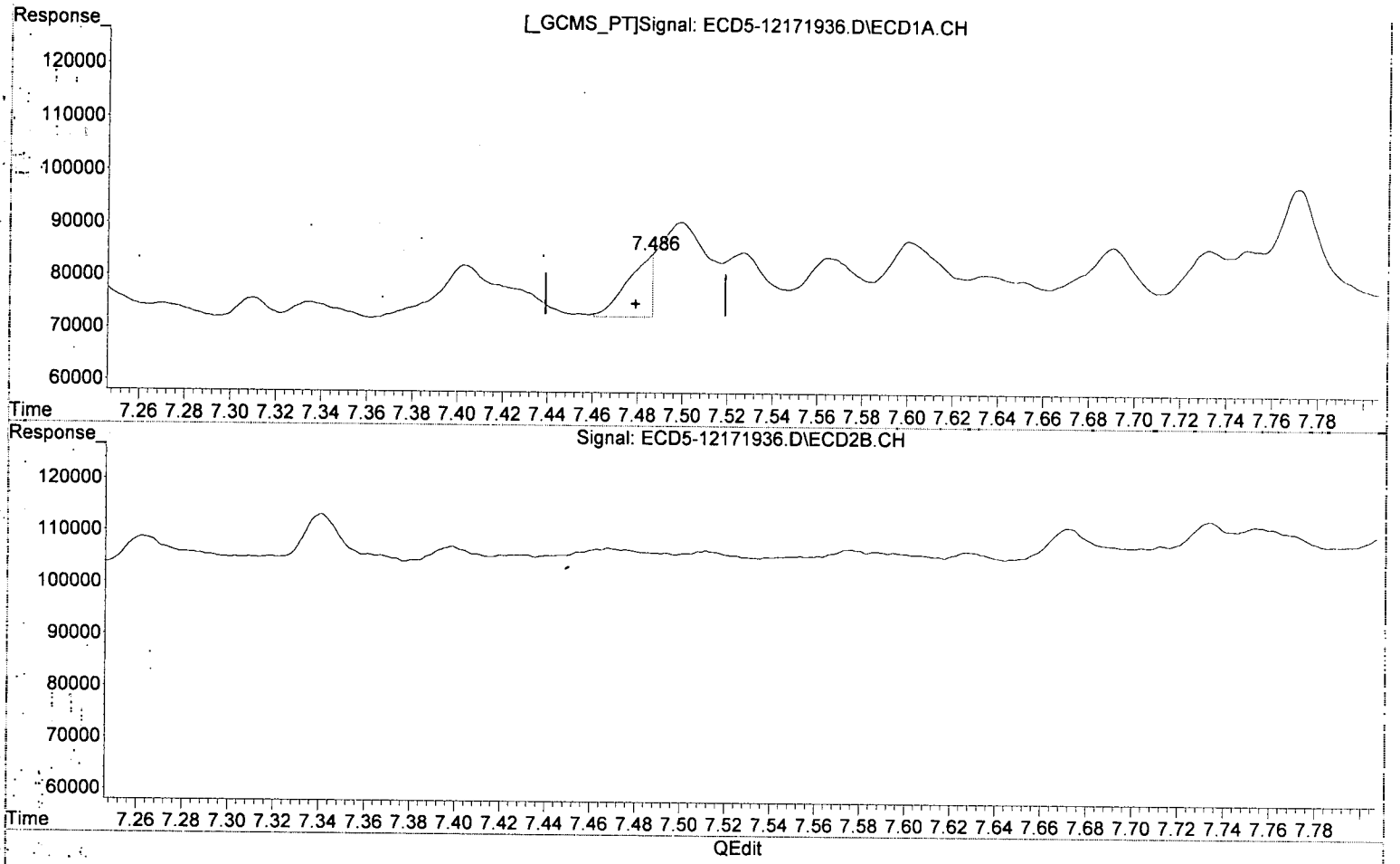




Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:53:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.486min 11.595 ng/mL m

response 12014

MJB 12/18/19

(36) Toxaphene (1) #2

8.571min 9.896 ng/mL

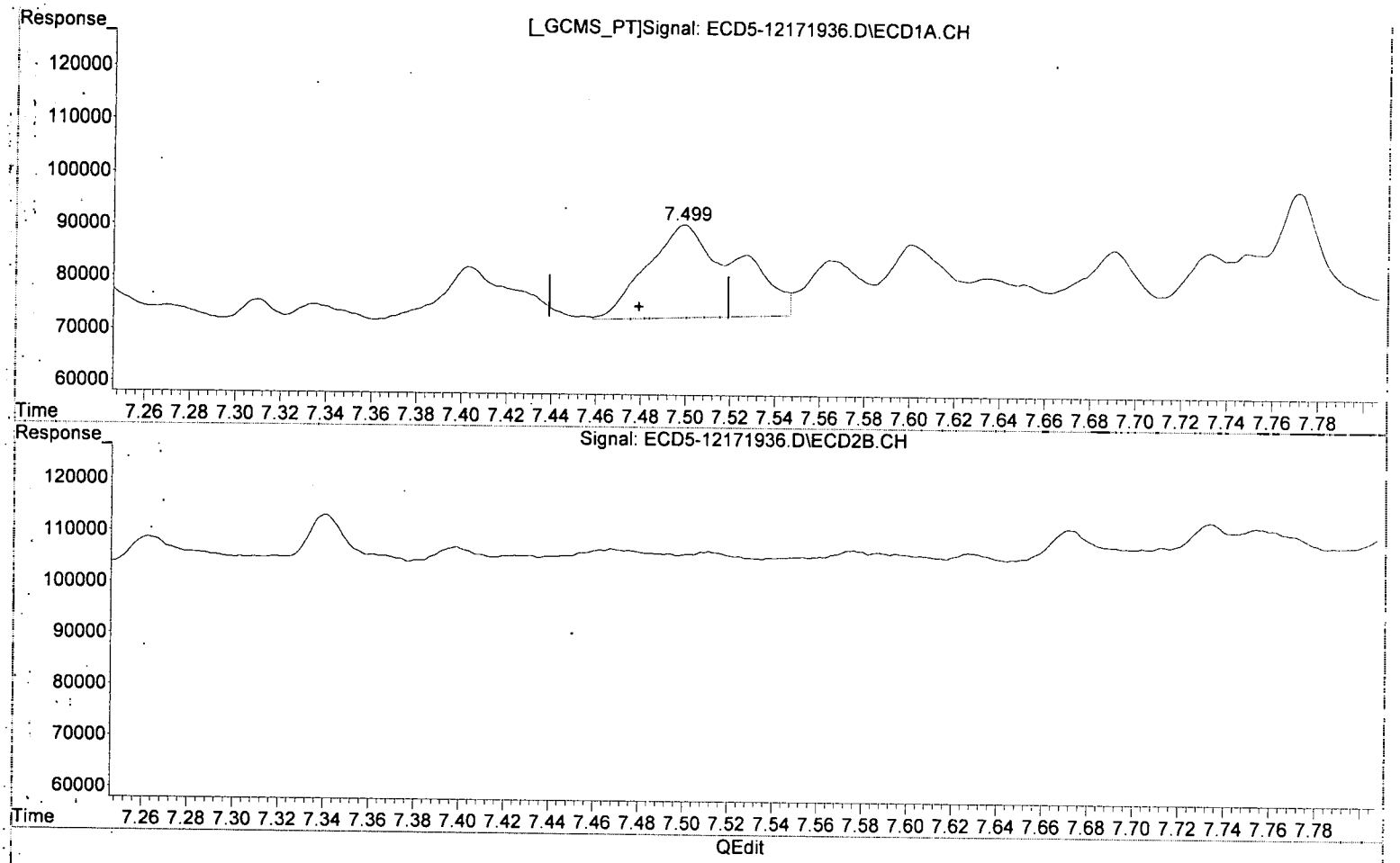
response 23414

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:53:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.499min 18.531 ng/mL

response 17726

MJB 12/19/19

(36) Toxaphene (1) #2

8.571min 9.896 ng/mL

response 23414

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:53:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJ MJB 12/18/19

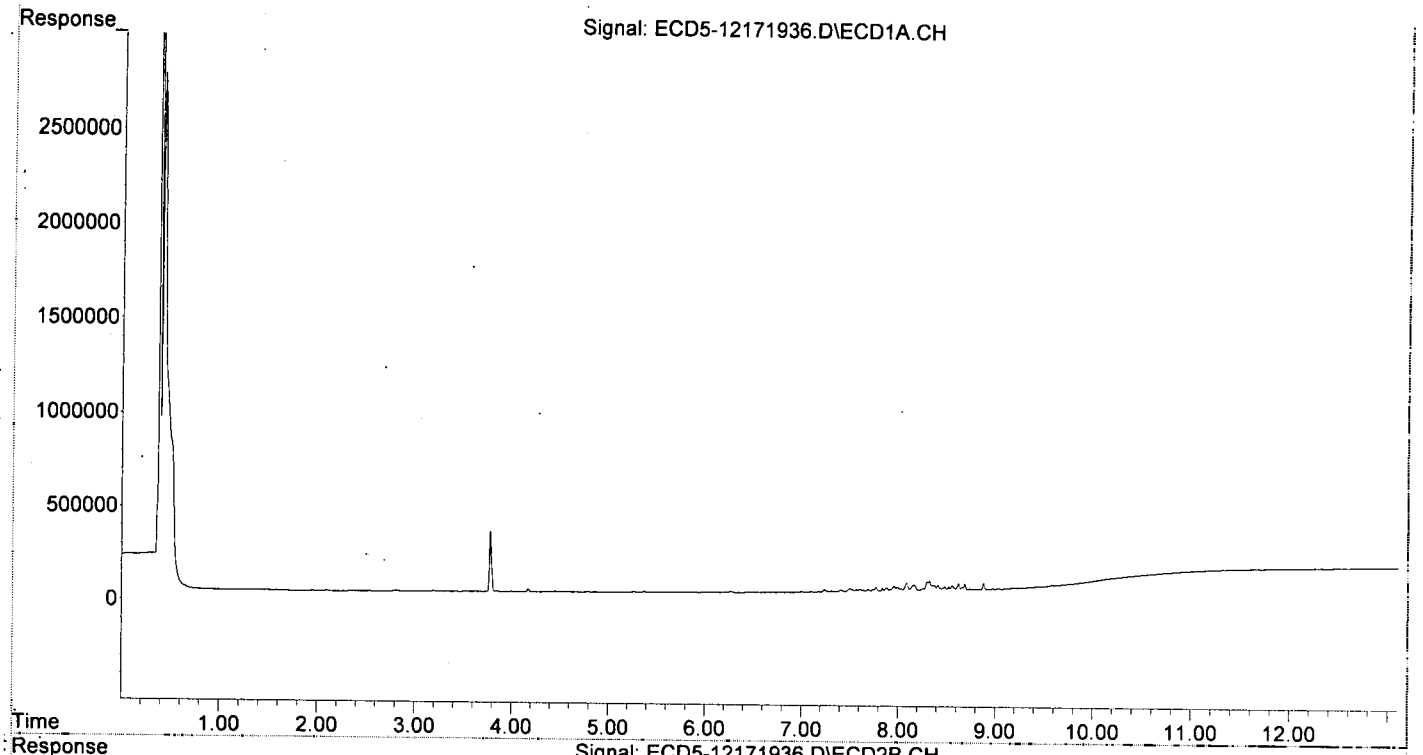
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.372	6.090	7026	15072	0.039	0.051	
22)	S	DCBP (S)	9.575	10.698	8534	7203	BelowCal	0.042	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.261	0.000	6387	0	0.090	N.D.	#
5)		Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)		d-BHC	6.428	7.341	3692	8517	BelowCal	BelowCal	
7)		Aldrin	0.000	7.672	0	5000	N.D.	0.016	#
8)		Heptachlo...	7.310	8.105	5045	10666	0.028	0.037	
9)		trans-Chl...	7.404	8.249	10297	18230	0.057	0.062	
10)		cis-Chlor...	7.499	8.353	17726	10152	BelowCal	0.036	
11)		Endosulfa...	7.602	8.410	12972	13285	0.074	0.051	
12)		4,4'-DDE	7.566	8.458	10324	15649	0.067	0.006	#
13)		Dieldrin	7.771	8.607	21788	17536	0.111	0.059	#
14)		Endrin	7.960f	8.833	26676	29357	0.175	0.082	#
15)		4,4'-DDD	7.991	8.877	19791	44234	BelowCal	0.056	
16)		Endosulfa...	8.087	8.971	42682	55881	0.279	0.236	
17)		4,4'-DDT	8.162f	9.103	29561	37020	0.293	0.472	#
18)		Endrin Al...	8.373	9.217	26883	53623	0.225	0.273	
19)		Endosulfa...	8.686	9.415	35009	52085	BelowCal	BelowCal	
20)		Methoxychlor	8.521	9.599	17408	50601	0.429	0.825	#
21)		Endrin Ke...	8.880	9.819	36805	46048	BelowCal	0.014	
23)		Hexachlor...	3.189	0.000	5397	0	BelowCal	N.D.	
24)		Hexachlor...	0.000	6.572	0	6960	N.D.	0.024	#
25)		Oxychlordane	7.235	0.000	13320	0	BelowCal	N.D.	
26)		2,4'-DDE	7.310	8.249	5045	18230	0.047	0.096	#
27)		trans-Non...	7.499	8.294	17726	12082	0.099	0.043	#
28)		2,4'-DDD	7.691	8.607	11137	17536	0.113	0.103	
29)		2,4'-DDT	7.876	8.833	16625	29357	0.172	0.130	
30)		cis-Nonac...	7.960	8.877	26676	44234	0.130	0.138	
31)		Mirex	8.621	9.819	36879	46048	0.058	BelowCal	#
32)		Chlordane...	7.404	8.249	10297	18230	0.539	0.537	
33)		Chlordane...	7.499	8.353	17726	10152	0.787	0.351	#
34)		Chlordane...	8.026	9.025	11603	129540	2.033	3.007	#
35)		Chlordane...	3.775f	0.000	328683	0	NoCal	N.D.	
36)		Toxaphene...	7.499f	8.571	17726	23414	18.531	9.896	#
37)		Toxaphene...	7.771	8.934	21788	29649	10.017	10.010	
38)		Toxaphene...	8.087	8.971	42682	55881	10.094	11.531	
39)		Toxaphene...	8.324	9.025	51692	129540	10.093	10.109	
40)		Toxaphene...	8.553	9.217	25387	53623	10.020	10.087	
41)		Toxaphene...	8.621	9.599	36879	50601	10.844	11.035	
42)		Toxaphene...	3.775f	0.000	328683	0	NoCal	N.D.	

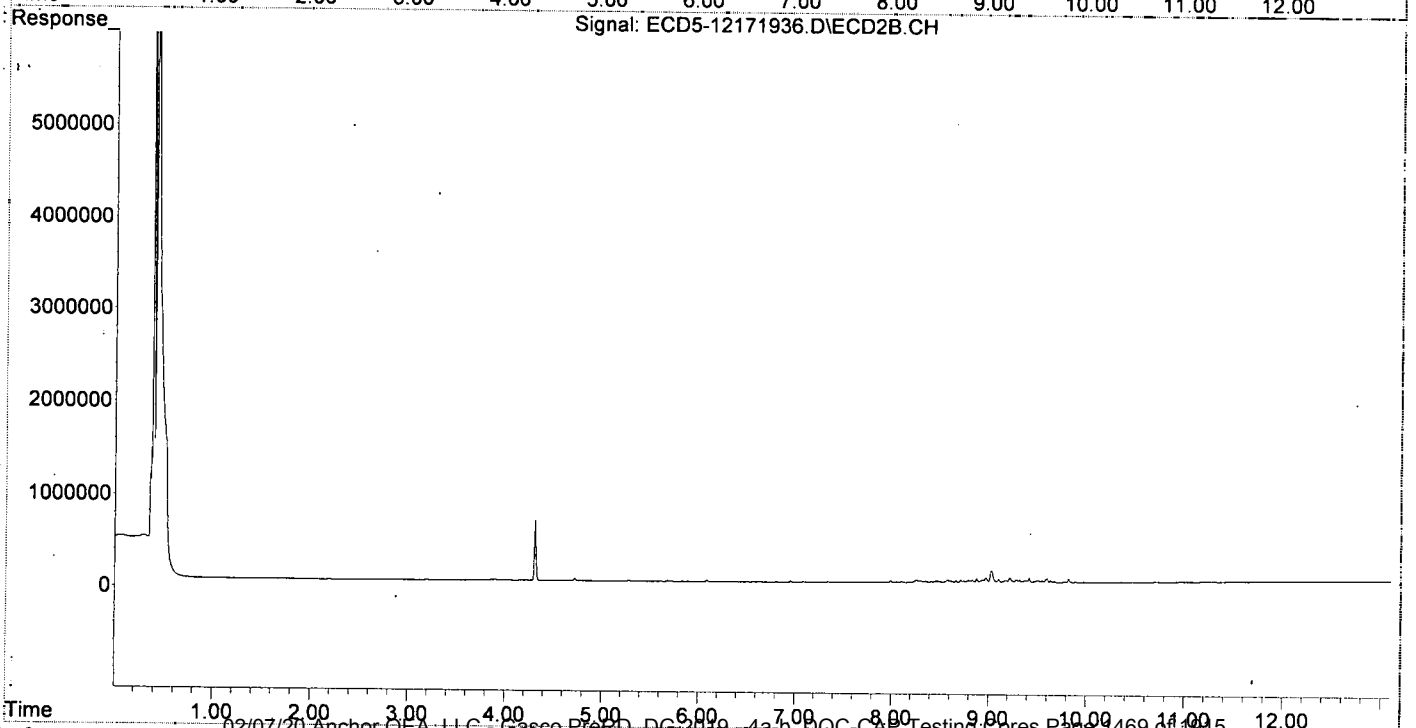
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:53:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:19
Operator : MJB
Sample : 9L17040-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: Dec 18 11:54:23 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

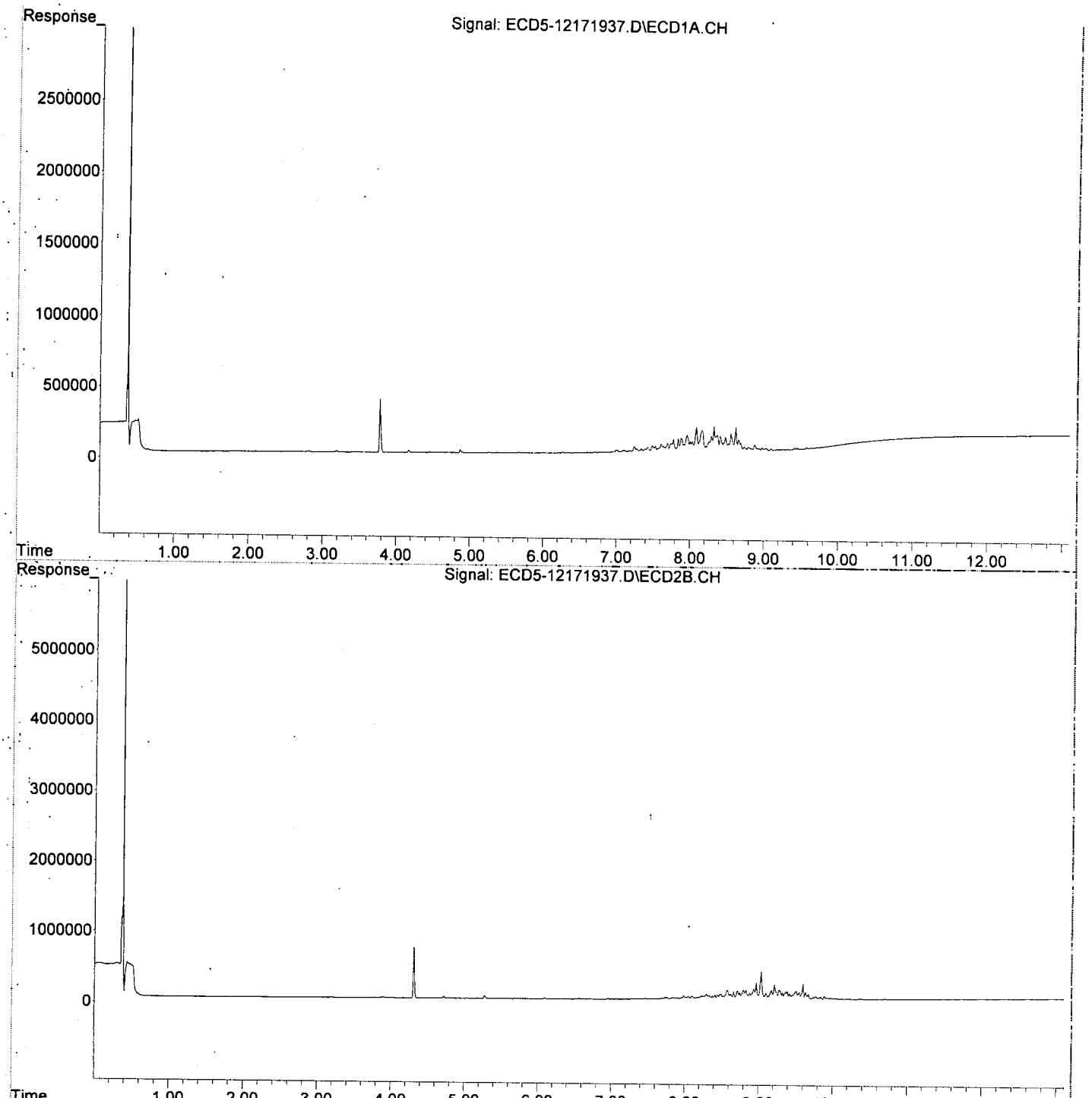
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.372	6.092	3955	18165	0.022	0.061	#
22)	S	DCBP (S)	9.574	10.698	8659	9011	BelowCal	0.053	
		Target Compounds							
2)		a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)		g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)		b-BHC	6.260	0.000	7763	0	0.109	N.D.	#
5)		Heptachlor	6.603	0.000	3709	0	0.020	N.D.	#
6)		d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)		Aldrin	6.847	7.675	5022	9271	0.026	0.030	
8)		Heptachlo...	7.313	8.101	15221	43356	0.085	0.151	#
9)		trans-Chl...	7.387	8.229f	22587	50416	0.125	0.173	
10)		cis-Chlor...	7.481	8.336f	43186	48575	0.072	0.173	#
11)		Endosulfa...	7.605	8.412	53752	63789	0.306	0.243	
12)		4,4'-DDE	7.527f	8.477	42637	74214	0.278	0.237	
13)		Dieldrin	7.772	8.625	86970	77191	0.443	0.260	#
14)		Endrin	7.914f	8.831	54364	132814	0.356	0.600	#
15)		4,4'-DDD	8.000	8.883	71345	90678	0.423	0.283	
16)		Endosulfa...	8.084	8.971	169447	237276	1.109	1.002	
17)		4,4'-DDT	8.164	9.103	143985	94959	1.547	0.873	#
18)		Endrin Al...	8.371	9.215	112958	211169	0.945	1.076	
19)		Endosulfa...	8.687	9.419	55452	86236	0.121	0.171	#
20)		Methoxychlor	8.522	9.600	51411	219274	1.139	3.118	#
21)		Endrin Ke...	8.873	9.821	37935	23550	0.005	BelowCal	#
23)		Hexachlor...	3.188	0.000	7763	0	BelowCal	N.D.	
24)		Hexachlor...	5.754	6.564	3480	8518	BelowCal	0.029	
25)		Oxychlordane	7.238	8.049	41501	43950	0.100	0.174	#
26)		2,4'-DDE	7.313	8.229	15221	50416	0.141	0.265	#
27)		trans-Non...	7.481	8.320	43186	52726	0.240	0.187	
28)		2,4'-DDD	7.691	8.625	60136	77191	0.612	0.455	
29)		2,4'-DDT	7.876	8.831	93446	132814	0.966	0.917	
30)		cis-Nonac...	7.959	8.883	111414	90678	0.541	0.283	#
31)		Mirex	8.620	9.821	164084	23550	1.141	BelowCal	#
32)		Chlordane...	7.387	8.229	22587	50416	1.182	1.485	
33)		Chlordane...	7.481	8.336	43186	48575	1.917	1.682	
34)		Chlordane...	8.026f	9.038	69714	398861	12.213	37.766	#
35)		Chlordane...	3.775f	0.000	378480	0	NoCal	N.D.	
36)		Toxaphene...	7.481	8.573	43186	128672	49.430	54.383	
37)		Toxaphene...	7.772	8.934	86970	147486	50.872	49.795	
38)		Toxaphene...	8.084	8.971	169447	237276	49.165	48.962	
39)		Toxaphene...	8.324	9.038	174601	398861	49.286	48.927	
40)		Toxaphene...	8.553	9.215	120319	211169	47.489	49.362	
41)		Toxaphene...	8.620	9.600	164084	219274	48.250	47.817	
42)		Toxaphene...	3.775f	0.000	378480	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:19
Operator : MJB
Sample : 9L17040-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: Dec 18 11:54:23 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:37
Operator : MJB
Sample : 9L17040-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: Dec 18 11:54:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

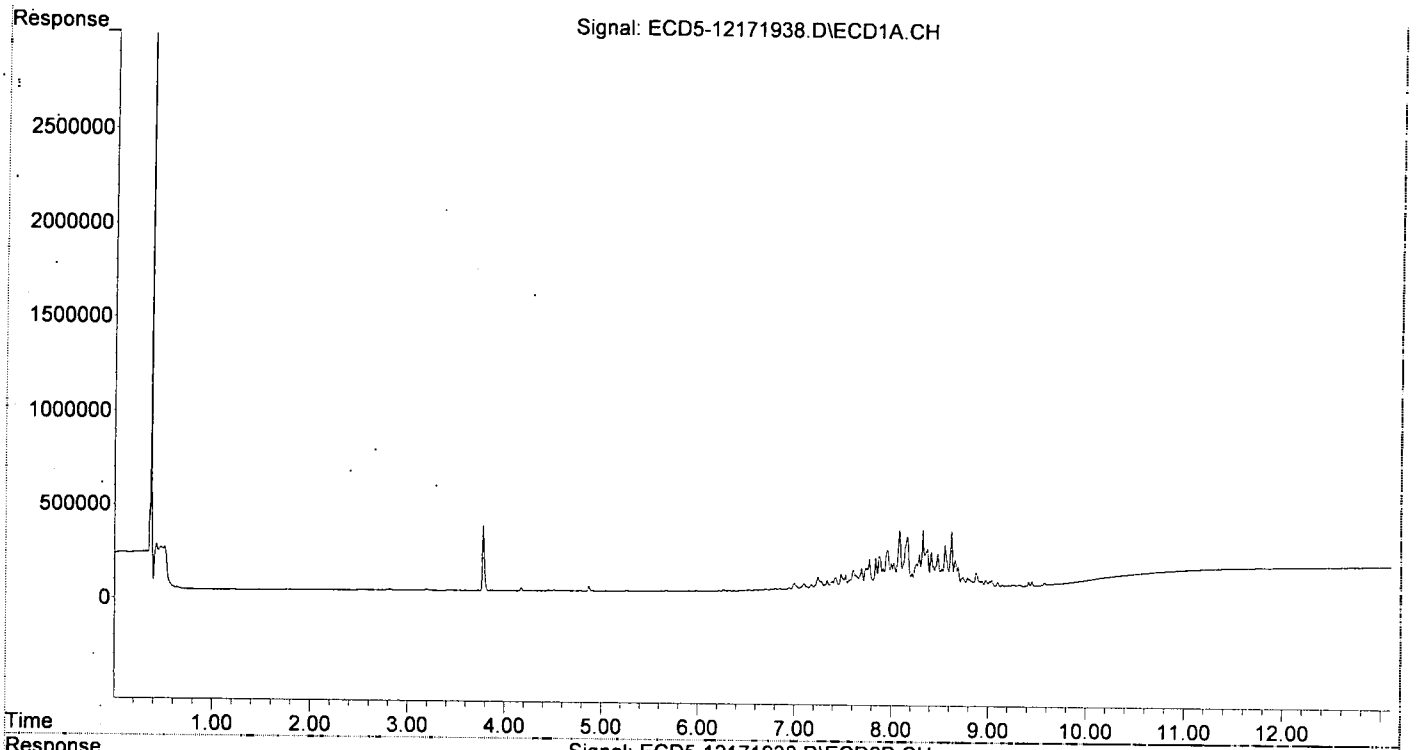
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.092	0	9366	N.D.	0.032	#
22)	S DCBP (S)	9.574	10.698	13654	12039	BelowCal	0.071	
	Target Compounds							
2)	a-BHC	5.908	0.000	2672	0	0.011	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.260	7.072	8599	5813	0.121	0.042	#
5)	Heptachlor	6.600	7.365f	6310	13595	0.034	0.045	
6)	d-BHC	6.443	7.340	4276	12866	BelowCal	0.000	
7)	Aldrin	6.846	7.674	10756	24541	0.057	0.079	
8)	Heptachlo...	7.335f	8.100	50335	84880	0.280	0.296	
9)	trans-Chl...	7.387	8.253	45184	68805	0.251	0.236	
10)	cis-Chlor...	7.479f	8.379f	80067	94690	0.295	0.337	
11)	Endosulfa...	7.605	8.411	100319	120110	0.571	0.457	
12)	4,4'-DDE	7.527f	8.478	75698	139765	0.493	0.496	
13)	Dieldrin	7.772	8.625	157767	144356	0.804	0.486	
14)	Endrin	7.913f	8.831	106571	244816	0.698	1.159	#
15)	4,4'-DDD	7.999	8.883	135074	165563	0.956	0.648	
16)	Endosulfa...	8.084	8.971	312683	428254	2.046	1.809	
17)	4,4'-DDT	8.164	9.102	274406	175554	2.965	1.427	#
18)	Endrin Al...	8.370	9.214	208561	389038	1.745	1.982	
19)	Endosulfa...	8.688	9.419	107569	164633	0.506	0.585	
20)	Methoxychlor	8.522	9.600	100273	401640	2.156	5.567	#
21)	Endrin Ke...	8.873	9.841f	75247	71735	0.240	0.138	#
23)	Hexachlor...	3.187	0.000	7198	0	BelowCal	N.D.	
24)	Hexachlor...	0.000	6.572	0	6360	N.D.	0.022	#
25)	Oxychlordane	7.238	8.049	68134	86524	0.288	0.342	
26)	2,4'-DDE	7.335f	8.227	50335	96423	0.467	0.507	
27)	trans-Non...	7.479	8.321	80067	100720	0.445	0.357	
28)	2,4'-DDD	7.691	8.625	109358	144356	1.112	0.851	
29)	2,4'-DDT	7.876	8.831	171819	244816	1.776	1.764	
30)	cis-Nonac...	7.958	8.883	205142	165563	0.996	0.517	#
31)	Mirex	8.620	9.841f	297316	71735	2.275	0.101	#
32)	Chlordane...	7.387	8.253	45184	68805	2.365	2.026	
33)	Chlordane...	7.479	8.335f	80067	95714	3.554	3.313	
34)	Chlordane...	8.025f	9.038	134344	706770	23.536	77.285	#
35)	Chlordane...	3.775f	0.000	348609	0	NoCal	N.D.	
36)	Toxaphene...	7.479	8.571	80067	229034	94.126	96.800	
37)	Toxaphene...	7.772	8.934	157767	275229	95.294	92.925	
38)	Toxaphene...	8.084	8.971	312683	428254	93.102	88.371	
39)	Toxaphene...	8.324	9.038	311105	706770	92.635	92.879	
40)	Toxaphene...	8.552	9.214	225090	389038	88.842	93.400	
41)	Toxaphene...	8.620	9.600	297316	401640	87.427	87.586	
42)	Toxaphene...	3.775f	0.000	348609	0	NoCal	N.D.	

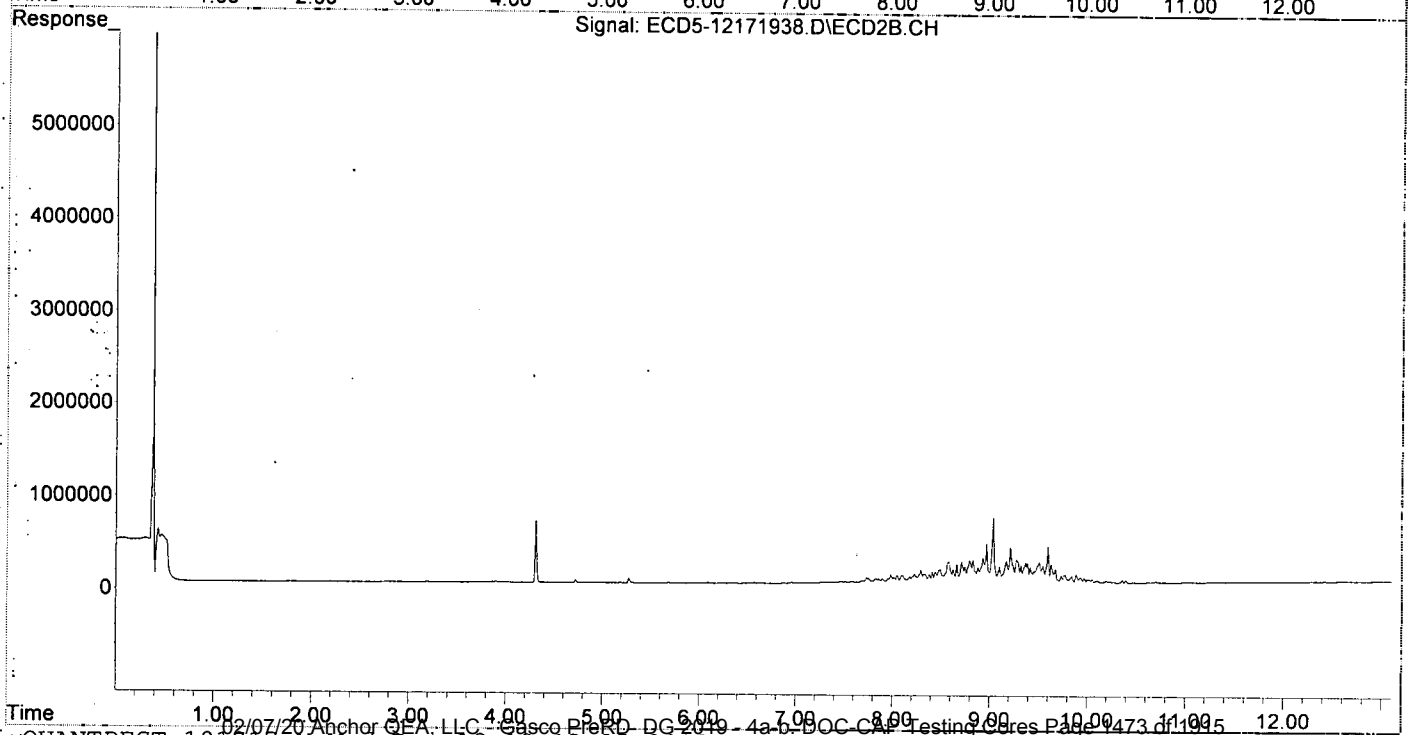
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:37
Operator : MJB
Sample : 9L17040-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: Dec 18 11:54:42 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:54
Operator : MJB
Sample : 9L17040-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: Dec 18 11:54:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

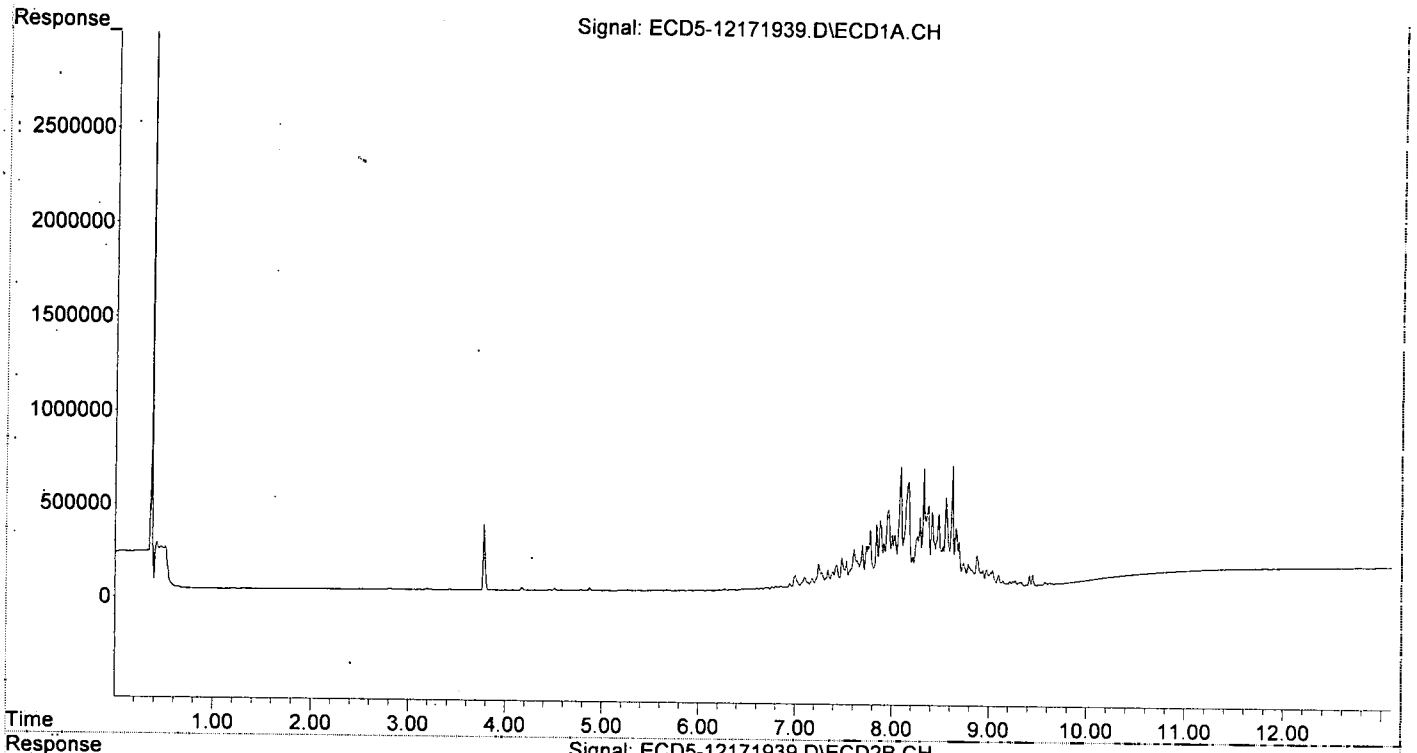
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.095	0	11761	N.D.	0.040	#
22)	S	DCBP (S)	9.574	10.700	14219	10652	BelowCal	0.063	
		Target Compounds							
2)		a-BHC	5.910	0.000	3801	0	0.016	N.D.	#
3)		g-BHC	6.216	7.011	3959	5526	0.019	0.016	
4)		b-BHC	6.263	7.074	9799	7827	0.138	0.056	#
5)		Heptachlor	6.605	7.403	10161	6282	0.055	0.021	#
6)		d-BHC	6.445f	7.342	6777	6359	0.015	BelowCal	#
7)		Aldrin	6.848	7.694f	20735	35072	0.109	0.113	
8)		Heptachlo...	7.337f	8.103	100853	153742	0.561	0.537	
9)		trans-Chl...	7.388	8.229	91806	177754	0.509	0.609	
10)		cis-Chlor...	7.481	8.337	164218	173480	0.803	0.618	
11)		Endosulfa...	7.608	8.413	206025	227109	1.172	0.864	
12)		4,4'-DDE	7.529f	8.443	147740	231832	0.962	0.859	
13)		Dieldrin	7.774	8.627	313963	279355	1.600	0.940	#
14)		Endrin	7.915	8.833	239763	509180	1.569	2.475	#
15)		4,4'-DDD	8.002	8.886	281331	335843	2.178	1.476	
16)		Endosulfa...	8.086	8.973	650087	886273	4.255	3.743	
17)		4,4'-DDT	8.167	9.104	562638	353172	6.053	2.643	#
18)		Endrin Al...	8.372	9.216	436416	801152	3.651	4.081	
19)		Endosulfa...	8.690	9.420	238692	338941	1.475	1.501	
20)		Methoxychlor	8.555f	9.601	479364	831435	9.899	11.221	
21)		Endrin Ke...	8.874	9.843f	162495	157566	0.791	0.553	
23)		Hexachlor...	3.190	0.000	5985	0	BelowCal	N.D.	
24)		Hexachlor...	0.000	6.574	0	6539	N.D.	0.022	#
25)		Oxychlordane	7.241	8.051	134428	148411	0.757	0.587	
26)		2,4'-DDE	7.337f	8.229	100853	177754	0.935	0.935	
27)		trans-Non...	7.481	8.323	164218	181127	0.914	0.642	
28)		2,4'-DDD	7.693	8.627	230080	279355	2.340	1.648	
29)		2,4'-DDT	7.877	8.833	360886	509180	3.730	3.752	
30)		cis-Nonac...	7.960	8.886	418150	335843	2.031	1.049	#
31)		Mirex	8.621	9.843f	648214	157566	5.258	0.670	#
32)		Chlordane...	7.388	8.229	91806	177754	4.805	5.234	
33)		Chlordane...	7.481	8.337	164218	173480	7.289	6.006	
34)		Chlordane...	8.027	9.040	281663	1426570	49.345	168.777	#
35)		Chlordane...	3.777f	0.000	348362	0	NoCal	N.D.	
36)		Toxaphene...	7.481	8.574	164218	444807	195.834	187.996	
37)		Toxaphene...	7.774	8.936	313963	558833	193.480	188.678	
38)		Toxaphene...	8.086	8.973	650087	886273	195.732	182.884	
39)		Toxaphene...	8.326	9.040	639287	1426570	196.096	193.924	
40)		Toxaphene...	8.555	9.216	479364	801152	189.202	194.230	
41)		Toxaphene...	8.621	9.601	648214	831435	190.610	181.311	
42)		Toxaphene...	3.777f	0.000	348362	0	NoCal	N.D.	

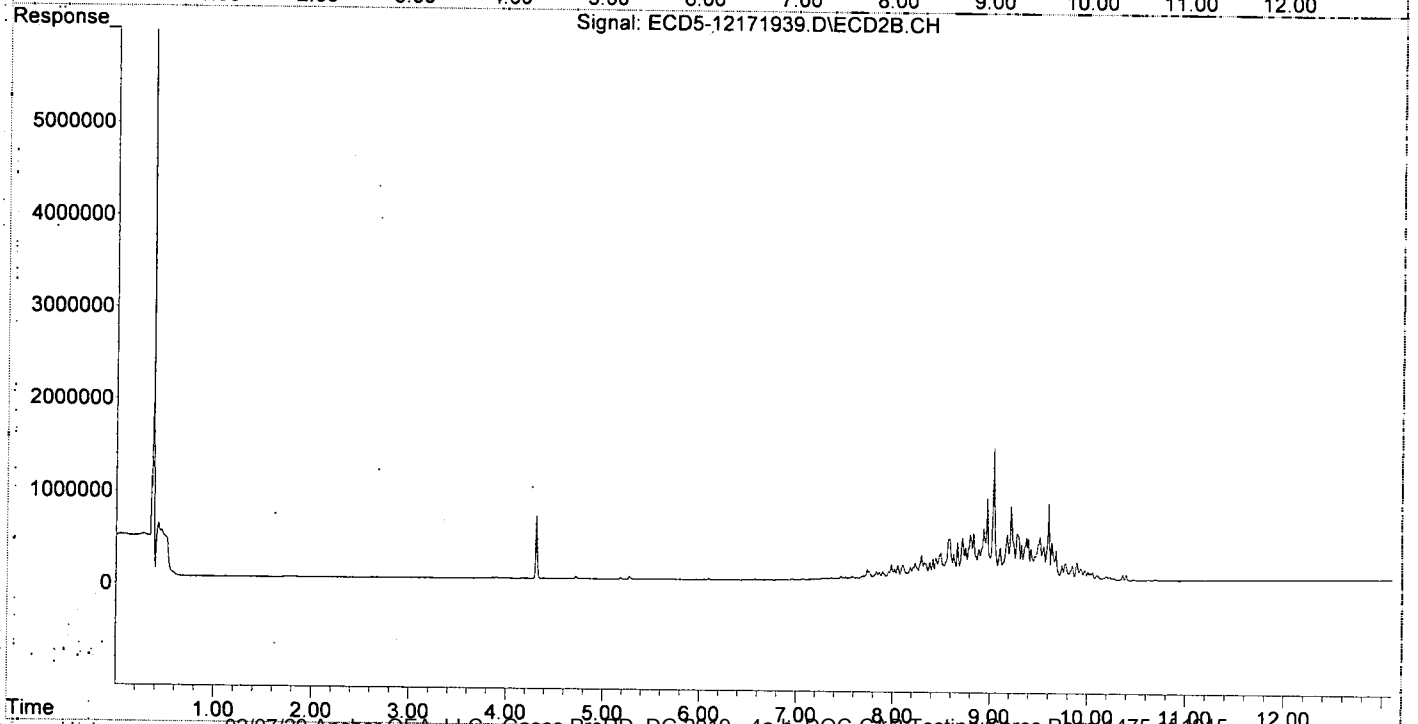
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:54
Operator : MJB
Sample : 9L17040-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: Dec 18 11:54:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 22:11
Operator : MJB
Sample : 9L17040-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: Dec 18 11:55:06 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

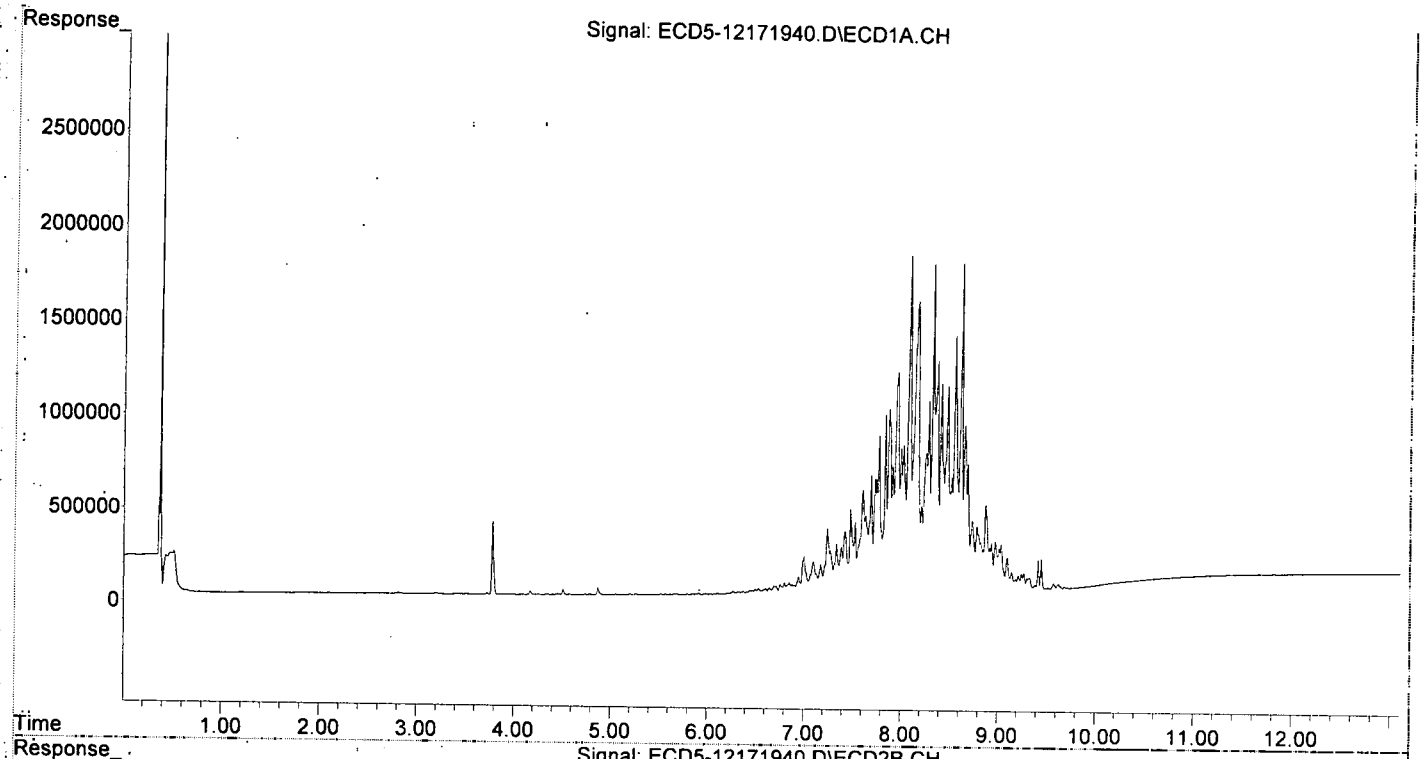
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds									
1)	S	TCMX (S)	0.000	6.094	0	10542	N.D.	0.036	#
22)	S	DCBP (S)	9.572	10.682	28326	33732	0.000	0.198	#
Target Compounds									
2)		a-BHC	5.911	6.702	7253	7023	0.030	0.018	#
3)		g-BHC	6.209	7.010	4928	24387	0.024	0.072	#
4)		b-BHC	6.265	7.073	15086	27644	0.213	0.199	
5)		Heptachlor	6.605	7.402	25392	52289	0.138	0.175	
6)		d-BHC	6.443f	7.341	17440	46976	0.092	0.122	
7)		Aldrin	6.847	7.693f	55394	116169	0.292	0.374	
8)		Heptachlo...	7.336f	8.101	259906	413500	1.447	1.444	
9)		trans-Chl...	7.387	8.229	242914	475980	1.347	1.632	
10)		cis-Chlor...	7.480f	8.380f	446153	483644	2.504	1.723	
11)		Endosulfa...	7.606	8.413	546360	595461	3.109	2.265	
12)		4,4'-DDE	7.528f	8.443	376510	619780	2.451	2.383	
13)		Dieldrin	7.772	8.626	834152	744587	4.250	2.507	#
14)		Endrin	7.914f	8.832	664038	1428301	4.346	7.002	#
15)		4,4'-DDD	8.000	8.885	763616	952751	6.174	4.455	
16)		Endosulfa...	8.084	8.973	1800554	2437265	11.785	10.295	
17)		4,4'-DDT	8.165	9.104	1543360	975934	16.141	6.834	#
18)		Endrin Al...	8.372	9.216	1229156	2247085	10.283	11.447	
19)		Endosulfa...	8.689	9.420	674266	953017	4.684	4.705	
20)		Methoxychlor	8.553f	9.601	1349675	2386841	26.797	30.479	
21)		Endrin Ke...	8.874	9.843f	451417	457643	2.612	1.998	
23)		Hexachlor...	3.190f	0.000	7312	0	BelowCal	N.D.	
24)		Hexachlor...	5.792f	6.572	3815	9428	BelowCal	0.032	
25)		Oxychlordane	7.241	8.050	339395	391174	2.203	1.546	
26)		2,4'-DDE	7.336f	8.229	259906	475980	2.411	2.503	
27)		trans-Non...	7.480	8.323	446153	478819	2.482	1.697	
28)		2,4'-DDD	7.691	8.626	625854	744587	6.365	4.392	
29)		2,4'-DDT	7.876	8.832	979502	1428301	10.123	10.526	
30)		cis-Nonac...	7.960	8.885	1171430	952751	5.689	2.975	#
31)		Mirex	8.620	9.843f	1757897	457643	14.669	2.654	#
32)		Chlordane...	7.387	8.229	242914	475980	12.714	14.016	
33)		Chlordane...	7.480	8.380f	446153	483644	19.804	16.743	
34)		Chlordane...	8.024f	9.040	782652	4002260	137.114	486.570	#
35)		Chlordane...	3.722	0.000	6482	0	NoCal	N.D.	
36)		Toxaphene...	7.480	8.573	446153	1215226	533.846	513.609	
37)		Toxaphene...	7.772	8.935	834152	1537752	522.261	519.189	
38)		Toxaphene...	8.084	8.973	1800554	2437265	537.031	502.934	
39)		Toxaphene...	8.325	9.040	1745633	4002260	537.369	537.978	
40)		Toxaphene...	8.553	9.216	1349675	2247085	532.710	535.718	
41)		Toxaphene...	8.620	9.601	1757897	2386841	516.917	520.498	
42)		Toxaphene...	3.722	0.000	6482	0	NoCal	N.D.	

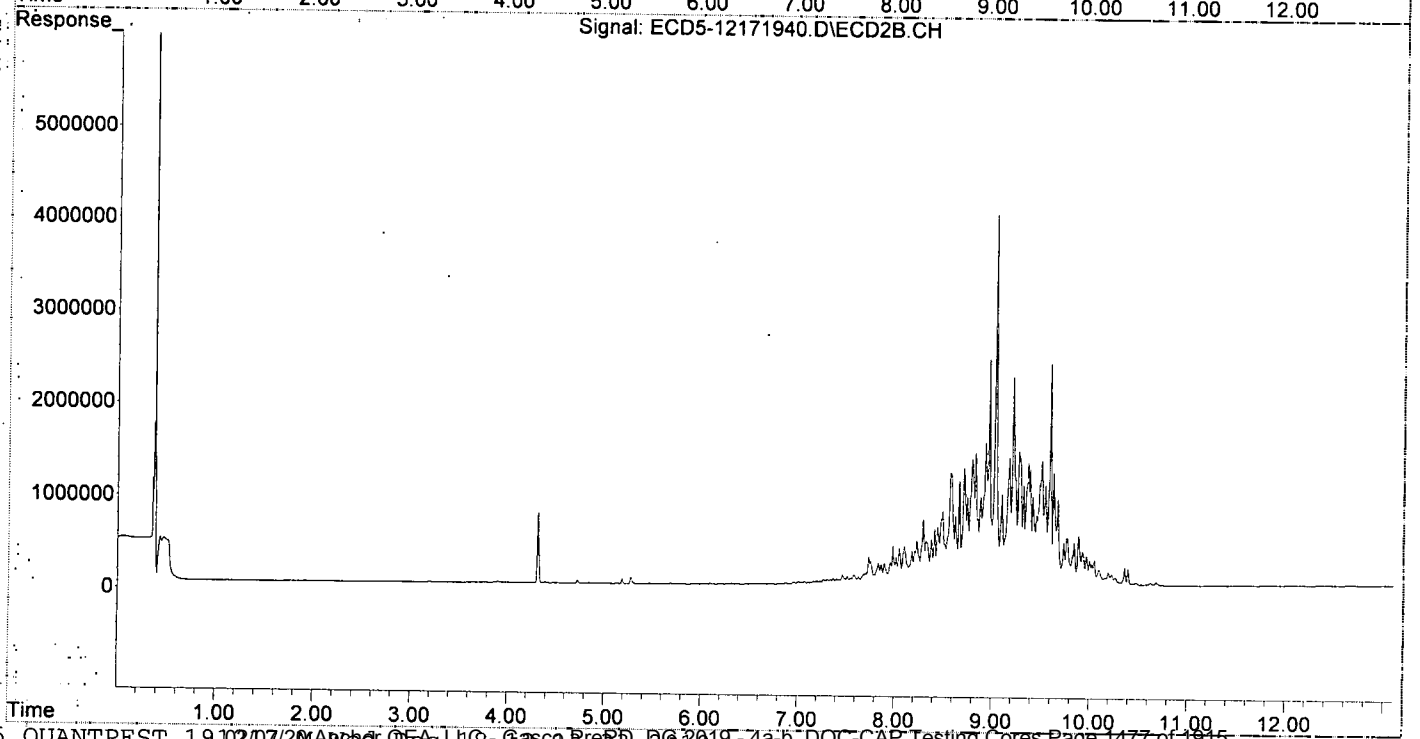
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 22:11
Operator : MJB
Sample : 9L17040-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: Dec 18 11:55:06 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 22:28
Operator : MJB
Sample : 9L17040-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: Dec 18 11:55:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

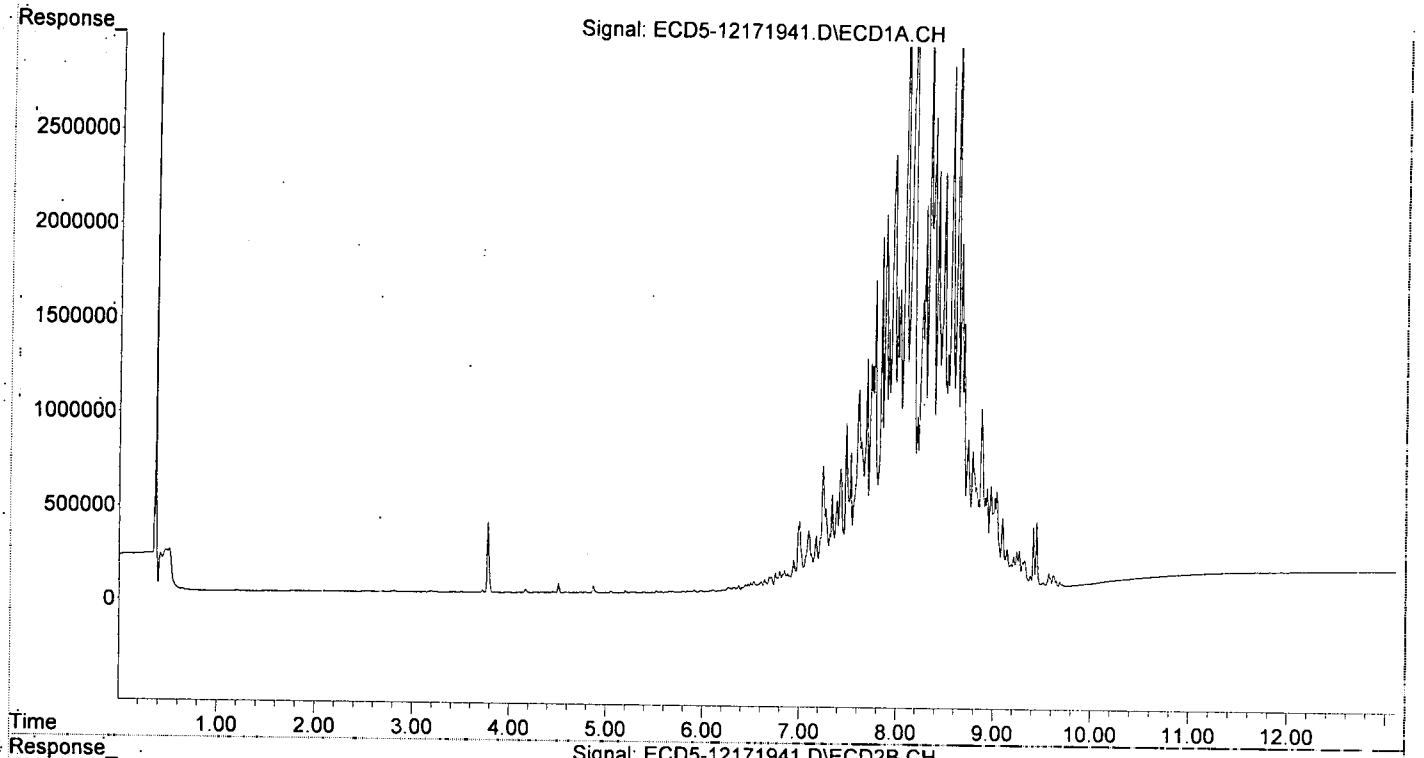
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.389	6.092	3360	14796	0.019	0.050	#
22)	S DCBP (S)	9.570	10.679f	67736	83798	0.298	0.492	#
	Target Compounds							
2)	a-BHC	5.910	6.700	12258	18805	0.051	0.047	
3)	g-BHC	6.205	7.009	11121	57447	0.055	0.170	#
4)	b-BHC	6.265	7.072	25538	63999	0.360	0.462	
5)	Heptachlor	6.604	7.401	50867	103252	0.277	0.345	
6)	d-BHC	6.406	7.339	23454	92871	0.136	0.286	#
7)	Aldrin	6.846	7.692f	107715	219823	0.567	0.708	
8)	Heptachlo...	7.334f	8.101	507335	805169	2.824	2.812	
9)	trans-Chl...	7.385	8.226f	477931	955742	2.651	3.277	
10)	cis-Chlor...	7.478f	8.378f	884818	961114	5.143	3.425	
11)	Endosulfa...	7.604	8.411	1071460	1158558	6.097	4.408	
12)	4,4'-DDE	7.526f	8.477	732488	1435593	4.768	5.561	
13)	Dieldrin	7.771	8.624	1653145	1493350	8.422	5.027	#
14)	Endrin	7.912f	8.831	1393228	2976836	9.119	14.470	#
15)	4,4'-DDD	7.999	8.883	1566831	1914334	12.727	9.036	
16)	Endosulfa...	8.083	8.971	3651132	5086202	23.897	21.483	
17)	4,4'-DDT	8.164	9.103	3185707	2037188	31.813	13.735	#
18)	Endrin Al...	8.370	9.214	2493393	4626107	20.859	23.567	
19)	Endosulfa...	8.687	9.419	1414865	1999508	10.104	10.085	
20)	Methoxychlor	8.522	9.599	1251575	4862614	24.948	58.078	#
21)	Endrin Ke...	8.872	9.841	956755	970703	5.784	4.450	
23)	Hexachlor...	3.188	0.000	5915	0	BelowCal	N.D.	
24)	Hexachlor...	5.759	6.569	2897	14989	BelowCal	0.051	
25)	Oxychlordane	7.240	8.049	664493	758706	4.490	2.999	
26)	2,4'-DDE	7.334f	8.226	507335	955742	4.705	5.026	
27)	trans-Non...	7.478	8.321	884818	960818	4.922	3.406	
28)	2,4'-DDD	7.689	8.624	1238769	1493350	12.599	8.808	
29)	2,4'-DDT	7.874	8.831	1965189	2976836	20.310	21.493	
30)	cis-Nonac...	7.959	8.883	2322093	1914334	11.277	5.978	#
31)	Mirex	8.618	9.841f	3569596	970703	29.956	6.026	#
32)	Chlordane...	7.385	8.226f	477931	955742	25.014	28.143	
33)	Chlordane...	7.478	8.335f	884818	890387	39.276	30.823	
34)	Chlordane...	8.023f	9.038	1604173	8372957	281.038	995.691	#
35)	Chlordane...	3.720	0.000	12241	0	NoCal	N.D.	
36)	Toxaphene...	7.478	8.571	884818	2420092	1051.649	1022.840	
37)	Toxaphene...	7.771	8.934	1653145	3182543	1045.614	1074.519	
38)	Toxaphene...	8.083	8.971	3651132	5086202	1060.804	1049.548	
39)	Toxaphene...	8.323	9.038	3518593	8372957	1062.256	1070.933	
40)	Toxaphene...	8.552	9.214	2774676	4626107	1095.150	1061.750	
41)	Toxaphene...	8.618	9.599	3569596	4862614	1049.654	1060.390	
42)	Toxaphene...	3.720f	0.000	12241	0	NoCal	N.D.	

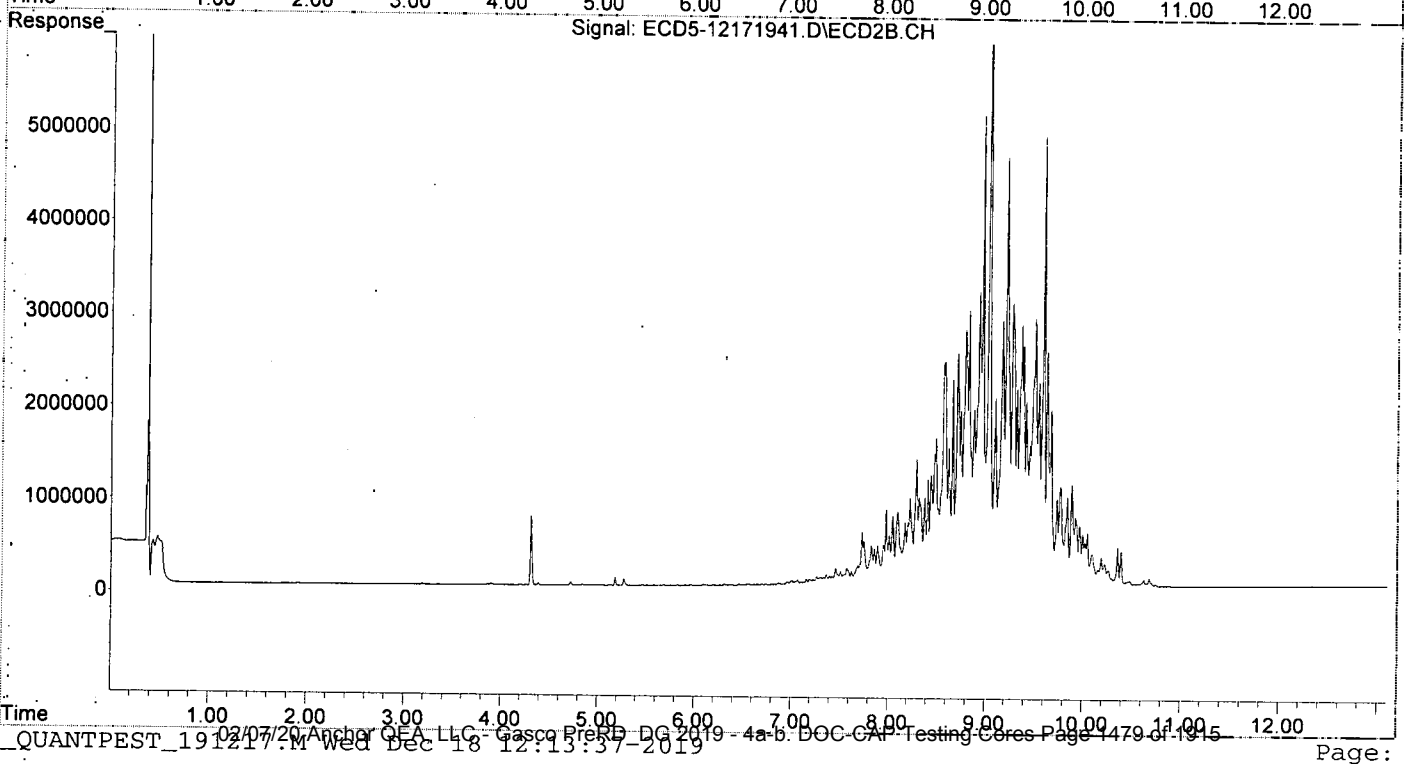
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 22:28
Operator : MJB
Sample : 9L17040-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: Dec 18 11:55:17 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171942.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 22:45
Operator : MJB
Sample : 9L17040-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: Dec 18 11:55:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12.18.19

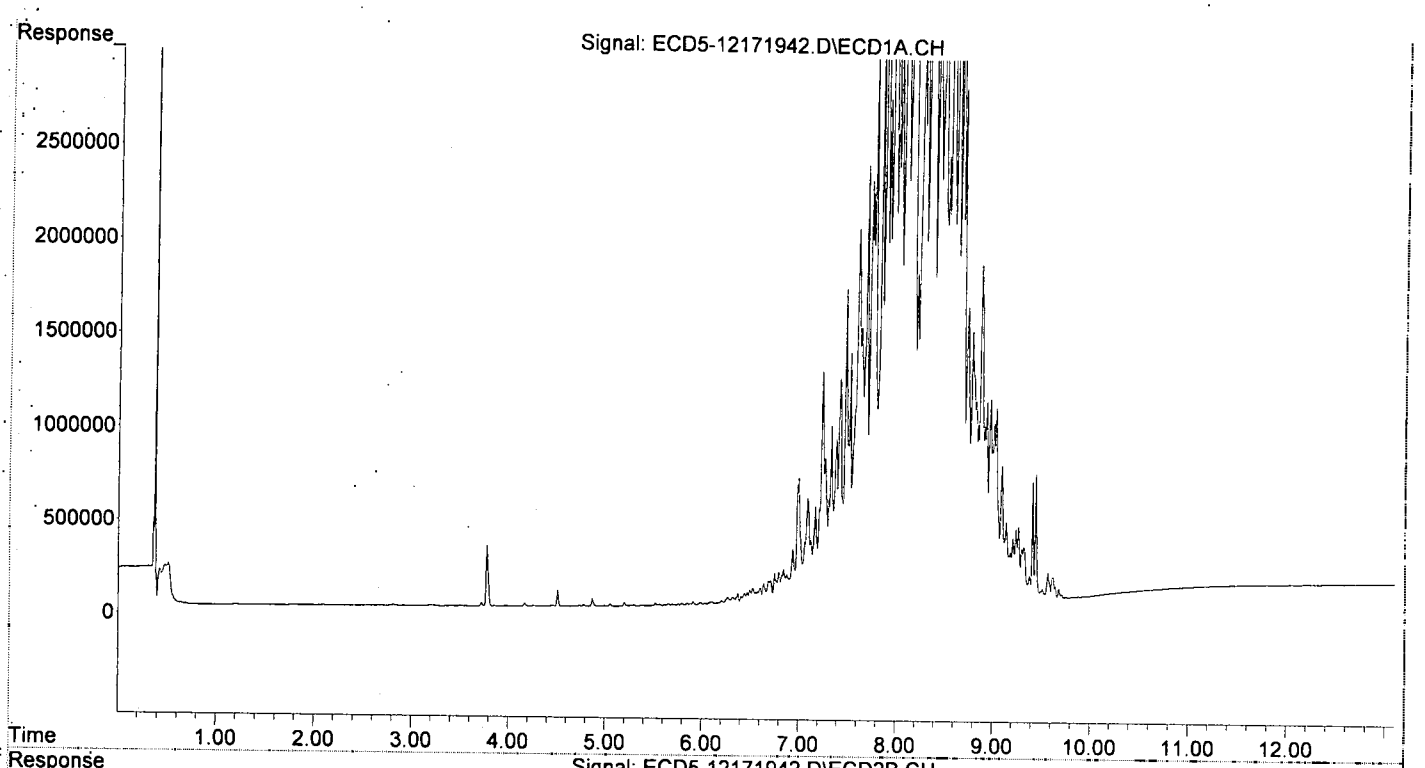
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
21)	S TCMX (S)	5.389	6.091	5177	13151	0.029	0.044	#
22)	S DCBP (S)	9.569	10.679f	138463	171760	0.833	1.009	
	Target Compounds							
2)	a-BHC	5.910	6.699	19998	31078	0.083	0.078	
3)	g-BHC	6.205	7.009	21356	87369	0.105	0.258	#
4)	b-BHC	6.266	7.071	39836	103898	0.562	0.750	
5)	Heptachlor	6.604	7.400	84429	167221	0.459	0.559	
6)	d-BHC	6.405	7.339	41568	143429	0.268	0.466	#
7)	Aldrin	6.845	7.691f	182923	364580	0.963	1.175	
8)	Heptachlo...	7.333f	8.100	947698	1431585	5.275	4.999	
9)	trans-Chl...	7.421	8.226f	1201998	1717904	6.667	5.889	
10)	cis-Chlor...	7.477f	8.378f	1645664	1768736	9.702	6.302	
11)	Endosulfa...	7.602	8.411	2003324	2122239	11.399	8.074	
12)	4,4'-DDE	7.602f	8.477	2003324	2665238	13.039	10.281	
13)	Dieldrin	7.769	8.624	3028486	2767721	15.429	9.317	
14)	Endrin	7.957f	8.830	4406483	5726371	28.842	27.276	
15)	4,4'-DDD	7.998	8.883	2947444	3728304	23.710	17.480	
16)	Endosulfa...	8.082	8.971	6919306	9828700	45.287	41.515	
17)	4,4'-DDT	8.164	9.102	6078744	3880926	56.603	25.098	#
18)	Endrin Al...	8.369	9.215	4795772	8935197	40.119	45.518	
19)	Endosulfa...	8.687	9.419	2732155	3850963	19.636	19.364	
20)	Methoxychlor	8.521	9.600	2376116	9688653	45.402	104.556	#
21)	Endrin Ke...	8.872	9.841f	1786668	1947731	10.959	9.055	
23)	Hexachlor...	3.188	0.000	4789	0	BelowCal	N.D.	
24)	Hexachlor...	5.756	6.561	9073	28355	BelowCal	0.097	
25)	Oxychlordane	7.238	8.048	1225623	1334989	8.417	5.277	
26)	2,4'-DDE	7.333f	8.226	947698	1717904	8.790	9.033	
27)	trans-Non...	7.477	8.321	1645664	1710878	9.155	6.064	
28)	2,4'-DDD	7.688	8.624	2335208	2767721	23.750	16.325	
29)	2,4'-DDT	7.873	8.830	3736773	5726371	38.619	39.790	
30)	cis-Nonac...	7.957	8.883	4406483	3728304	21.399	11.643	#
31)	Mirex	8.618	9.841f	7071979	1947731	59.241	12.372	#
32)	Chlordane...	7.384	8.226f	881310	1717904	46.126	50.586	
33)	Chlordane...	7.477	8.378f	1645664	1768736	73.048	61.230	
34)	Chlordane...	8.022f	9.039	3044994	16297376	533.458	1841.327	#
35)	Chlordane...	3.720	0.000	18339	0	NoCal	N.D.	
36)	Toxaphene...	7.477	8.571	1645664	4565174	1927.744	1929.448	
37)	Toxaphene...	7.769	8.934	3028486	6027412	1940.938	2035.028	
38)	Toxaphene...	8.082	8.971	6919306	9828700	1922.413	2028.172	
39)	Toxaphene...	8.323	9.039	6601320	16297376	1919.807	1920.523	
40)	Toxaphene...	8.551	9.215	5336716	8935197	2106.375	1926.200	
41)	Toxaphene...	8.618	9.600	7071979	9688653	2079.545	2112.803	
42)	Toxaphene...	3.720f	0.000	18339	0	NoCal	N.D.	

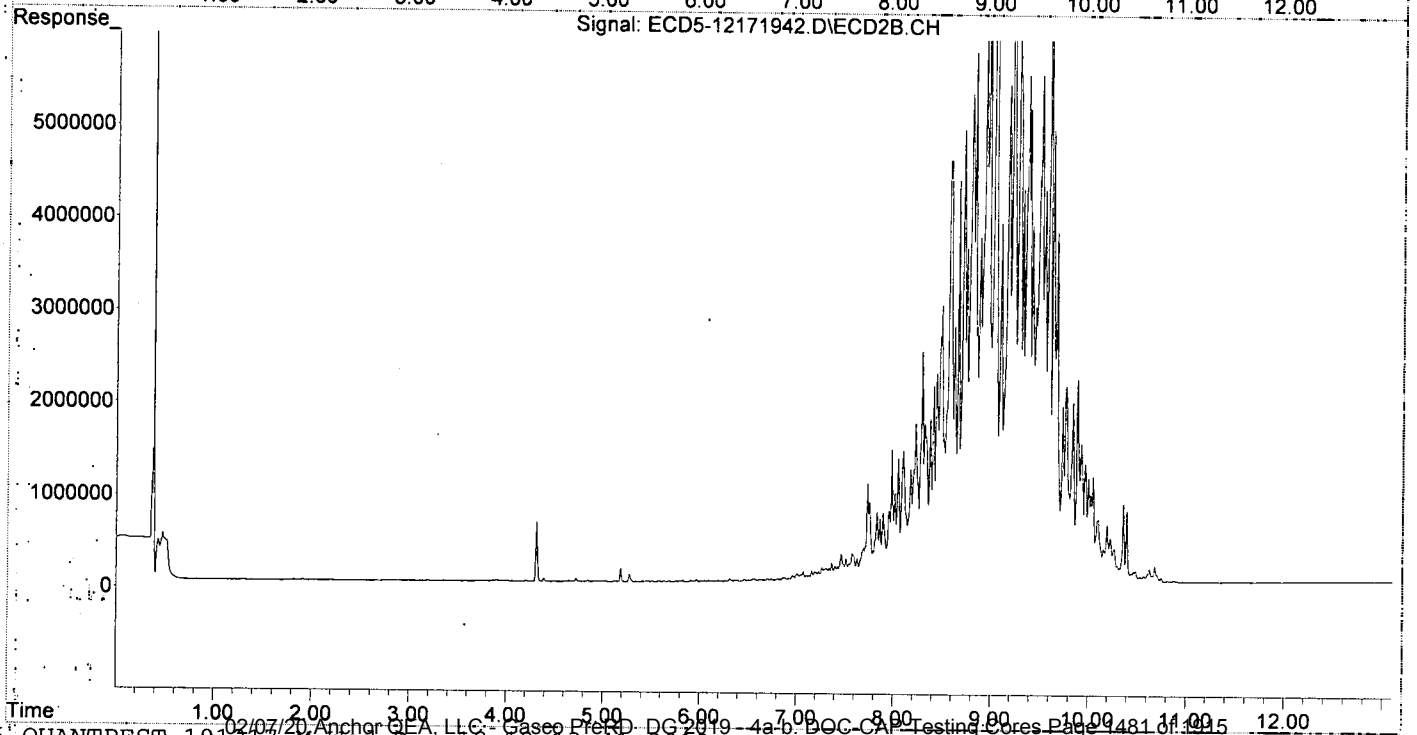
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L17040\REQUANT\
Data File : ECD5-12171942.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 22:45
Operator : MJB
Sample : 9L17040-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: Dec 18 11:55:27 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Sequence Name: C:\msdchem\4\sequence\9L17040.s
Comment: Pesticides
Operator: MJB
Data Path: C:\MSDCHEM\4\DATA\2019-12\9L17040\
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		ECD5-12171901
Method		ECD5_AQUPEST_160111
2) Sample	1	Hexane
Datafile		ECD5-12171902
Method		ECD5_AQUPEST_160111
3) Sample	2	9L17040-BKD1
Datafile		ECD5-12171903
Method		ECD5_AQUPEST_160111
4) Sample	3	9L17040-ICB1
Datafile		ECD5-12171904
Method		ECD5_AQUPEST_160111
5) Sample	4	9L17040-CAL1
Datafile		ECD5-12171905
Method		ECD5_AQUPEST_160111
6) Sample	5	9L17040-CAL2
Datafile		ECD5-12171906
Method		ECD5_AQUPEST_160111
7) Sample	6	9L17040-CAL3
Datafile		ECD5-12171907
Method		ECD5_AQUPEST_160111
8) Sample	7	9L17040-CAL4
Datafile		ECD5-12171908
Method		ECD5_AQUPEST_160111
9) Sample	8	9L17040-CAL5
Datafile		ECD5-12171909
Method		ECD5_AQUPEST_160111
10) Sample	9	9L17040-CAL6
Datafile		ECD5-12171910
Method		ECD5_AQUPEST_160111
11) Sample	10	9L17040-CAL7
Datafile		ECD5-12171911
Method		ECD5_AQUPEST_160111
12) Sample	11	9L17040-CAL8
Datafile		ECD5-12171912
Method		ECD5_AQUPEST_160111
13) Sample	12	9L17040-CAL9
Datafile		ECD5-12171913
Method		ECD5_AQUPEST_160111
14) Sample	1	9L17040-IBL1
Datafile		ECD5-12171914
Method		ECD5_AQUPEST_160111
15) Sample	13	9L17040-ICV1
Datafile		ECD5-12171915
Method		ECD5_AQUPEST_160111
16) Sample	14	9L17040-CALA
Datafile		ECD5-12171916
Method		ECD5_AQUPEST_160111
17) Sample	15	9L17040-CALB
Datafile		ECD5-12171917
Method		ECD5_AQUPEST_160111
18) Sample	16	9L17040-CALC
Datafile		ECD5-12171918
Method		ECD5_AQUPEST_160111
19) Sample	17	9L17040-CALD
Datafile		ECD5-12171919
Method		ECD5_AQUPEST_160111
20) Sample	18	9L17040-CALE

WB 12/18/19

Datafile		ECD5-12171920
Method		ECD5_AQUPEST_160111
21) Sample	19	9L17040-CALF
Datafile		ECD5-12171921
Method		ECD5_AQUPEST_160111
22) Sample	20	9L17040-CALG
Datafile		ECD5-12171922
Method		ECD5_AQUPEST_160111
23) Sample	21	9L17040-CALH
Datafile		ECD5-12171923
Method		ECD5_AQUPEST_160111
24) Sample	22	9L17040-CALI
Datafile		ECD5-12171924
Method		ECD5_AQUPEST_160111
25) Sample	1	9L17040-IBL2
Datafile		ECD5-12171925
Method		ECD5_AQUPEST_160111
26) Sample	23	9L17040-ICV2
Datafile		ECD5-12171926
Method		ECD5_AQUPEST_160111
27) Sample	24	9L17040-CALJ
Datafile		ECD5-12171927
Method		ECD5_AQUPEST_160111
28) Sample	25	9L17040-CALK
Datafile		ECD5-12171928
Method		ECD5_AQUPEST_160111
29) Sample	26	9L17040-CALL
Datafile		ECD5-12171929
Method		ECD5_AQUPEST_160111
30) Sample	27	9L17040-CALM
Datafile		ECD5-12171930
Method		ECD5_AQUPEST_160111
31) Sample	28	9L17040-CALN
Datafile		ECD5-12171931
Method		ECD5_AQUPEST_160111
32) Sample	29	9L17040-CALO
Datafile		ECD5-12171932
Method		ECD5_AQUPEST_160111
33) Sample	30	9L17040-CALP
Datafile		ECD5-12171933
Method		ECD5_AQUPEST_160111
34) Sample	1	9L17040-IBL3
Datafile		ECD5-12171934
Method		ECD5_AQUPEST_160111
35) Sample	31	9L17040-ICV3
Datafile		ECD5-12171935
Method		ECD5_AQUPEST_160111
36) Sample	32	9L17040-CALQ
Datafile		ECD5-12171936
Method		ECD5_AQUPEST_160111
37) Sample	33	9L17040-CALR
Datafile		ECD5-12171937
Method		ECD5_AQUPEST_160111
38) Sample	34	9L17040-CALS
Datafile		ECD5-12171938
Method		ECD5_AQUPEST_160111
39) Sample	35	9L17040-CALT
Datafile		ECD5-12171939
Method		ECD5_AQUPEST_160111
40) Sample	36	9L17040-CALU
Datafile		ECD5-12171940
Method		ECD5_AQUPEST_160111
41) Sample	37	9L17040-CALV
Datafile		ECD5-12171941
Method		ECD5_AQUPEST_160111
42) Sample	38	9L17040-CALW
Datafile		ECD5-12171942
Method		ECD5_AQUPEST_160111
43) Sample	1	9L17040-IBL4
Datafile		ECD5-12171943
Method		ECD5_AQUPEST_160111

Sequence Name: C:\msdchem\4\sequence\9L17040.s

	Line	Type	Vial	DataFile	Method	Sample Name
44)		Sample	39	9L17040-ICV4		
		Datafile		ECD5-12171944		
		Method			ECD5_AQUPEST_160111	

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 9L17040 BKD1
Data File: ECD5-12171903.D

First Column Area Counts		Percent Breakdown	
DDE	654841		
DDD	8619238		
DDT	127512174	**6.78**	**PASS**
Endrin	80205408	**9.17**	**PASS**
Endrin Aldehyde	2808702		
Endrin Ketone	5286659		

Second Column Area Counts		Percent Breakdown	
DDE	1186831		
DDD	13038931		
DDT	174368395	**7.54**	**PASS**
Endrin	115560207	**7.26**	**PASS**
Endrin Aldehyde	2481107		
Endrin Ketone	6569126		

Breakdown must be less than 15% to accept sample data.

MJB 12/17/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L17040\
Data File : ECD5-12171903.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 11:34
Operator : MJB
Sample : 9L17040-BKD1
Misc : A19J201
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: Dec 17 11:51:34 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_191217.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
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	7.566	654841	NoCal	ng/mL
2)	Endrin	7.938	80205408	NoCal	ng/mL
3)	4,4'-DDD	7.989	8619238	NoCal	ng/mL
4)	4,4'-DDT	8.186	127512174	NoCal	ng/mL
5)	Endrin Aldehyde	8.387	2808702	NoCal	ng/mL
6)	Endrin Ketone	8.883	5286659	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.462	1186831	NoCal	ng/mL
9)	Endrin [2C]	8.843	115560207	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.880	13038931	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.227	2481107	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.109	174368395	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.823	6569126	NoCal	ng/mL

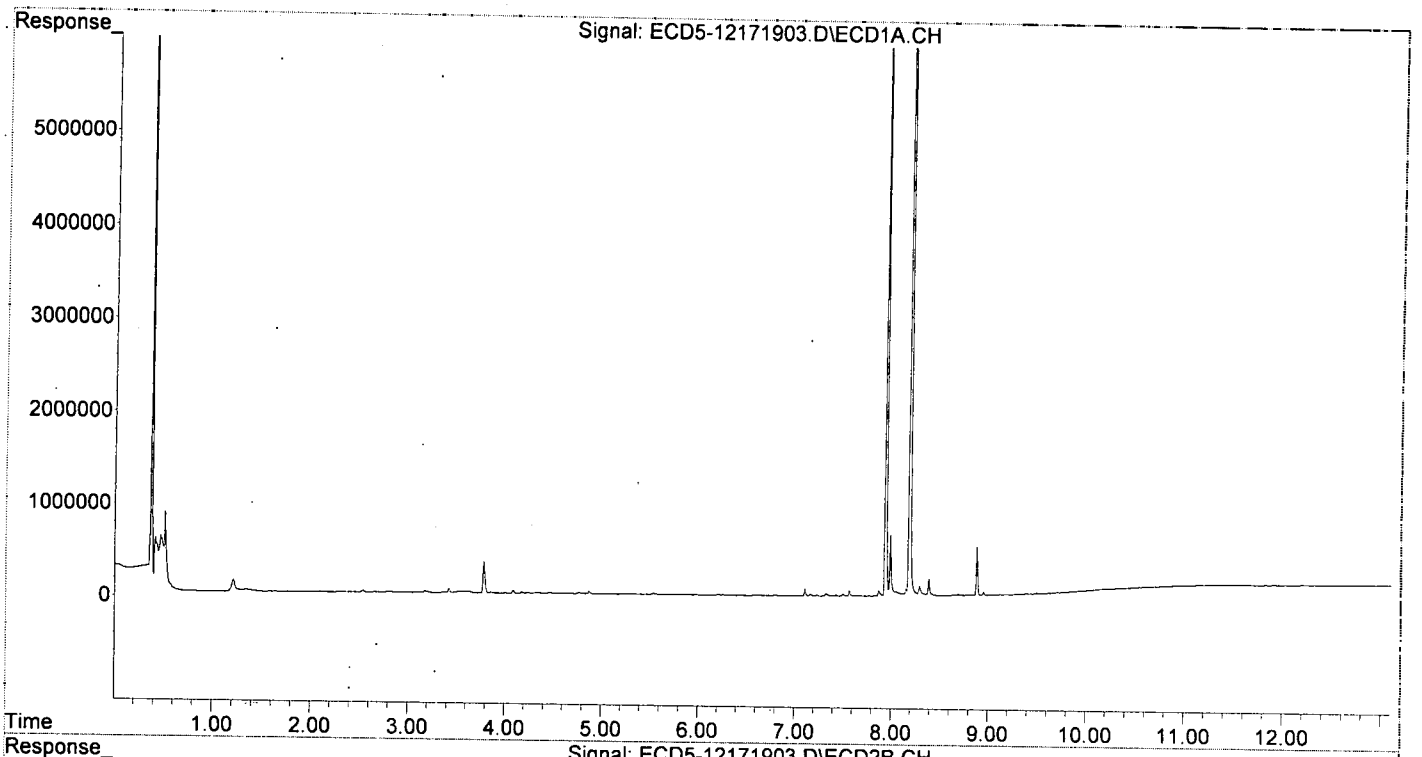
(f)=RT Delta > 1/2 Window (m)=manual int.

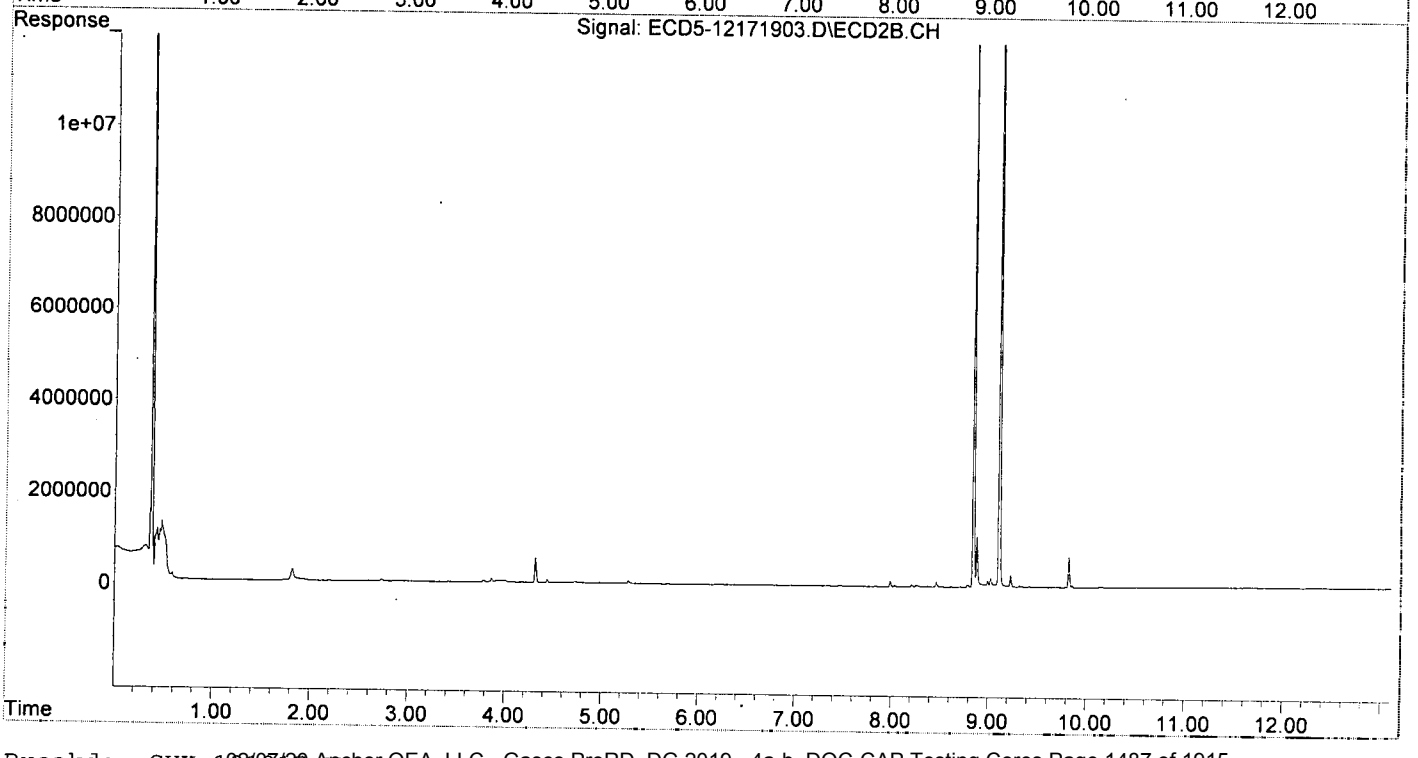
WB 12/17/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L17040\
Data File : ECD5-12171903.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 11:34
Operator : MJB
Sample : 9L17040-BKD1
Misc : A19J201
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: Dec 17 11:51:34 2019
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_191217.M
Quant Title : Pesticides
QLast Update : Thu Aug 21 11:53:22 2014
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:20:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

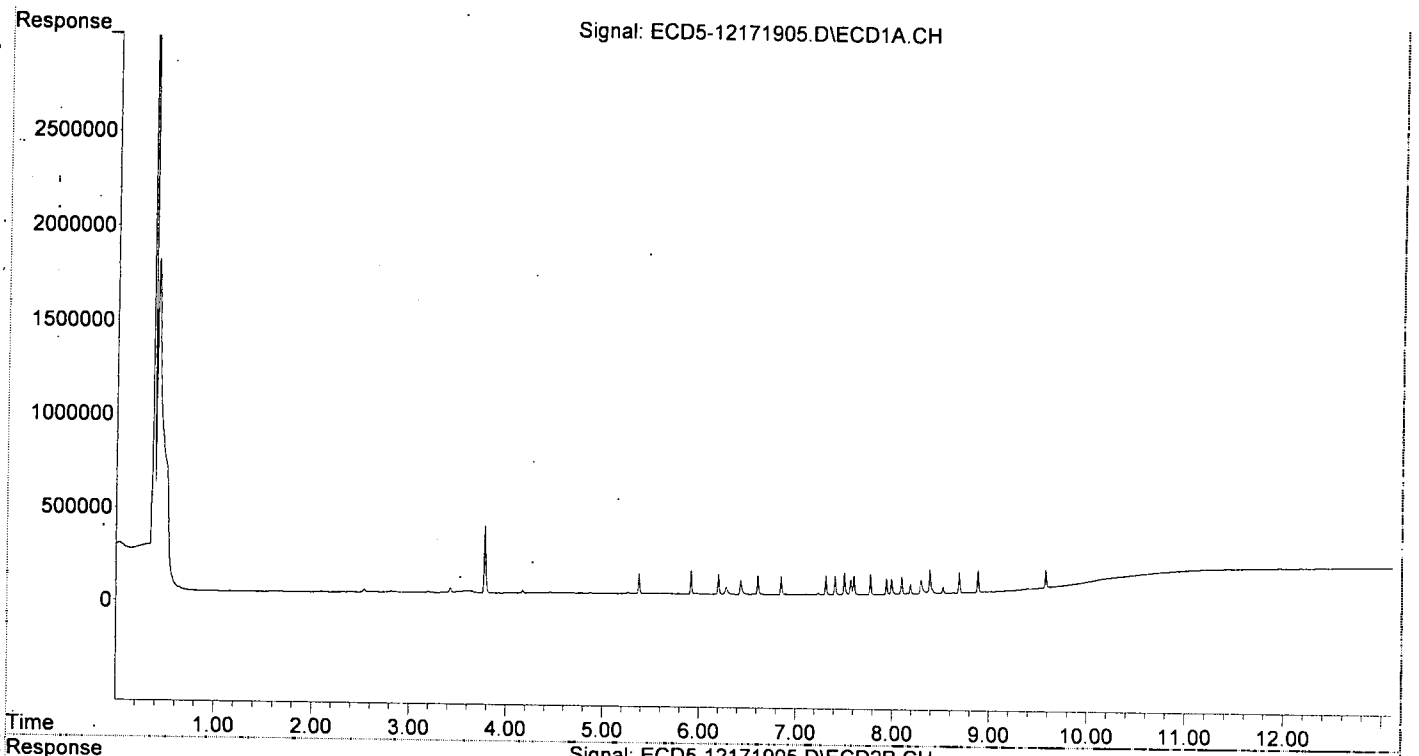
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.374	6.093	107840	171805	0.339	0.306
22)	S DCBP (S)	9.576	10.702	92475	102856	0.343	0.300
	Target Compounds						
2)	a-BHC	5.914	6.702	125233	196651	0.285	0.251
3)	g-BHC	6.198	7.022	108992	173094	0.282	0.254
4)	b-BHC	6.278	7.086	38904	81389	0.226	0.270
5)	Heptachlor	6.606	7.401	102001	159363	0.294	0.272
6)	d-BHC	6.428	7.343	76349	156807	0.203	0.233
7)	Aldrin	6.847	7.670	96511	154419	0.255	0.245
8)	Heptachlo...	7.311	8.109	102358	153974	0.291	0.268
9)	trans-Chl...	7.405	8.251	100665	165086	0.285	0.276
10)	cis-Chlor...	7.502	8.358	115491	155479	0.332	0.279
11)	Endosulfa...	7.600	8.410	98359	142563	0.302	0.271
12)	4,4'-DDE	7.567	8.461	81063	144252	0.225	0.243
13)	Dieldrin	7.772	8.612	108462	155520	0.295	0.267
14)	Endrin	7.937	8.842	84320	116310	0.299	0.269
15)	4,4'-DDD	7.989	8.880	82379	138945	0.275	0.284
16)	Endosulfa...	8.095	8.989	92837	136257	0.338	0.309
17)	4,4'-DDT	8.185	9.107	53357	77719	0.234	0.309
18)	Endrin Al...	8.386	9.226	130680	199842	0.166	0.233 #
19)	Endosulfa...	8.688	9.417	109906	153851	0.371	0.324
20)	Methoxychlor	8.521	9.585	35313	48768	0.316	0.316
21)	Endrin Ke...	8.882	9.822	118883	150334	0.373	0.307
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

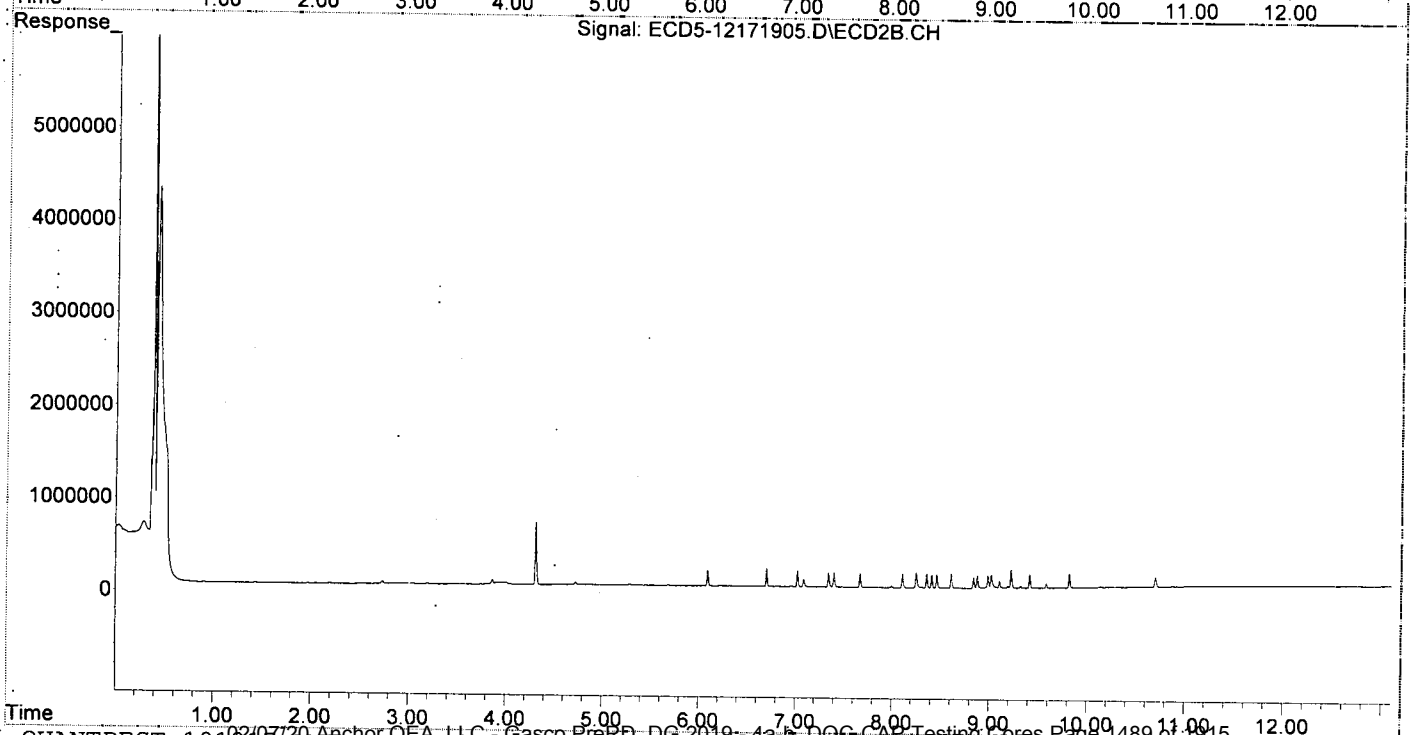
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171905.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:09
Operator : MJB
Sample : 9L17040-CAL1
Misc : A19L231, 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: Dec 17 18:20:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:26
Operator : MJB
Sample : 9L17040-CAL2
Misc : A19K127, 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: Dec 17 18:21:31 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

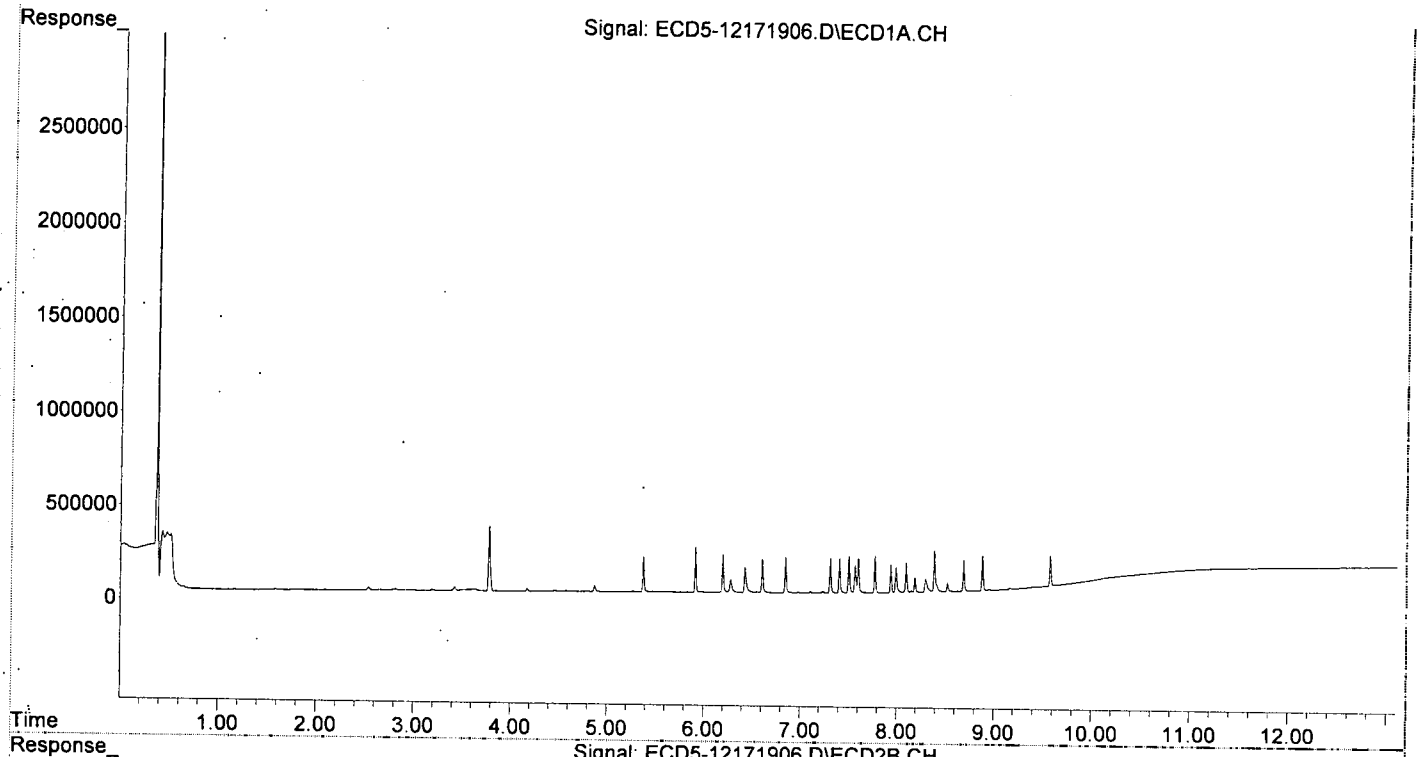
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds					Not used in cal.	
1)	S TCMX (S)	5.373	6.092	184724	297799	0.581	0.531
22)	S DCBP (S)	9.576	10.701	166387	184041	0.617	0.537
	Target Compounds						
2)	a-BHC	5.913	6.701	241374	375078	0.549	0.478
3)	g-BHC	6.197	7.021	203908	323532	0.528	0.474
4)	b-BHC	6.277	7.085	70020	143775	0.406	0.476
5)	Heptachlor	6.605	7.400	181225	289003	0.522	0.494
6)	d-BHC	6.427	7.343	135318	286739	0.360	0.426
7)	Aldrin	6.846	7.669	189147	299925	0.500	0.476
8)	Heptachlo...	7.309	8.109	187437	281558	0.532	0.490
9)	trans-Chl...	7.405	8.249	185492	289448	0.524	0.484
10)	cis-Chlor...	7.502	8.357	193253	278558	0.555	0.500
11)	Endosulfa...	7.600	8.410	185825	262580	0.570	0.499
12)	4,4'-DDE	7.567	8.461	146606	262707	0.407	0.443
13)	Dieldrin	7.771	8.611	197836	280575	0.538	0.482
14)	Endrin	7.937	8.841	148336	206050	0.527	0.477
15)	4,4'-DDD	7.989	8.879	135077	228308	0.450	0.467
16)	Endosulfa...	8.095	8.988	158465	232669	0.577	0.528
17)	4,4'-DDT	8.184	9.107	79677	120042	0.349	0.401
18)	Endrin Al...	8.386	9.225	~~222466~~	~~346240~~	0.477	0.547
19)	Endosulfa...	8.687	9.416	163328	229780	0.551	0.483
20)	Methoxychlor	8.521	9.585	45321	65371	0.405	0.392
21)	Endrin Ke...	8.881	9.822	187610	240047	0.588	0.489
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

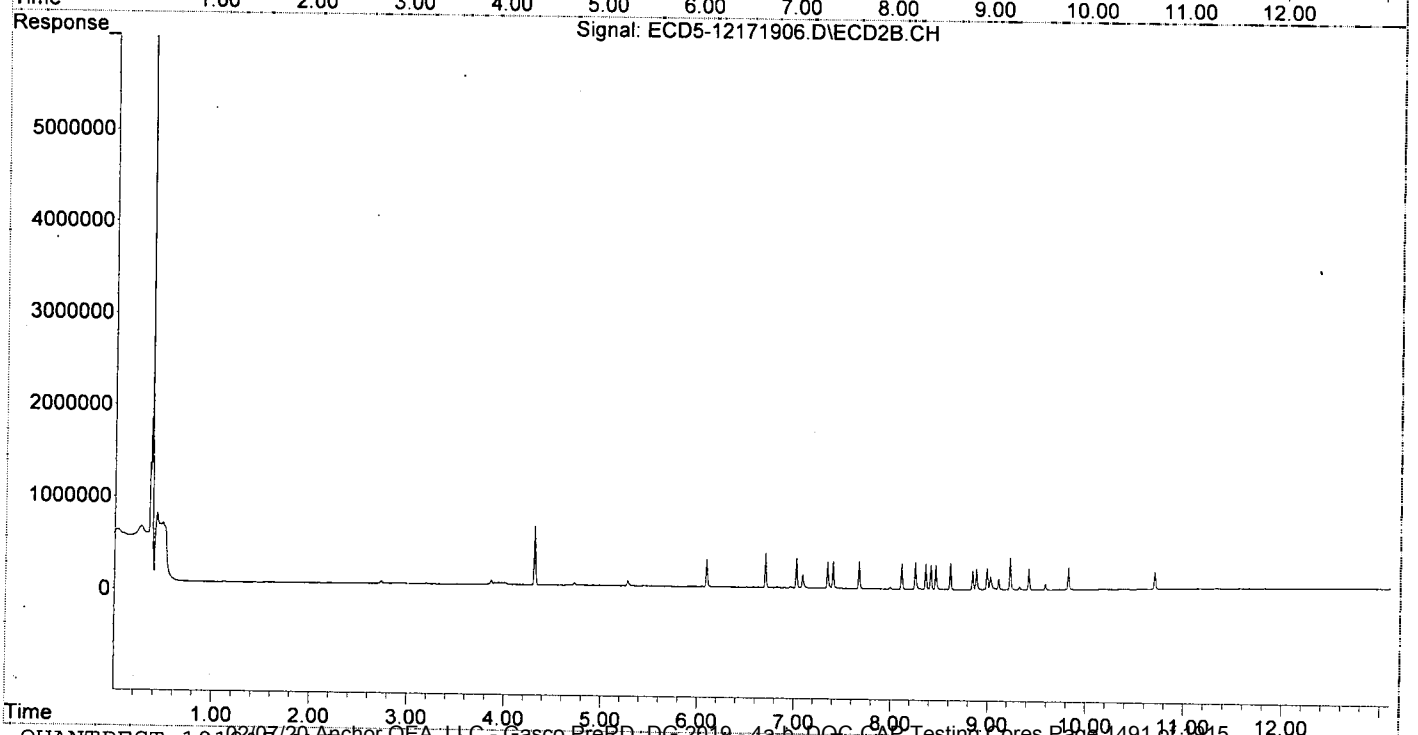
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171906.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:26
Operator : MJB
Sample : 9L17040-CAL2
Misc : A19K127, 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: Dec 17 18:21:31 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5.
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration.
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:43
Operator : MJB
Sample : 9L17040-CAL3
Misc : A19K128, 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: Dec 17 18:22:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

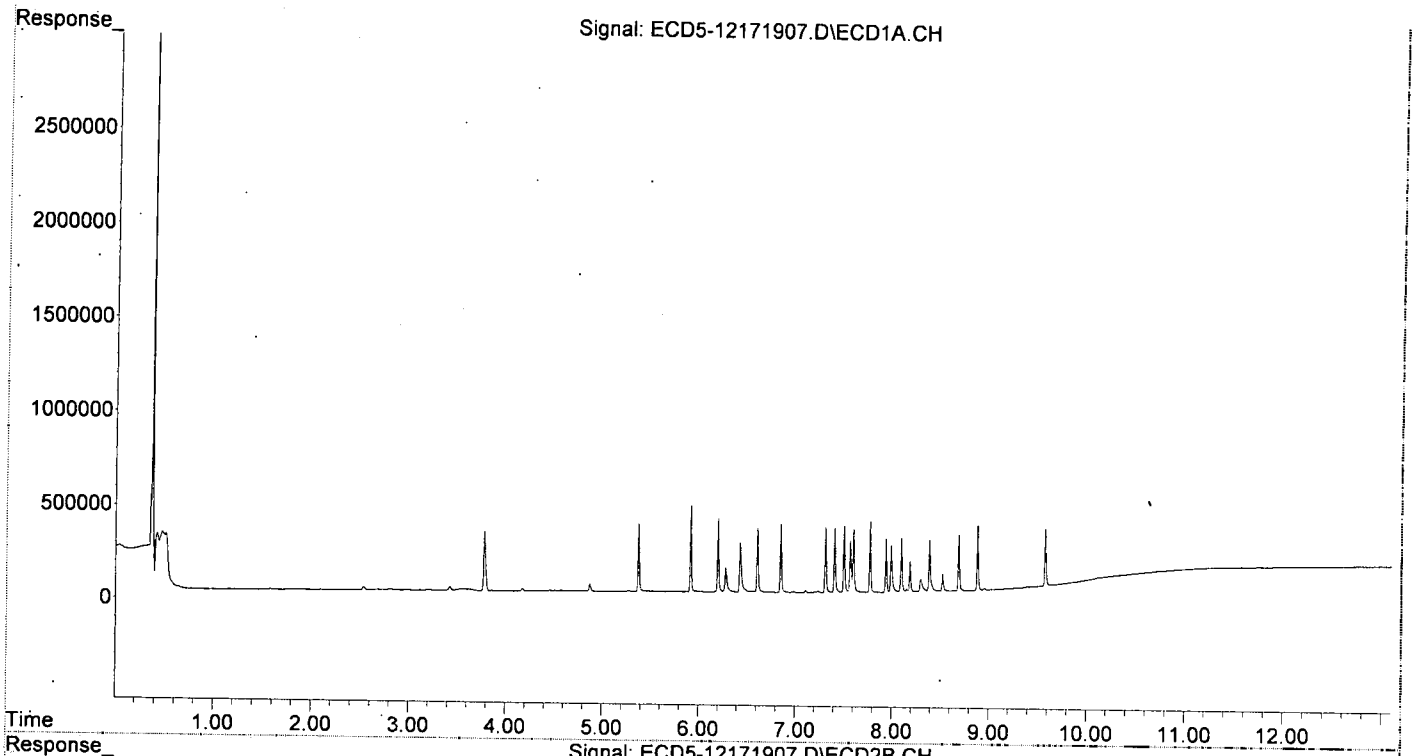
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.374	6.093	361023	580590	1.135	1.035
22)	S	DCBP (S)	9.576	10.701	302818	347202	1.123	1.012
		Target Compounds						
2)		a-BHC	5.914	6.701	459108	719006	1.045	0.916
3)		g-BHC	6.197	7.021	386286	613703	1.000	0.900
4)		b-BHC	6.276	7.085	131691	266326	0.764	0.882
5)		Heptachlor	6.605	7.400	342809	536465	0.988	0.917
6)		d-BHC	6.426	7.343	266215	536200	0.709	0.797
7)		Aldrin	6.847	7.669	362515	569789	0.958	0.905
8)		Heptachlo...	7.309	8.109	346704	532800	0.985	0.927
9)		trans-Chl...	7.405	8.249	346350	527678	0.979	0.883
10)		cis-Chlor...	7.502	8.358	352877	521577	1.014	0.937
11)		Endosulfa...	7.600	8.410	338273	470630	1.038	0.895
12)		4,4'-DDE	7.567	8.461	275625	489498	0.765	0.825
13)		Dieldrin	7.771	8.611	377531	528006	1.027	0.908
14)		Endrin	7.937	8.841	284266	385254	1.009	0.892
15)		4,4'-DDD	7.989	8.879	252316	423022	0.841	0.865
16)		Endosulfa...	8.095	8.988	289510	443878	1.054	1.007
17)		4,4'-DDT	8.184	9.106	163361	241293	0.715	0.667
18)		Endrin Al...	8.386	9.226	276999	419673	0.663	0.698
19)		Endosulfa...	8.688	9.416	299968	404451	1.013	0.851
20)		Methoxychlor	8.521	9.586	91580	130584	0.819	0.692
21)		Endrin Ke...	8.881	9.822	345442	438726	1.083	0.895
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

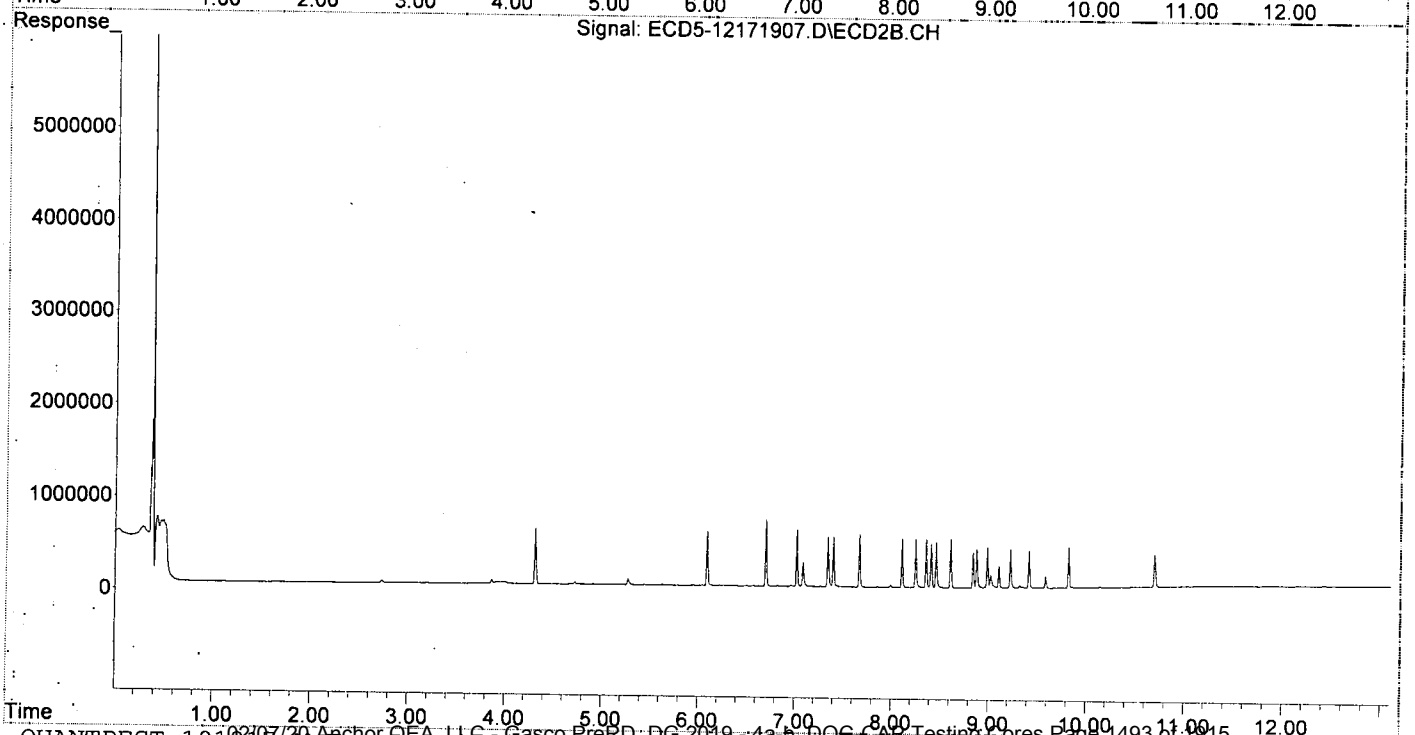
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171907.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 12:43
Operator : MJB
Sample : 9L17040-CAL3
Misc : A19K128, 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: Dec 17 18:22:12 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:01
Operator : MJB
Sample : 9L17040-CAL4
Misc : A19K130, 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: Dec 17 18:22:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12.17.19

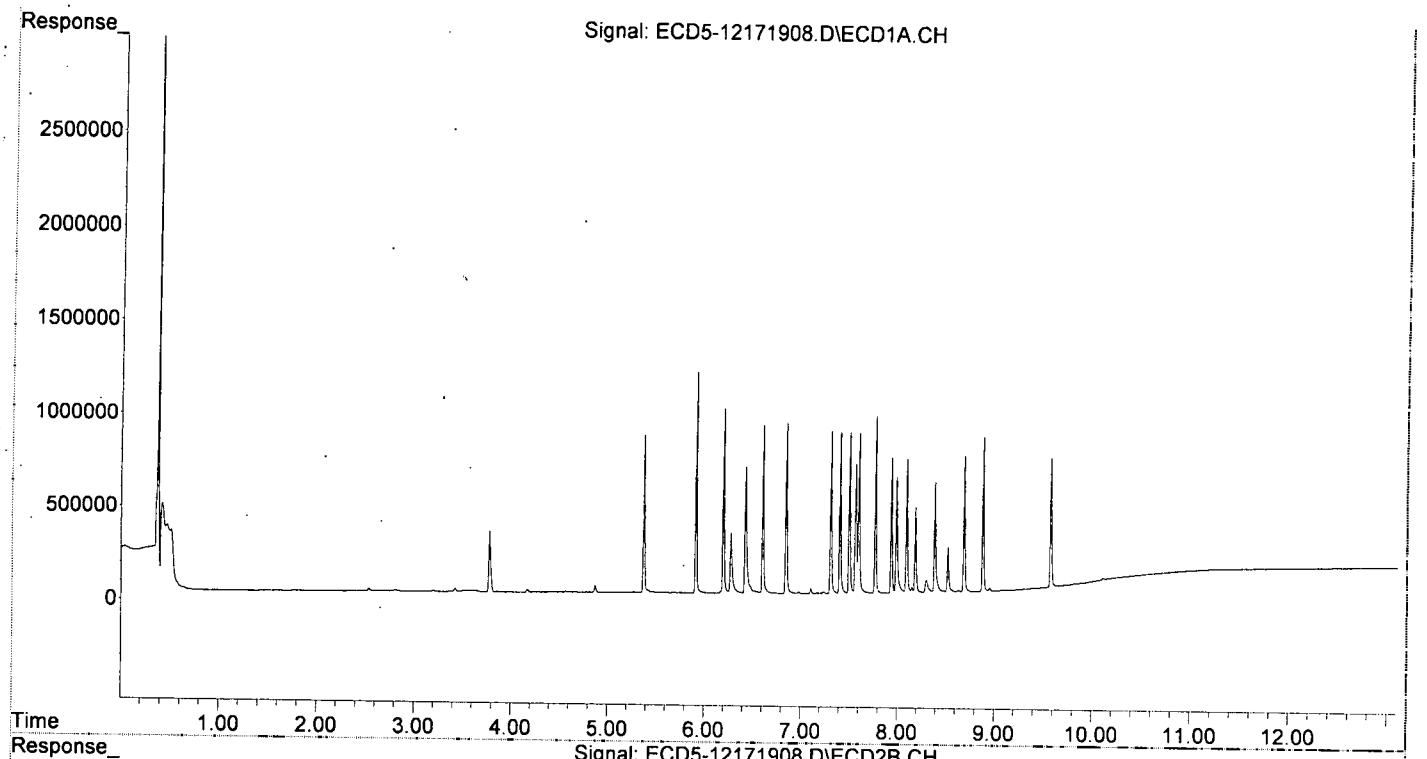
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.373	6.092	843510	1374589	2.653	2.450
22)	S DCBP (S)	9.575	10.701	693262	768471	2.571	2.241
	Target Compounds						
2)	a-BHC	5.913	6.701	1182849	1877429	2.692	2.392
3)	g-BHC	6.196	7.021	989578	1589909	2.560	2.331
4)	b-BHC	6.275	7.085	319479	642581	1.854	2.128
5)	Heptachlor	6.605	7.399	896908	1382442	2.585	2.363
6)	d-BHC	6.425	7.342	674132	1405767	1.795	2.088
7)	Aldrin	6.846	7.668	914719	1467413	2.418	2.331
8)	Heptachlo...	7.309	8.108	870850	1323228	2.473	2.303
9)	trans-Chl...	7.404	8.249	854340	1323437	2.415	2.214
10)	cis-Chlor...	7.501	8.357	858342	1299605	2.466	2.334
11)	Endosulfa...	7.599	8.409	860009	1213631	2.638	2.308
12)	4,4'-DDE	7.566	8.461	693169	1255498	1.924	2.116
13)	Dieldrin	7.771	8.610	937319	1369414	2.549	2.355
14)	Endrin	7.936	8.840	724200	1017388	2.571	2.357
15)	4,4'-DDD	7.988	8.878	615909	1057950	2.053	2.164
16)	Endosulfa...	8.094	8.988	711439	1076068	2.590	2.442
17)	4,4'-DDT	8.184	9.106	453915	660247	1.987	1.586
18)	Endrin Al...	8.385	9.225	587378	953401	1.722	1.835
19)	Endosulfa...	8.686	9.416	724874	999583	2.448	2.103
20)	Methoxychlor	8.520	9.585	237393	357925	2.124	1.742
21)	Endrin Ke...	8.880	9.821	820034	1080727	2.570	2.204
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

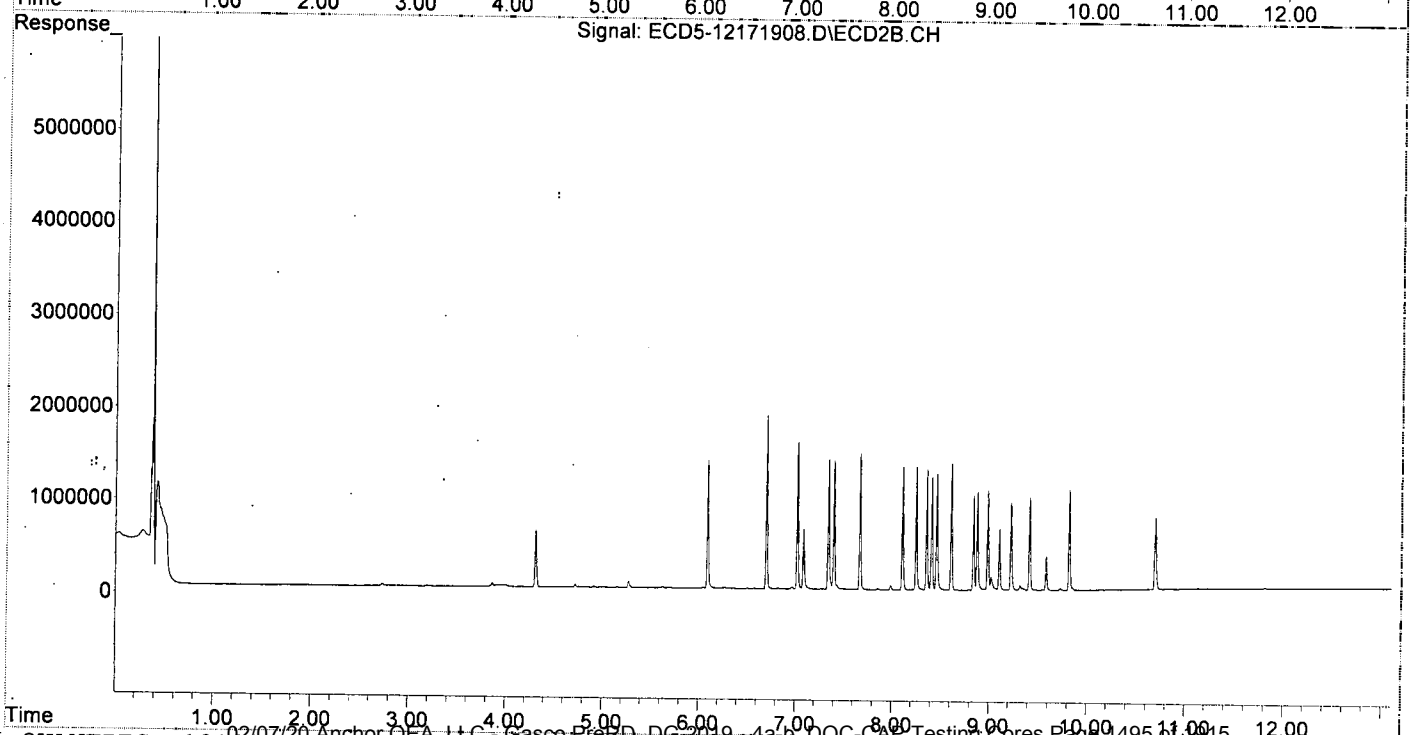
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171908.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:01
Operator : MJB
Sample : 9L17040-CAL4
Misc : A19K130, 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: Dec 17 18:22:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171909.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:18
Operator : MJB
Sample : 9L17040-CAL5
Misc : A19K131, 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: Dec 17 18:23:33 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17 12/17/19

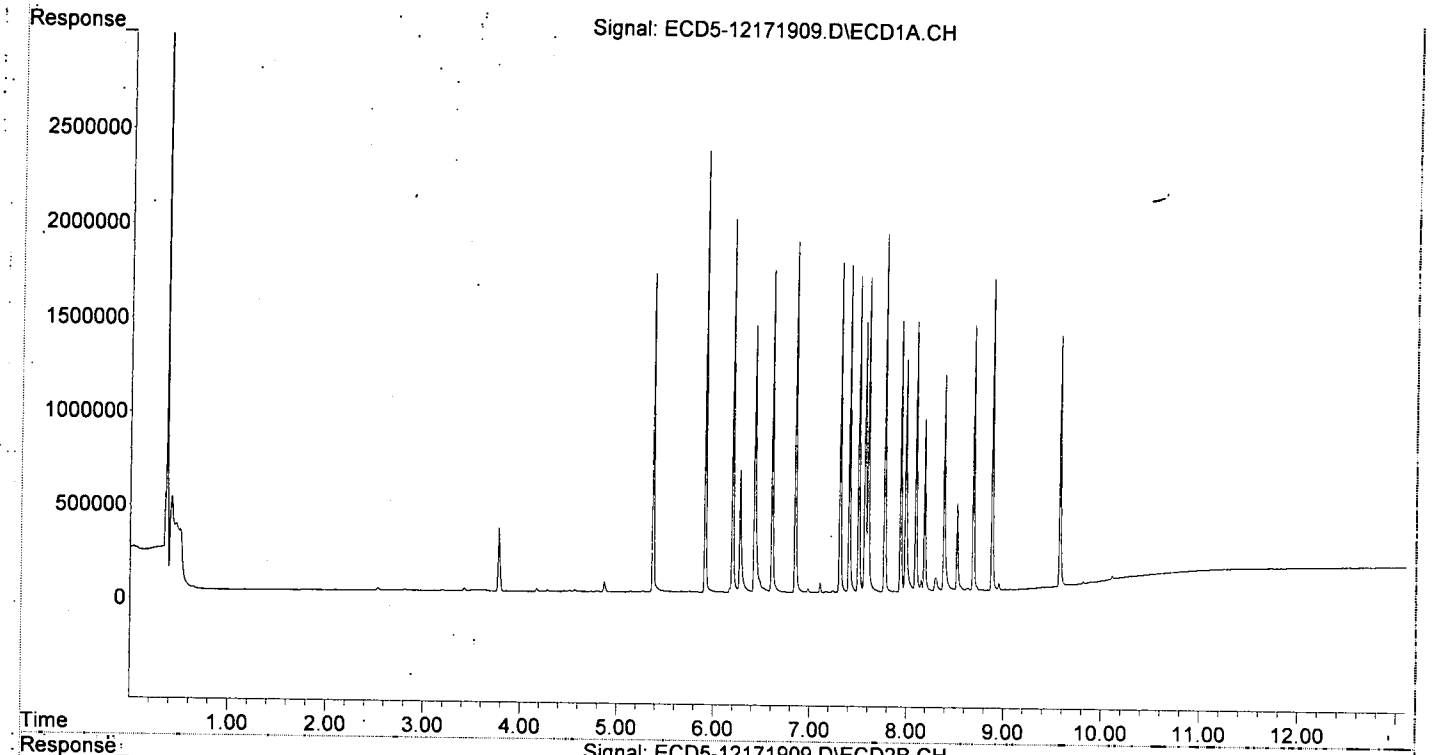
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds								
1)	S	TCMX (S)	5.373	6.092	1699266	2759992	5.344	4.919
22)	S	DCBP (S)	9.575	10.700	1335922	1559283	4.954	4.546
Target Compounds								
2)		a-BHC	5.913	6.701	2350656	3830771	5.350	4.881
3)		g-BHC	6.196	7.021	1981782	3170788	5.128	4.649
4)		b-BHC	6.274	7.084	643167	1261615	3.733	4.178
5)		Heptachlor	6.604	7.399	1717256	2744140	4.950	4.690
6)		d-BHC	6.424	7.342	1417249	2891635	3.774	4.296
7)		Aldrin	6.846	7.669	1862536	2936331	4.923	4.663
8)		Heptachlo...	7.308	8.108	1748792	2700621	4.966	4.701
9)		trans-Chl...	7.404	8.249	1699960	2659413	4.806	4.450
10)		cis-Chlor...	7.501	8.357	1662015	2576710	4.775	4.628
11)		Endosulfa...	7.599	8.409	1675334	2471513	5.139	4.701
12)		4,4'-DDE	7.565	8.461	1421662	2597057	3.946	4.376
13)		Dieldrin	7.770	8.611	1881171	2832469	5.117	4.870
14)		Endrin	7.936	8.840	1441333	2015224	5.117	4.668
15)		4,4'-DDD	7.988	8.878	1208878	2126589	4.029	4.349
16)		Endosulfa...	8.093	8.987	1439037	2161513	5.238	4.905
17)		4,4'-DDT	8.183	9.106	921208	1369041	4.033	3.156
18)		Endrin Al...	8.385	9.225	1135948	1835183	3.617	3.735
19)		Endosulfa...	8.686	9.416	1414215	1981311	4.775	4.169
20)		Methoxychlor	8.520	9.585	455886	682302	4.079	3.254
21)		Endrin Ke...	8.880	9.821	1653533	2104459	5.182	4.291
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

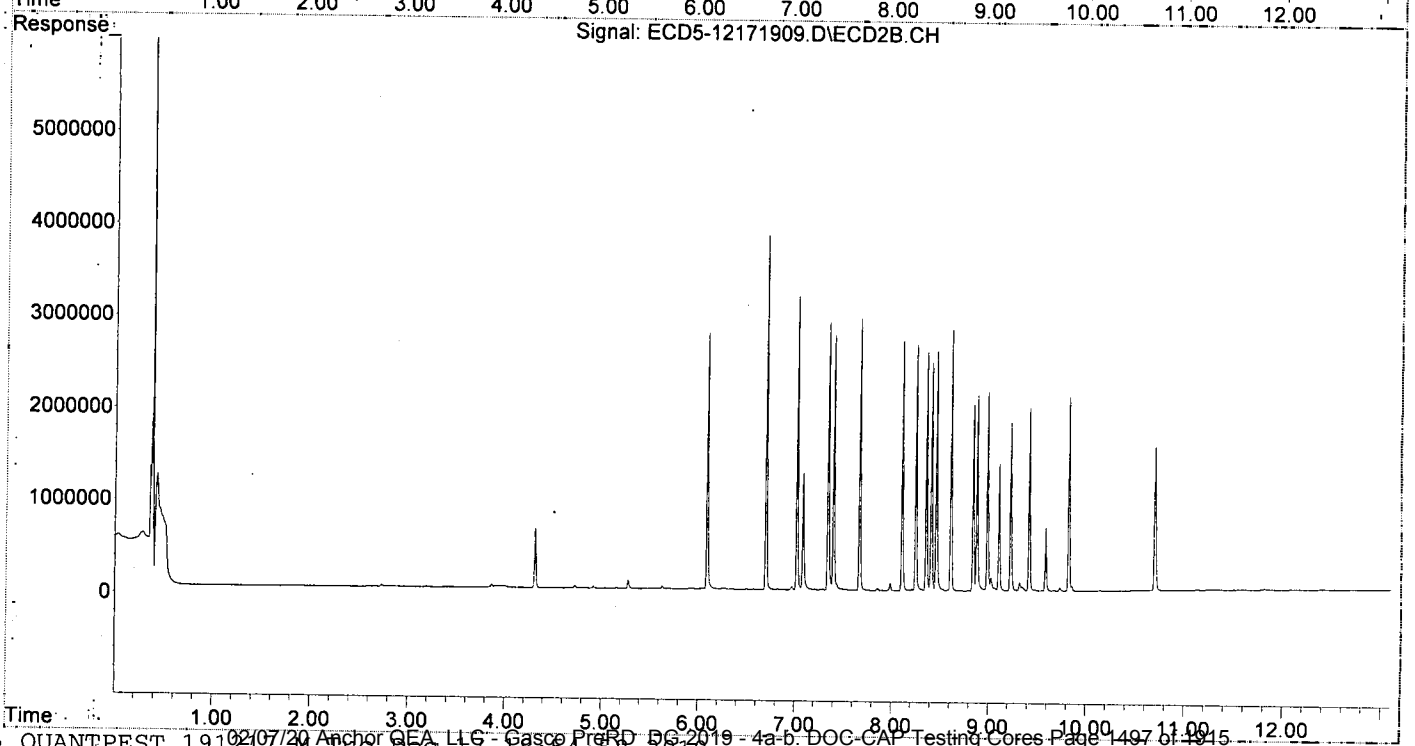
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171909.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:18
Operator : MJB
Sample : 9L17040-CAL5
Misc : A19K131, 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: Dec 17 18:23:33 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:35
Operator : MJB
Sample : 9L17040-CAL6
Misc Info : A19K132, 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: Dec 17 18:24:14 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

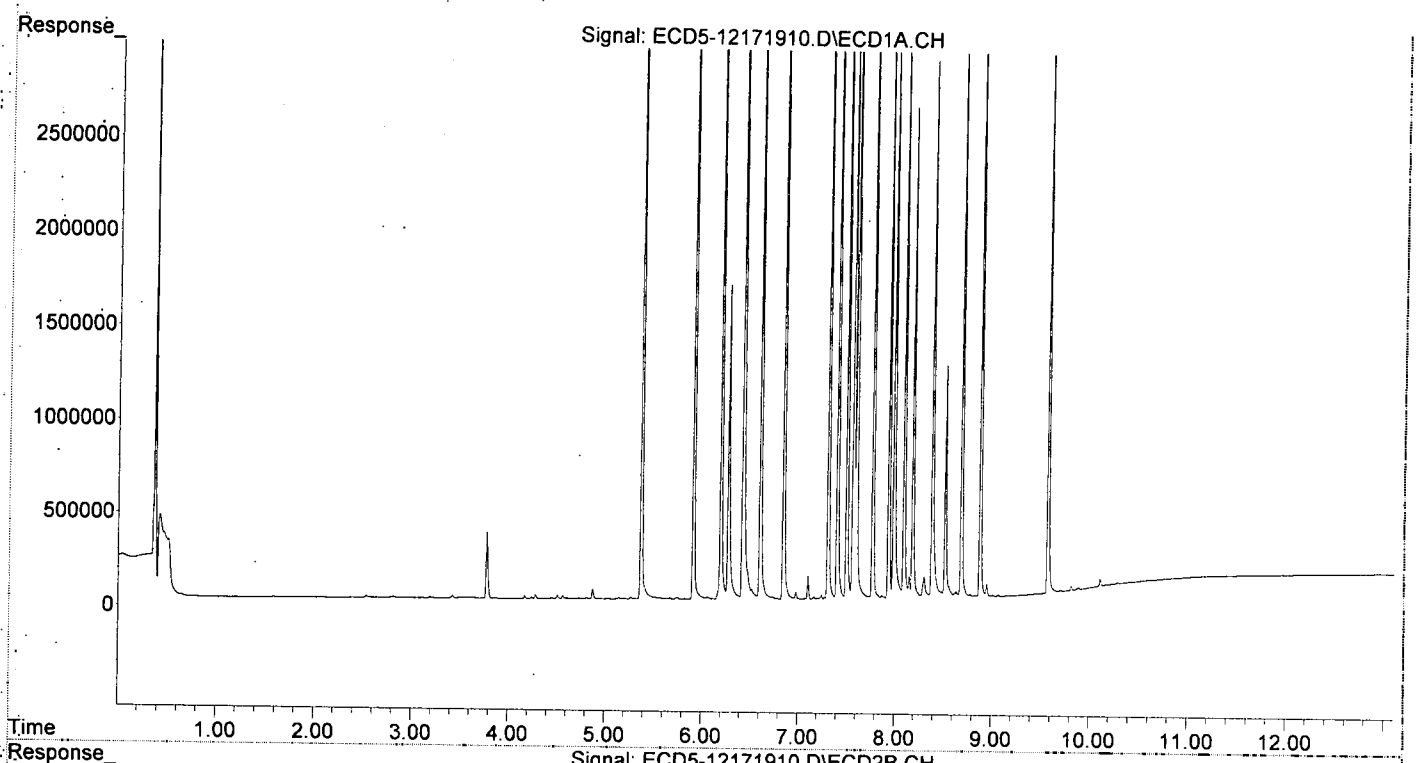
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.374	6.094	4243594	6986261	13.347	12.451
22) S	DCBP (S)	9.577	10.702	3306397	3845378	12.260	11.212
	Target Compounds						
2)	a-BHC	5.914	6.703	5936103	9864465	13.510	12.569
3)	g-BHC	6.198	7.023	4954608	8310977	12.820	12.186
4)	b-BHC	6.275	7.086	1669971	3210892	9.692	10.632
5)	Heptachlor	6.606	7.401	4364591	7265847	12.581	12.417
6)	d-BHC	6.426	7.344	3749624	7522457	9.986	11.175
7)	Aldrin	6.847	7.671	4690741	7574380	12.398	12.030
8)	Heptachlo...	7.310	8.110	4236498	6805140	12.030	11.845
9)	trans-Chl...	7.405	8.250	4360278	7018076	12.327	11.743
10)	cis-Chlor...	7.502	8.358	4326723	6704391	12.431	12.041
11)	Endosulfa...	7.600	8.411	4267974	6311814	13.093	12.005
12)	4,4'-DDE	7.566	8.462	3722284	6834813	10.333	11.517
13)	Dieldrin	7.771	8.612	4824660	7347082	13.123	12.633
14)	Endrin	7.936	8.842	3735781	5413970	13.263	12.541
15)	4,4'-DDD	7.988	8.880	3263714	5518468	10.878	11.286
16)	Endosulfa...	8.094	8.989	3611428	5536790	13.145	12.565
17)	4,4'-DDT	8.184	9.108	2612422	3840634	11.436	8.774
18)	Endrin Al...	8.385	9.227	2863649	4660864	9.778	10.016
19)	Endosulfa...	8.687	9.418	3552392	5155901	11.995	10.848
20)	Methoxychlor	8.521	9.586	1237898	1949432	11.075	9.320
21)	Endrin Ke...	8.881	9.823	4148947	5733301	13.003	11.690
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

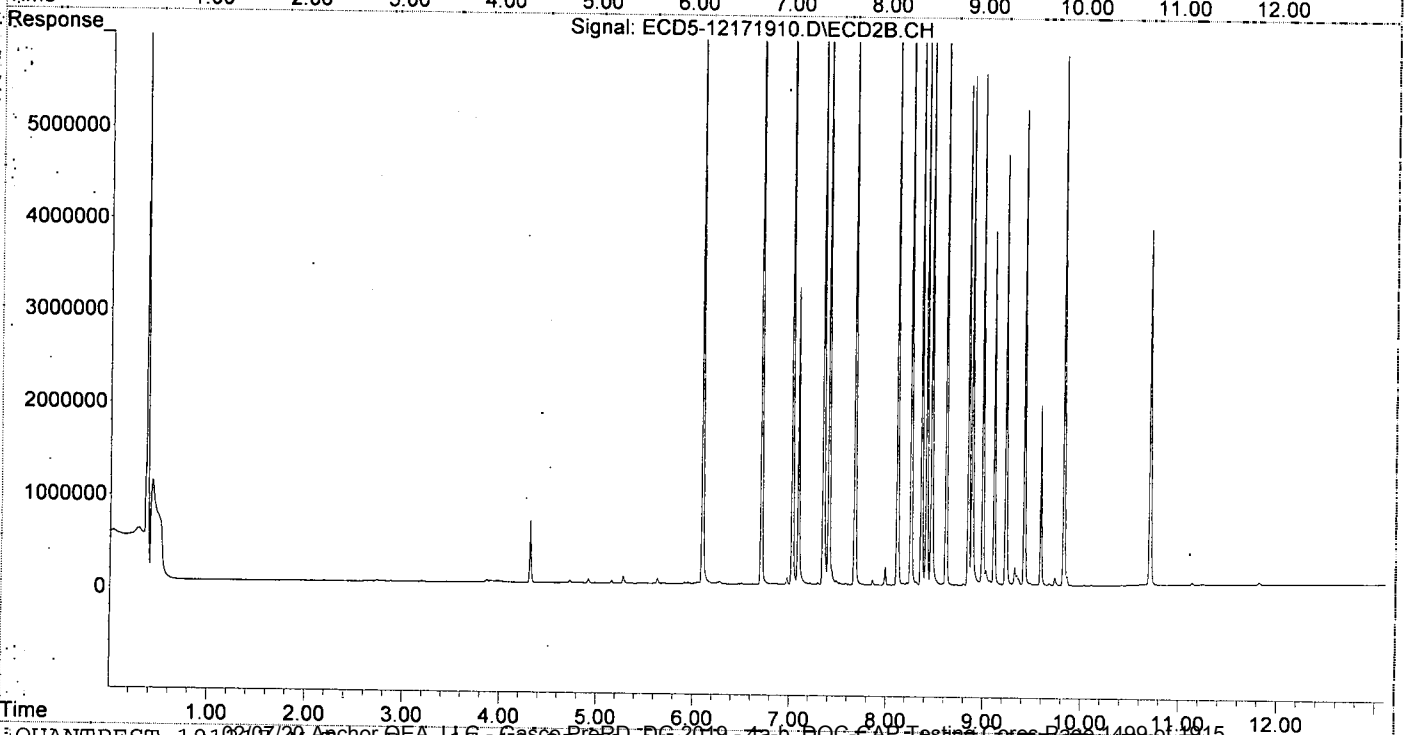
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171910.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:35
Operator : MJB
Sample : 9L17040-CAL6
Misc : A19K132, 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: Dec 17 18:24:14 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171911.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:52
Operator : MJB
Sample : 9L17040-CAL7
Misc : A19K133, 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: Dec 17 18:24:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

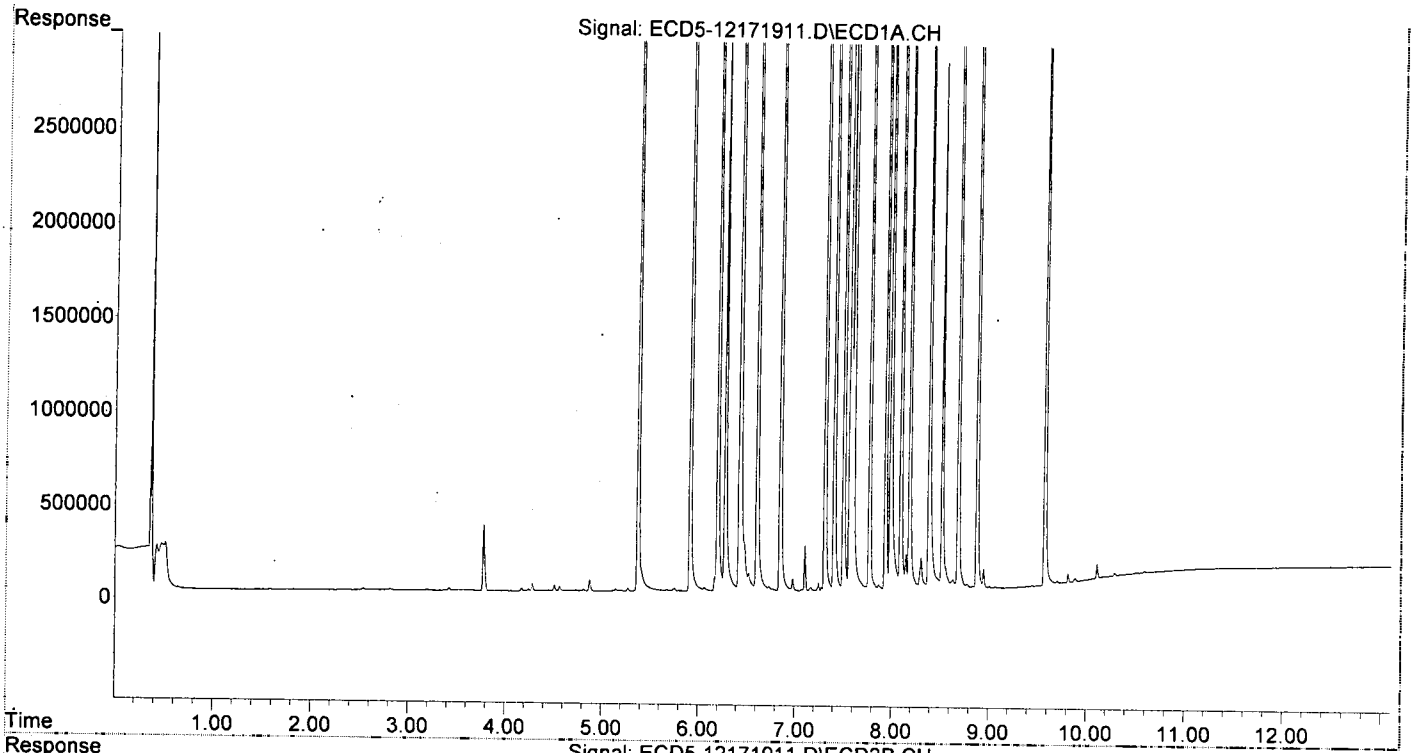
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.374	6.093	8449545	14176645	26.575	25.265
22)	S	DCBP (S)	9.575	10.701	6524046	8054885	24.191	23.485
		Target Compounds						
2)		a-BHC	5.914	6.702	11868342	20274387	27.011	25.832
3)		g-BHC	6.197	7.022	10057825	17320813	26.024	25.396
4)		b-BHC	6.273	7.084	3539897	6647192	20.544	22.011
5)		Heptachlor	6.605	7.400	9059429	14845579	26.114	25.371
6)		d-BHC	6.423	7.342	7754511	15790849	20.651	23.458
7)		Aldrin	6.846	7.669	9536334	15779115	25.206	25.060
8)		Heptachlo...	7.308	8.109	8647248	14017061	24.556	24.398
9)		trans-Chl...	7.403	8.249	8893103	14430791	25.142	24.146
10)		cis-Chlor...	7.500	8.357	8733660	13785379	25.092	24.759
11)		Endosulfa...	7.598	8.409	8514085	12951478	26.118	24.634
12)		4,4'-DDE	7.564	8.460	7777850	14315538	21.591	24.122
13)		Dieldrin	7.770	8.611	9670712	14983375	26.304	25.763
14)		Endrin	7.935	8.841	7708910	11257846	27.368	26.078
15)		4,4'-DDD	7.986	8.878	6499503	11466499	21.662	23.451
16)		Endosulfa...	8.092	8.987	7288047	11493514	26.528	26.084
17)		4,4'-DDT	8.183	9.106	5824163	9100039	25.496	21.597
18)		Endrin Al...	8.384	9.225	5674743	9436227	20.540	21.416
19)		Endosulfa...	8.686	9.416	7195661	10961689	24.297	23.064
20)		Methoxychlor	8.520	9.585	2789794	4280365	24.959	21.258
21)		Endrin Ke...	8.880	9.821	8447896	11683419	26.476	23.823
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

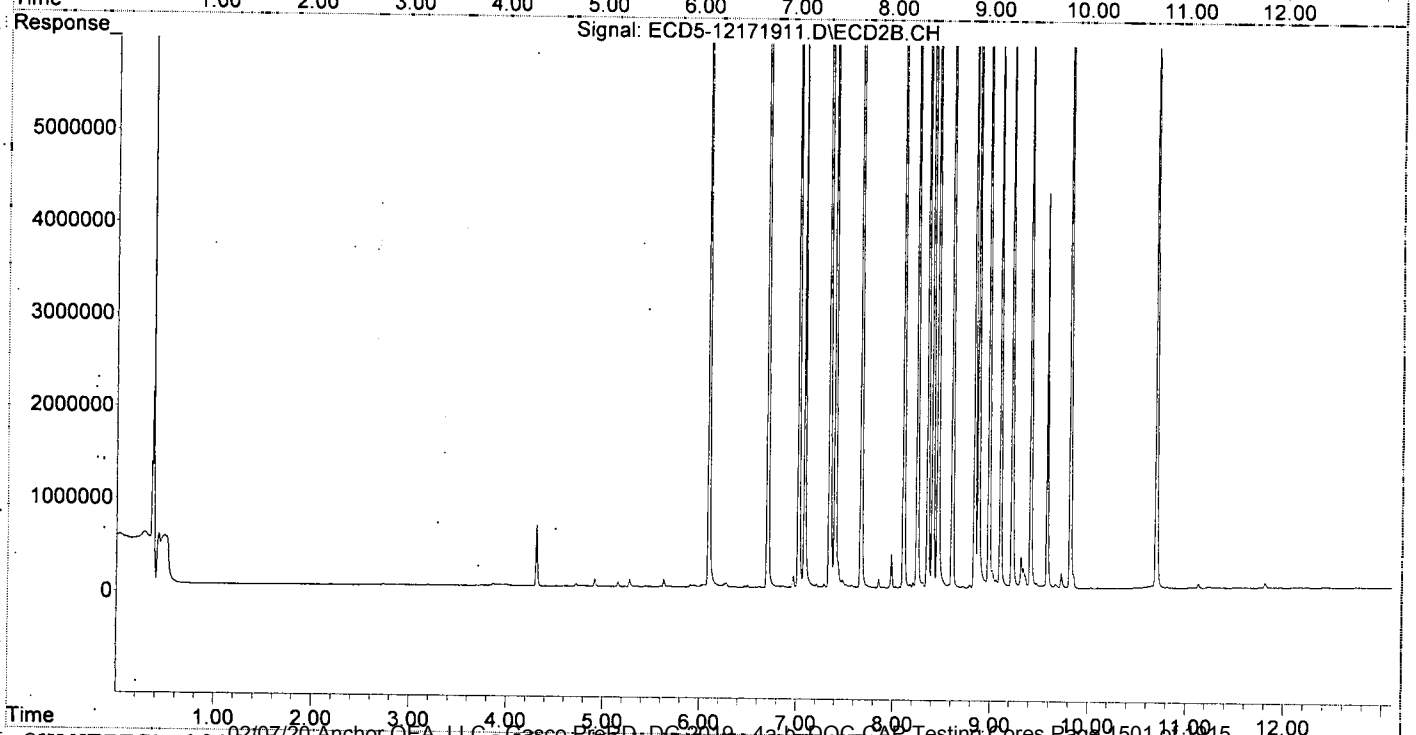
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171911.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 13:52
Operator : MJB
Sample : 9L17040-CAL7
Misc : A19K133, 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: Dec 17 18:24:55 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 14:09
Operator : MJB
Sample : 9L17040-CAL8
Misc : A19K134, 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: Dec 17 18:25:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

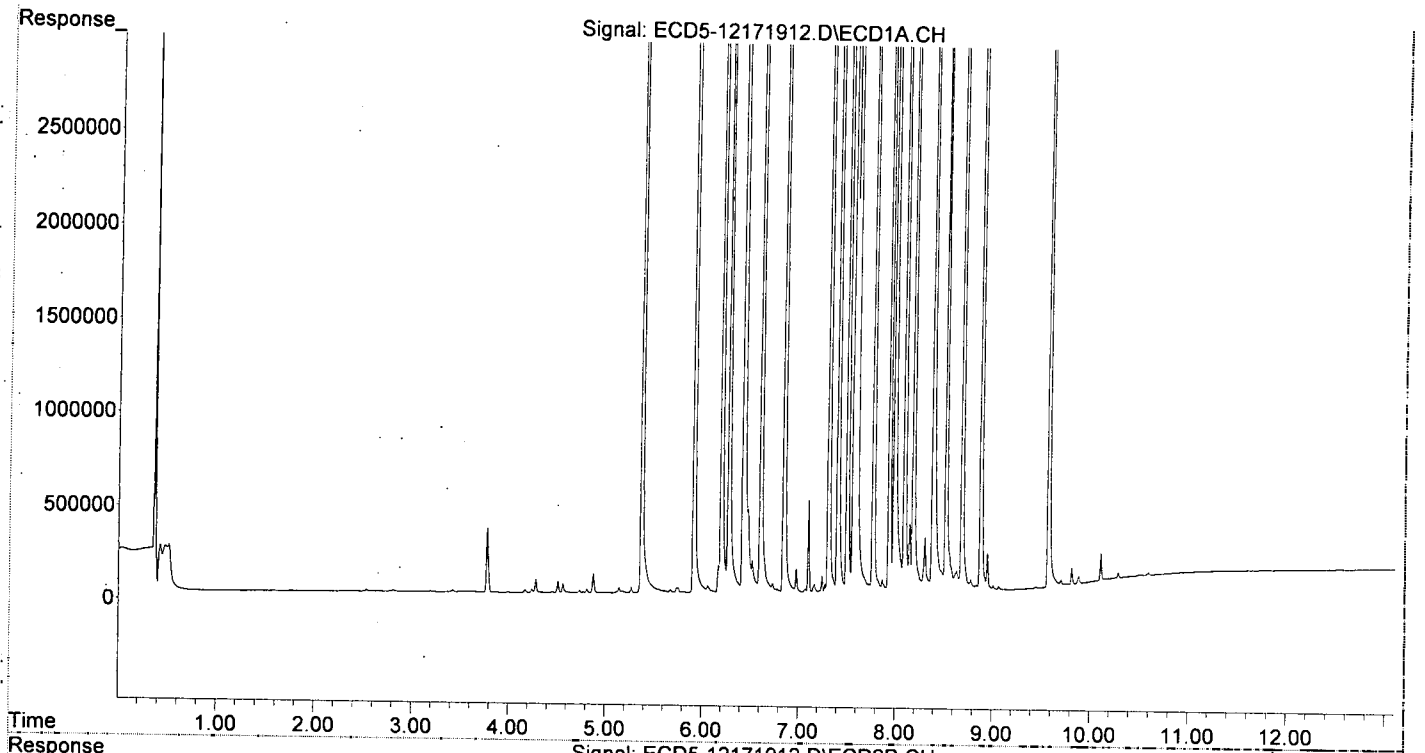
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.373	6.093	17197724	30640622	54.089	54.607
22) S	DCBP (S)	9.575	10.702	13681671	16518476	50.732	48.161
	Target Compounds						
2)	a-BHC	5.913	6.702	24524520	44068155	55.816	56.149
3)	g-BHC	6.196	7.022	21080579	37444172	54.545	54.901
4)	b-BHC	6.272	7.083	7741430	14145006	44.929	46.840
5)	Heptachlor	6.604	7.400	19422226	33292648	55.985	56.896
6)	d-BHC	6.422	7.342	17674060	34770087	47.067	51.653
7)	Aldrin	6.845	7.669	19724511	33995438	52.135	53.991
8)	Heptachlo...	7.307	8.108	17929060	30921682	50.918	53.823
9)	trans-Chl...	7.402	8.248	18532311	31265073	52.394	52.315
10)	cis-Chlor...	7.499	8.357	18114632	29807216	52.044	53.534
11)	Endosulfa...	7.597	8.409	17483481	28011777	53.634	53.280
12)	4,4'-DDE	7.563	8.460	17040817	31400152	47.305	52.909
13)	Dieldrin	7.769	8.611	19972896	32774728	54.326	56.354
14)	Endrin	7.935	8.841	15865799	24673444	56.327	57.154
15)	4,4'-DDD	7.985	8.878	14149556	25324880	47.159	51.794
16)	Endosulfa...	8.092	8.987	15261241	25263705	55.549	57.334
17)	4,4'-DDT	8.182	9.106	13032007	20662586	57.050	56.276
18)	Endrin Al...	8.384	9.225	11868626	19673843	49.142	50.889
19)	Endosulfa...	8.685	9.416	14994080	23600428	50.629	49.658
20)	Methoxychlor	8.518	9.584	6044972	9837727	54.081	55.986
21)	Endrin Ke...	8.879	9.821	17546140	25560662	54.990	52.119
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

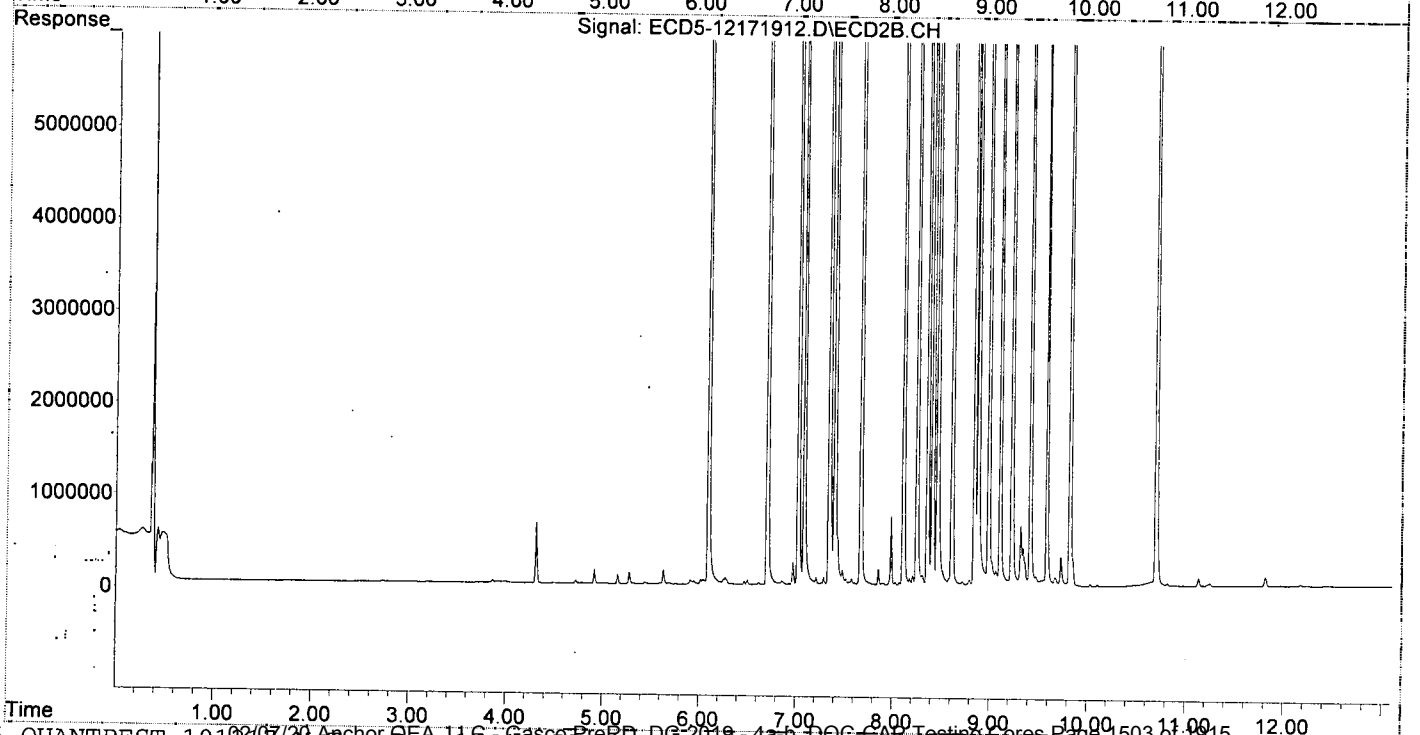
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171912.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 14:09
Operator : MJB
Sample : 9L17040-CAL8
Misc : A19K134, 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: Dec 17 18:25:22 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 14:27
Operator : MJB
Sample : 9L17040-CAL9
Misc : A19K126, 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: Dec 17 18:25:57 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

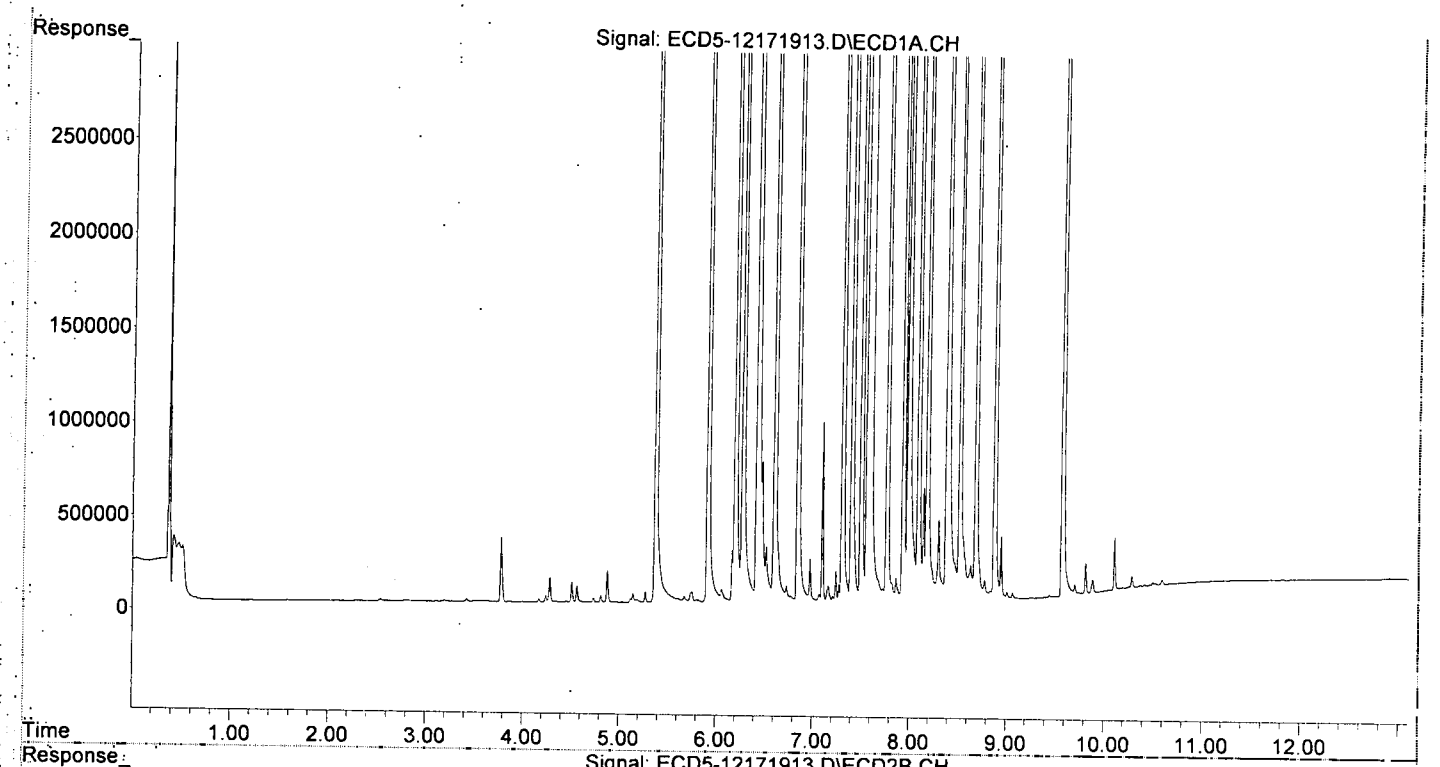
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.373	6.094	35014348	63960499	110.124	113.989
22)	S	DCBP (S)	9.575	10.701	28470025	35889299	105.568	104.639
		Target Compounds						
2)		a-BHC	5.914	6.703	49497834	90863551	112.653	115.773
3)		g-BHC	6.196	7.023	41793057	76529101	108.138	112.207
4)		b-BHC	6.272	7.083	16244340	30004416	94.277	99.356
5)		Heptachlor	6.605	7.400	39401377	69074079	113.576	118.046
6)		d-BHC	6.422	7.342	37539585	76239367	99.970	113.258
7)		Aldrin	6.845	7.669	40156558	70646128	106.141	112.199
8)		Heptachlo...	7.307	8.109	36145136	65013871	102.642	113.165
9)		trans-Chl...	7.402	8.249	36829271	65826657	104.122	110.145
10)		cis-Chlor...	7.499	8.357	36275364	63198125	104.220	113.505
11)		Endosulfa...	7.597	8.410	34925972	60208314	107.141	114.519
12)		4,4'-DDE	7.562	8.460	36106803	67790061	100.231	114.226
13)		Dieldrin	7.769	8.611	40260245	67879313	109.506	116.715
14)		Endrin	7.934	8.841	32938881	52850159	116.940	122.423
15)		4,4'-DDD	7.984	8.878	30379139	54696204	101.251	111.865
16)		Endosulfa...	8.091	8.987	31437910	53656877	114.430	121.771
17)		4,4'-DDT	8.181	9.106	28241147	45209295	123.631	BelowCal #
18)		Endrin Al...	8.383	9.225	24094000	43631591	BelowCal	BelowCal
19)		Endosulfa...	8.685	9.416	30580173	49664905	103.257	104.500
20)		Methoxychlor	8.518	9.584	13324107	21392963	119.204	BelowCal #
21)		Endrin Ke...	8.879	9.822	36120990	56423545	113.205	115.050
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

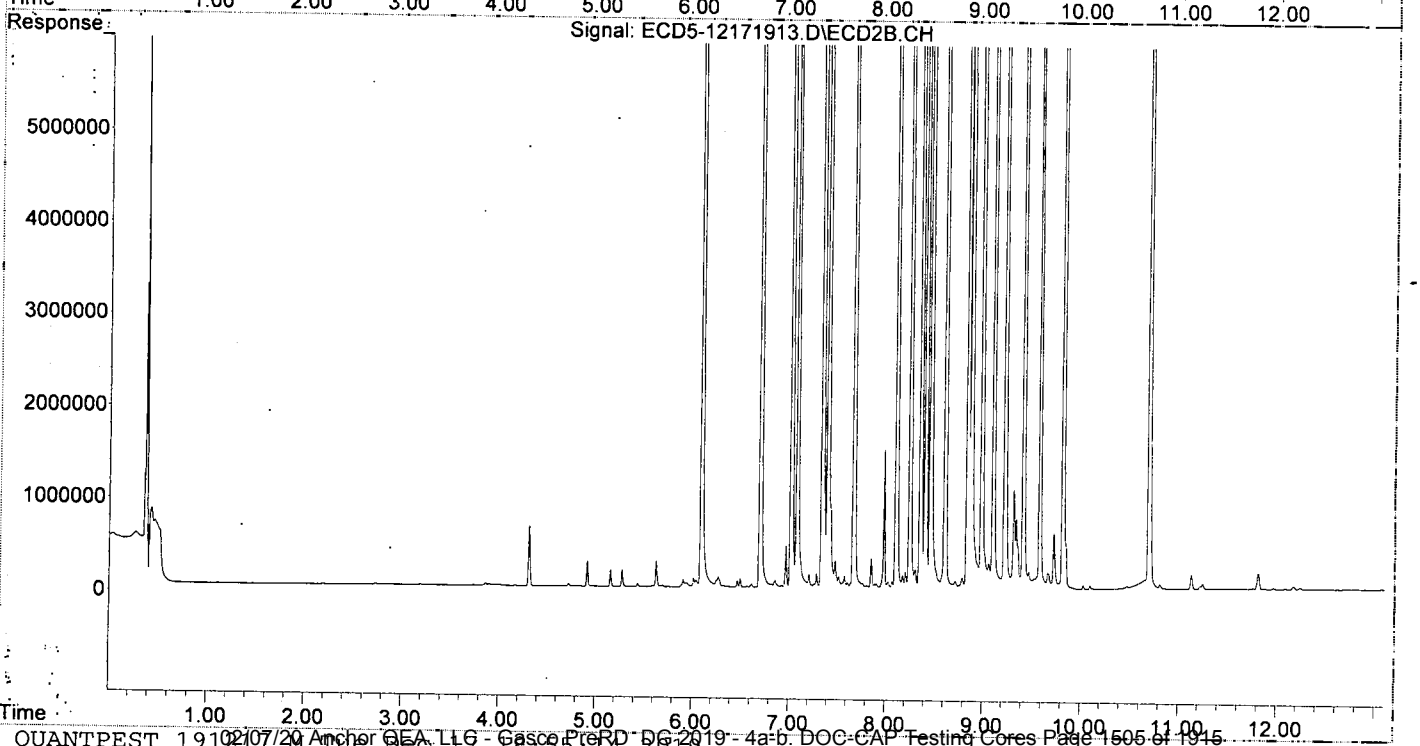
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171913.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 14:27
Operator : MJB
Sample : 9L17040-CAL9
Misc : A19K126, 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: Dec 17 18:25:57 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:18
Operator : MJB
Sample : 9L17040-CALA
Misc : A19L232, 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: Dec 17 18:28:49 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

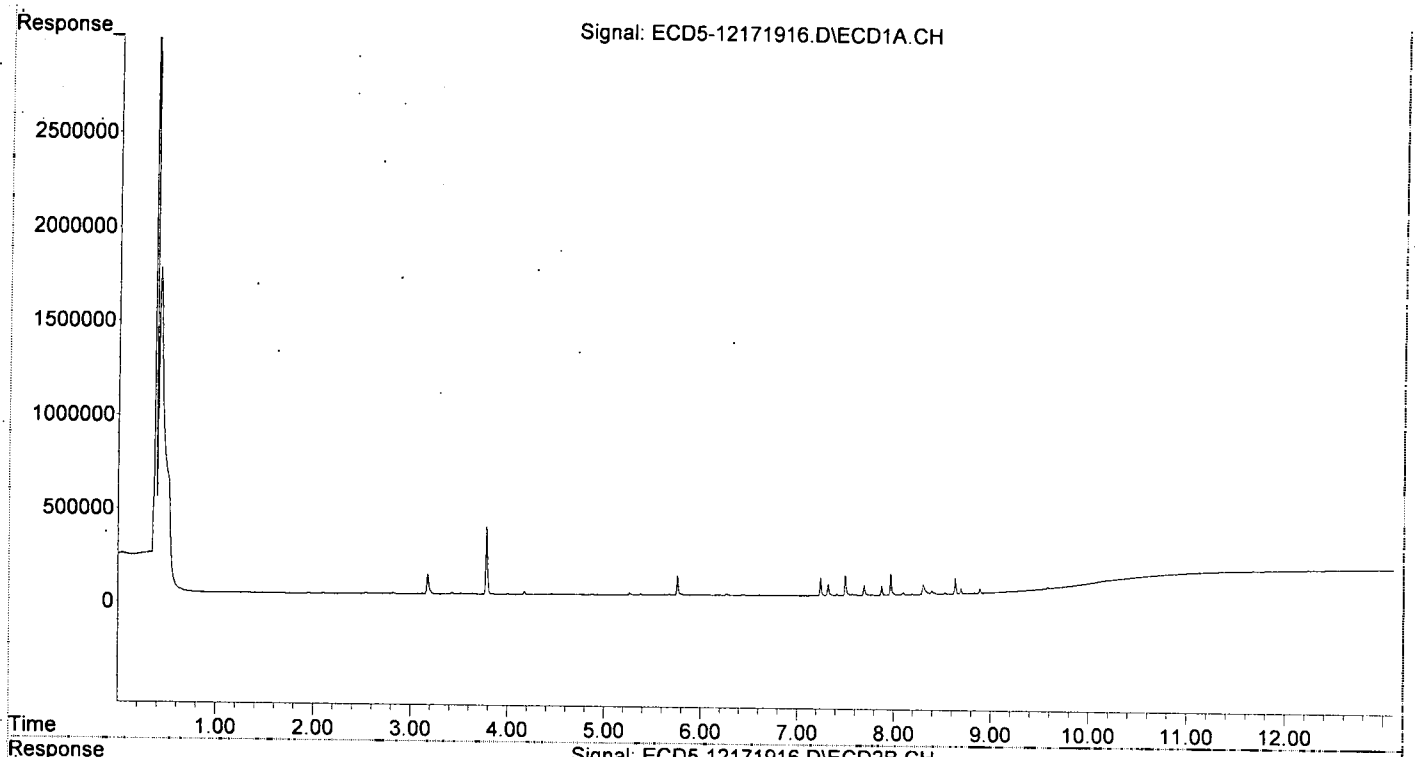
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.171	3.775	106143	208302	0.273	0.261
24)		Hexachlor...	5.756	6.563	103857	168053	0.278	0.253
25)		Oxychlordane	7.238	8.038	95907	146369	0.275	0.252
26)		2,4'-DDE	7.316	8.241	60510	105594	0.222	0.235
27)		trans-Non...	7.494	8.313	106883	158141	0.185	0.247
28)		2,4'-DDD	7.689	8.615	56916	100478	0.235	0.251
29)		2,4'-DDT	7.870	8.842	50574	77757	0.217	0.205
30)		cis-Nonac...	7.964	8.882	116267	185621	0.264	0.261
31)		Mirex	8.631	9.819	85238	131195	0.321	0.333
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

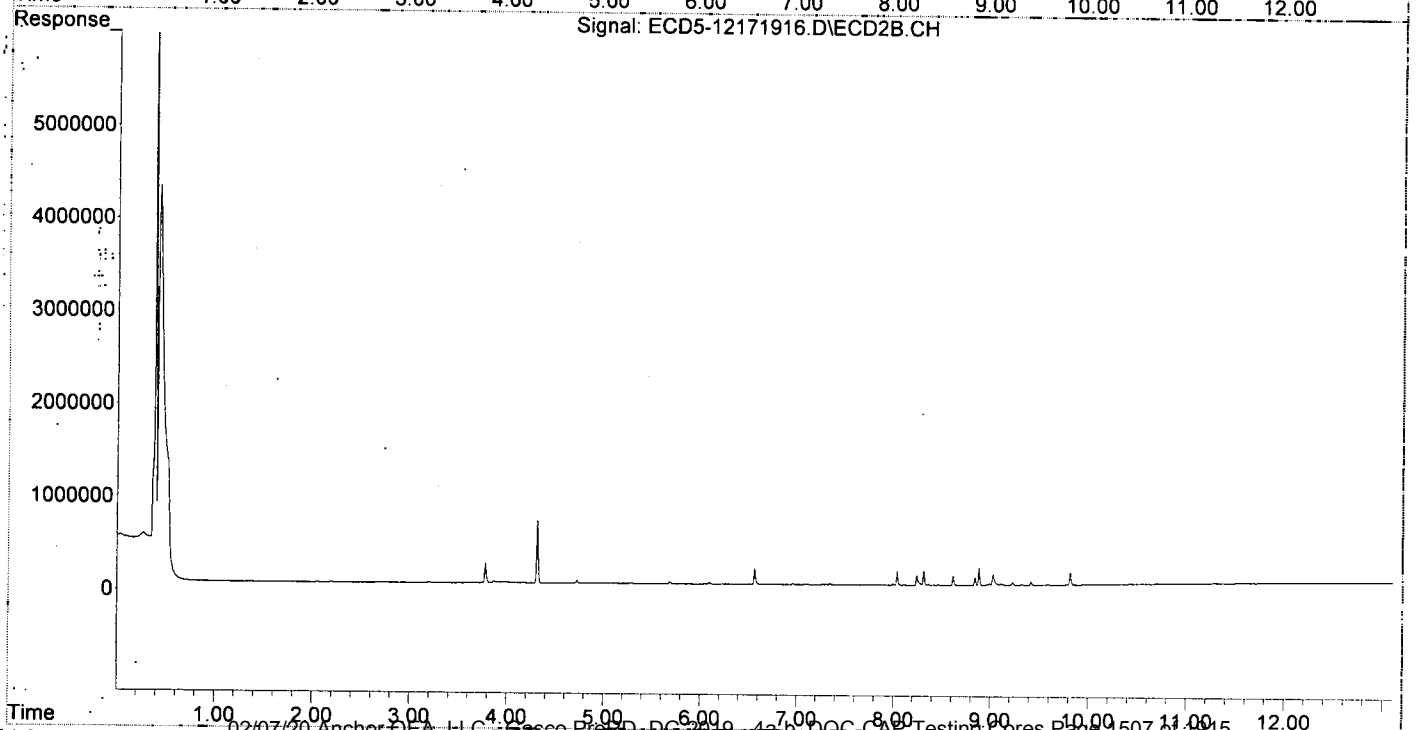
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171916.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:18
Operator : MJB
Sample : 9L17040-CALA
Misc : A19L232, 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: Dec 17 18:28:49 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:35
Operator : MJB
Sample : 9L17040-CALB
Misc : A19K263, 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: Dec 17 18:29:34 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJP 12/17/19

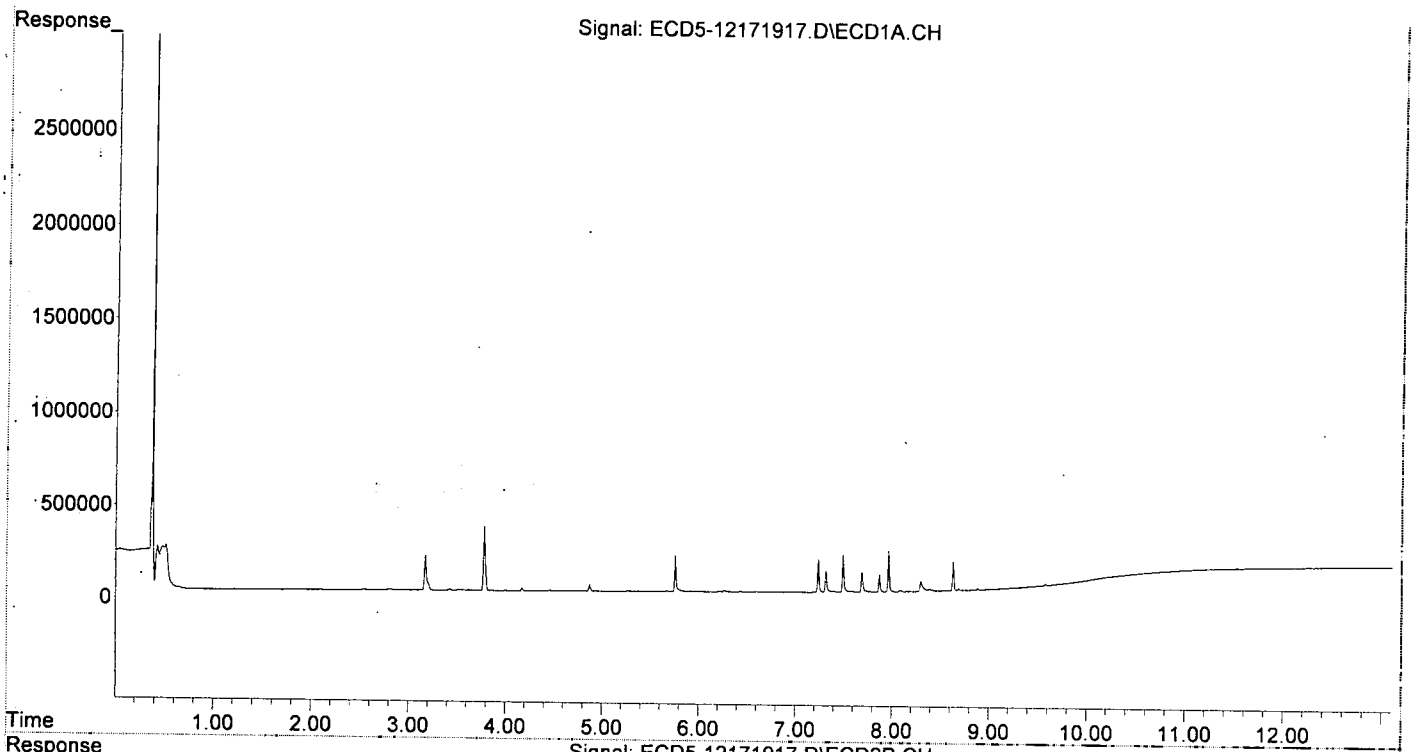
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.170	3.774	188124	376994	0.484	0.473
24)		Hexachlor...	5.755	6.563	192193	316745	0.514	0.476
25)		Oxychlordane	7.236	8.036	176361	273521	0.505	0.472
26)		2,4'-DDE	7.314	8.239	113603	195287	0.418	0.434
27)		trans-Non...	7.492	8.311	198603	294049	0.410	0.460
28)		2,4'-DDD	7.688	8.614	105189	184058	0.434	0.460
29)		2,4'-DDT	7.869	8.840	95238	144489	0.409	0.382
30)		cis-Nonac...	7.963	8.881	220253	320665	0.500	0.451
31)		Mirex	8.629	9.816	158597	208028	0.597	0.528
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

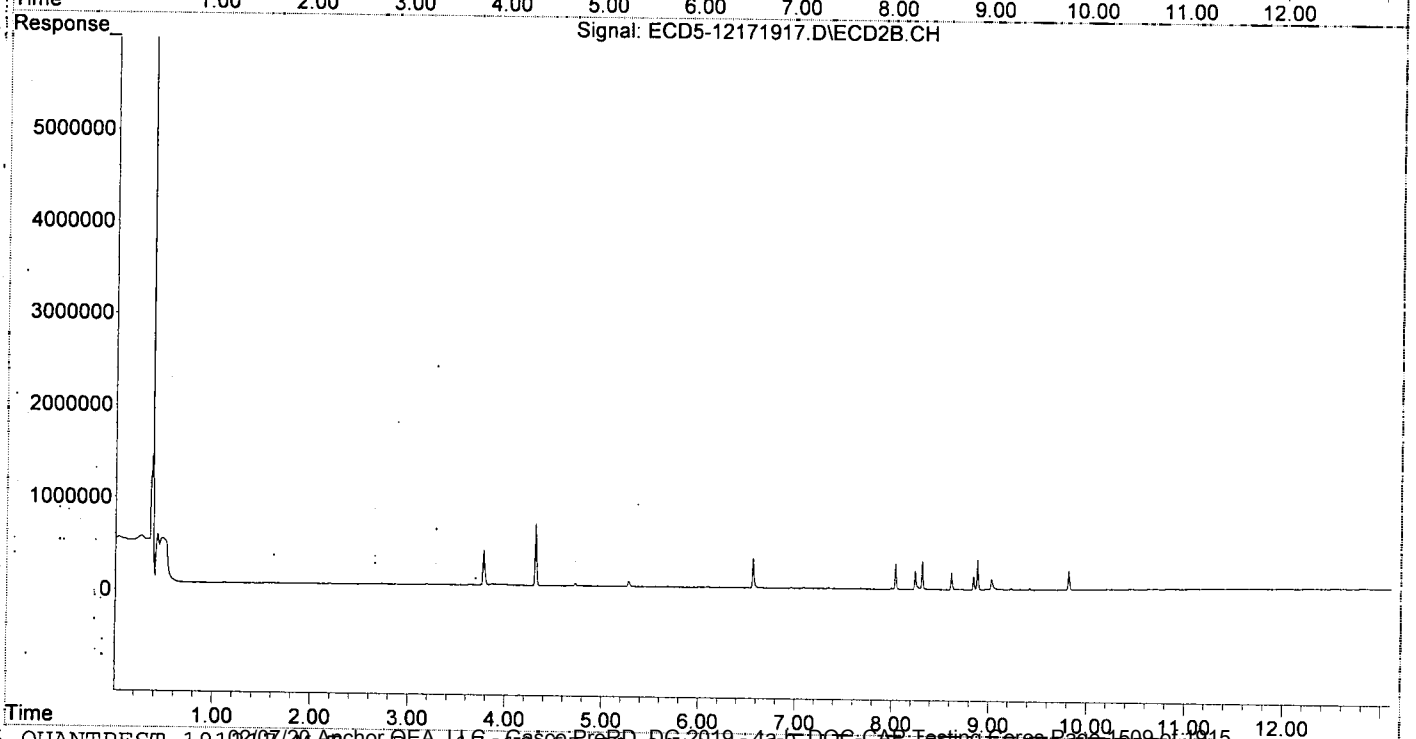
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171917.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:35
Operator : MJB
Sample : 9L17040-CALB
Misc : A19K263, 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: Dec 17 18:29:34 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq.On : 17 Dec 2019 15:53
Operator : MJB
Sample : 9L17040-CALC
Misc : A19K264, 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: Dec 17 18:30:16 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12.17.19

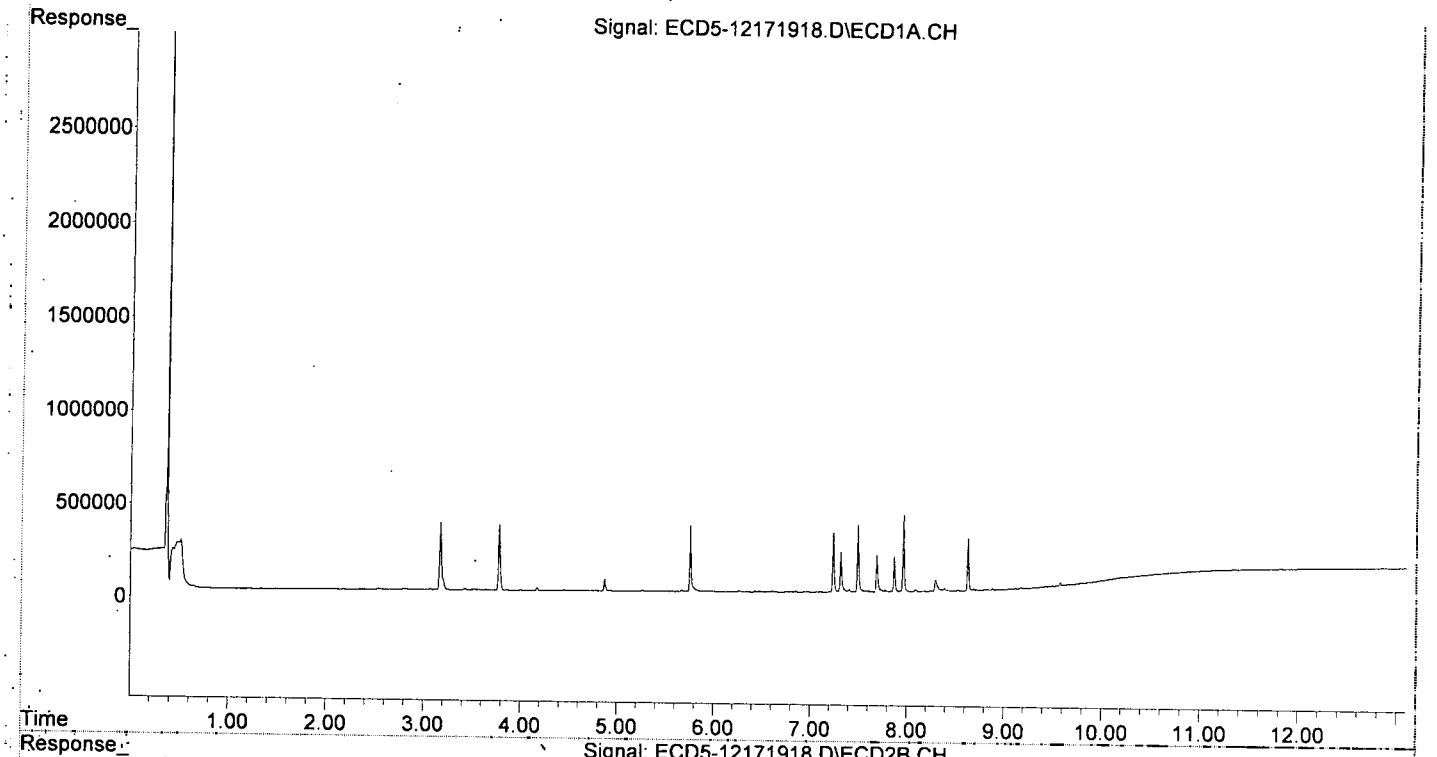
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.170	3.775	362145	727357	0.932	0.912
24)		Hexachlor...	5.754	6.562	351615	576454	0.941	0.866
25)		Oxychlordane	7.236	8.036	316566	491168	0.907	0.847
26)		2,4'-DDE	7.314	8.238	213313	367032	0.784	0.816
27)		trans-Non...	7.491	8.311	359472	535823	0.806	0.838
28)		2,4'-DDD	7.687	8.613	193713	332609	0.800	0.832
29)		2,4'-DDT	7.867	8.839	186867	278769	0.802	0.736
30)		cis-Nonac...	7.962	8.880	411349	603233	0.934	0.848
31)		Mirex	8.628	9.816	276752	367611	1.041	0.934
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

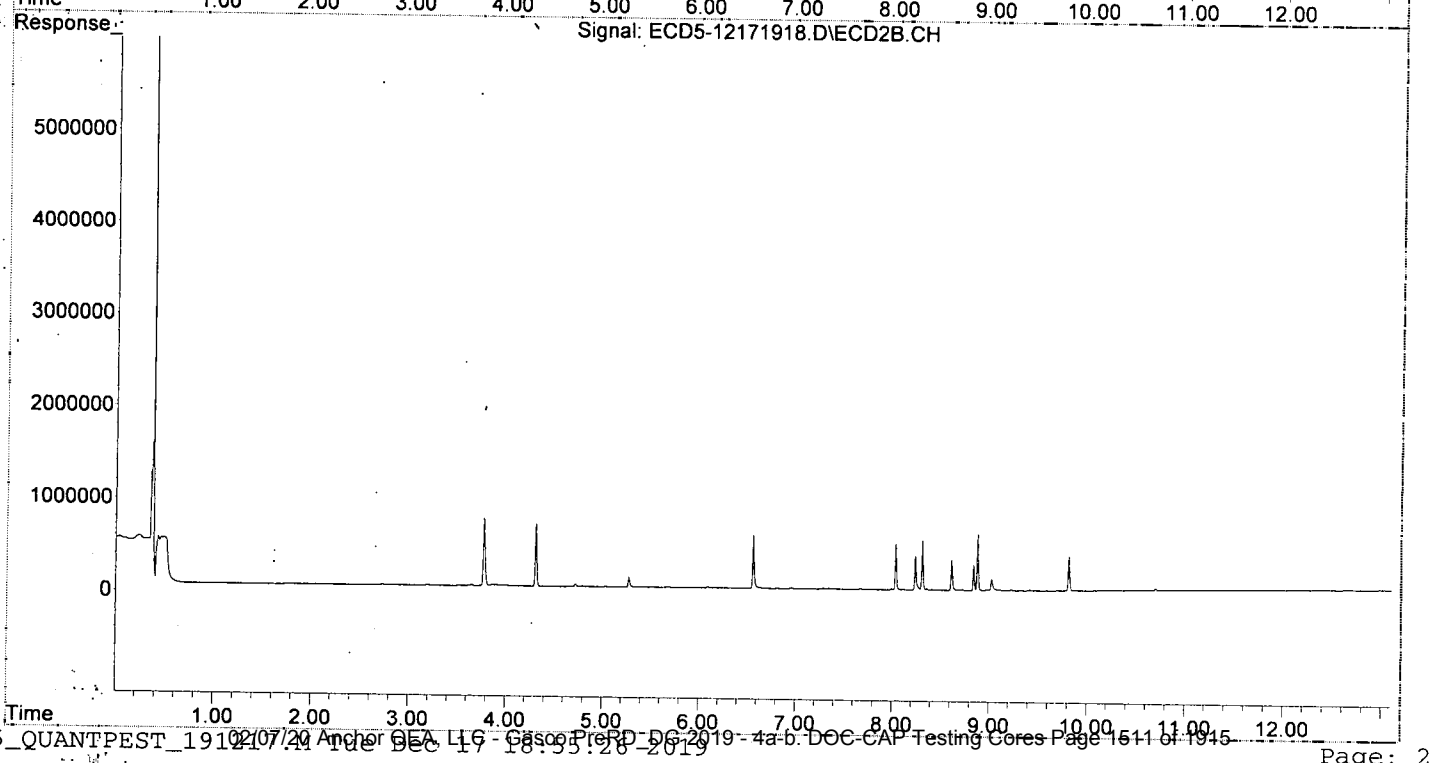
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171918.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 15:53
Operator : MJB
Sample : 9L17040-CALC
Misc : A19K264, 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: Dec 17 18:30:16 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 16:10
Operator : MJB
Sample : 9L17040-CALD
Misc : A19K265, 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: Dec 17 18:30:58 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MP 12/19/19

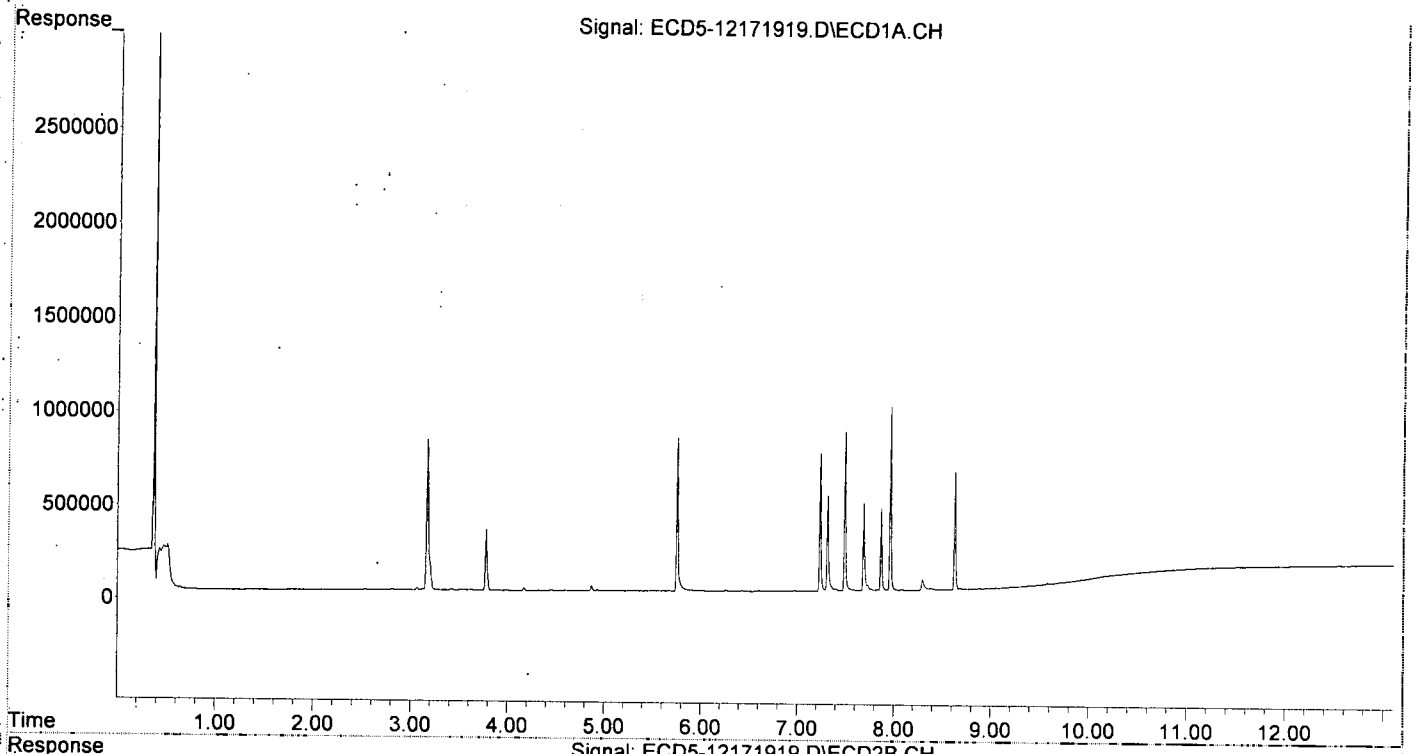
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.168	3.773	804572	1627240	2.072	2.040
24)		Hexachlor...	5.753	6.561	808631	1385505	2.164	2.083
25)		Oxychlordane	7.234	8.035	735392	1164662	2.107	2.008
26)		2,4'-DDE	7.312	8.237	508879	879058	1.870	1.955
27)		trans-Non...	7.490	8.310	840623	1309235	1.993	2.048
28)		2,4'-DDD	7.686	8.612	469389	785110	1.939	1.963
29)		2,4'-DDT	7.867	8.838	436892	659795	1.876	1.743
30)		cis-Nonac...	7.961	8.879	980127	1430117	2.225	2.011
31)		Mirex	8.628	9.815	627521	816726	2.360	2.075
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

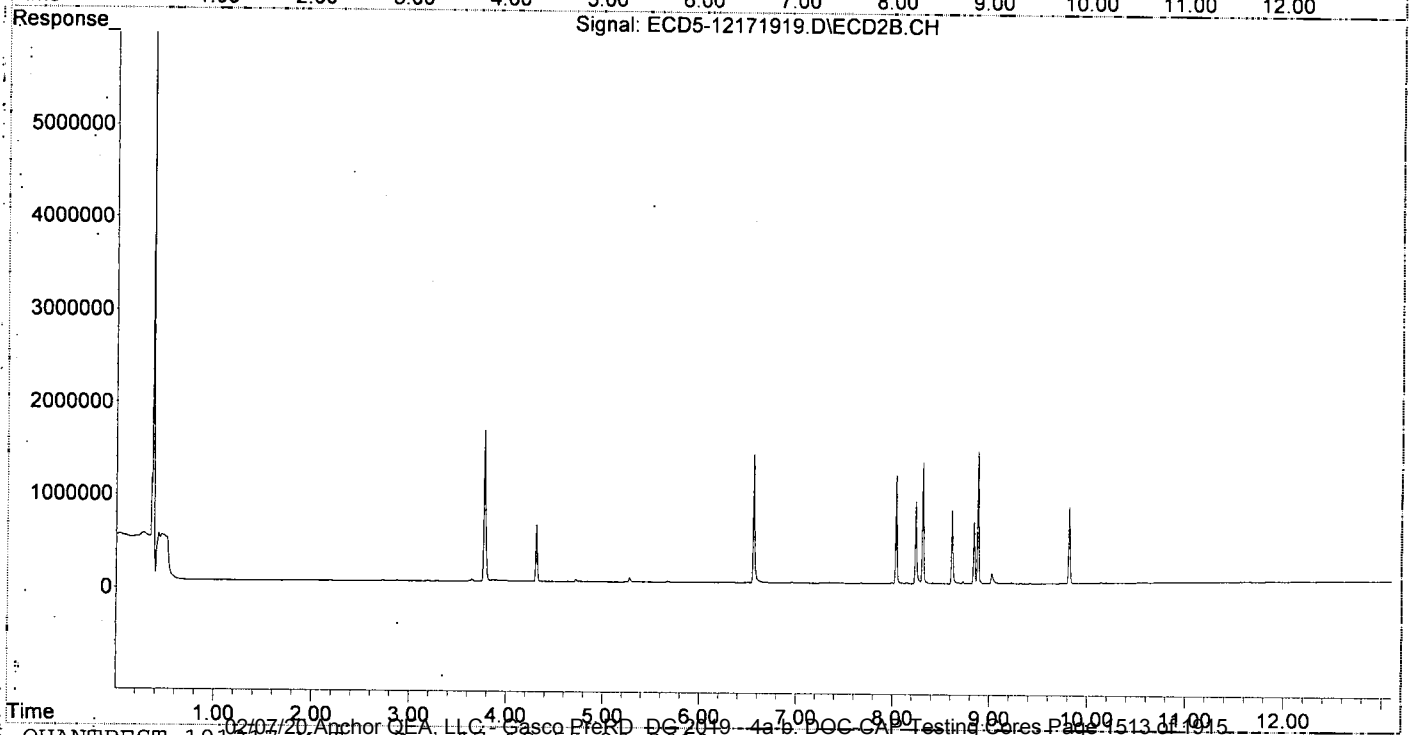
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171919.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 16:10
Operator : MJB
Sample : 9L17040-CALD
Misc : A19K265, 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: Dec 17 18:30:58 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 16:27
Operator : MJB
Sample : 9L17040-CALE
Misc : A19K266, 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: Dec 17 18:31:34 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

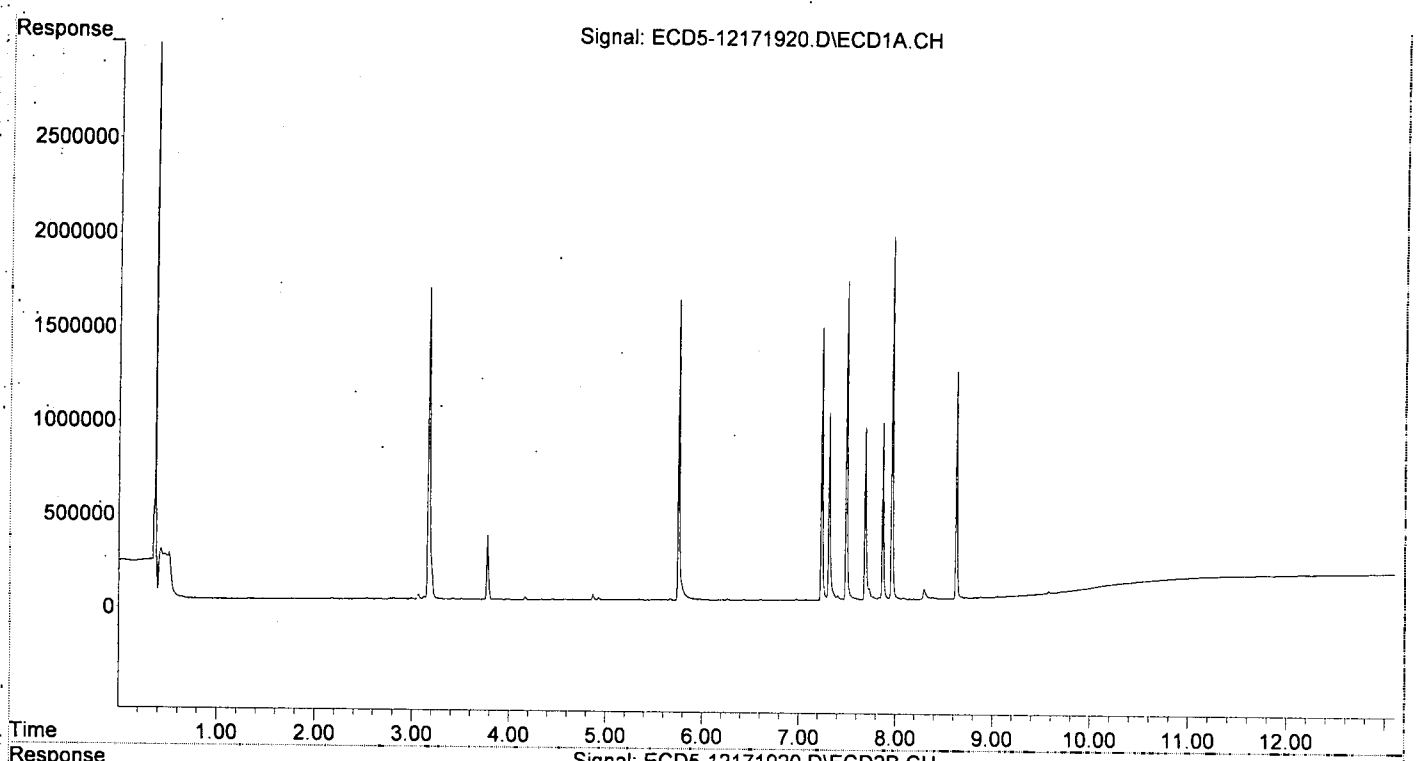
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.169	3.774	1663824	3458035	4.284	4.336
24)	Hexachlor...	5.754	6.562	1598509	2728461	4.277	4.101
25)	Oxychlordane	7.235	8.036	1457065	2290016	4.175	3.949
26)	2,4'-DDE	7.313	8.238	1007610	1768686	3.703	3.934
27)	trans-Non...	7.491	8.310	1684656	2581619	4.086	4.038
28)	2,4'-DDD	7.686	8.613	924430	1537306	3.818	3.844
29)	2,4'-DDT	7.868	8.839	940746	1365742	4.039	3.607
30)	cis-Nonac...	7.962	8.881	1943329	2995888	4.411	4.212
31)	Mirex	8.628	9.815	1213795	1599749	4.565	4.064
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

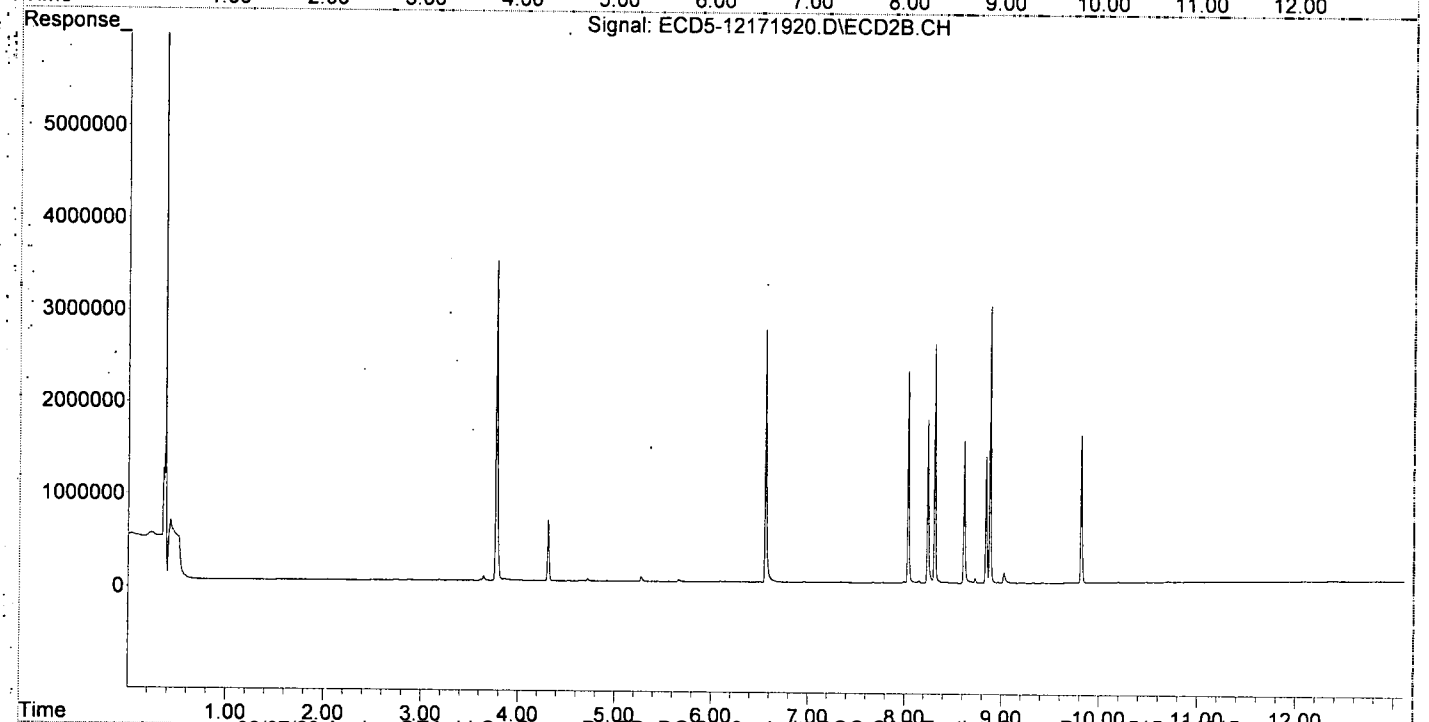
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171920.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 16:27
Operator : MJB
Sample : 9L17040-CALE
Misc : A19K266, 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: Dec 17 18:31:34 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path: R:\data\2019-12\9L17040\
Data File: ECD5-12171921.D
Signal(s): Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 16:44
Operator : MJB
Sample : 9L17040-CALF
Misc : A19J407, 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: Dec 17 18:32:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

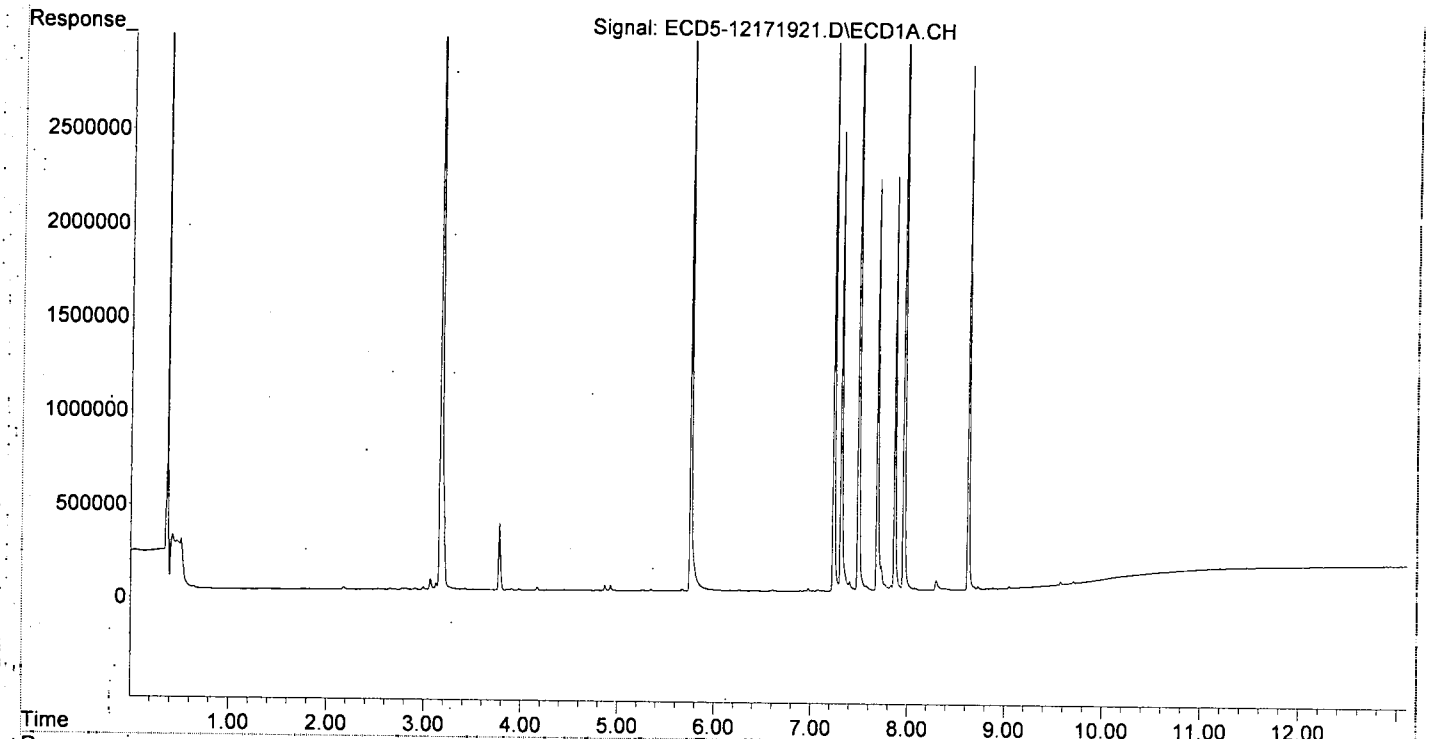
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.170	3.774	3900387	8207671	10.043	10.291
24)	Hexachlor...	5.754	6.562	3887152	6751641	10.401	10.148
25)	Oxychlordane	7.236	8.036	3515520	5691806	10.072	9.815
26)	2,4'-DDE	7.313	8.238	2457675	4303889	9.033	9.572
27)	trans-Non...	7.491	8.311	4026377	6464264	9.966	10.111
28)	2,4'-DDD	7.686	8.613	2201661	3784610	9.093	9.463
29)	2,4'-DDT	7.867	8.839	2187224	3405822	9.391	8.996
30)	cis-Nonac...	7.962	8.880	4695232	7295470	10.658	10.257
31)	Mirex	8.628	9.816	2800811	3813757	10.535	9.687
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

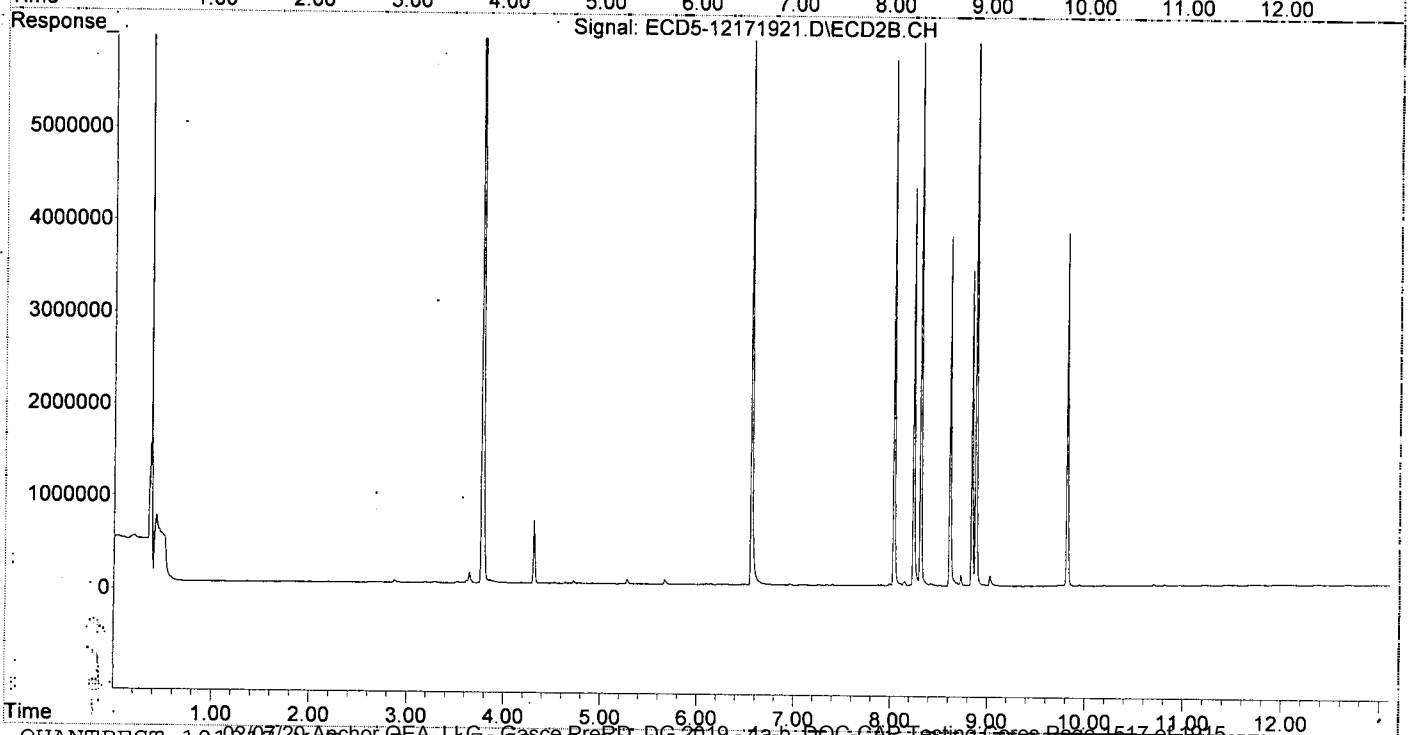
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171921.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 16:44
Operator : MJB
Sample : 9L17040-CALF
Misc : A19J407, 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: Dec 17 18:32:10 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:01
Operator : MJB
Sample : 9L17040-CALG
Misc : A19J408, 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: Dec 17 18:27:46 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

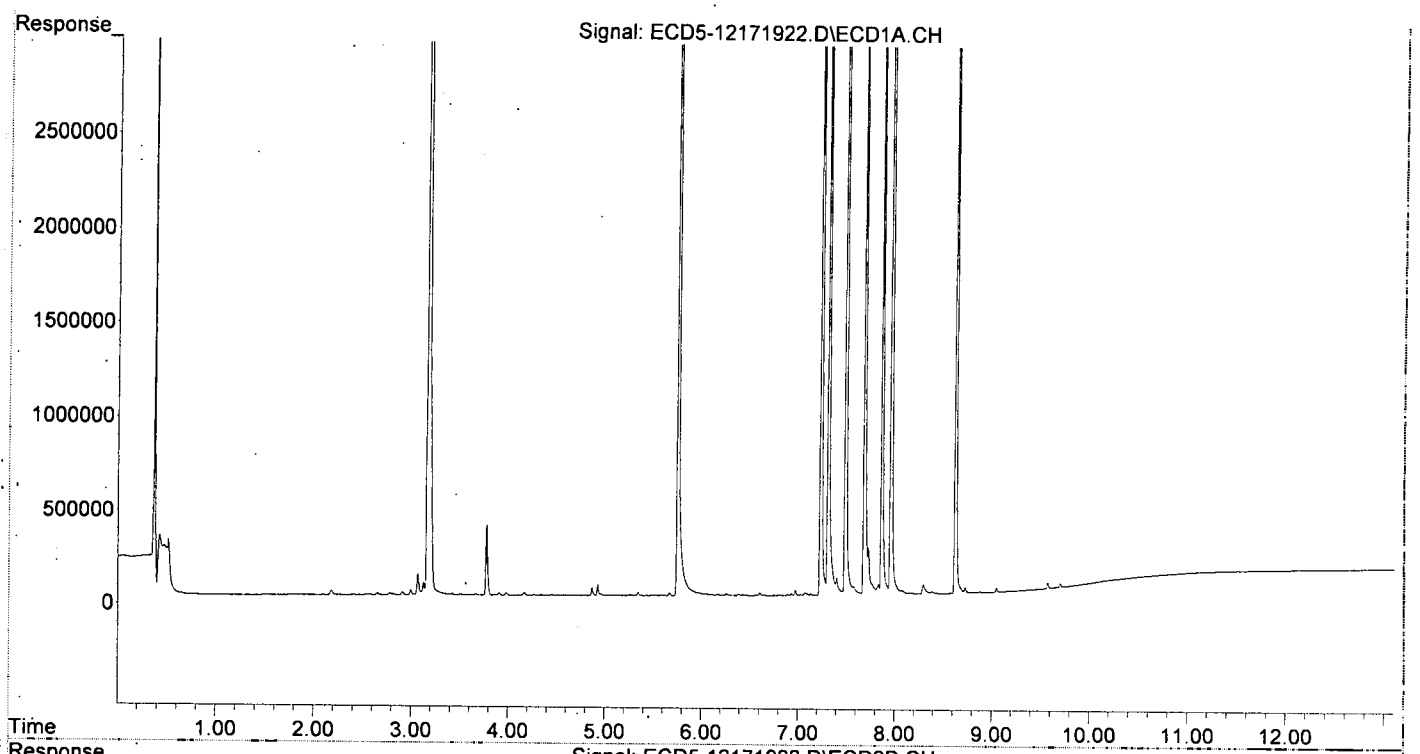
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.171	3.775	8366040	17783921	21.541	22.298
24)		Hexachlor...	5.754	6.562	7985720	14137495	21.368	21.250
25)		Oxychlordane	7.235	8.036	7401813	12341948	21.207	21.284
26)		2,4'-DDE	7.312	8.238	5201688	9346495	19.118	20.786
27)		trans-Non...	7.490	8.311	8501896	13706575	21.518	21.438
28)		2,4'-DDD	7.685	8.613	4566109	7925871	18.858	19.818
29)		2,4'-DDT	7.867	8.839	4703486	7477383	20.194	19.750
30)		cis-Nonac...	7.961	8.880	9880544	15889642	22.428	22.339
31)		Mirex	8.627	9.816	5720531	7933700	21.516	20.152
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

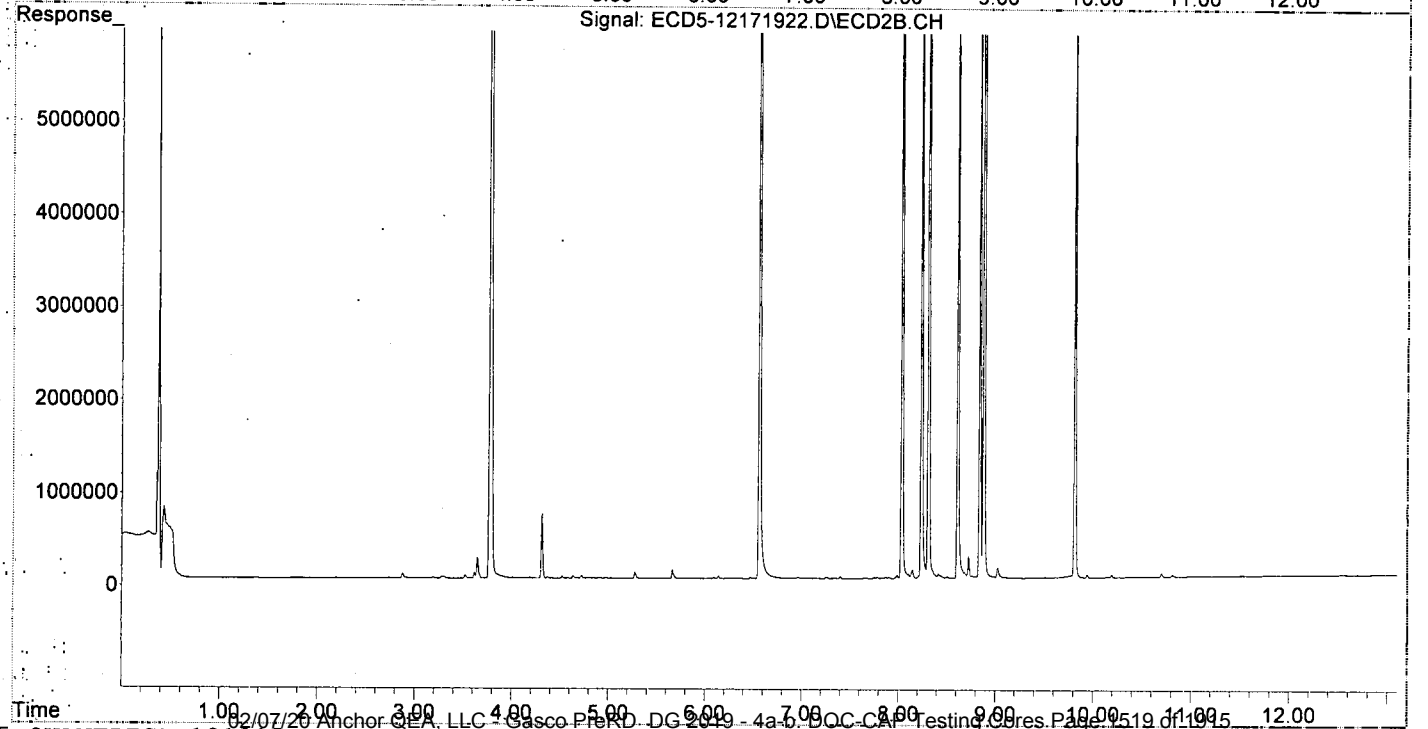
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171922.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:01
Operator : MJB
Sample : 9L17040-CALG
Misc : A19J408, 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: Dec 17 18:27:46 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:19:38 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:19
Operator : MJB
Sample : 9L17040-CALH
Misc : A19J409, 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: Dec 17 18:32:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

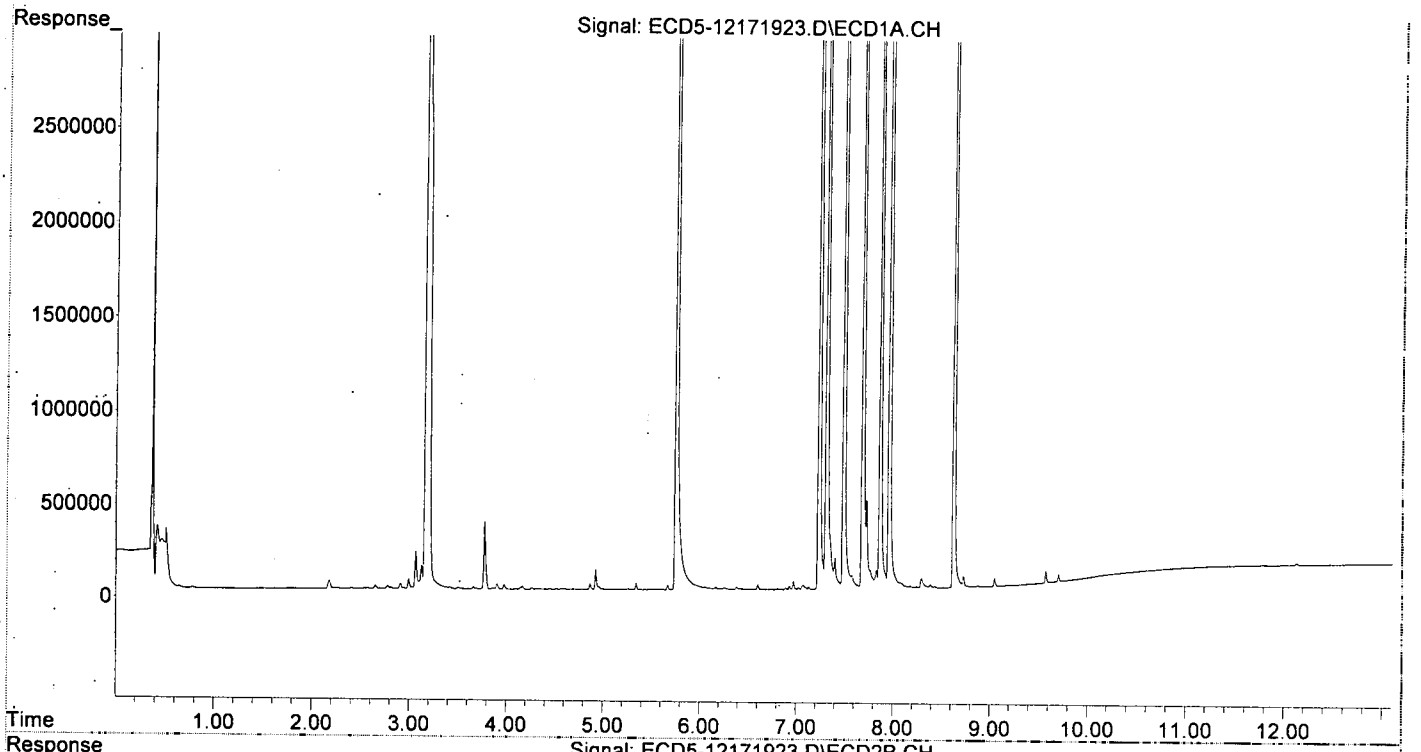
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.170	3.775	15973831	35353095	41.130	44.326
24)	Hexachlor...	5.754	6.562	16223404	30123096	43.410	45.278
25)	Oxychlordane	7.235	8.037	14864709	25663810	42.589	44.257
26)	2,4'-DDE	7.311	8.238	10553066	19561378	38.786	43.504
27)	trans-Non...	7.490	8.311	17126798	29592633	45.114	46.286
28)	2,4'-DDD	7.685	8.613	9588674	16992333	39.602	42.488
29)	2,4'-DDT	7.867	8.839	10139870	16560044	43.536	43.740
30)	cis-Nonac...	7.961	8.881	20224945	32661605	45.910	45.919
31)	Mirex	8.628	9.816	11521461	16894705	43.335	42.914
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

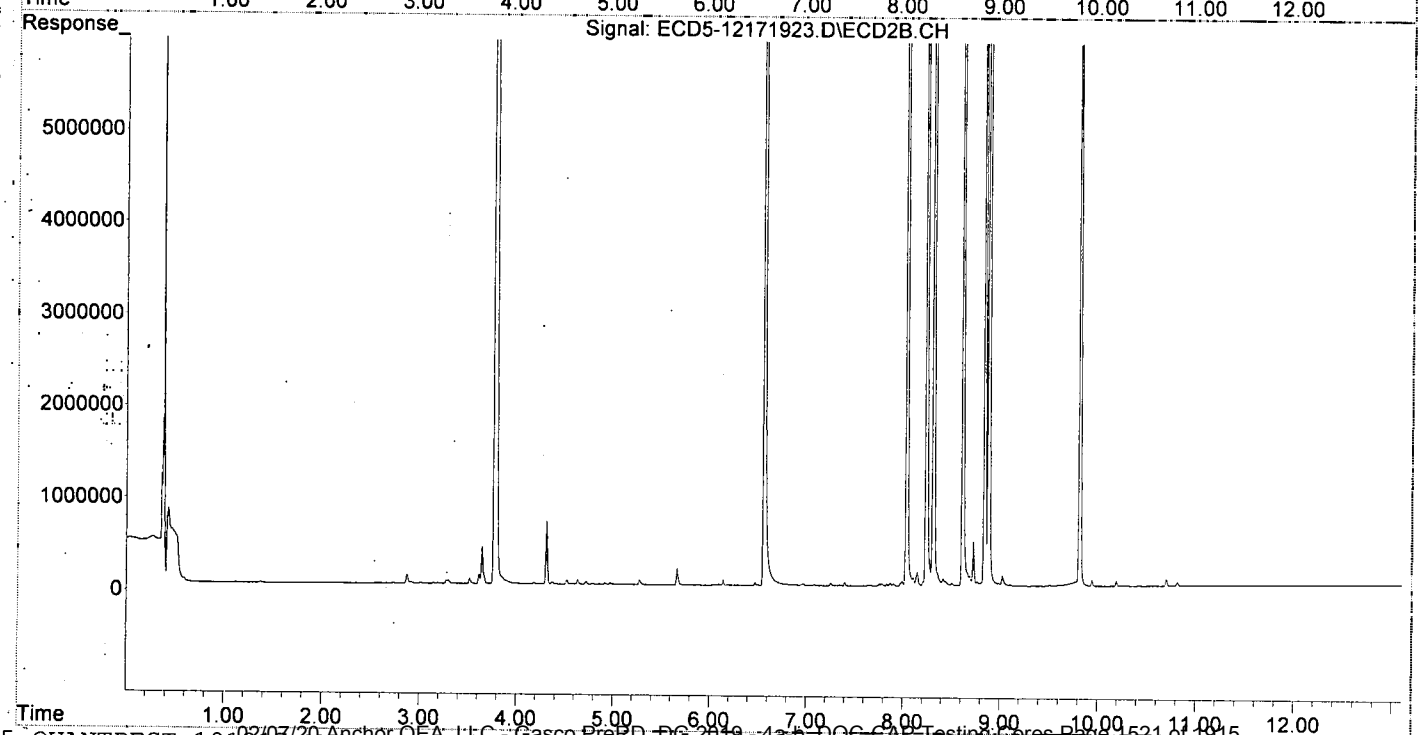
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171923.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:19
Operator : MJB
Sample : 9L17040-CALH
Misc : A19J409, 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: Dec 17 18:32:50 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:36
Operator : MJB
Sample : 9L17040-CALI
Misc : A19K262, 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: Dec 17 18:33:28 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/17/19

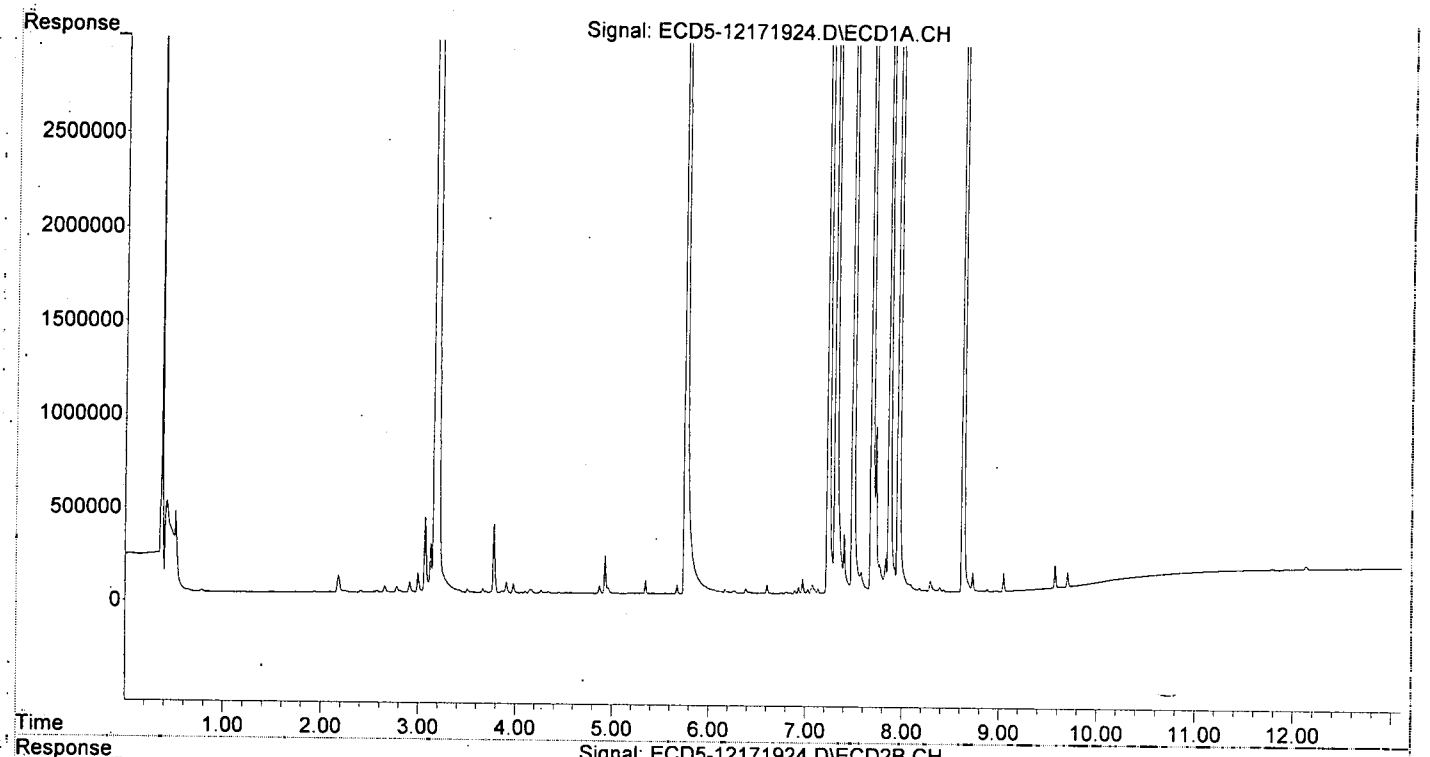
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.171	3.776	34453725	78740386	88.712	98.726
24)		Hexachlor...	5.754	6.563	38988294	58421671	104.325	87.814
25)		Oxychlordane	7.234	8.036	33423505	54409204	95.762	93.828
26)		2,4'-DDE	7.309	8.237	23737847	42847182	87.244	95.291
27)		trans-Non...	7.489	8.311	37341798	62448664	110.289	97.675
28)		2,4'-DDD	7.683	8.612	21489158	36787414	88.752	91.984
29)		2,4'-DDT	7.866	8.838	23322813	38309021	100.137	101.184
30)		cis-Nonac...	7.961	8.881	43359729	73303375	98.425	103.057
31)		Mirex	8.627	9.815	25367252	37614016	95.413	95.543
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

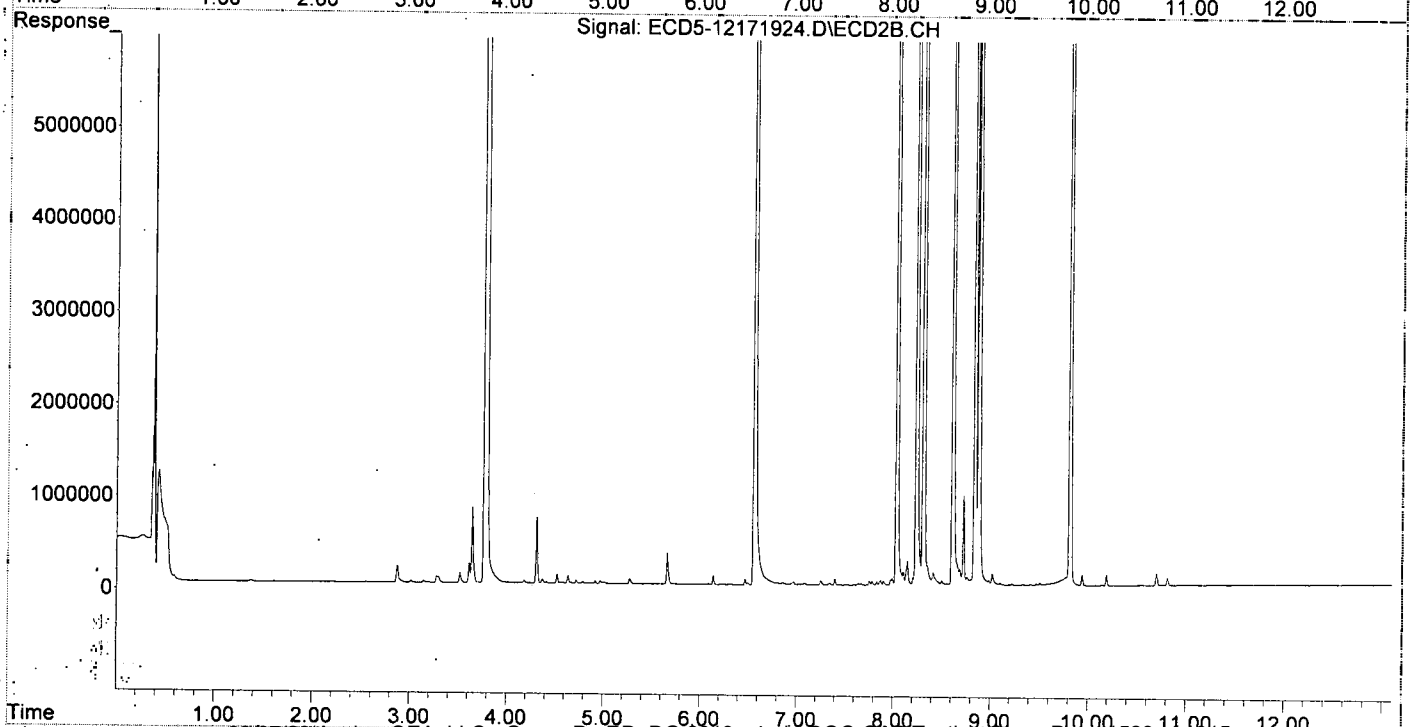
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171924.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 17:36
Operator : MJB
Sample : 9L17040-CALI
Misc : A19K262, 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: Dec 17 18:33:28 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:27:54 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 18:27
Operator : MJB
Sample : 9L17040-CALJ
Misc : A19L233, 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: Dec 18 11:17:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

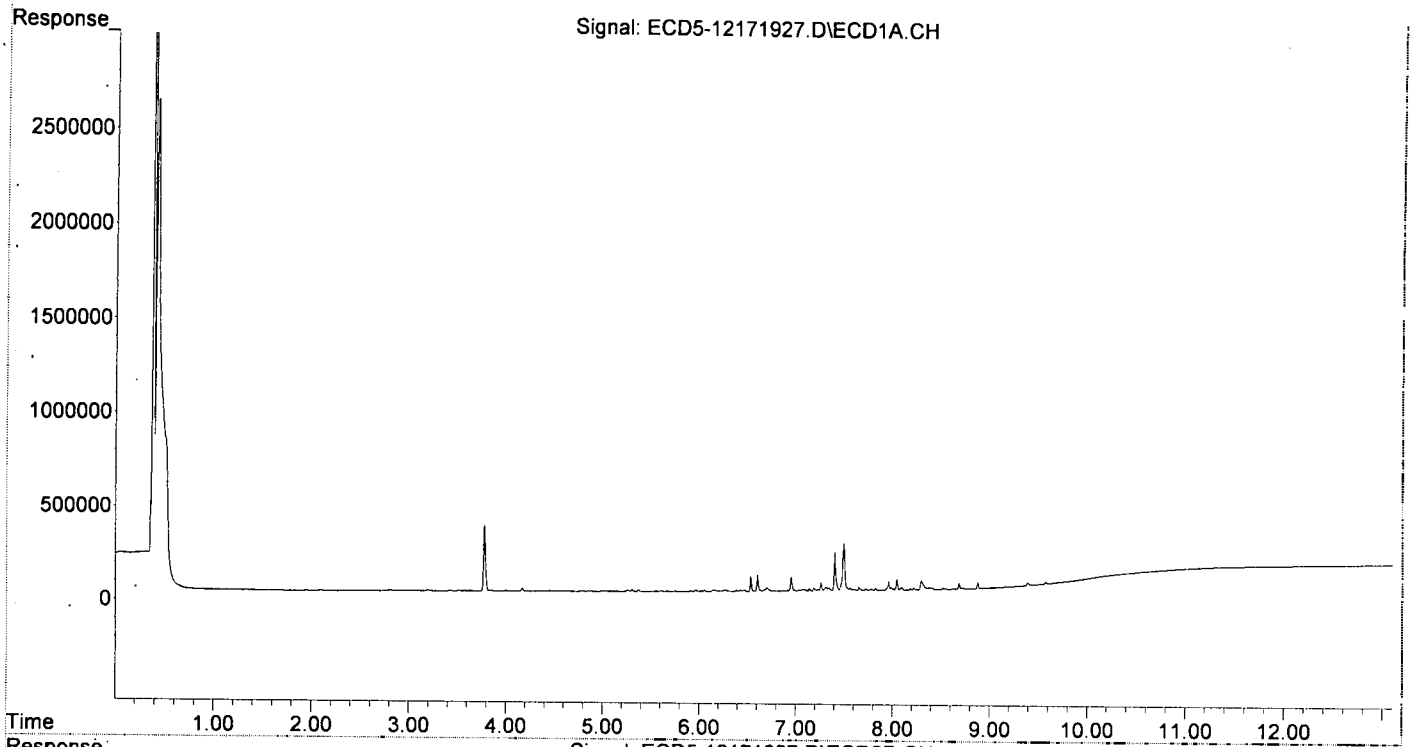
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.403	8.246	206049	358273	4.034	3.857
33)		Chlordane...	7.496	8.355	253603	313241	3.900	4.020
34)		Chlordane...	8.046	9.023	60278	184378	4.037	9.163 #
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

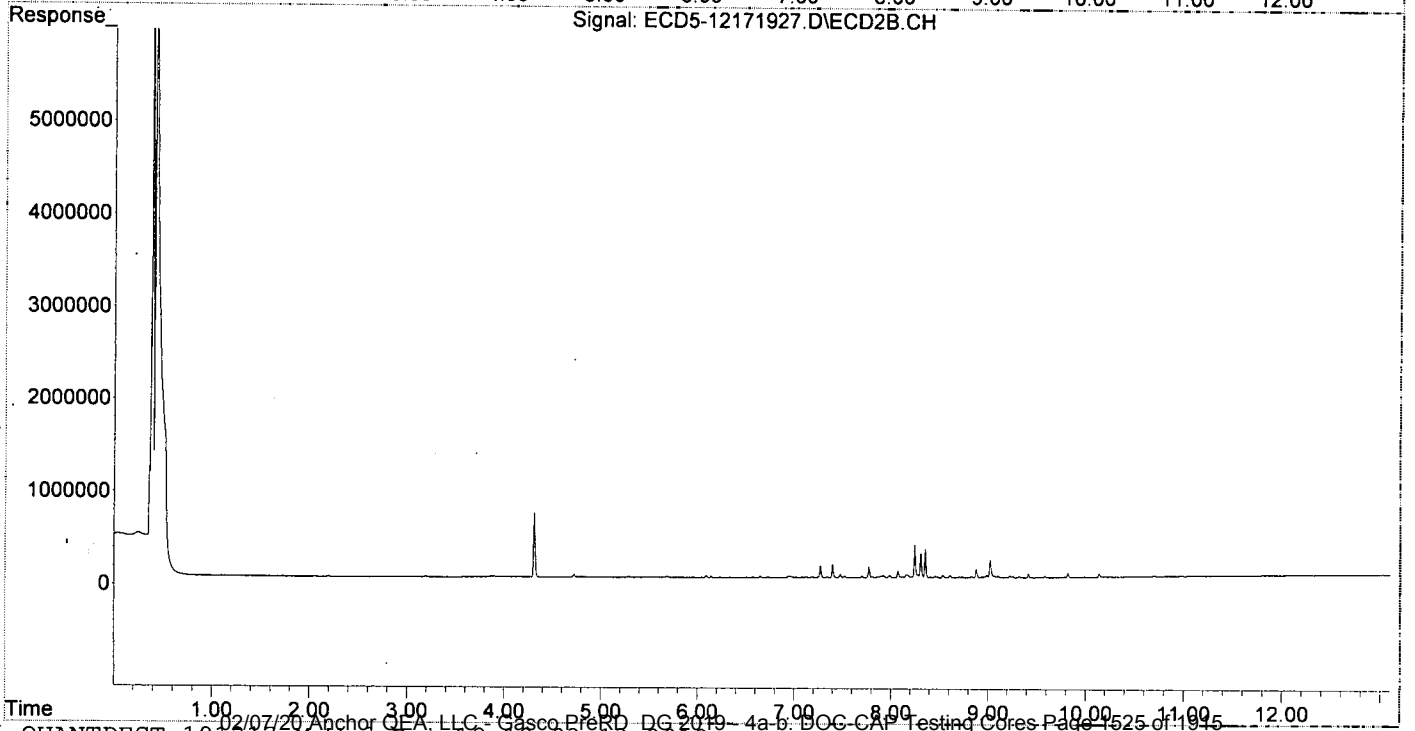
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171927.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 18:27
Operator : MJB
Sample : 9L17040-CALJ
Misc : A19L233, 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: Dec 18 11:17:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 18:45
Operator : MJB
Sample : 9L17040-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: Dec 18 11:17:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

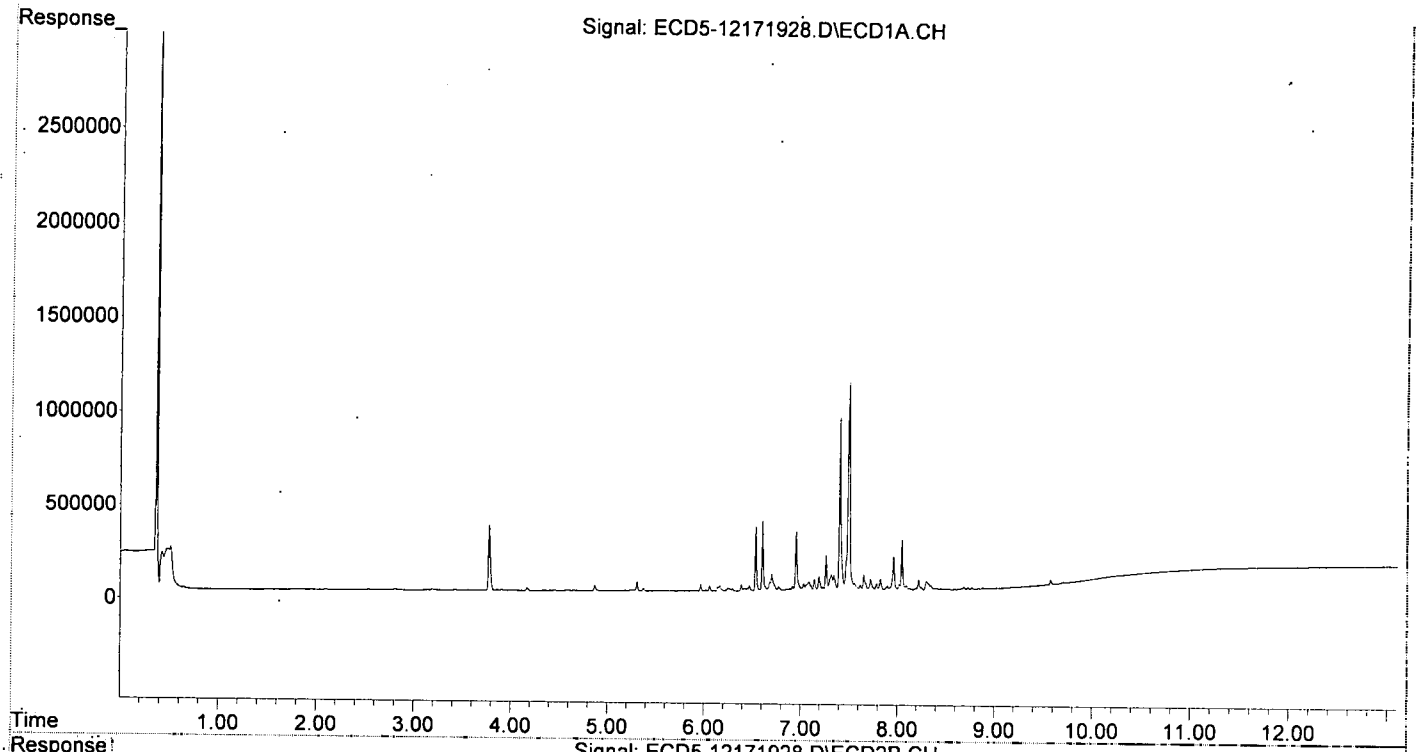
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.403	8.247	928206	1586546	18.173	17.080
33)		Chlordane...	7.496	8.355	1111415	1343229	17.092	17.238
34)		Chlordane...	8.046	9.024	269437	473594	18.047	23.537
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

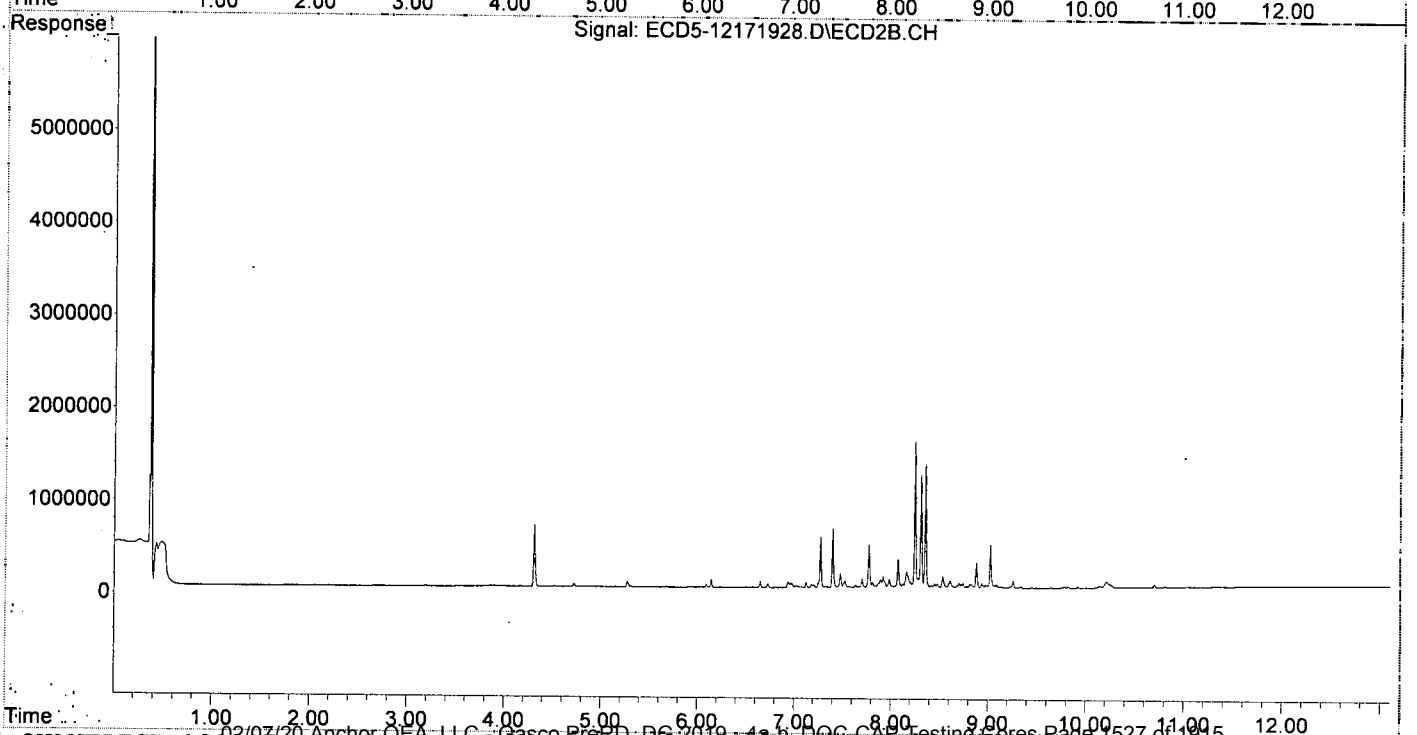
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171928.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 18:45
Operator : MJB
Sample : 9L17040-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: Dec 18 11:17:40 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171929.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:02
Operator : MJB
Sample : 9L17040-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: Dec 18 11:18:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

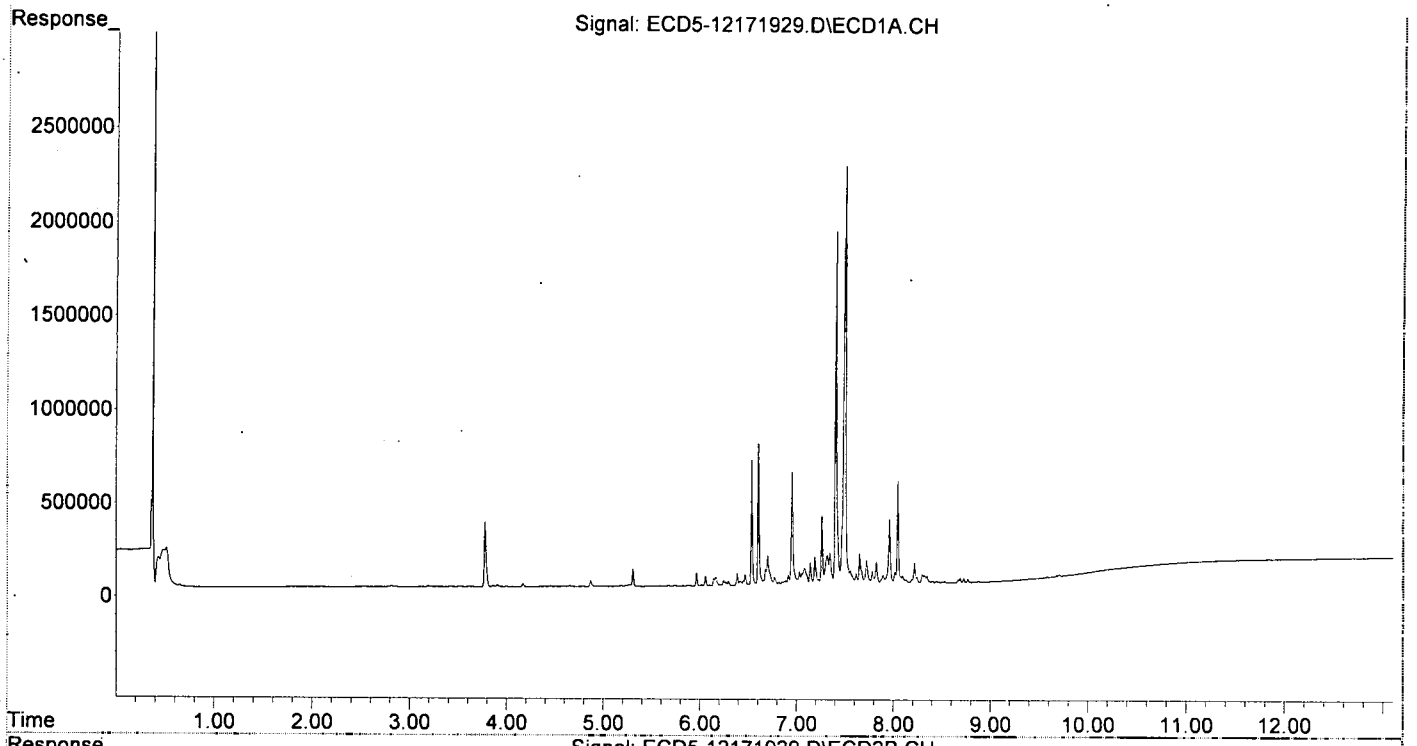
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.403	8.246	1884275	3216640	36.892	34.629
33)		Chlordane...	7.496	8.354	2229615	2736000	34.289	35.113
34)		Chlordane...	8.046	9.023	547016	867697	36.639	43.124
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

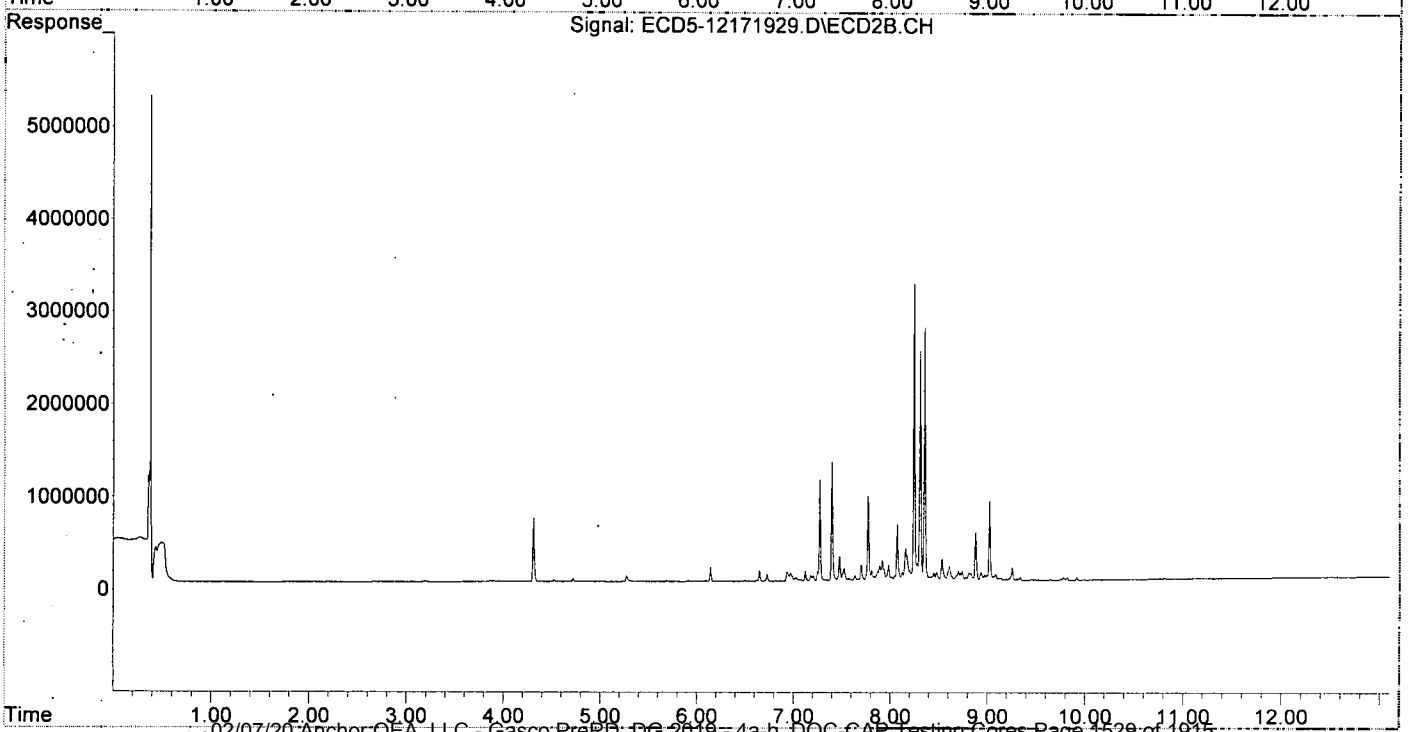
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171929.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:02
Operator : MJB
Sample : 9L17040-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: Dec 18 11:18:36 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171930.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:19
Operator : MJB
Sample : 9L17040-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: Dec 18 11:19:23 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

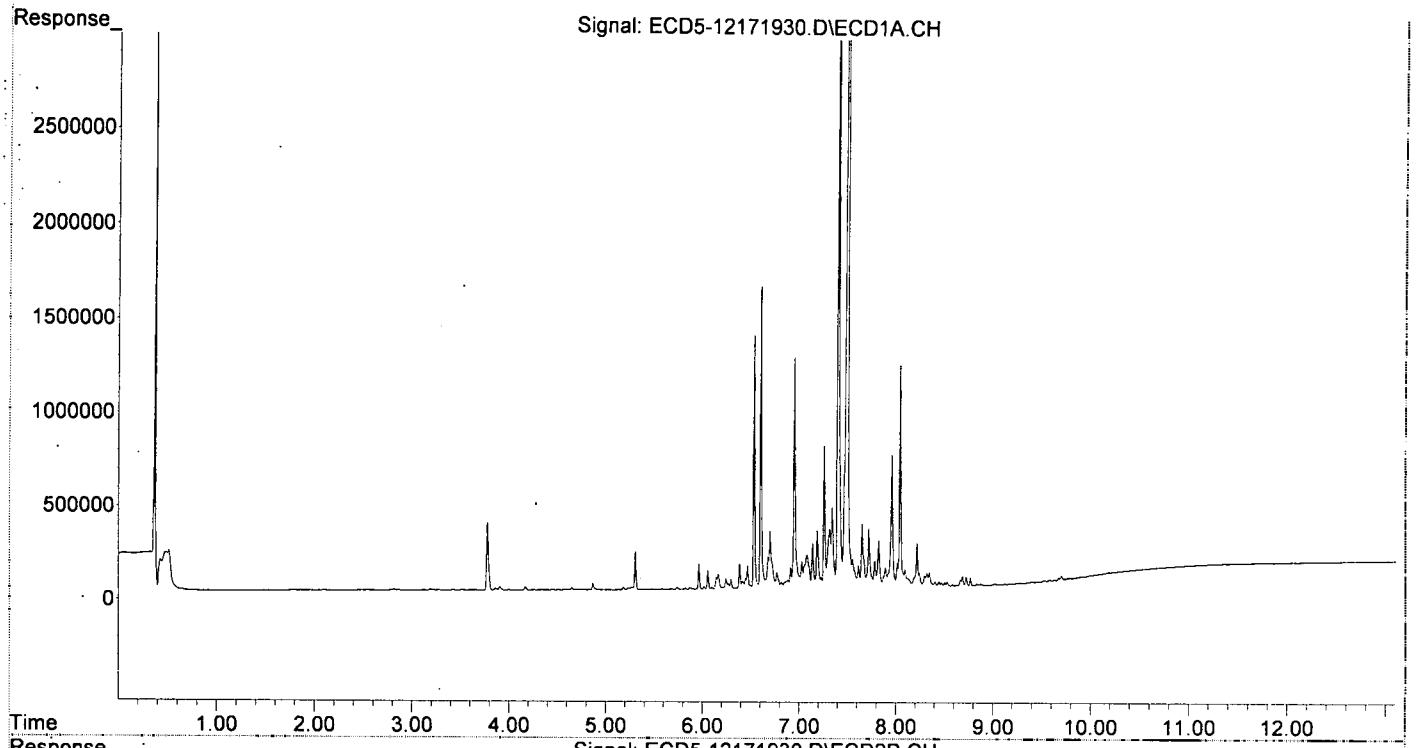
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
21)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.402	8.246	3892694	6685788	76.215	71.977
33)		Chlordane...	7.496	8.354	4557171	5847346	70.084	75.042
34)		Chlordane...	8.045	9.022	1182795	1763526	79.223	87.645
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

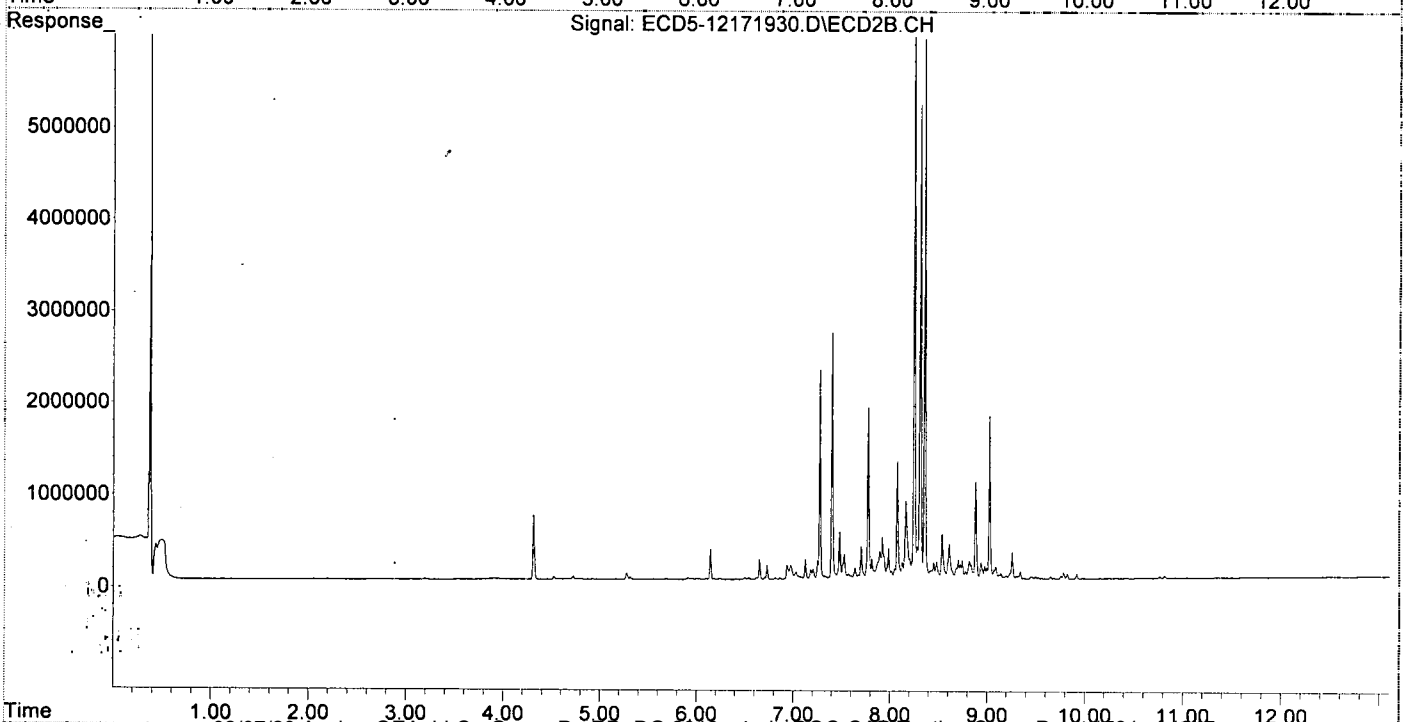
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171930.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:19
Operator : MJB
Sample : 9L17040-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: Dec 18 11:19:23 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:36
Operator : MJB
Sample : 9L17040-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: Dec 18 11:15:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

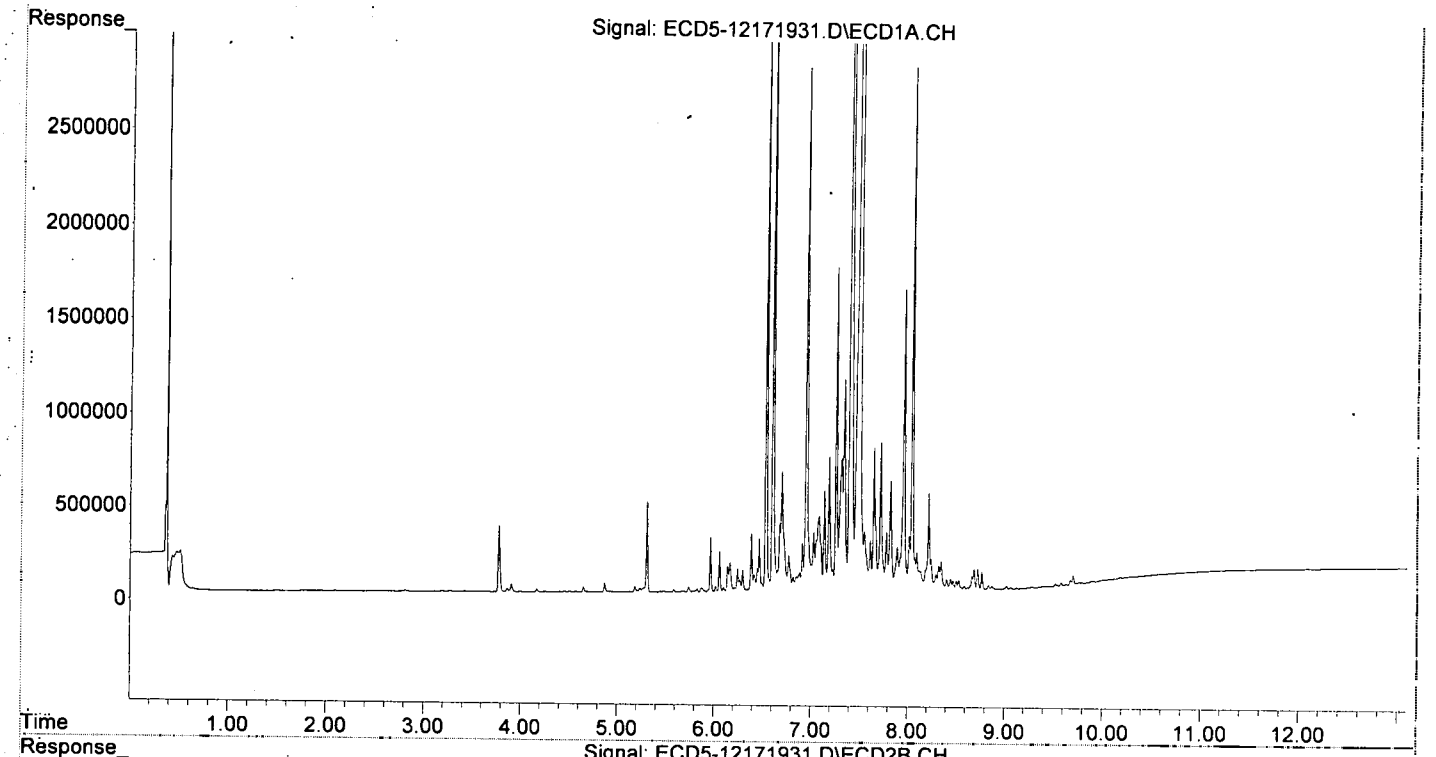
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.402	8.247	8970761	16478328	175.637	177.400
33)		Chlordane...	7.496	8.355	10680030	13752508	164.246	176.493
34)		Chlordane...	8.046	9.023	2782032	3999854	186.338	198.789
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

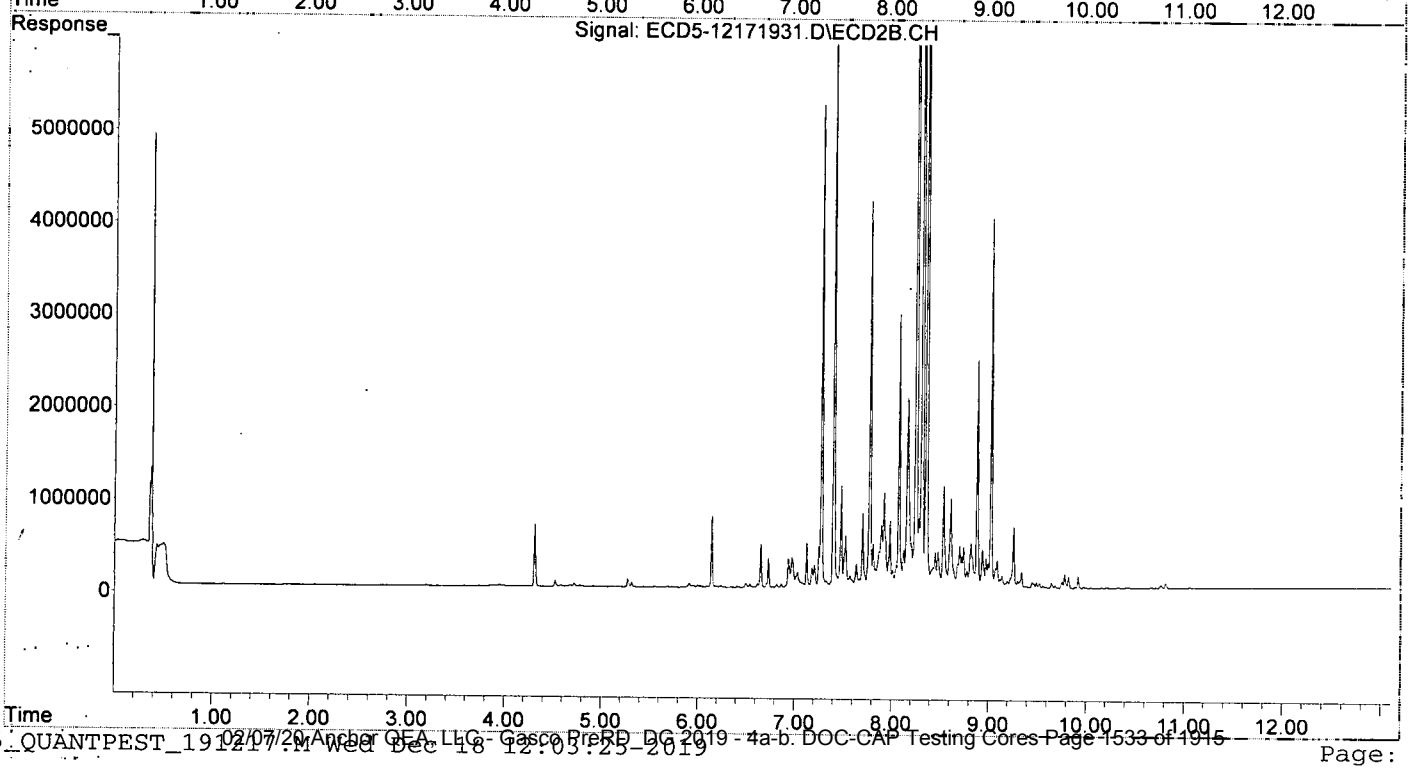
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171931.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:36
Operator : MJB
Sample : 9L17040-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: Dec 18 11:15:29 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Tue Dec 17 18:36:41 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171932.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:53
Operator : MJB
Sample : 9L17040-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: Dec 18 11:20:04 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

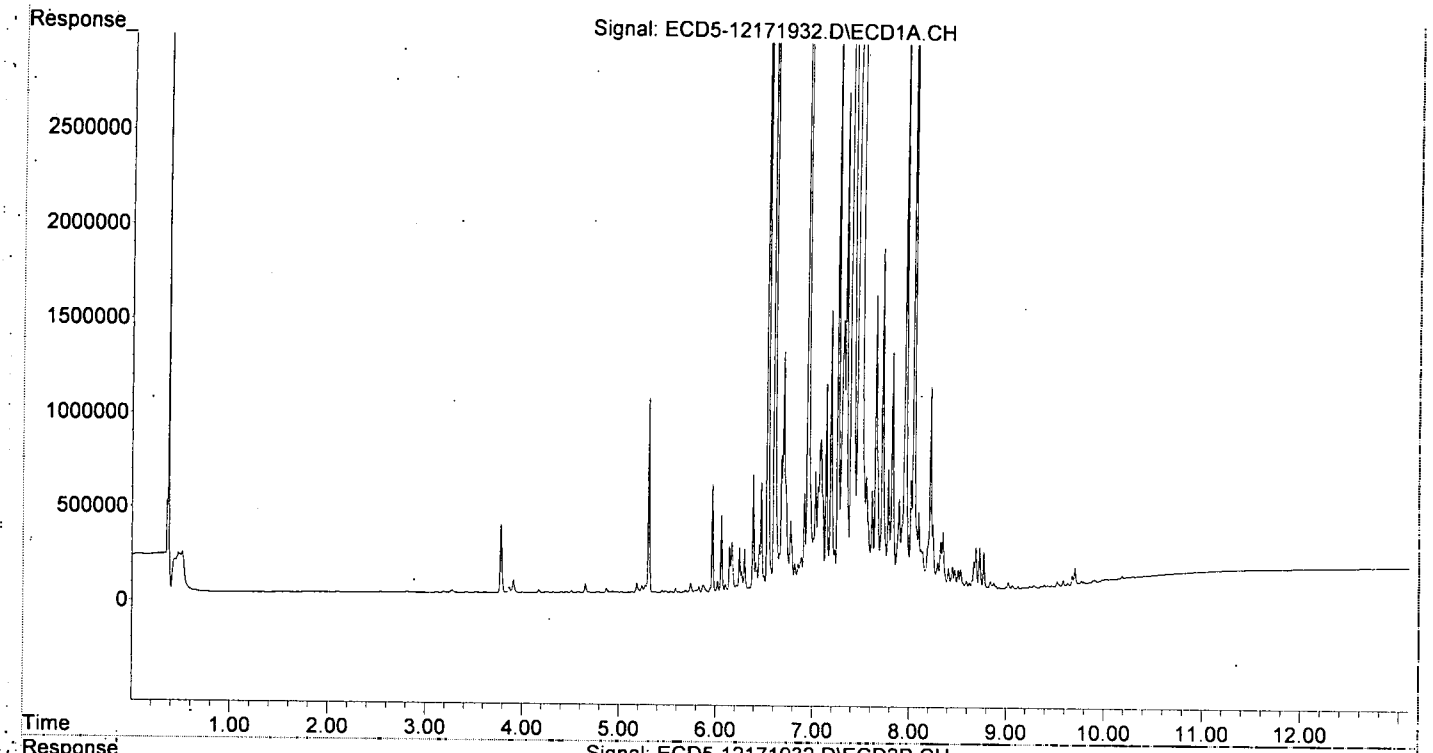
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.402	8.247	19599019	35793370	383.727	385.339
33)		Chlordane...	7.495	8.355	22305333	30171728	343.029	387.210
34)		Chlordane...	8.046	9.023	5893931	8914072	394.771	443.020
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

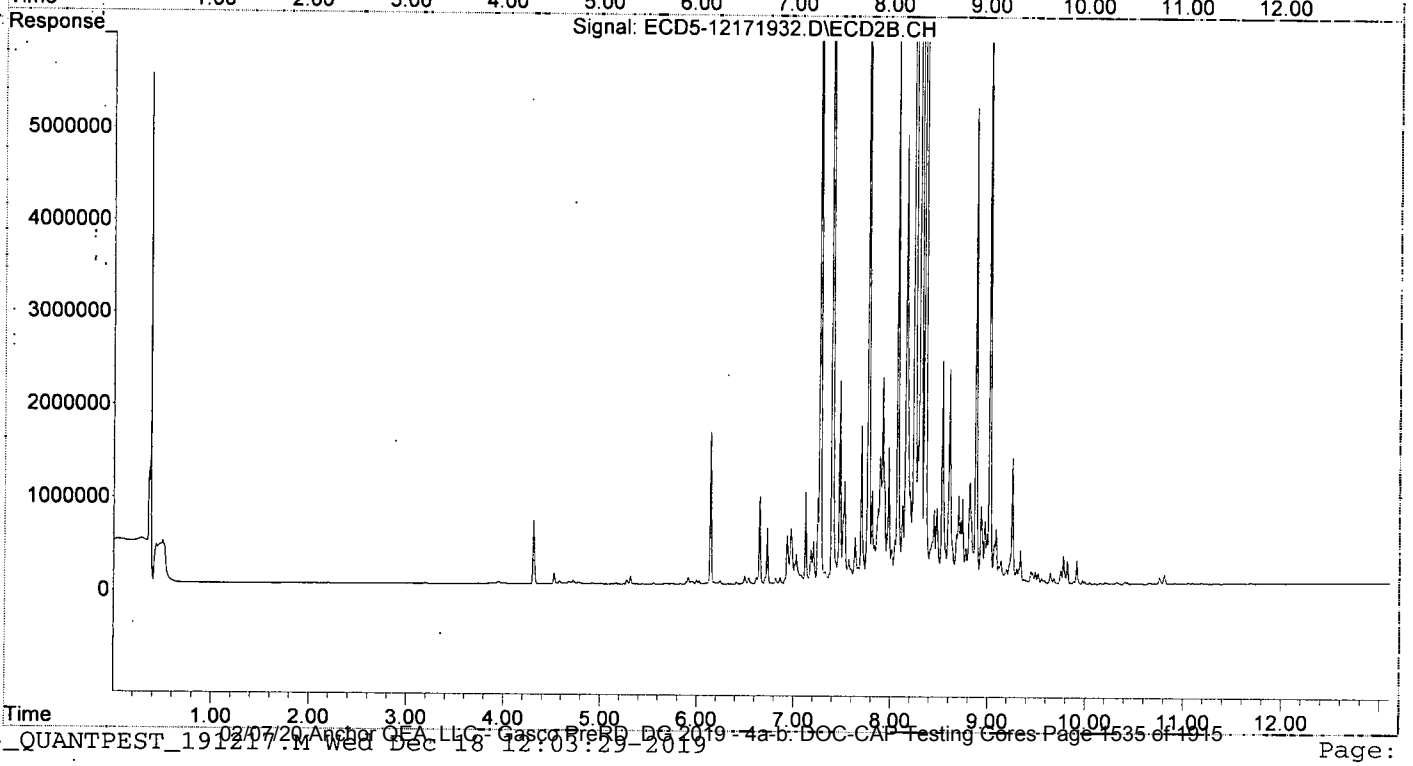
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171932.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 19:53
Operator : MJB
Sample : 9L17040-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: Dec 18 11:20:04 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171933.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 20:11
Operator : MJB
Sample : 9L17040-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: Dec 18 11:20:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

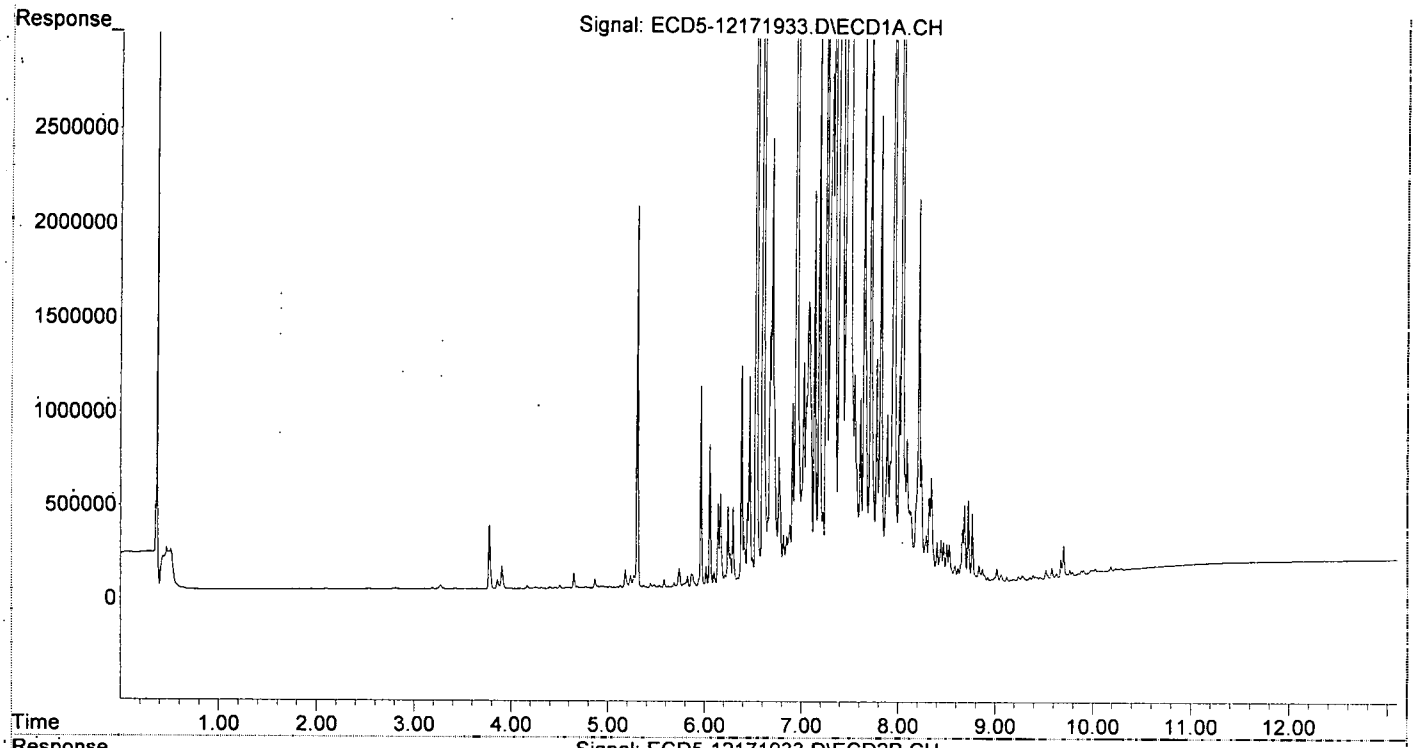
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds								
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds								
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.402	8.248	37463007	71633044	733.484	771.177
33)		Chlordane...	7.496	8.356	42726140	59491532	657.077	763.487
34)		Chlordane...	8.046	9.024	11394892	17435184	763.221	866.511
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

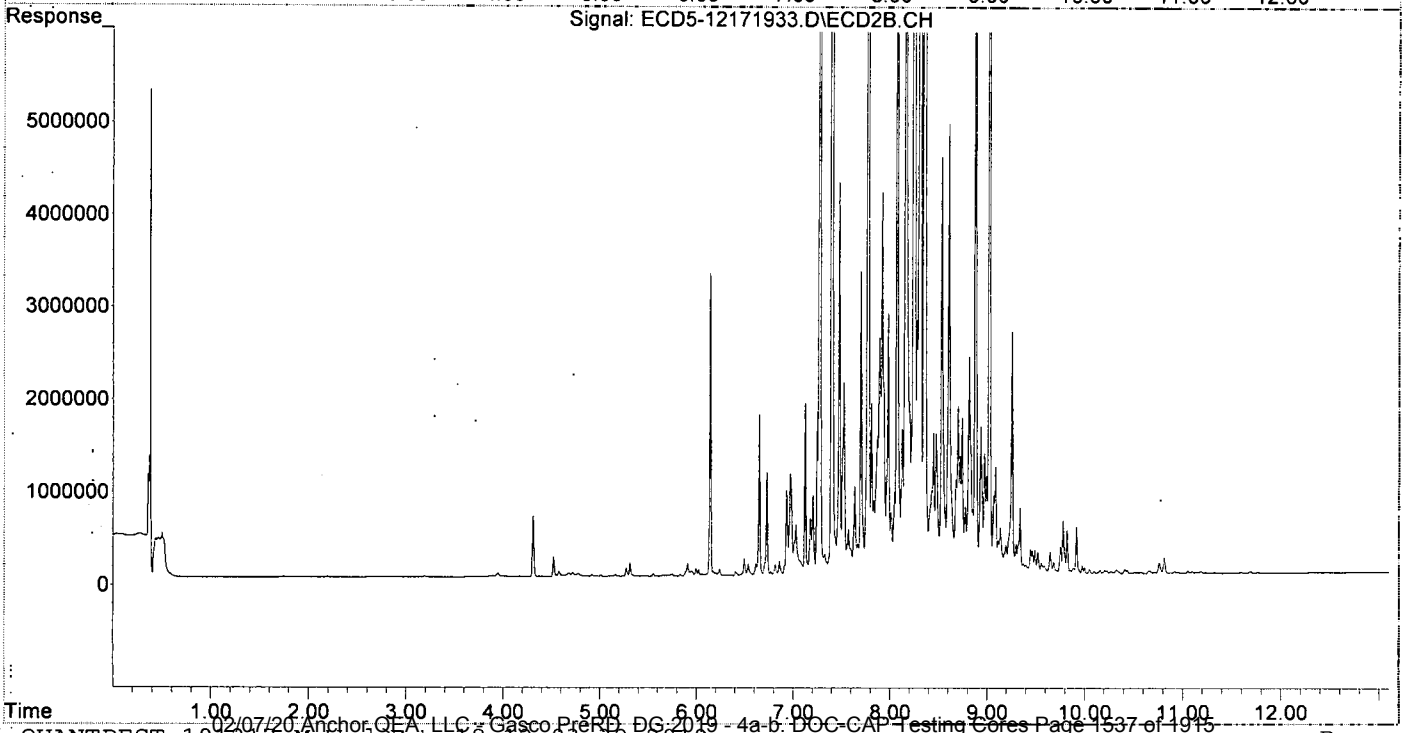
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171933.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 20:11
Operator : MJB
Sample : 9L17040-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: Dec 18 11:20:43 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:24:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

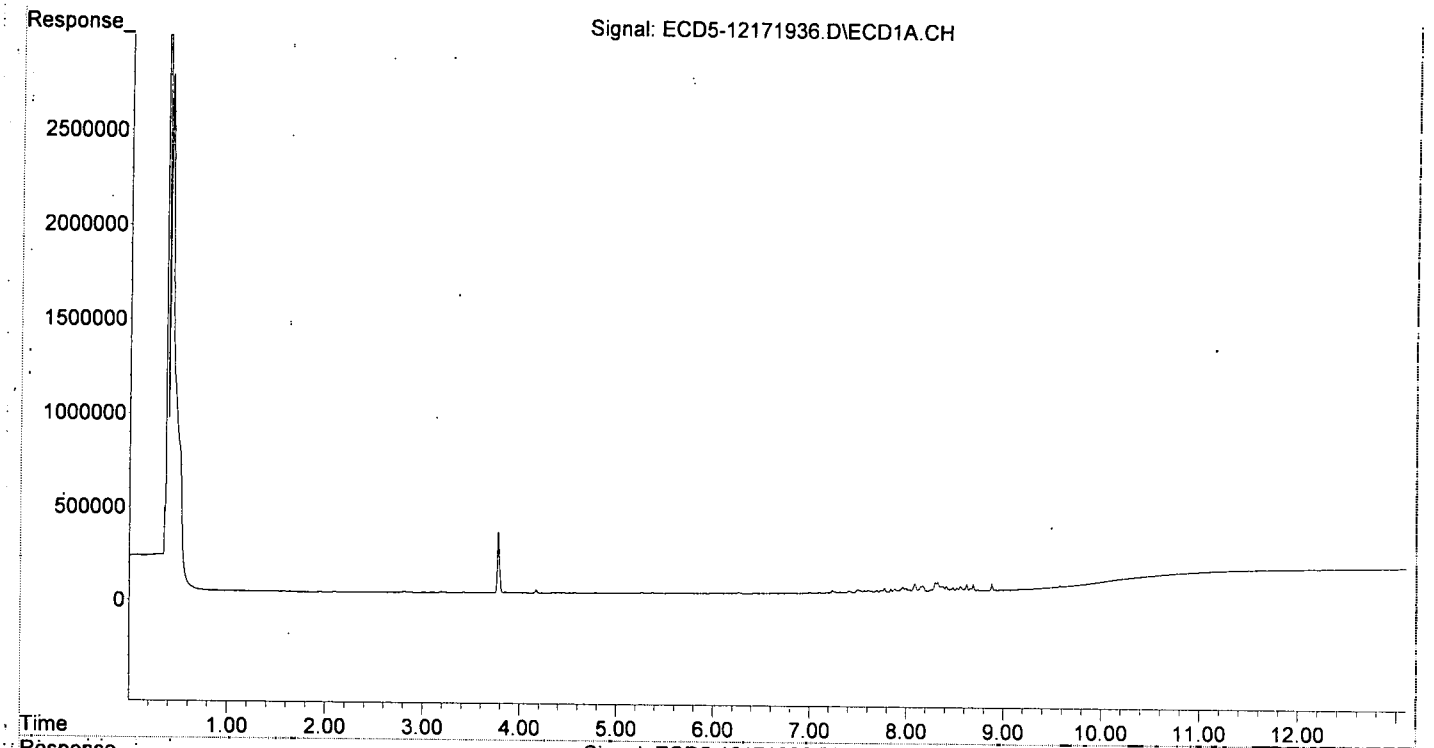
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.484	8.571	10763	23414	4.566m	3.426
37)		Toxaphene...	7.771	8.934	21788	29649	5.127	3.487
38)		Toxaphene...	8.087	8.971	42682	55881	4.901	4.267
39)		Toxaphene...	8.324	9.025	51692	129540	6.155	6.005
40)		Toxaphene...	8.553	9.217	25387	53623	4.131	4.453
41)		Toxaphene...	8.621	9.599	36879	50601	4.535	4.146
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

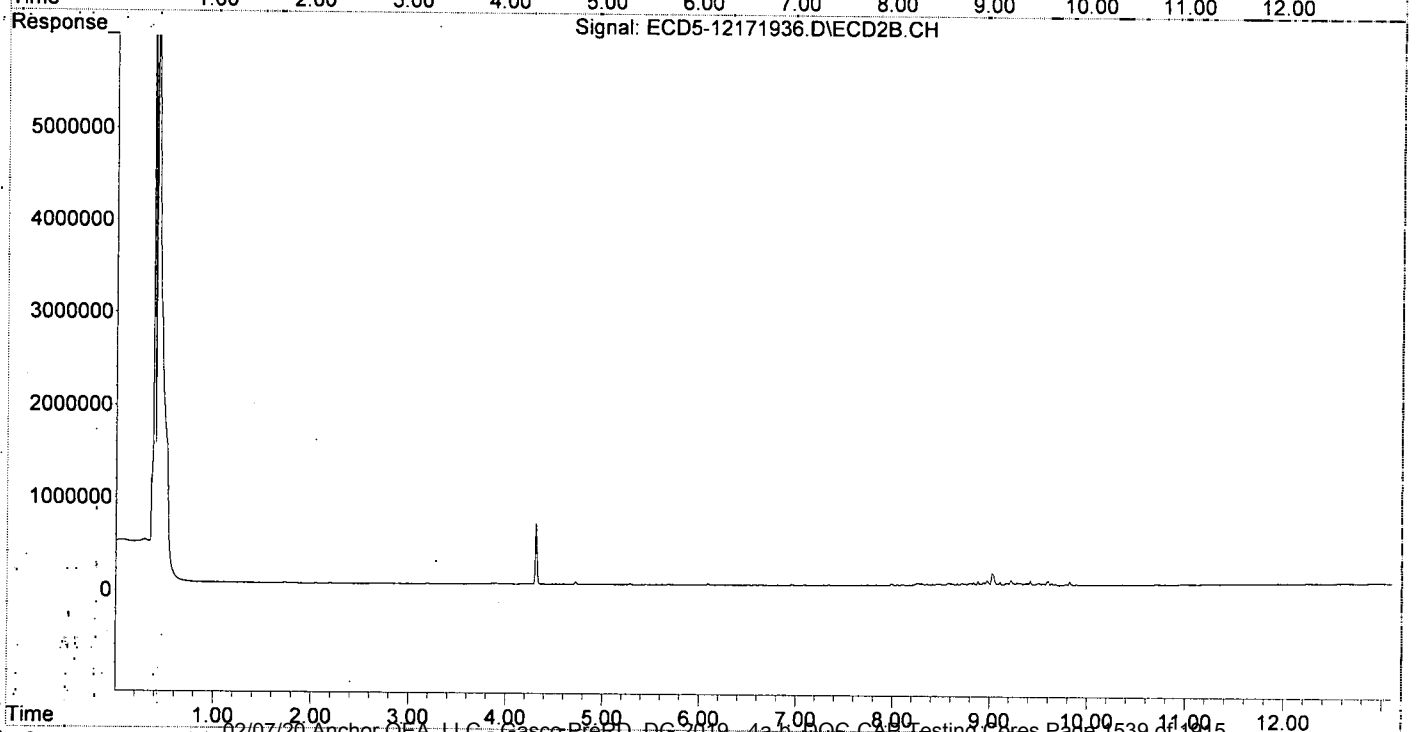
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:24:35 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

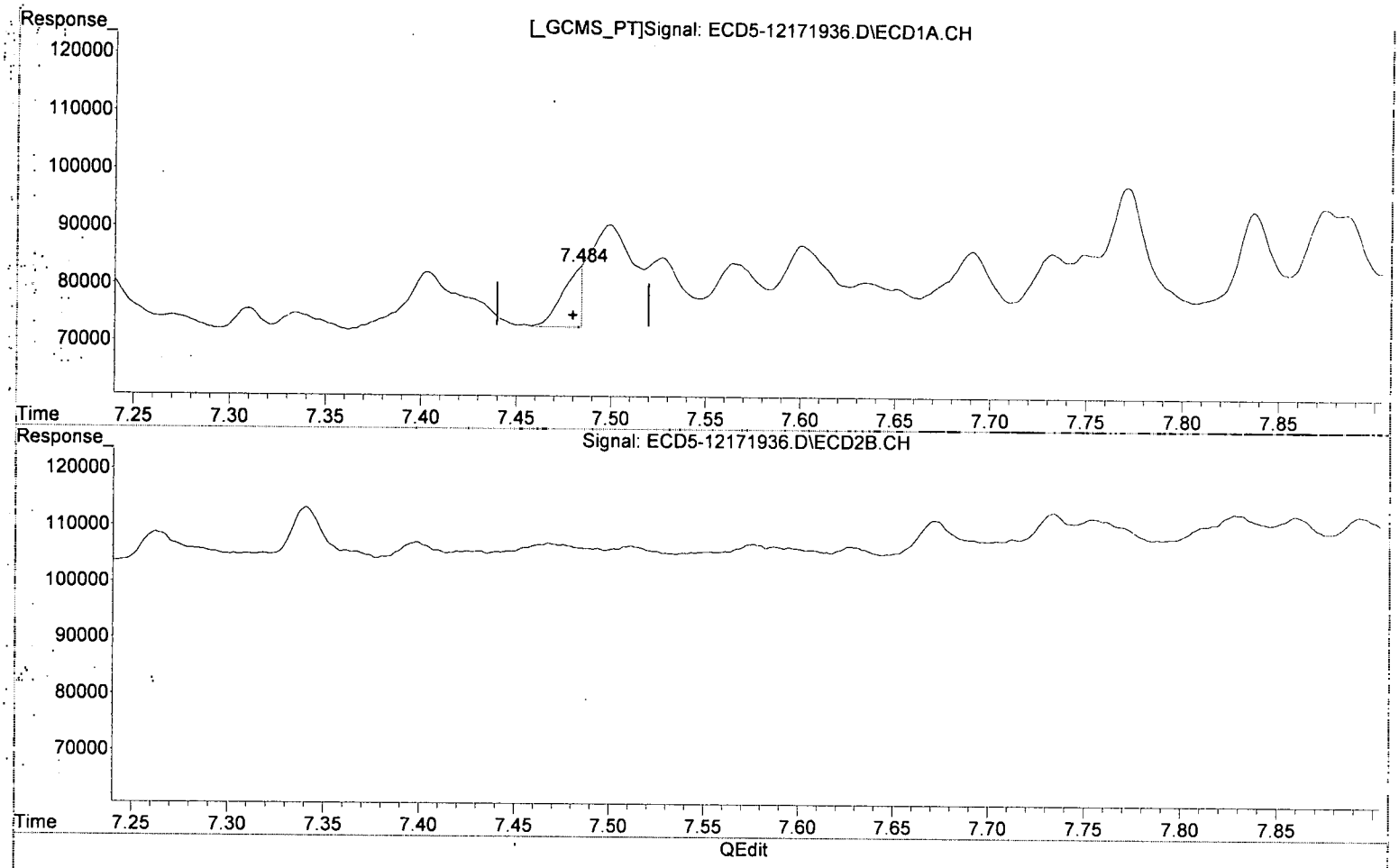




Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:23:41 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.484min 4.566 ng/mL m

response 10763

MJB 12/18/19

(36) Toxaphene (1) #2

8.571min 3.426 ng/mL

response 23414

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:23:41 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

HT MJB 12/18/19

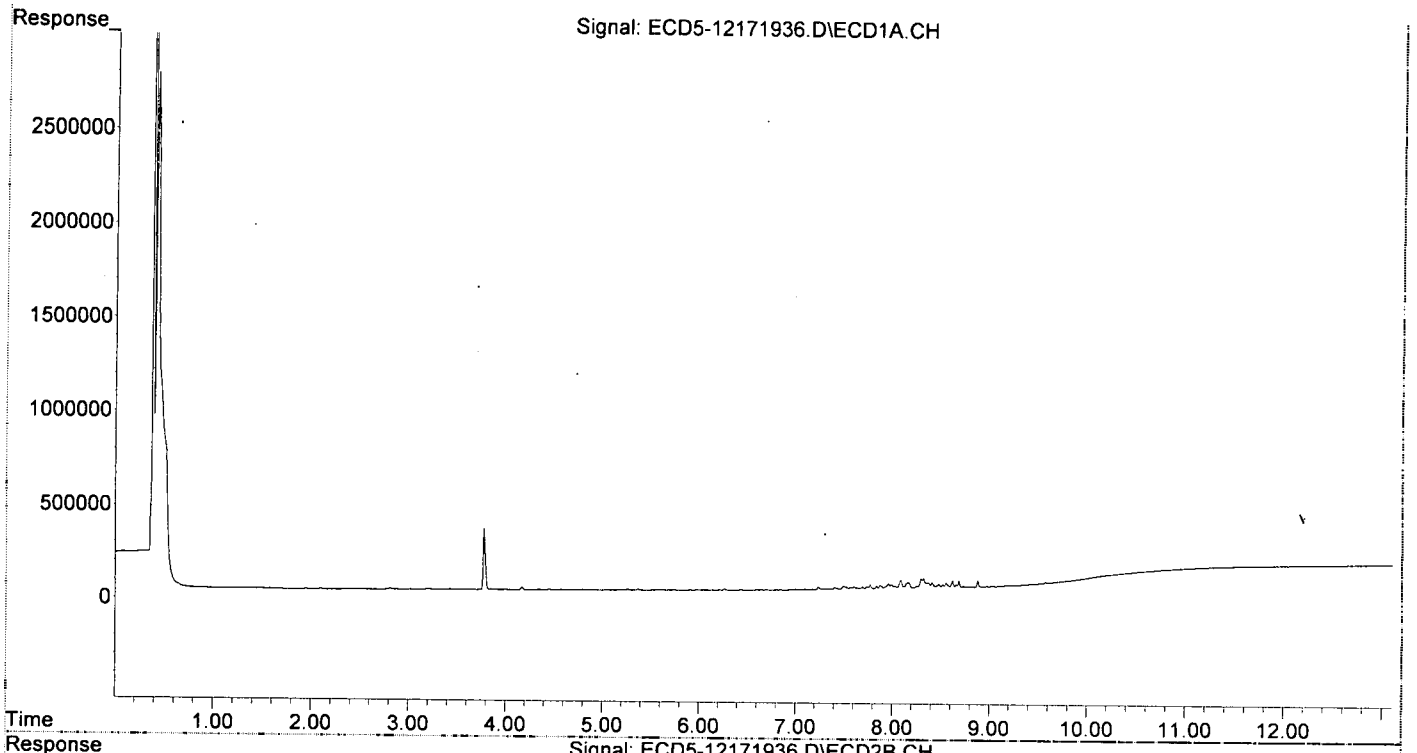
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.499	8.571	17726	23414	7.519	3.426 #
37)		Toxaphene...	7.771	8.934	21788	29649	5.127	3.487
38)		Toxaphene...	8.087	8.971	42682	55881	4.901	4.267
39)		Toxaphene...	8.324	9.025	51692	129540	6.155	6.005
40)		Toxaphene...	8.553	9.217	25387	53623	4.131	4.453
41)		Toxaphene...	8.621	9.599	36879	50601	4.535	4.146
42)		Toxaphene...	3.775f	0.000	328683	0	NoCal	N.D.

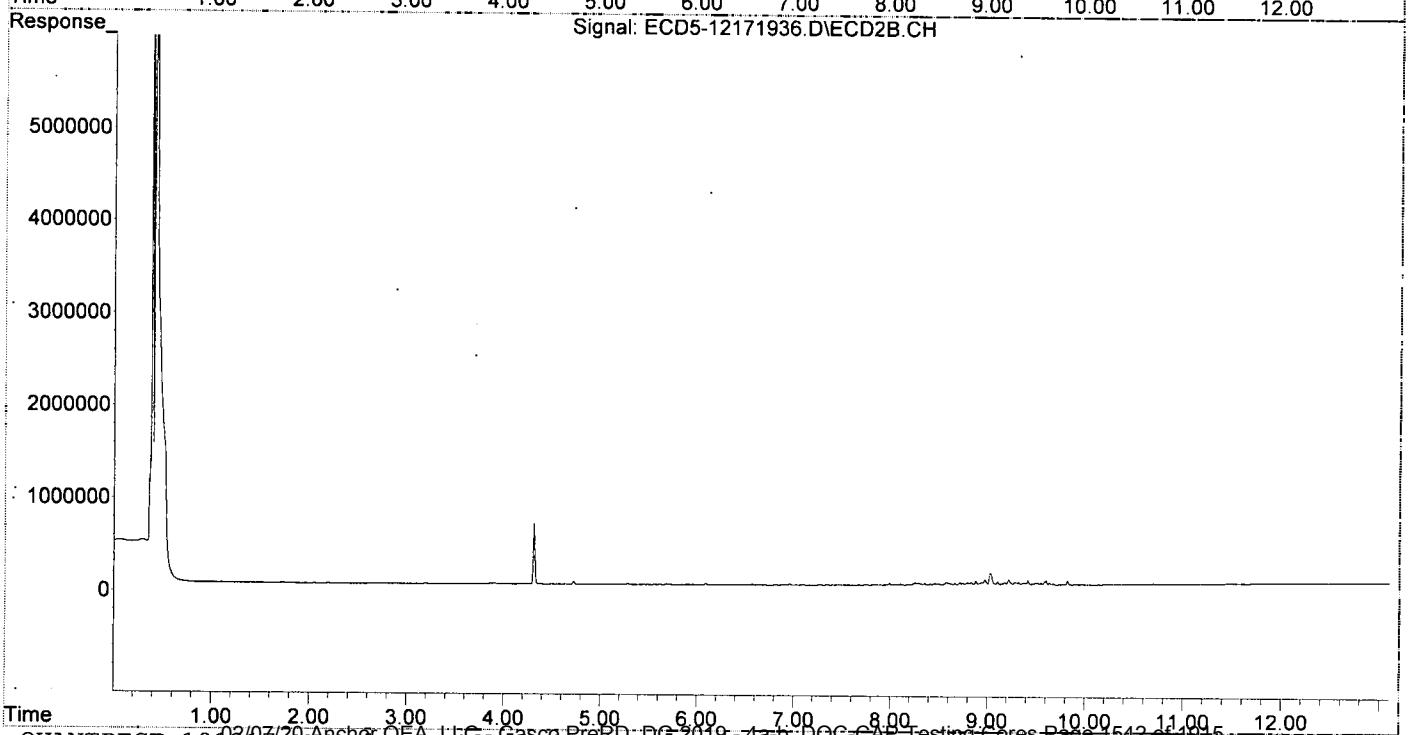
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171936.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:02
Operator : MJB
Sample : 9L17040-CALQ
Misc : A19L234, 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: Dec 18 11:23:41 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:19
Operator : MJB
Sample : 9L17040-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: Dec 18 11:25:25 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

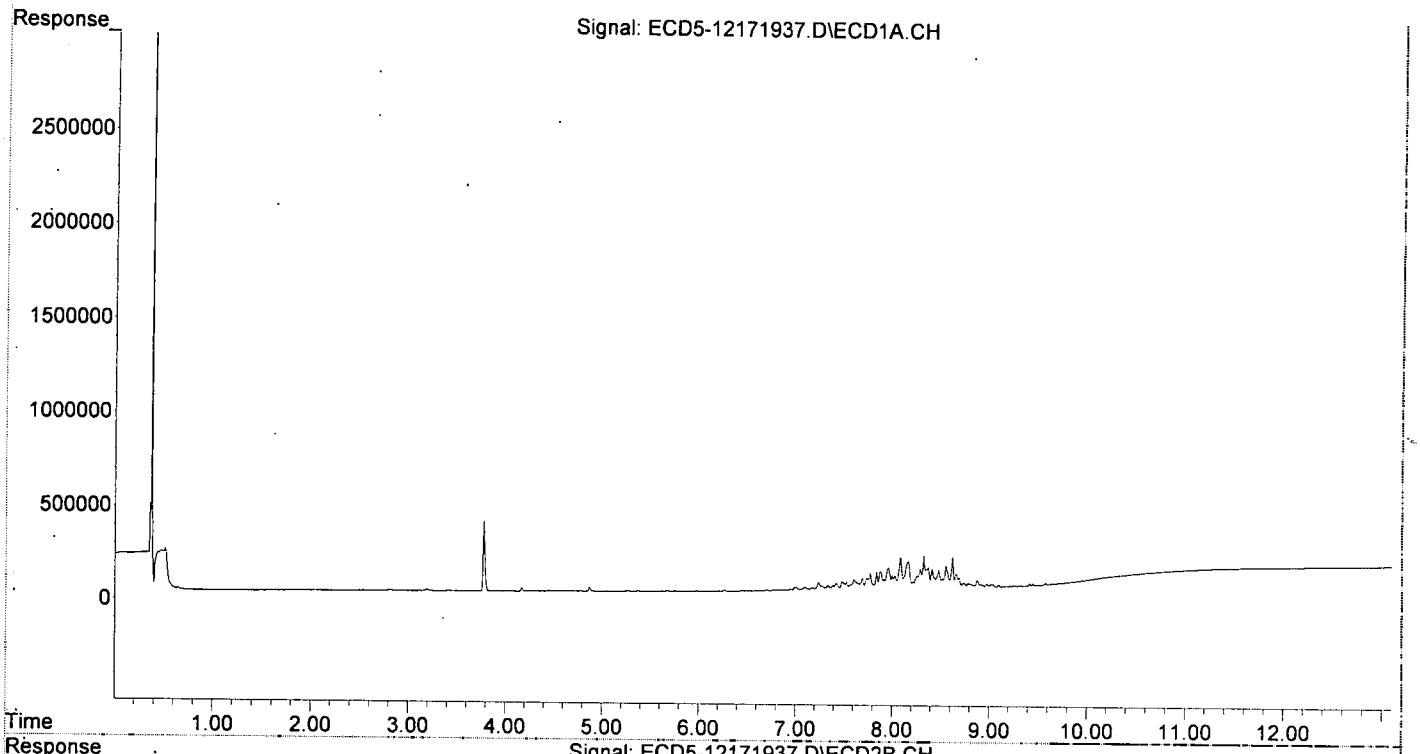
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.481	8.573	43186	128672	18.319	18.825
37)		Toxaphene...	7.772	8.934	86970	147486	20.465	17.344
38)		Toxaphene...	8.084	8.971	169447	237276	19.458	18.116
39)		Toxaphene...	8.324	9.038	174601	398861	20.790	18.490
40)		Toxaphene...	8.553	9.215	120319	211169	19.580	17.535
41)		Toxaphene...	8.620	9.600	164084	219274	20.180	17.967
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

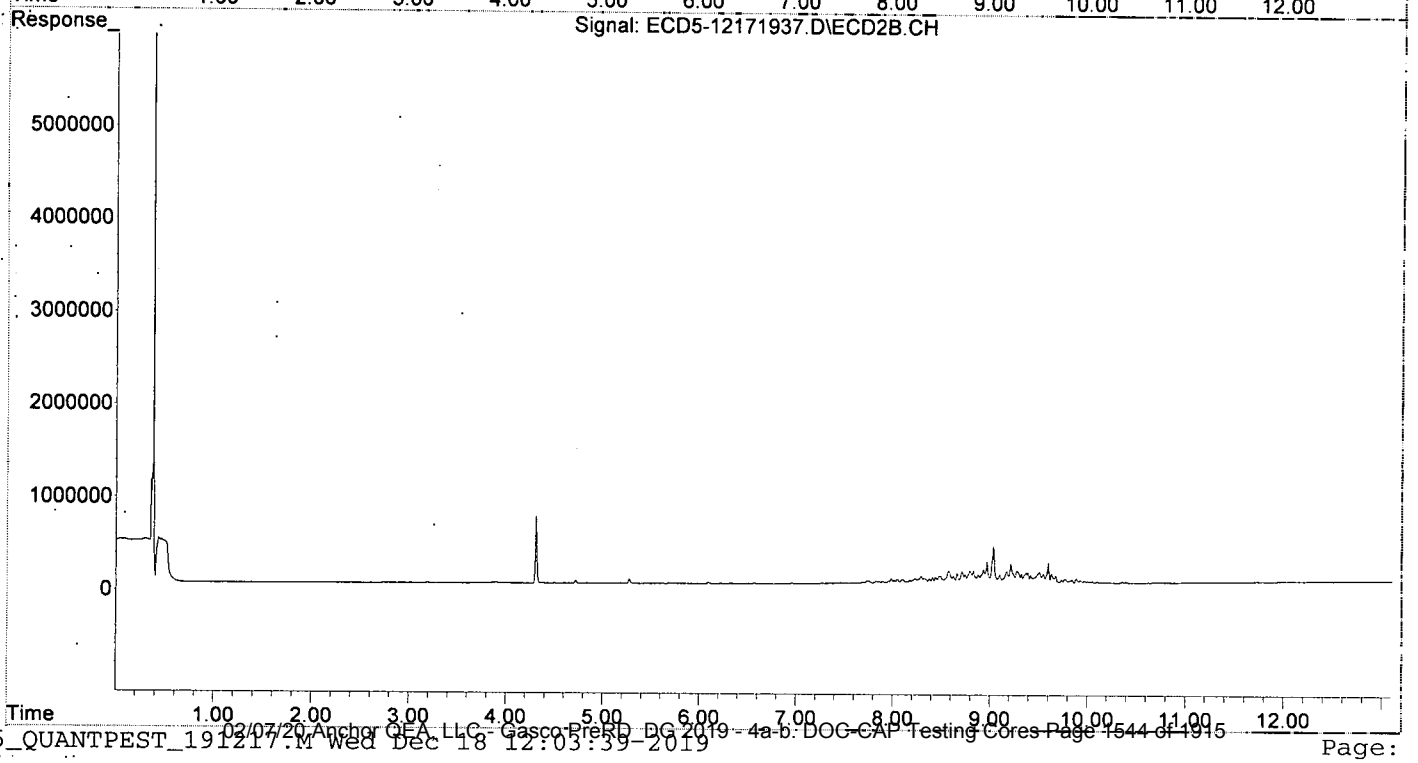
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171937.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:19
Operator : MJB
Sample : 9L17040-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: Dec 18 11:25:25 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:37
Operator : MJB
Sample : 9L17040-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: Dec 18 11:26:34 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation , 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

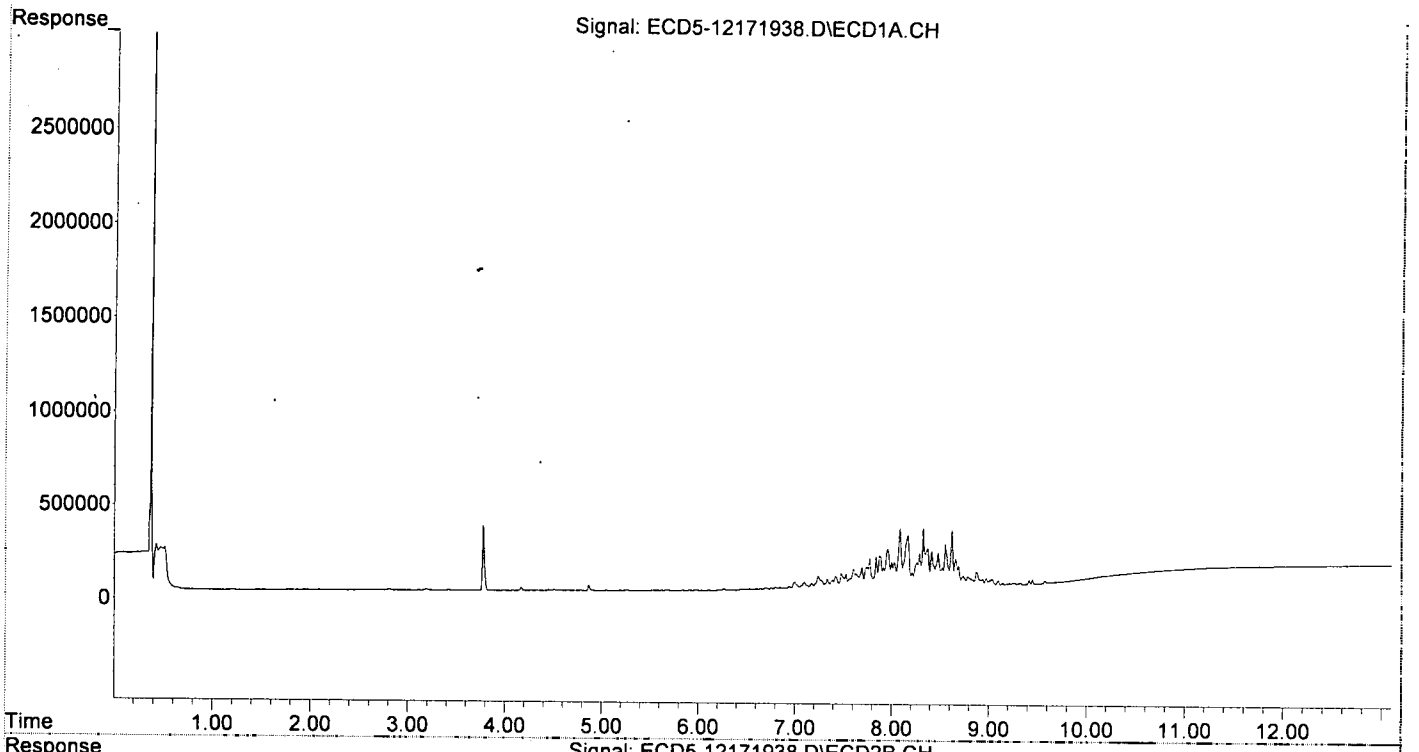
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.479	8.571	80067	229034	33.963	33.508
37)		Toxaphene...	7.772	8.934	157767	275229	37.125	32.366
38)		Toxaphene...	8.084	8.971	312683	428254	35.906	32.698
39)		Toxaphene...	8.324	9.038	311105	706770	37.043	32.763
40)		Toxaphene...	8.552	9.214	225090	389038	36.629	32.305
41)		Toxaphene...	8.620	9.600	297316	401640	36.565	32.909
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

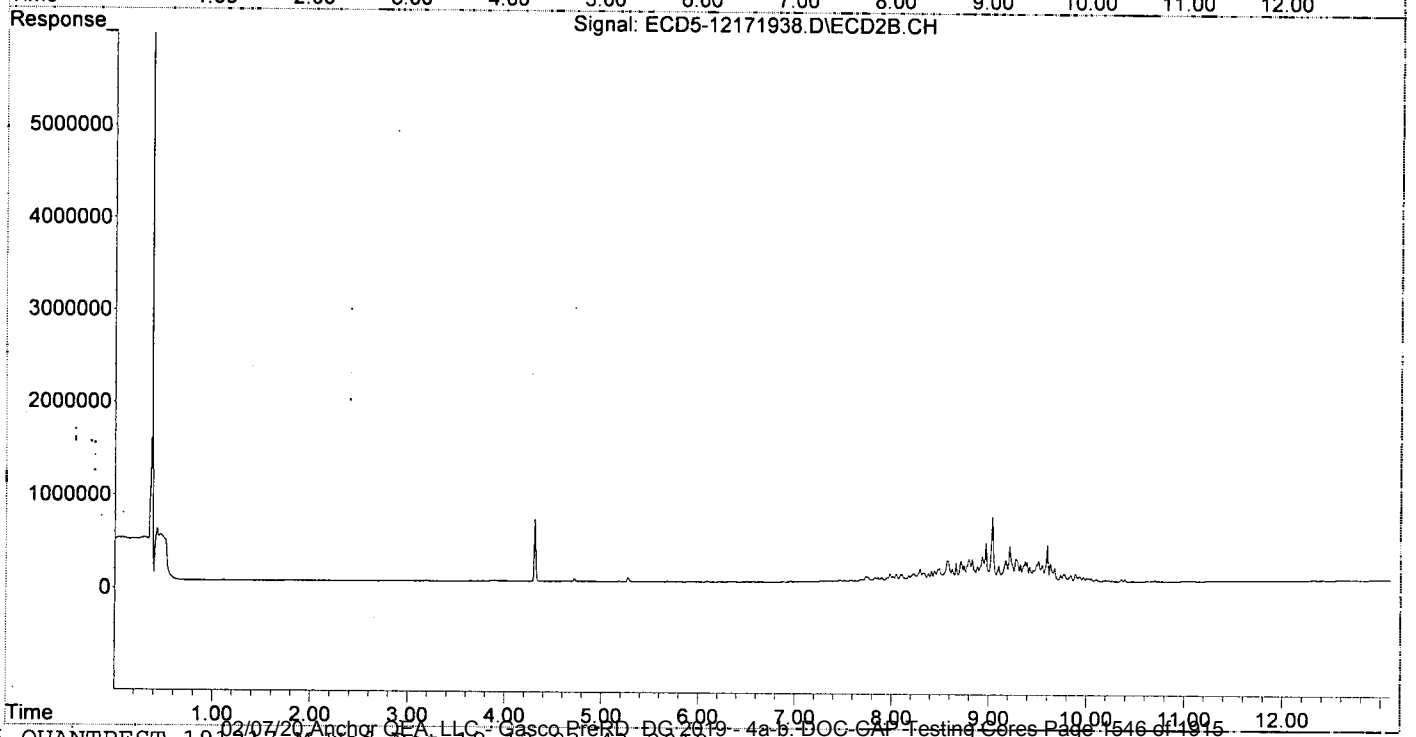
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171938.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:37
Operator : MJB
Sample : 9L17040-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: Dec 18 11:26:34 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:54
Operator : MJB
Sample : 9L17040-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: Dec 18 11:27:23 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

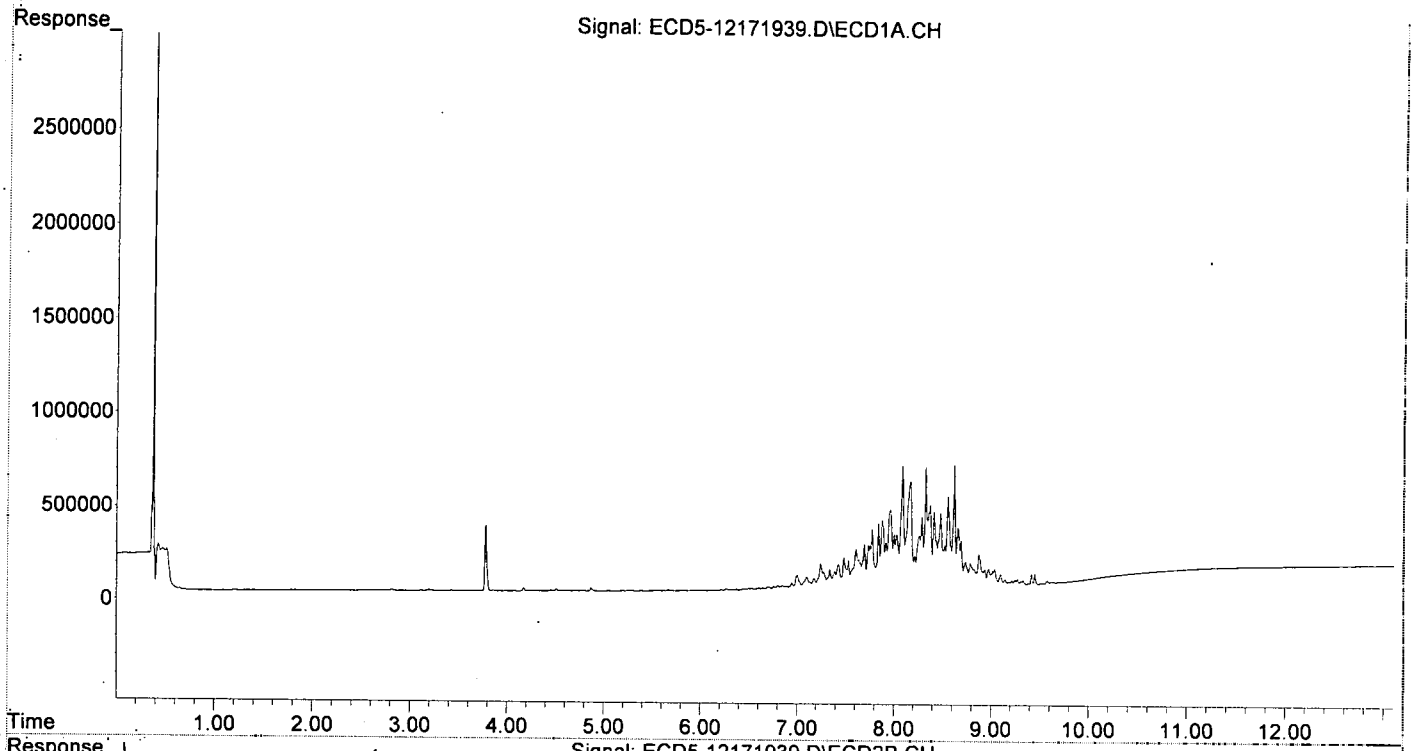
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.481	8.574	164218	444807	69.660	65.076
37)		Toxaphene...	7.774	8.936	313963	558833	73.880	65.716
38)		Toxaphene...	8.086	8.973	650087	886273	74.651	67.668
39)		Toxaphene...	8.326	9.040	639287	1426570	76.120	66.131
40)		Toxaphene...	8.555	9.216	479364	801152	78.008	66.526
41)		Toxaphene...	8.621	9.601	648214	831435	79.720	68.125
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

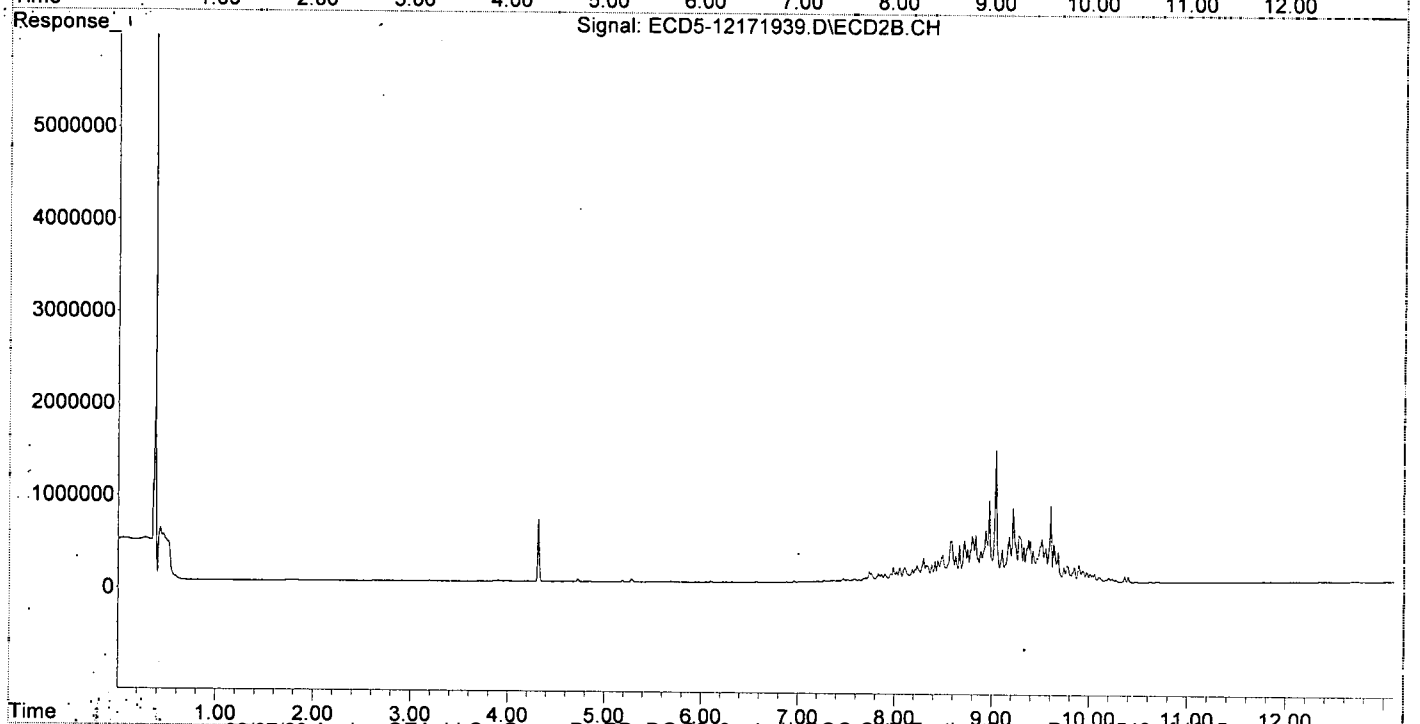
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171939.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 21:54
Operator : MJB
Sample : 9L17040-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: Dec 18 11:27:23 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 22:11
Operator : MJB
Sample : 9L17040-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: Dec 18 11:22:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

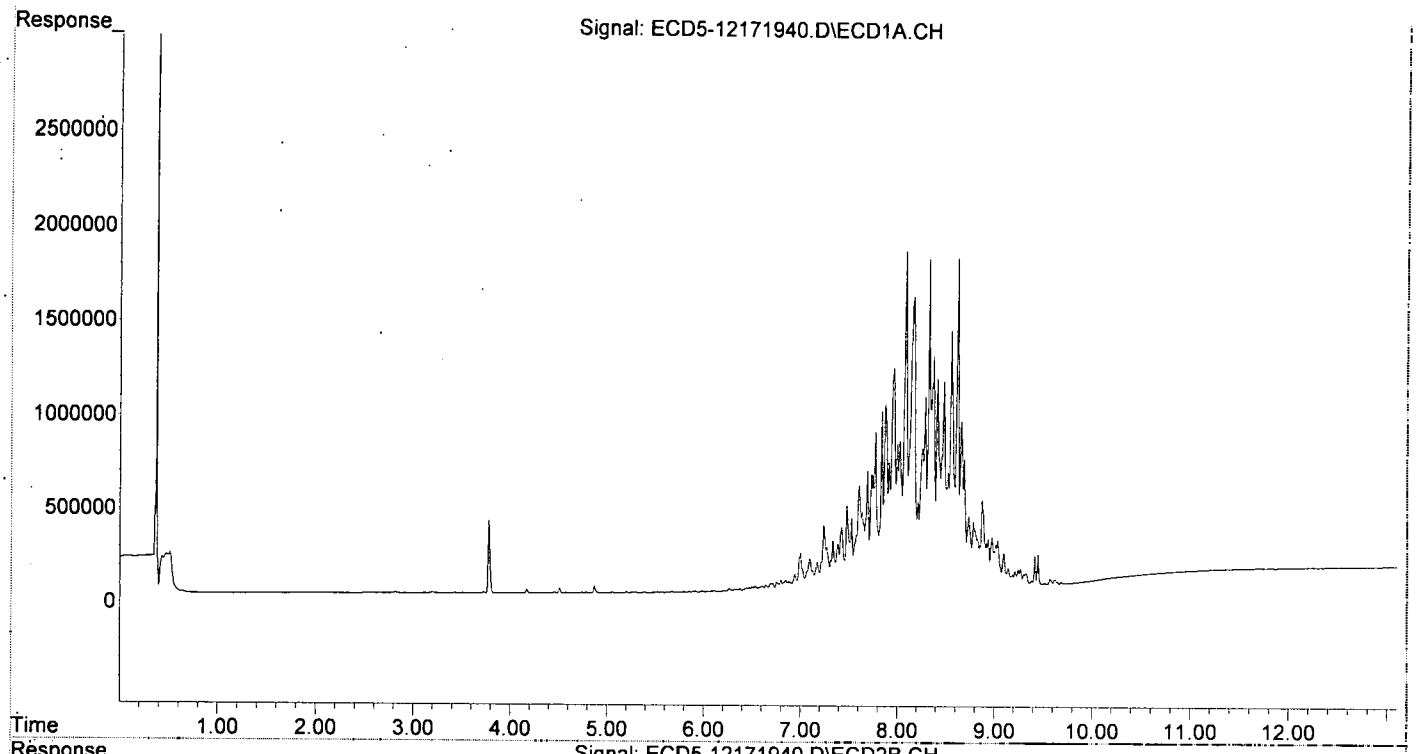
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.480	8.573	446153	1215226	189.253	177.790
37)		Toxaphene...	7.772	8.935	834152	1537752	196.287	180.832
38)		Toxaphene...	8.084	8.973	1800554	2437265	206.761	186.087
39)		Toxaphene...	8.325	9.040	1745633	4002260	207.853	185.531
40)		Toxaphene...	8.553	9.216	1349675	2247085	219.635	186.594
41)		Toxaphene...	8.620	9.601	1757897	2386841	216.194	195.569
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

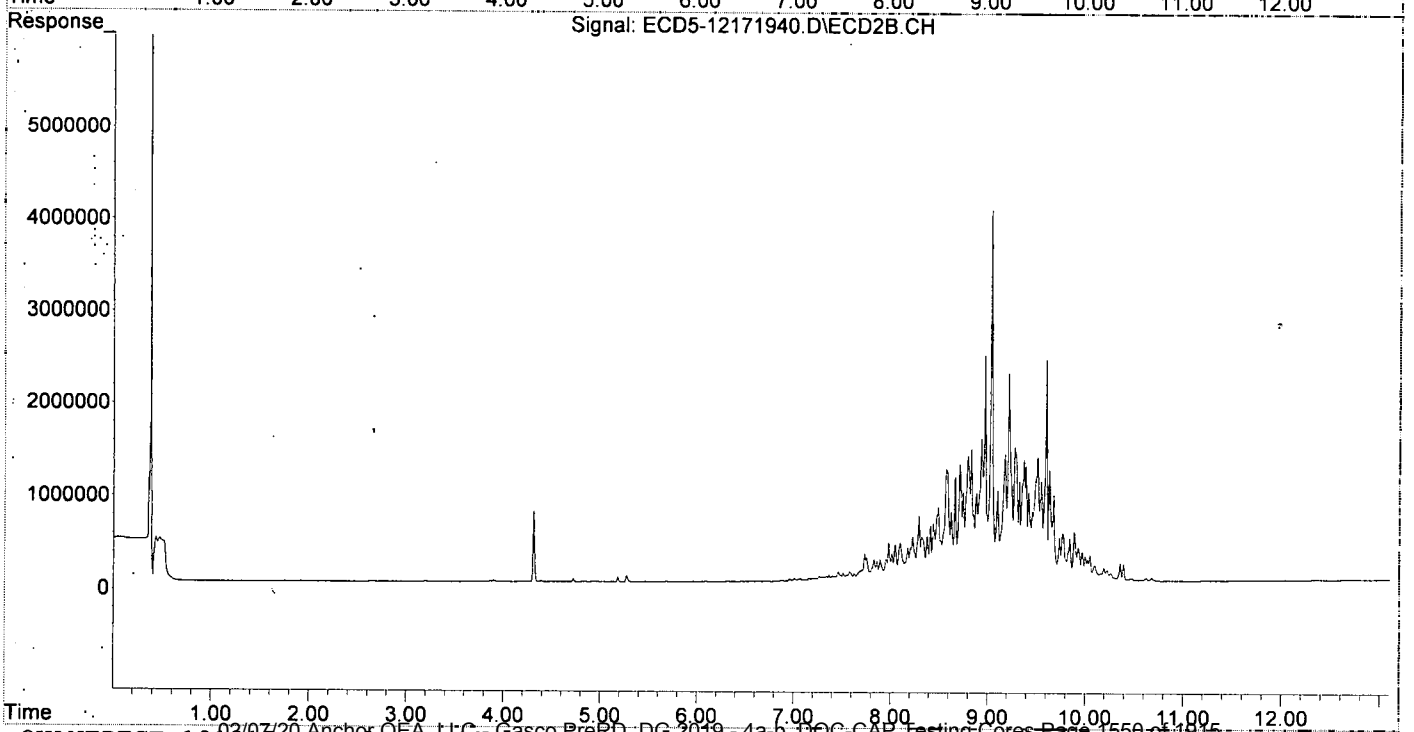
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171940.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 22:11
Operator : MJB
Sample : 9L17040-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: Dec 18 11:22:24 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:16:04 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 22:28
Operator : MJB
Sample : 9L17040-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: Dec 18 11:28:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

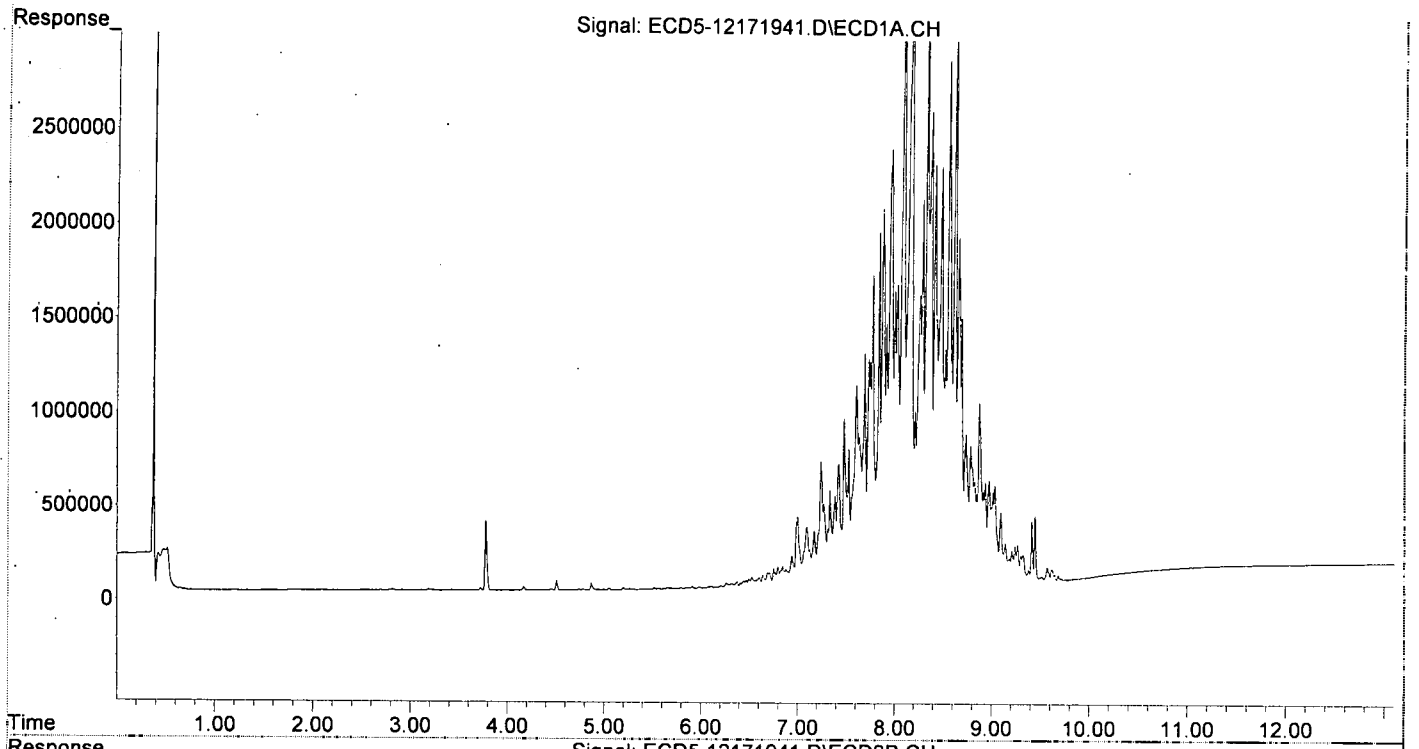
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.478	8.571	884818	2420092	375.330	354.065
37)		Toxaphene...	7.771	8.934	1653145	3182543	389.006	374.252
38)		Toxaphene...	8.083	8.971	3651132	5086202	419.267	388.335
39)		Toxaphene...	8.323	9.038	3518593	8372957	418.960	388.141
40)		Toxaphene...	8.552	9.214	2774676	4626107	451.528	384.143
41)		Toxaphene...	8.618	9.599	3569596	4862614	439.005	398.425
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

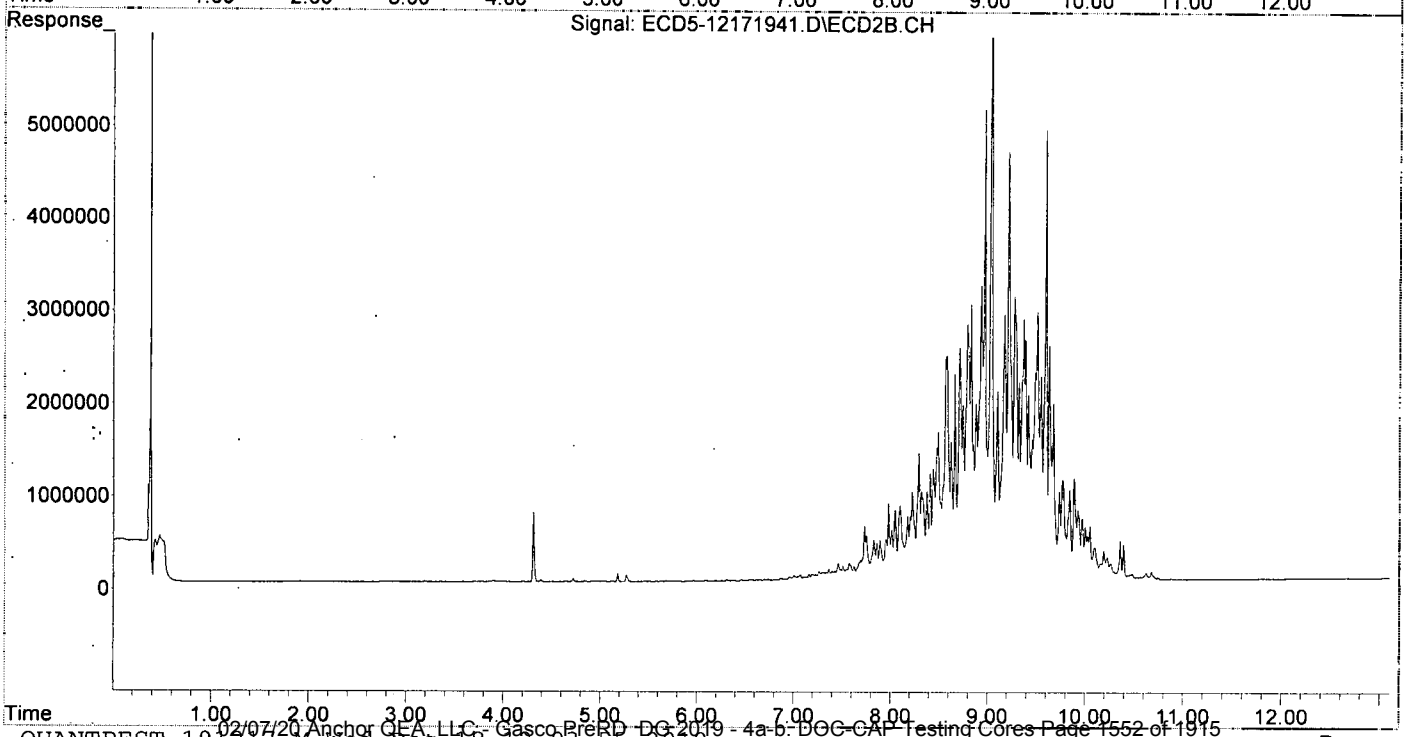
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171941.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 22:28
Operator : MJB
Sample : 9L17040-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: Dec 18 11:28:08 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171942.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 22:45
Operator : MJB
Sample : 9L17040-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: Dec 18 11:28:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/18/19

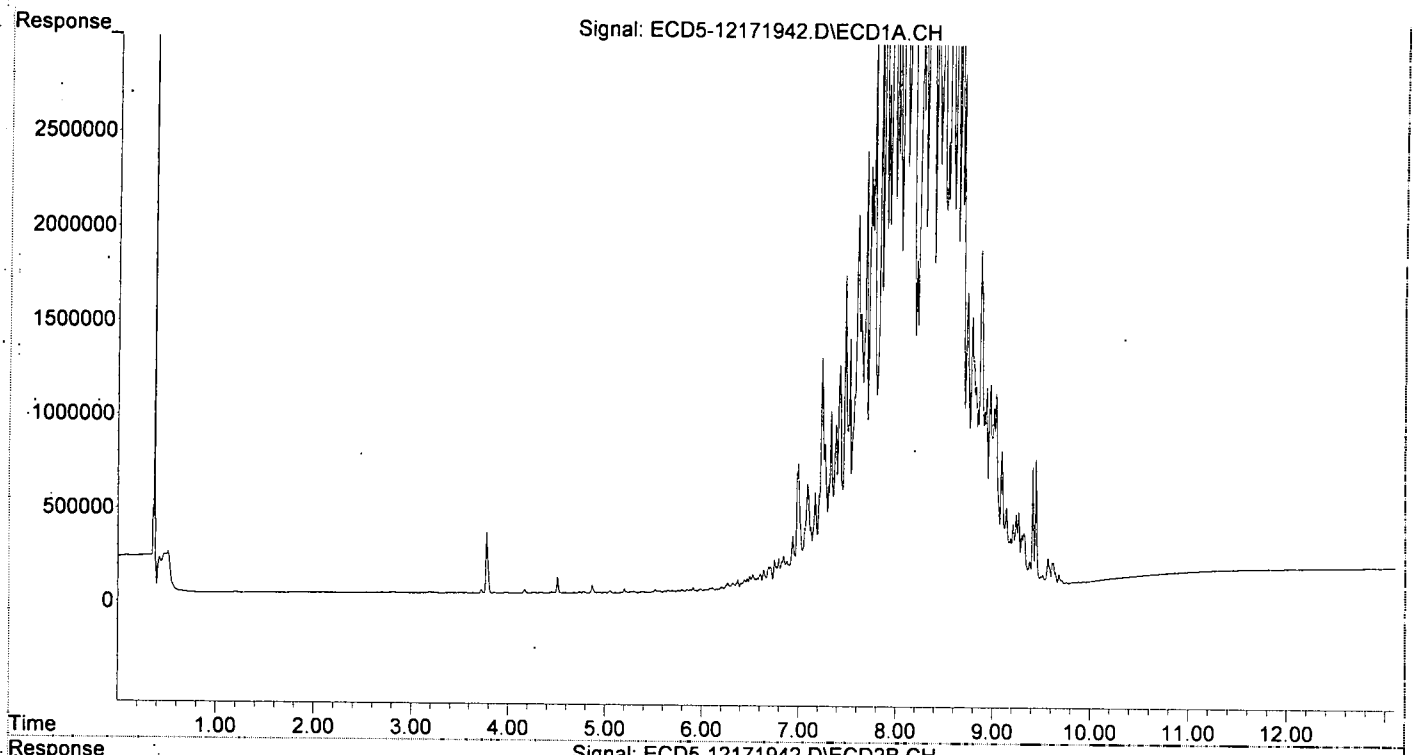
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.477	8.571	1645664	4565174	698.073	667.895
37)	Toxaphene...	7.769	8.934	3028486	6027412	712.641	708.796
38)	Toxaphene...	8.082	8.971	6919306	9828700	794.558	750.428
39)	Toxaphene...	8.323	9.039	6601320	16297376	786.021	755.490
40)	Toxaphene...	8.551	9.215	5336716	8935197	868.453	741.961
41)	Toxaphene...	8.618	9.600	7071979	9688653	869.743	793.853
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

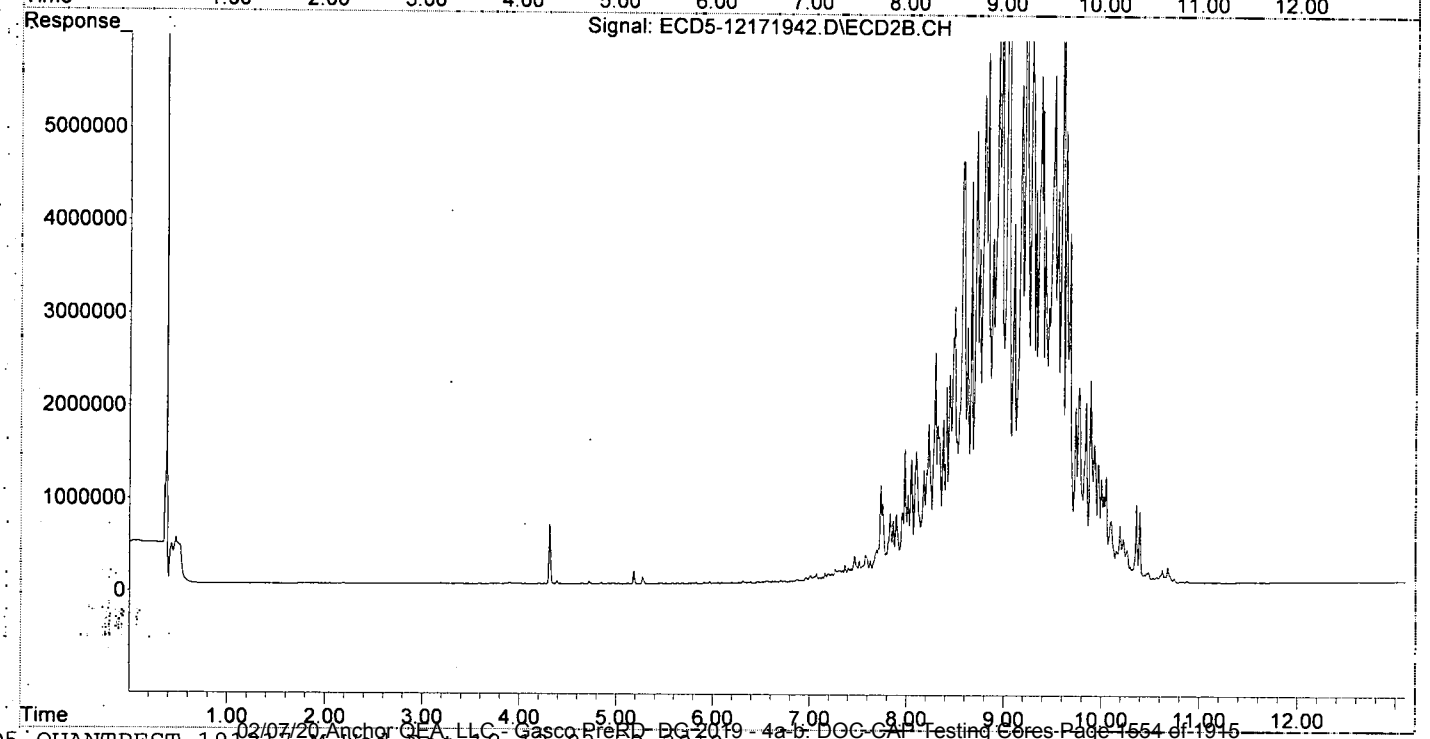
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L17040\
Data File : ECD5-12171942.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Dec 2019 22:45
Operator : MJB
Sample : 9L17040-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: Dec 18 11:28:52 2019
Quant Method : R:\methods\ECD5_QUANTPEST_191217.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:22:34 2019
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 0A08041 (Cal ID A0A0906) DualECD5

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0A08041** Instrument: **DUALECD5**

Date: **01/08/20 11:11** Calibration: **A0A0906**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A08041-BKD2	Water	QC	QC				A20A019
2	0A08041-ICB1	Water	QC	QC				A19L339
3	0A08041-CAL1	Water	QC	QC				A20A094
4	0A08041-CAL2	Water	QC	QC				A20A095
5	0A08041-CAL3	Water	QC	QC				A19K128
6	0A08041-CAL4	Water	QC	QC				A19K130
7	0A08041-CAL5	Water	QC	QC				A19K131
8	0A08041-CAL6	Water	QC	QC				A19K132
9	0A08041-CAL7	Water	QC	QC				A19K133
10	0A08041-CAL8	Water	QC	QC				A19K134
11	0A08041-CAL9	Water	QC	QC				A19K126
12	0A08041-IBL1	Water	QC	QC				
13	0A08041-ICV1	Water	QC	QC				A19I209
14	0A08041-CALA	Water	QC	QC				A20A096
15	0A08041-CALB	Water	QC	QC				A19K263
16	0A08041-CALC	Water	QC	QC				A19K264
17	0A08041-CALD	Water	QC	QC				A19K265
18	0A08041-CALE	Water	QC	QC				A19K266
19	0A08041-CALF	Water	QC	QC				A19J407
20	0A08041-CALG	Water	QC	QC				A19J408
21	0A08041-CALH	Water	QC	QC				A19J409
22	0A08041-CALI	Water	QC	QC				A19K262
23	0A08041-IBL2	Water	QC	QC				
24	0A08041-ICV2	Water	QC	QC				A19J410
25	0A08041-CALJ	Water	QC	QC				A20A097
26	0A08041-CALK	Water	QC	QC				A19K307
27	0A08041-CALL	Water	QC	QC				A19K308
28	0A08041-CALM	Water	QC	QC				A19K309
29	0A08041-CALN	Water	QC	QC				A19K310
30	0A08041-CALO	Water	QC	QC				A19K311
31	0A08041-CALP	Water	QC	QC				A19K306
32	0A08041-IBL3	Water	QC	QC				
33	0A08041-ICV3	Water	QC	QC				A19K312
34	0A08041-CALQ	Water	QC	QC				A20A098
35	0A08041-CALR	Water	QC	QC				A19J417
36	0A08041-CALS	Water	QC	QC				A19J418
37	0A08041-CALT	Water	QC	QC				A19J419
38	0A08041-CALU	Water	QC	QC				A19J420
39	0A08041-CALV	Water	QC	QC				A19J421
40	0A08041-CALW	Water	QC	QC				A19J416
41	0A08041-IBL4	Water	QC	QC				
42	0A08041-ICV4	Water	QC	QC				A19J422

Comments: ICAL

Data Entered By: MJB 1/9/20

Data Reviewed By: [illegible] 1/14/20

Calibration Status Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_200107.M
Title : Instrument: DualECD5
Last Update : Thu Jan 09 11:11:29 2020
Response Via : Initial Calibration

AOA 0906

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	R:\data\2020-01\0A08041\ECD5-01082042.D
2	2	50	0	R:\data\2020-01\0A08041\ECD5-01082043.D
3	3	100	0	R:\data\2020-01\0A08041\ECD5-01082044.D
4	4	200	0	R:\data\2020-01\0A08041\ECD5-01082045.D
5	5	500	0	R:\data\2020-01\0A08041\ECD5-01082046.D
6	6	1000	0	R:\data\2020-01\0A08041\ECD5-01082047.D
7	7	2000	0	R:\data\2020-01\0A08041\ECD5-01082048.D
8	8	-1	0	R:\data\2020-01\0A08041\ECD5-01082029.D
9	9	-1	0	R:\data\2020-01\0A08041\ECD5-01082030.D

MJB 1/9/20

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Jan 09 11:10 2020	Jan 09 11:03 2020	08 Jan 2020 23:41
2	2	Jan 09 11:10 2020	Jan 09 11:04 2020	08 Jan 2020 23:58
3	3	Jan 09 11:10 2020	Jan 09 11:05 2020	09 Jan 2020 0:15
4	4	Jan 09 11:11 2020	Jan 09 11:05 2020	09 Jan 2020 0:32
5	5	Jan 09 11:11 2020	Jan 09 11:07 2020	09 Jan 2020 0:50
6	6	Jan 09 11:11 2020	Jan 09 11:06 2020	09 Jan 2020 1:07
7	7	Jan 09 11:11 2020	Jan 09 11:07 2020	09 Jan 2020 1:24
8	8	Jan 09 11:09 2020	Jan 09 10:53 2020	08 Jan 2020 19:59
9	9	Jan 09 11:09 2020	Jan 09 10:54 2020	08 Jan 2020 20:16

ECD5_QUANTPEST_200107.M Thu Jan 09 14:29:55 2020

Calibration Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_200107.M
Title : Instrument: DualECD5
Last Update : Thu Jan 09 11:11:29 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD5-01082042 2 =ECD5-01082043 3 =ECD5-01082044 4 =ECD5-01082045 5 =ECD5-01
6 =ECD5-01082047 7 =ECD5-01082048 8 =ECD5-01082029 9 =ECD5-01082030

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Avg	-----	1.9526 e5	-----	0.0804
2)		a-BHC	Avg	-----	2.6316 e5	-----	0.0190
3)		g-BHC	Avg	-----	2.3350 e5	-----	0.0183
4)		b-BHC	Quad	1.6419 e4	9.8035 e4	-1.6527 e1	0.9994
5)		Heptachlor	Avg	-----	2.2724 e5	-----	0.0407
6)		d-BHC	Avg	-----	2.1784 e5	-----	0.0334
7)		Aldrin	Avg	-----	2.2064 e5	-----	0.0214
8)		Heptachlor Expoxide	Avg	-----	2.0616 e5	-----	0.0518
9)		trans-Chlordane	Avg	-----	2.1072 e5	-----	0.0349
10)		cis-Chlordane	Avg	-----	2.0463 e5	-----	0.0485
11)		Endosulfan I	Avg	-----	1.9380 e5	-----	0.0513
12)		4,4'-DDE	Avg	-----	2.0619 e5	-----	0.0166
13)		Dieldrin	Avg	-----	2.1538 e5	-----	0.0214
14)		Endrin	Avg	-----	1.7302 e5	-----	0.0668
15)		4,4'-DDD	Avg	-----	1.7265 e5	-----	0.0218
16)		Endosulfan II	Avg	-----	1.7062 e5	-----	0.0756
17)		4,4'-DDT	Avg	-----	1.6566 e5	-----	0.0435
18)		Endrin Aldehyde	Avg	-----	1.5311 e5	-----	0.0800
19)		Endosulfan Sulfate	Avg	-----	1.6004 e5	-----	0.0532
20)		Methoxychlor	Avg	-----	8.6608 e4	-----	0.0605
21)		Endrin Ketone	Avg	-----	1.9097 e5	-----	0.0236
22)	S	DCBP (S)	Quad	2.3268 e4	1.4960 e5	-1.8397 e1	0.9989
23)		Hexachlorobutadiene	Avg	-----	1.9945 e5	-----	0.0981
24)		Hexachlorobenzene	Quad	2.9978 e4	1.9264 e5	1.8763	0.9962
25)		Oxychlordane	Quad	3.5543 e4	1.7429 e5	2.1636 e1	0.9947
26)		2,4'-DDE	Avg	-----	1.4259 e5	-----	0.0981
27)		trans-Nonachlor	Quad	3.1077 e4	1.9823 e5	1.7689 e1	0.9961
28)		2,4'-DDD	Avg	-----	1.2723 e5	-----	0.0899
29)		2,4'-DDT	Avg	-----	1.4648 e5	-----	0.0983
30)		cis-Nonachlor	Avg	-----	2.3570 e5	-----	0.0909
31)		Mirex	Quad	3.3267 e4	1.3487 e5	-2.0062 e1	0.9918
32)		Chlordane (1)	Avg	-----	2.3462 e4	-----	0.0395
33)		Chlordane (2)	Avg	-----	2.8821 e4	-----	0.0350
34)		Chlordane (3)	Avg	-----	7.6076 e3	-----	0.0633
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----	1.0532 e3	-----	0.0794
37)		Toxaphene (2)	Avg	-----	1.9447 e3	-----	0.0738
38)		Toxaphene (3)	Quad	1.7387 e4	4.1786 e3	0.0557	0.9986
39)		Toxaphene (4)	Avg	-----	4.0400 e3	-----	0.0497
40)		Toxaphene (5)	Avg	-----	3.2878 e3	-----	0.0355
41)		Toxaphene (6)	Avg	-----	4.3424 e3	-----	0.0566
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

Signal #2

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S	TCMX (S)	Avg	-----	2.9808 e5	-----	0.0587
2)		a-BHC	Avg	-----	4.1295 e5	-----	0.0894
3)		g-BHC	Avg	-----	3.6510 e5	-----	0.0715
4)		b-BHC	Avg	-----	1.6086 e5	-----	0.0718
5)		Heptachlor	Avg	-----	3.5449 e5	-----	0.0728
6)		d-BHC	Quad	-1.9393 e4	3.3588 e5	3.9787 e2	0.9968
7)		Aldrin	Avg	-----	3.3306 e5	-----	0.0639

HJB 1/9/20

8)		Heptachlor Expoxide	Avg	-----	3.0804 e5	-----	0.0552
9)		trans-Chlordane	Avg	-----	3.1183 e5	-----	0.0623
10)		cis-Chlordane	Avg	-----	2.9665 e5	-----	0.0474
11)		Endosulfan I	Avg	-----	2.7788 e5	-----	0.0595
12)		4,4'-DDE	Quad	-9.6262 e3	2.9077 e5	3.6238 e2	0.9979
13)		Dieldrin	Avg	-----	3.0893 e5	-----	0.0776
14)		Endrin	Avg	-----	2.3497 e5	-----	0.0933
15)		4,4'-DDD	Avg	-----	2.4581 e5	-----	0.0971
16)		Endosulfan II	Avg	-----	2.4430 e5	-----	0.0776
17)		4,4'-DDT	Quad	-6.2328 e3	2.1337 e5	4.0170 e2	0.9966
18)		Endrin Aldehyde	Avg	-----	2.2360 e5	-----	0.0489
19)		Endosulfan Sulfate	Avg	-----	2.2167 e5	-----	0.0799
20)		Methoxychlor	Avg	-----	1.1893 e5	-----	0.0918
21)		Endrin Ketone	Avg	-----	2.5043 e5	-----	0.0975
22)	S	DCBP (S)	Avg	-----	1.7795 e5	-----	0.0846
23)		Hexachlorobutadiene	Avg	-----	4.0073 e5	-----	0.0684
24)		Hexachlorobenzene	Avg	-----	3.2010 e5	-----	0.0850
25)		Oxychlordane	Avg	-----	2.7969 e5	-----	0.0948
26)		2,4'-DDE	Avg	-----	2.1059 e5	-----	0.0853
27)		trans-Nonachlor	Avg	-----	3.0749 e5	-----	0.0865
28)		2,4'-DDD	Avg	-----	1.8444 e5	-----	0.0961
29)		2,4'-DDT	Quad	1.9201 e4	1.8390 e5	3.4248 e2	0.9962
30)		cis-Nonachlor	Avg	-----	3.4114 e5	-----	0.0896
31)		Mirex	Quad	4.6564 e4	1.7252 e5	1.8989 e2	0.9939
32)		Chlordane (1)	Avg	-----	3.8897 e4	-----	0.0816
33)		Chlordane (2)	Avg	-----	3.2098 e4	-----	0.0642
34)		Chlordane (3)	Avg	-----	1.0618 e4	-----	0.0935
35)		Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----	2.7043 e3	-----	0.0563
37)		Toxaphene (2)	Avg	-----	3.4826 e3	-----	0.0559
38)		Toxaphene (3)	Quad	2.0271 e4	5.1151 e3	0.4339	0.9999
39)		Toxaphene (4)	Avg	-----	9.0257 e3	-----	0.0752
40)		Toxaphene (5)	Avg	-----	5.0220 e3	-----	0.0635
41)		Toxaphene (6)	Avg	-----	5.6142 e3	-----	0.0691
42)		Toxaphene - AVE	Avg	-----	-----	-----	0.0000

ECD5_QUANTPEST_200107.M Thu Jan 09 15:22:53 2020

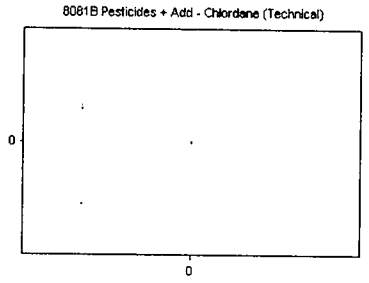
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Chlordane (Technical)

Curve Fit: **AVERAGE RF**

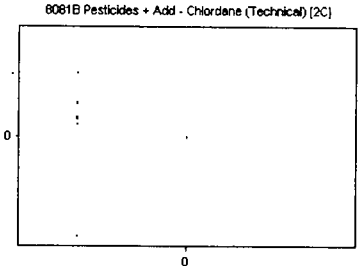


Standard	Concentration	Response	Response Factor	RT
0A08041-CALJ	10	0	0.000	0.00
0A08041-CALK	50	0	0.000	0.00
0A08041-CALL	100	0	0.000	0.00
0A08041-CALM	200	0	0.000	0.00
0A08041-CALN	500	0	0.000	0.00
0A08041-CALO	1000	0	0.000	0.00
0A08041-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Chlordane (Technical) [2C]

Curve Fit: **AVERAGE RF**

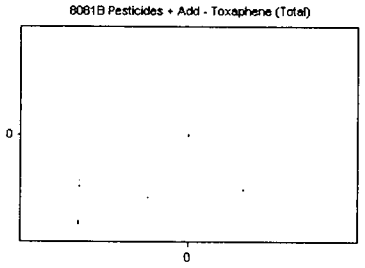


Standard	Concentration	Response	Response Factor	RT
0A08041-CALJ	10	0	0.000	0.00
0A08041-CALK	50	0	0.000	0.00
0A08041-CALL	100	0	0.000	0.00
0A08041-CALM	200	0	0.000	0.00
0A08041-CALN	500	0	0.000	0.00
0A08041-CALO	1000	0	0.000	0.00
0A08041-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Toxaphene (Total)

Curve Fit: **AVERAGE RF**

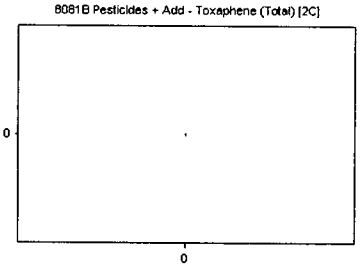


Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	0	0.000	0.00
0A08041-CALR	50	0	0.000	0.00
0A08041-CALS	100	0	0.000	0.00
0A08041-CALT	200	0	0.000	0.00
0A08041-CALU	500	0	0.000	0.00
0A08041-CALV	1000	0	0.000	0.00
0A08041-CALW	2000	0	0.000	0.00

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
0A08041-CALQ	10	0	0.000	0.00
0A08041-CALR	50	0	0.000	0.00
0A08041-CALS	100	0	0.000	0.00
0A08041-CALT	200	0	0.000	0.00
0A08041-CALU	500	0	0.000	0.00
0A08041-CALV	1000	0	0.000	0.00
0A08041-CALW	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

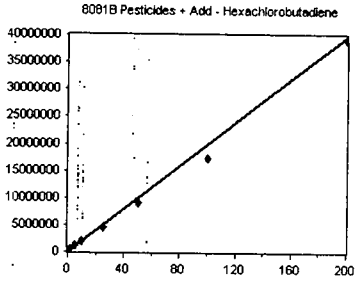
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Hexachlorobutadiene

Curve Fit: **AVERAGE RF**

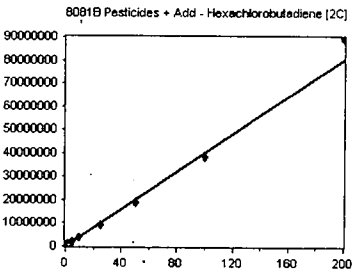


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	111441	222882.000	3.20
0A08041-CALB	1	233620	233620.000	3.20
0A08041-CALC	2	399253	199626.500	3.20
0A08041-CALD	5	1045541	209108.200	3.20
0A08041-CALE	10	1945769	194576.900	3.20
0A08041-CALF	25	4597497	183899.900	3.20
0A08041-CALG	50	9074096	181481.900	3.21
0A08041-CALH	100	1.739457E+07	173945.700	3.21
0A08041-CALI	200	3.917575E+07	195878.800	3.21

AVE RF **199446.700** RF RSD **9.81** AVE RT **3.20**

Hexachlorobutadiene [2C]

Curve Fit: **AVERAGE RF**

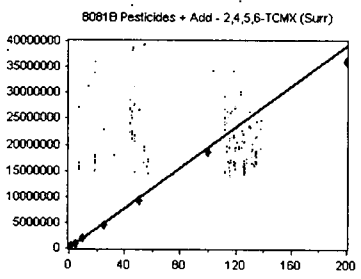


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	211151	422302.000	3.81
0A08041-CALB	1	433391	433391.000	3.81
0A08041-CALC	2	769290	384645.000	3.81
0A08041-CALD	5	2029333	405866.600	3.81
0A08041-CALE	10	3803037	380303.700	3.81
0A08041-CALF	25	9313071	372522.800	3.81
0A08041-CALG	50	1.891409E+07	378281.800	3.81
0A08041-CALH	100	3.822985E+07	382298.500	3.82
0A08041-CALI	200	8.938687E+07	446934.400	3.82

AVE RF **400727.300** RF RSD **6.84** AVE RT **3.81**

2,4,5,6-TCMX (Surr)

Curve Fit: **AVERAGE RF**

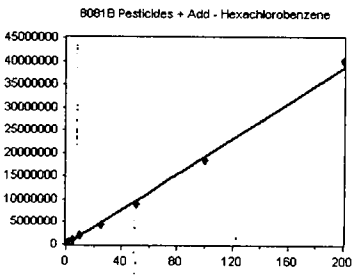


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	112863	225726.000	5.40
0A08041-CAL2	1	211254	211254.000	5.40
0A08041-CAL3	2	415516	207758.000	5.40
0A08041-CAL4	5	950074	190014.800	5.40
0A08041-CAL5	10	1840383	184038.300	5.40
0A08041-CAL6	25	4644520	185780.800	5.40
0A08041-CAL7	50	9333732	186674.600	5.40
0A08041-CAL8	100	1.860801E+07	186080.100	5.40
0A08041-CAL9	200	3.600419E+07	180021.000	5.40

AVE RF **195260.800** RF RSD **8.04** AVE RT **5.40**

Hexachlorobenzene

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	122709	245418.000	5.78
0A08041-CALB	1	233462	233462.000	5.78
0A08041-CALC	2	418552	209276.000	5.78
0A08041-CALD	5	1068601	213720.200	5.78
0A08041-CALE	10	2009121	200912.100	5.78
0A08041-CALF	25	4493137	179725.500	5.78
0A08041-CALG	50	9072972	181459.400	5.78
0A08041-CALH	100	1.858538E+07	185853.800	5.78
0A08041-CALI	200	4.017022E+07	200851.100	5.79

AVE RF **205630.900** RF RSD **11.05** AVE RT **5.78**

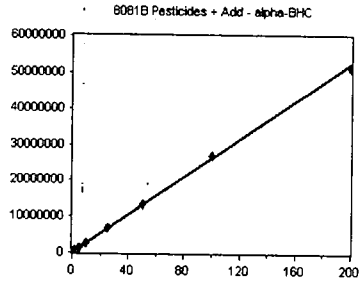
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

alpha-BHC

Curve Fit: **AVERAGE RF**

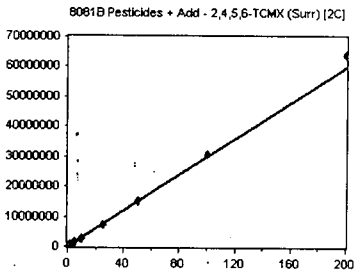


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	133246	266492.000	5.94
0A08041-CAL2	1	256973	256973.000	5.94
0A08041-CAL3	2	537497	268748.500	5.94
0A08041-CAL4	5	1306500	261300.000	5.94
0A08041-CAL5	10	2577924	257792.400	5.94
0A08041-CAL6	25	6708027	268321.100	5.94
0A08041-CAL7	50	1.321685E+07	264337.000	5.94
0A08041-CAL8	100	2.676178E+07	267617.800	5.94
0A08041-CAL9	200	5.137859E+07	256893.000	5.94

AVE RF **263163.900** RF RSD **1.90** AVE RT **5.94**

2,4,5,6-TCMX (Surr) [2C]

Curve Fit: **AVERAGE RF**

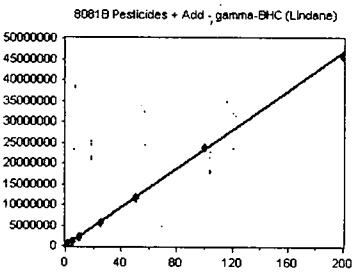


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	158219	316438.000	6.12
0A08041-CAL2	1	311231	311231.000	6.13
0A08041-CAL3	2	589045	294522.500	6.13
0A08041-CAL4	5	1376103	275220.600	6.13
0A08041-CAL5	10	2696320	269632.000	6.13
0A08041-CAL6	25	7248704	289948.200	6.13
0A08041-CAL7	50	1.49735E+07	299470.000	6.13
0A08041-CAL8	100	3.072632E+07	307263.200	6.13
0A08041-CAL9	200	6.380501E+07	319025.000	6.13

AVE RF **298083.400** RF RSD **5.87** AVE RT **6.13**

gamma-BHC (Lindane)

Curve Fit: **AVERAGE RF**

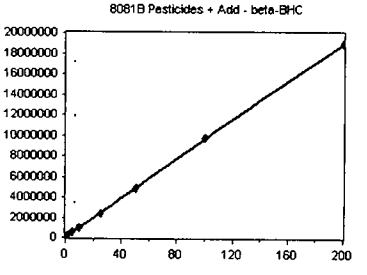


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	120283	240566.000	6.23
0A08041-CAL2	1	234366	234366.000	6.23
0A08041-CAL3	2	471506	235753.000	6.23
0A08041-CAL4	5	1166721	233344.200	6.22
0A08041-CAL5	10	2268745	226874.500	6.22
0A08041-CAL6	25	5763650	230546.000	6.23
0A08041-CAL7	50	1.170812E+07	234162.400	6.23
0A08041-CAL8	100	2.371919E+07	237191.900	6.23
0A08041-CAL9	200	4.574073E+07	228703.600	6.23

AVE RF **233500.800** RF RSD **1.83** AVE RT **6.23**

beta-BHC

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	65009	130018.000	6.30
0A08041-CAL2	1	114282	114282.000	6.30
0A08041-CAL3	2	220797	110398.500	6.30
0A08041-CAL4	5	509830	101966.000	6.30
0A08041-CAL5	10	961397	96139.700	6.30
0A08041-CAL6	25	2412054	96482.160	6.30
0A08041-CAL7	50	4896621	97932.420	6.30
0A08041-CAL8	100	9778496	97784.960	6.30
0A08041-CAL9	200	1.888572E+07	94428.600	6.30

AVE RF **104381.400** RF RSD **11.29** AVE RT **6.30**

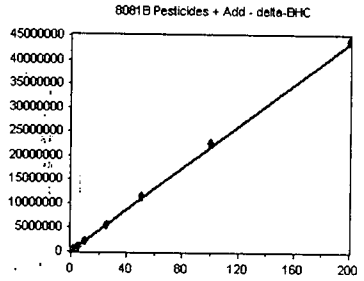
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

delta-BHC

Curve Fit: **AVERAGE RF**

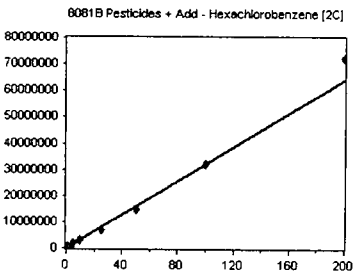


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	111153	222306.000	6.45
0A08041-CAL2	1	208419	208419.000	6.45
0A08041-CAL3	2	432587	216293.500	6.45
0A08041-CAL4	5	1063446	212689.200	6.45
0A08041-CAL5	10	2076601	207660.100	6.45
0A08041-CAL6	25	5473600	218944.000	6.45
0A08041-CAL7	50	1.142903E+07	228580.600	6.45
0A08041-CAL8	100	2.255994E+07	225599.400	6.45
0A08041-CAL9	200	4.401698E+07	220084.900	6.45

AVE RF **217841.900** RF RSD **3.34** AVE RT **6.45**

Hexachlorobenzene [2C]

Curve Fit: **AVERAGE RF**

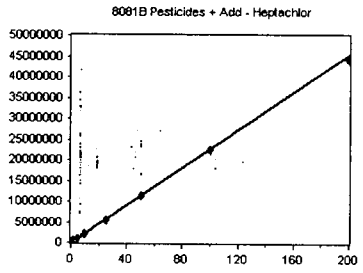


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	175732	351464.000	6.60
0A08041-CALB	1	346466	346466.000	6.60
0A08041-CALC	2	608347	304173.500	6.60
0A08041-CALD	5	1591805	318361.000	6.60
0A08041-CALE	10	3000124	300012.400	6.59
0A08041-CALF	25	7094857	283794.300	6.59
0A08041-CALG	50	1.472284E+07	294456.800	6.59
0A08041-CALH	100	3.220521E+07	322052.100	6.60
0A08041-CALI	200	7.202848E+07	360142.400	6.60

AVE RF **320102.500** RF RSD **8.50** AVE RT **6.59**

Heptachlor

Curve Fit: **AVERAGE RF**

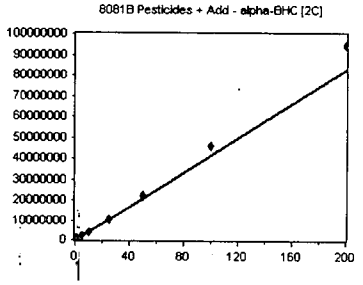


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	122190	244380.000	6.64
0A08041-CAL2	1	233856	233856.000	6.64
0A08041-CAL3	2	456995	228497.500	6.64
0A08041-CAL4	5	1163113	232622.600	6.64
0A08041-CAL5	10	2147477	214747.700	6.64
0A08041-CAL6	25	5435552	217422.100	6.64
0A08041-CAL7	50	1.143657E+07	228731.400	6.64
0A08041-CAL8	100	2.252592E+07	225259.200	6.64
0A08041-CAL9	200	4.392158E+07	219607.900	6.64

AVE RF **227236.000** RF RSD **4.07** AVE RT **6.64**

alpha-BHC [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	185876	371752.000	6.73
0A08041-CAL2	1	379209	379209.000	6.74
0A08041-CAL3	2	767270	383635.000	6.73
0A08041-CAL4	5	1977180	395436.000	6.73
0A08041-CAL5	10	3955799	395579.900	6.73
0A08041-CAL6	25	1.041547E+07	416618.800	6.74
0A08041-CAL7	50	2.208932E+07	441786.400	6.74
0A08041-CAL8	100	4.600992E+07	460099.200	6.73
0A08041-CAL9	200	9.449035E+07	472451.800	6.74

AVE RF **412952.000** RF RSD **8.94** AVE RT **6.73**

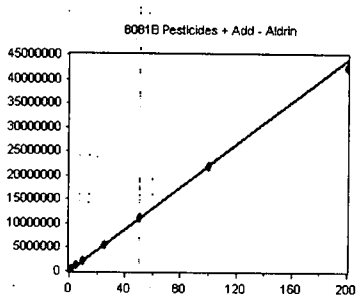
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Aldrin

Curve Fit: **AVERAGE RF**

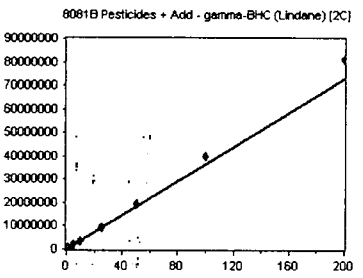


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	113031	226062.000	6.88
0A08041-CAL2	1	224047	224047.000	6.88
0A08041-CAL3	2	440039	220019.500	6.88
0A08041-CAL4	5	1111711	222342.200	6.88
0A08041-CAL5	10	2163245	216324.500	6.88
0A08041-CAL6	25	5637637	225505.500	6.88
0A08041-CAL7	50	1.108784E+07	221756.800	6.88
0A08041-CAL8	100	2.182767E+07	218276.700	6.88
0A08041-CAL9	200	4.228299E+07	211415.000	6.88

AVE RF **220638.800** RF RSD **2.14** AVE RT **6.88**

gamma-BHC (Lindane) [2C]

Curve Fit: **AVERAGE RF**

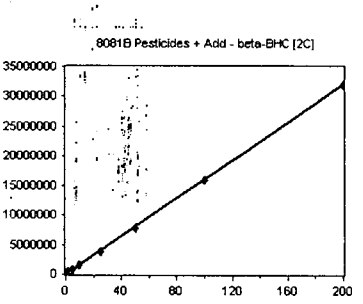


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	175442	350884.000	7.05
0A08041-CAL2	1	343398	343398.000	7.06
0A08041-CAL3	2	677169	338584.500	7.05
0A08041-CAL4	5	1723036	344607.200	7.05
0A08041-CAL5	10	3502209	350220.900	7.05
0A08041-CAL6	25	9109081	364363.300	7.05
0A08041-CAL7	50	1.934841E+07	386968.200	7.06
0A08041-CAL8	100	4.010865E+07	401086.500	7.05
0A08041-CAL9	200	8.115283E+07	405764.200	7.06

AVE RF **365097.400** RF RSD **7.15** AVE RT **7.05**

beta-BHC [2C]

Curve Fit: **AVERAGE RF**

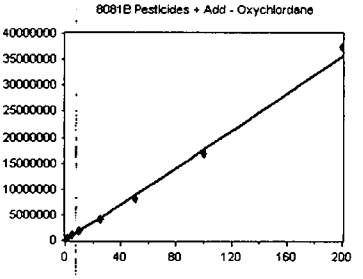


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	92509	185018.000	7.11
0A08041-CAL2	1	172988	172988.000	7.12
0A08041-CAL3	2	320899	160449.500	7.12
0A08041-CAL4	5	782957	156591.400	7.11
0A08041-CAL5	10	1480627	148062.700	7.11
0A08041-CAL6	25	3735653	149426.100	7.12
0A08041-CAL7	50	7821870	156437.400	7.12
0A08041-CAL8	100	1.587219E+07	158721.900	7.11
0A08041-CAL9	200	3.200316E+07	160015.800	7.11

AVE RF **160856.800** RF RSD **7.18** AVE RT **7.11**

Oxychlordane

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	118861	237722.000	7.27
0A08041-CALB	1	223883	223883.000	7.27
0A08041-CALC	2	376867	188433.500	7.27
0A08041-CALD	5	992877	198575.400	7.27
0A08041-CALE	10	1829348	182934.800	7.27
0A08041-CALF	25	4098780	163951.200	7.27
0A08041-CALG	50	8215656	164313.100	7.27
0A08041-CALH	100	1.680522E+07	168052.200	7.27
0A08041-CALI	200	3.739266E+07	186963.300	7.27

AVE RF **190536.500** RF RSD **13.61** AVE RT **7.27**

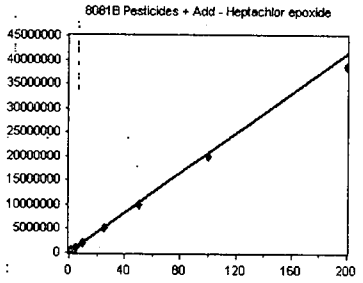
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Heptachlor epoxide

Curve Fit: **AVERAGE RF**

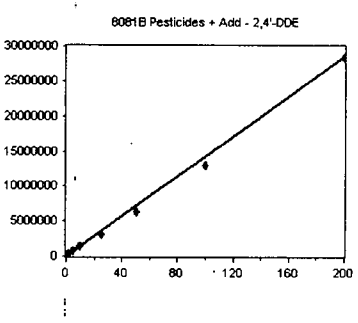


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	112198	224396.000	7.34
0A08041-CAL2	1	218282	218282.000	7.34
0A08041-CAL3	2	427014	213507.000	7.34
0A08041-CAL4	5	1035468	207093.600	7.34
0A08041-CAL5	10	1956671	195667.100	7.34
0A08041-CAL6	25	5116716	204668.600	7.34
0A08041-CAL7	50	9998611	199972.200	7.34
0A08041-CAL8	100	1.986637E+07	198663.700	7.34
0A08041-CAL9	200	3.8629E+07	193145.000	7.34

AVE RF **206155.000** RF RSD **5.18** AVE RT **7.34**

2,4'-DDE

Curve Fit: **AVERAGE RF**

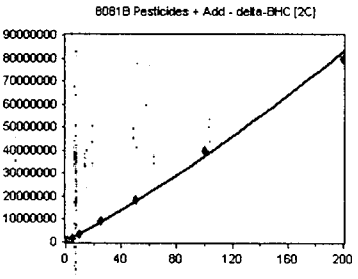


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	81726	163452.000	7.34
0A08041-CALB	1	161136	161136.000	7.34
0A08041-CALC	2	286330	143165.000	7.34
0A08041-CALD	5	750391	150078.200	7.34
0A08041-CALE	10	1426392	142639.200	7.34
0A08041-CALF	25	3149574	125983.000	7.34
0A08041-CALG	50	6308999	126180.000	7.34
0A08041-CALH	100	1.290157E+07	129015.700	7.34
0A08041-CALI	200	2.833477E+07	141673.800	7.34

AVE RF **142591.400** RF RSD **9.81** AVE RT **7.34**

delta-BHC [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

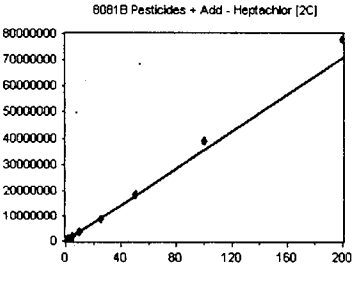


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	153966	307932.000	7.37
0A08041-CAL2	1	310209	310209.000	7.38
0A08041-CAL3	2	603549	301774.500	7.37
0A08041-CAL4	5	1616218	323243.600	7.37
0A08041-CAL5	10	3263098	326309.800	7.37
0A08041-CAL6	25	9124505	364980.200	7.37
0A08041-CAL7	50	1.865751E+07	373150.200	7.38
0A08041-CAL8	100	3.988898E+07	398889.800	7.37
0A08041-CAL9	200	7.956368E+07	397818.400	7.37

AVE RF **344923.100** RF RSD **11.30** AVE RT **7.37**

Heptachlor [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	183474	366948.000	7.43
0A08041-CAL2	1	337319	337319.000	7.44
0A08041-CAL3	2	655441	327720.500	7.43
0A08041-CAL4	5	1661120	332224.000	7.43
0A08041-CAL5	10	3263335	326333.500	7.43
0A08041-CAL6	25	8726365	349054.600	7.44
0A08041-CAL7	50	1.847601E+07	369520.200	7.44
0A08041-CAL8	100	3.912069E+07	391206.900	7.43
0A08041-CAL9	200	7.801242E+07	390062.100	7.43

AVE RF **354487.600** RF RSD **7.28** AVE RT **7.43**

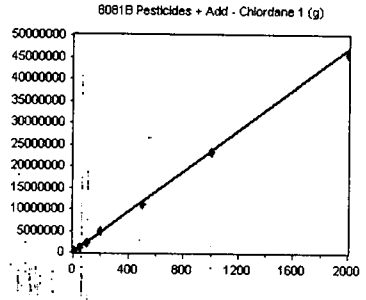
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Chlordane 1 (g)

Curve Fit: **AVERAGE RF**

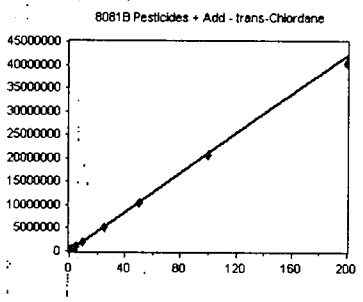


Standard	Concentration	Response	Response Factor	RT
0A08041-CALJ	10	252150	25215.000	7.44
0A08041-CALK	50	1178611	23572.220	7.44
0A08041-CALL	100	2294923	22949.230	7.44
0A08041-CALM	200	4793058	23965.290	7.44
0A08041-CALN	500	1.120629E+07	22412.580	7.44
0A08041-CALO	1000	2.330687E+07	23306.870	7.44
0A08041-CALP	2000	4.562026E+07	22810.130	7.44

AVE RF **23461.620** RF RSD **3.95** AVE RT **7.44**

trans-Chlordane

Curve Fit: **AVERAGE RF**

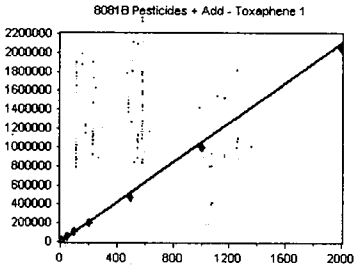


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	112737	225474.000	7.44
0A08041-CAL2	1	218441	218441.000	7.44
0A08041-CAL3	2	425200	212600.000	7.44
0A08041-CAL4	5	1044033	208806.600	7.44
0A08041-CAL5	10	2032056	203205.600	7.44
0A08041-CAL6	25	5203493	208139.700	7.44
0A08041-CAL7	50	1.053302E+07	210660.400	7.44
0A08041-CAL8	100	2.068412E+07	206841.200	7.44
0A08041-CAL9	200	4.045936E+07	202296.800	7.44

AVE RF **210718.400** RF RSD **3.49** AVE RT **7.44**

Toxaphene 1

Curve Fit: **AVERAGE RF**

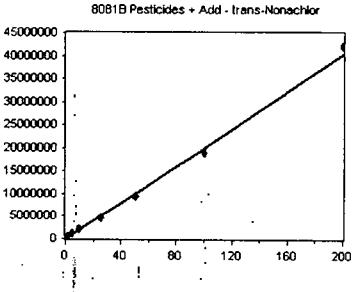


Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	12164	1216.400	7.51
0A08041-CALR	50	54826	1096.520	7.51
0A08041-CALS	100	104733	1047.330	7.51
0A08041-CALT	200	206853	1034.265	7.51
0A08041-CALU	500	479175	958.350	7.51
0A08041-CALV	1000	998436	998.436	7.51
0A08041-CALW	2000	2042518	1021.259	7.51

AVE RF **1053.223** RF RSD **7.94** AVE RT **7.51**

trans-Nonachlor

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	126746	253492.000	7.53
0A08041-CALB	1	240849	240849.000	7.53
0A08041-CALC	2	424879	212439.500	7.53
0A08041-CALD	5	1102633	220526.600	7.53
0A08041-CALE	10	2076481	207648.100	7.53
0A08041-CALF	25	4606719	184268.800	7.53
0A08041-CALG	50	9587997	191759.900	7.53
0A08041-CALH	100	1.903902E+07	190390.200	7.53
0A08041-CALI	200	4.20211E+07	210105.500	7.52

AVE RF **212386.600** RF RSD **10.91** AVE RT **7.53**

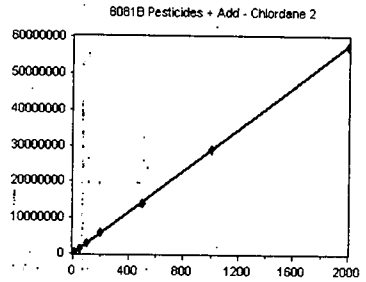
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Chlordane 2

Curve Fit: **AVERAGE RF**

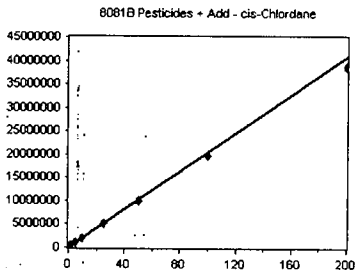


Standard	Concentration	Response	Response Factor	RT
0A08041-CALJ	10	308195	30819.500	7.53
0A08041-CALK	50	1443194	28863.880	7.53
0A08041-CALL	100	2780199	27801.990	7.53
0A08041-CALM	200	5801810	29009.050	7.53
0A08041-CALN	500	1.390836E+07	27816.720	7.53
0A08041-CALO	1000	2.873399E+07	28733.990	7.53
0A08041-CALP	2000	5.740022E+07	28700.110	7.53

AVE RF **28820.750** RF RSD **3.50** AVE RT **7.53**

cis-Chlordane

Curve Fit: **AVERAGE RF**

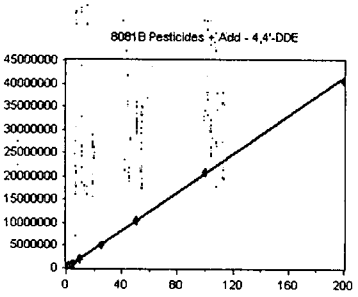


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	112650	225300.000	7.54
0A08041-CAL2	1	212625	212625.000	7.54
0A08041-CAL3	2	422427	211213.500	7.54
0A08041-CAL4	5	1008295	201659.000	7.54
0A08041-CAL5	10	1994276	199427.600	7.53
0A08041-CAL6	25	5032396	201295.800	7.54
0A08041-CAL7	50	9997532	199950.600	7.54
0A08041-CAL8	100	1.962255E+07	196225.500	7.53
0A08041-CAL9	200	3.87896E+07	193948.000	7.53

AVE RF **204627.200** RF RSD **4.85** AVE RT **7.53**

4,4'-DDE

Curve Fit: **AVERAGE RF**

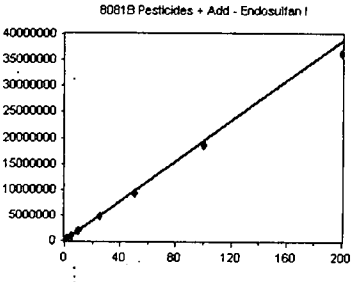


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	102992	205984.000	7.60
0A08041-CAL2	1	201598	201598.000	7.60
0A08041-CAL3	2	411765	205882.500	7.59
0A08041-CAL4	5	1040350	208070.000	7.59
0A08041-CAL5	10	2021392	202139.200	7.59
0A08041-CAL6	25	5211626	208465.000	7.60
0A08041-CAL7	50	1.054831E+07	210966.200	7.60
0A08041-CAL8	100	2.098132E+07	209813.200	7.59
0A08041-CAL9	200	4.055079E+07	202754.000	7.59

AVE RF **206185.800** RF RSD **1.66** AVE RT **7.59**

Endosulfan I

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	104610	209220.000	7.63
0A08041-CAL2	1	208482	208482.000	7.63
0A08041-CAL3	2	400706	200353.000	7.63
0A08041-CAL4	5	958781	191756.200	7.63
0A08041-CAL5	10	1890427	189042.700	7.63
0A08041-CAL6	25	4772332	190893.300	7.63
0A08041-CAL7	50	9321509	186430.200	7.63
0A08041-CAL8	100	1.866818E+07	186681.800	7.63
0A08041-CAL9	200	3.627396E+07	181369.800	7.63

AVE RF **193803.200** RF RSD **5.13** AVE RT **7.63**

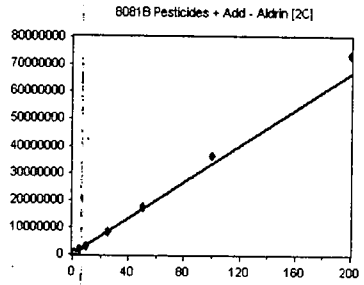
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Aldrin [2C]

Curve Fit: **AVERAGE RF**

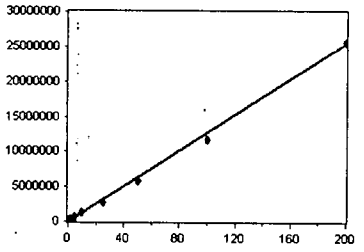


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	161218	322436.000	7.70
0A08041-CAL2	1	314514	314514.000	7.71
0A08041-CAL3	2	629279	314639.500	7.70
0A08041-CAL4	5	1579995	315999.000	7.70
0A08041-CAL5	10	3173256	317325.600	7.70
0A08041-CAL6	25	8363357	334534.300	7.70
0A08041-CAL7	50	1.741975E+07	348395.000	7.71
0A08041-CAL8	100	3.611846E+07	361184.600	7.70
0A08041-CAL9	200	7.369712E+07	368485.600	7.70

AVE RF **333057.100** RF RSD **6.39** AVE RT **7.70**

2,4'-DDD

Curve Fit: **AVERAGE RF**

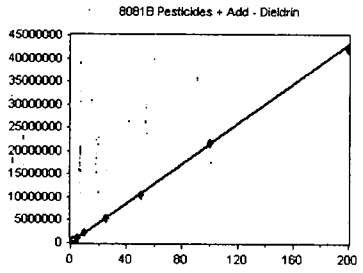


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	71868	143736.000	7.72
0A08041-CALB	1	143303	143303.000	7.72
0A08041-CALC	2	258533	129266.500	7.72
0A08041-CALD	5	654513	130902.600	7.72
0A08041-CALE	10	1263326	126332.600	7.72
0A08041-CALF	25	2775117	111004.700	7.71
0A08041-CALG	50	5793992	115879.800	7.72
0A08041-CALH	100	1.169251E+07	116925.100	7.71
0A08041-CALI	200	2.555101E+07	127755.000	7.71

AVE RF **127233.900** RF RSD **8.99** AVE RT **7.72**

Dieldrin

Curve Fit: **AVERAGE RF**

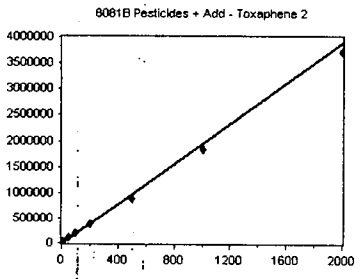


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	111857	223714.000	7.81
0A08041-CAL2	1	218083	218083.000	7.81
0A08041-CAL3	2	434619	217309.500	7.80
0A08041-CAL4	5	1070134	214026.800	7.80
0A08041-CAL5	10	2096792	209679.200	7.80
0A08041-CAL6	25	5425309	217012.400	7.80
0A08041-CAL7	50	1.054024E+07	210804.800	7.80
0A08041-CAL8	100	2.175207E+07	217520.700	7.80
0A08041-CAL9	200	4.204825E+07	210241.200	7.80

AVE RF **215376.800** RF RSD **2.14** AVE RT **7.80**

Toxaphene 2

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	21367	2136.700	7.81
0A08041-CALR	50	106490	2129.800	7.81
0A08041-CALS	100	197183	1971.830	7.81
0A08041-CALT	200	382017	1910.085	7.81
0A08041-CALU	500	883414	1766.828	7.81
0A08041-CALV	1000	1834370	1834.370	7.80
0A08041-CALW	2000	3726169	1863.084	7.80

AVE RF **1944.671** RF RSD **7.38** AVE RT **7.80**

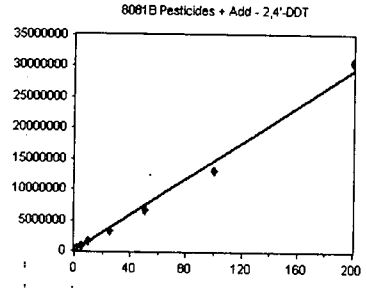
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

2,4'-DDT

Curve Fit: **AVERAGE RF**

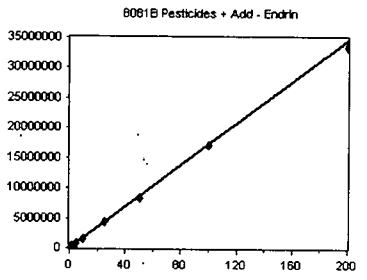


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	83331	166662.000	7.90
0A08041-CALB	1	162358	162358.000	7.90
0A08041-CALC	2	289368	144684.000	7.90
0A08041-CALD	5	769647	153929.400	7.90
0A08041-CALE	10	1485096	148509.600	7.90
0A08041-CALF	25	3121710	124868.400	7.90
0A08041-CALG	50	6696394	133927.900	7.90
0A08041-CALH	100	1.301874E+07	130187.400	7.90
0A08041-CALI	200	3.063201E+07	153160.000	7.90

AVE RF **146476.300** RF RSD **9.83** AVE RT **7.90**

Endrin

Curve Fit: **AVERAGE RF**

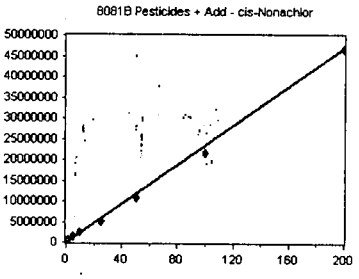


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	93909	187818.000	7.97
0A08041-CAL2	1	188900	188900.000	7.97
0A08041-CAL3	2	366871	183435.500	7.97
0A08041-CAL4	5	807889	161577.800	7.97
0A08041-CAL5	10	1559818	155981.800	7.97
0A08041-CAL6	25	4355756	174230.200	7.97
0A08041-CAL7	50	8377116	167542.300	7.97
0A08041-CAL8	100	1.69906E+07	169906.000	7.97
0A08041-CAL9	200	3.35544E+07	167772.000	7.97

AVE RF **173018.200** RF RSD **6.68** AVE RT **7.97**

cis-Nonachlor

Curve Fit: **AVERAGE RF**

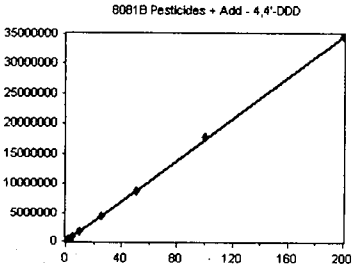


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	134243	268486.000	8.00
0A08041-CALB	1	263651	263651.000	8.00
0A08041-CALC	2	471473	235736.500	8.00
0A08041-CALD	5	1247247	249449.400	8.00
0A08041-CALE	10	2325112	232511.200	8.00
0A08041-CALF	25	5230489	209219.600	8.00
0A08041-CALG	50	1.069194E+07	213838.800	8.00
0A08041-CALH	100	2.148972E+07	214897.200	8.00
0A08041-CALI	200	4.669321E+07	233466.000	8.00

AVE RF **235695.100** RF RSD **9.09** AVE RT **8.00**

4,4'-DDD

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	86424	172848.000	8.02
0A08041-CAL2	1	170626	170626.000	8.02
0A08041-CAL3	2	350808	175404.000	8.02
0A08041-CAL4	5	829598	165919.600	8.02
0A08041-CAL5	10	1682077	168207.700	8.02
0A08041-CAL6	25	4392393	175695.700	8.02
0A08041-CAL7	50	8716356	174327.100	8.02
0A08041-CAL8	100	1.77532E+07	177532.000	8.02
0A08041-CAL9	200	3.466444E+07	173322.200	8.01

AVE RF **172653.600** RF RSD **2.18** AVE RT **8.02**

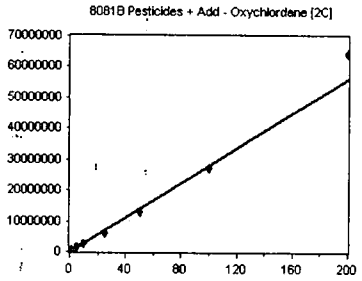
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Oxychlordane [2C]

Curve Fit: **AVERAGE RF**

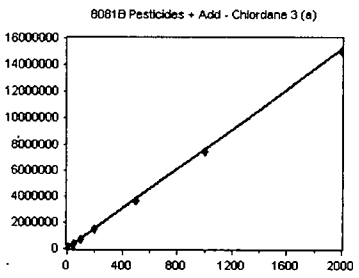


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	156922	313844.000	8.07
0A08041-CALB	1	298417	298417.000	8.07
0A08041-CALC	2	529184	264592.000	8.07
0A08041-CALD	5	1413459	282691.800	8.07
0A08041-CALE	10	2670941	267094.100	8.07
0A08041-CALF	25	6058612	242344.500	8.07
0A08041-CALG	50	1.280108E+07	256021.600	8.07
0A08041-CALH	100	2.714008E+07	271400.800	8.07
0A08041-CALI	200	6.416695E+07	320834.800	8.07

AVE RF **279693.400** RF RSD **9.48** AVE RT **8.07**

Chlordane 3 (a)

Curve Fit: **AVERAGE RF**

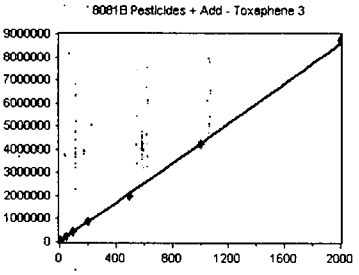


Standard	Concentration	Response	Response Factor	RT
0A08041-CALJ	10	86683	8668.300	8.08
0A08041-CALK	50	377844	7556.880	8.08
0A08041-CALL	100	729916	7299.160	8.08
0A08041-CALM	200	1505062	7525.310	8.08
0A08041-CALN	500	3625557	7251.114	8.08
0A08041-CALO	1000	7448098	7448.098	8.08
0A08041-CALP	2000	1.500854E+07	7504.270	8.08

AVE RF **7607.590** RF RSD **6.33** AVE RT **8.08**

Toxaphene 3

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

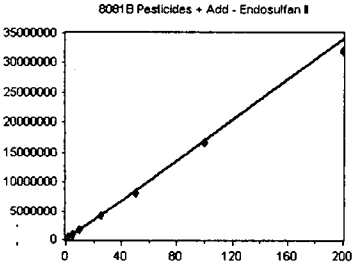


Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	58763	5876.300	8.12
0A08041-CALR	50	237969	4759.380	8.12
0A08041-CALS	100	433935	4339.350	8.12
0A08041-CALT	200	864754	4323.770	8.12
0A08041-CALU	500	1995985	3991.970	8.12
0A08041-CALV	1000	4209954	4209.954	8.12
0A08041-CALW	2000	8745207	4372.604	8.12

AVE RF **4553.333** RF RSD **13.76** AVE RT **8.12**

Endosulfan II

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	99640	199280.000	8.13
0A08041-CAL2	1	182518	182518.000	8.13
0A08041-CAL3	2	347787	173893.500	8.13
0A08041-CAL4	5	804988	160997.600	8.13
0A08041-CAL5	10	1622090	162209.000	8.13
0A08041-CAL6	25	4183901	167356.000	8.13
0A08041-CAL7	50	8170502	163410.000	8.13
0A08041-CAL8	100	1.657103E+07	165710.300	8.12
0A08041-CAL9	200	3.203793E+07	160189.700	8.12

AVE RF **170618.200** RF RSD **7.56** AVE RT **8.13**

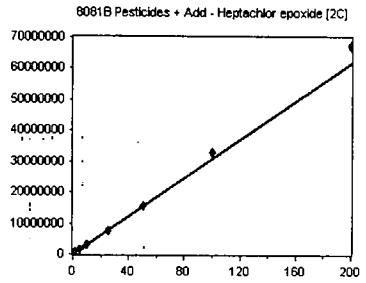
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Heptachlor epoxide [2C]

Curve Fit: **AVERAGE RF**

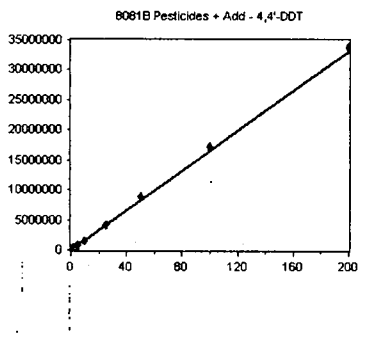


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	158898	317796.000	8.14
0A08041-CAL2	1	296140	296140.000	8.14
0A08041-CAL3	2	586030	293015.000	8.14
0A08041-CAL4	5	1479273	295854.600	8.14
0A08041-CAL5	10	2879584	287958.400	8.14
0A08041-CAL6	25	7570159	302806.400	8.14
0A08041-CAL7	50	1.566857E+07	313371.400	8.14
0A08041-CAL8	100	3.290561E+07	329056.100	8.14
0A08041-CAL9	200	6.72669E+07	336334.500	8.14

AVE RF **308036.900** RF RSD **5.52** AVE RT **8.14**

4,4'-DDT

Curve Fit: **AVERAGE RF**

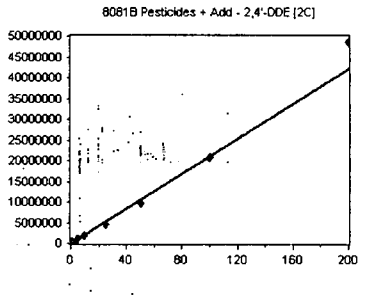


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	84911	169822.000	8.22
0A08041-CAL2	1	163203	163203.000	8.22
0A08041-CAL3	2	319688	159844.000	8.22
0A08041-CAL4	5	789969	157993.800	8.22
0A08041-CAL5	10	1545752	154575.200	8.21
0A08041-CAL6	25	4195442	167817.700	8.22
0A08041-CAL7	50	8824873	176497.500	8.22
0A08041-CAL8	100	1.723039E+07	172303.900	8.21
0A08041-CAL9	200	3.37797E+07	168898.500	8.21

AVE RF **165661.700** RF RSD **4.35** AVE RT **8.21**

2,4'-DDE [2C]

Curve Fit: **AVERAGE RF**

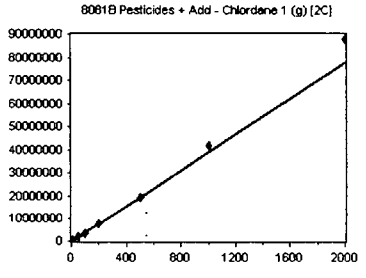


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	115006	230012.000	8.27
0A08041-CALB	1	220925	220925.000	8.27
0A08041-CALC	2	399650	199825.000	8.27
0A08041-CALD	5	1064459	212891.800	8.27
0A08041-CALE	10	2004027	200402.700	8.27
0A08041-CALF	25	4686277	187451.100	8.27
0A08041-CALG	50	9671234	193424.700	8.27
0A08041-CALH	100	2.076304E+07	207630.400	8.27
0A08041-CALI	200	4.855114E+07	242755.700	8.27

AVE RF **210590.900** RF RSD **8.53** AVE RT **8.27**

Chlordane 1 (g) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CALJ	10	382772	38277.200	8.28
0A08041-CALK	50	1787106	35742.120	8.28
0A08041-CALL	100	3516336	35163.360	8.28
0A08041-CALM	200	7736201	38681.000	8.28
0A08041-CALN	500	1.923403E+07	38468.060	8.28
0A08041-CALO	1000	4.181503E+07	41815.030	8.28
0A08041-CALP	2000	8.826362E+07	44131.810	8.29

AVE RF **38896.940** RF RSD **8.16** AVE RT **8.28**

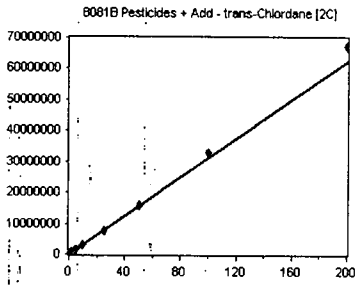
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

trans-Chlordane [2C]

Curve Fit: **AVERAGE RF**

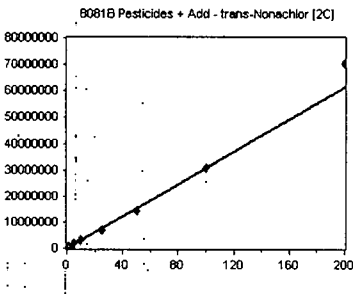


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	169582	339164.000	8.28
0A08041-CAL2	1	302694	302694.000	8.29
0A08041-CAL3	2	579921	289960.500	8.28
0A08041-CAL4	5	1455802	291160.400	8.28
0A08041-CAL5	10	2933717	293371.700	8.28
0A08041-CAL6	25	7709066	308362.600	8.28
0A08041-CAL7	50	1.582814E+07	316562.800	8.28
0A08041-CAL8	100	3.278841E+07	327884.100	8.28
0A08041-CAL9	200	6.746357E+07	337317.800	8.28

AVE RF **311830.900** RF RSD **6.23** AVE RT **8.28**

trans-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

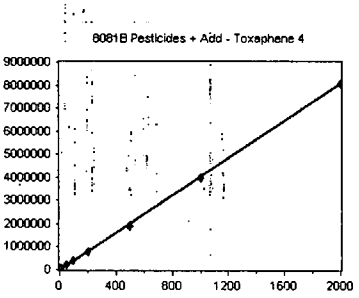


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	167484	334968.000	8.35
0A08041-CALB	1	328300	328300.000	8.35
0A08041-CALC	2	574207	287103.500	8.35
0A08041-CALD	5	1536268	307253.600	8.35
0A08041-CALE	10	2924036	292403.600	8.34
0A08041-CALF	25	6806494	272259.800	8.34
0A08041-CALG	50	1.423711E+07	284742.200	8.34
0A08041-CALH	100	3.073836E+07	307383.600	8.35
0A08041-CALI	200	7.05968E+07	352984.000	8.35

AVE RF **307488.700** RF RSD **8.65** AVE RT **8.34**

Toxaphene 4

Curve Fit: **AVERAGE RF**

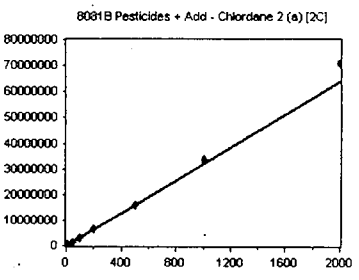


Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	44260	4426.000	8.36
0A08041-CALR	50	207485	4149.700	8.36
0A08041-CALS	100	392871	3928.710	8.36
0A08041-CALT	200	791104	3955.520	8.36
0A08041-CALU	500	1900476	3800.952	8.36
0A08041-CALV	1000	3974783	3974.783	8.36
0A08041-CALW	2000	8089085	4044.542	8.36

AVE RF **4040.030** RF RSD **4.97** AVE RT **8.36**

Chlordane 2 (a) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CALJ	10	324236	32423.600	8.39
0A08041-CALK	50	1486141	29722.820	8.39
0A08041-CALL	100	2986956	29869.560	8.39
0A08041-CALM	200	6344746	31723.730	8.39
0A08041-CALN	500	1.581953E+07	31639.060	8.39
0A08041-CALO	1000	3.382648E+07	33826.480	8.39
0A08041-CALP	2000	7.096038E+07	35480.190	8.39

AVE RF **32097.920** RF RSD **6.42** AVE RT **8.39**

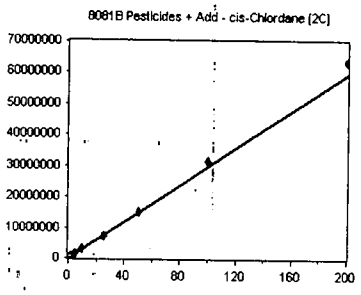
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

cis-Chlordane [2C]

Curve Fit: **AVERAGE RF**

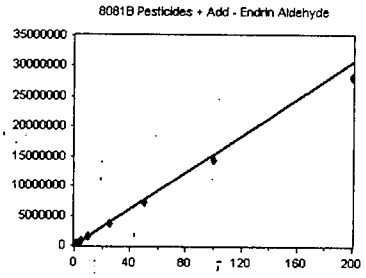


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	150400	300800.000	8.39
0A08041-CAL2	1	292944	292944.000	8.39
0A08041-CAL3	2	574813	287406.500	8.39
0A08041-CAL4	5	1373040	274608.000	8.39
0A08041-CAL5	10	2847805	284780.500	8.39
0A08041-CAL6	25	7320817	292832.700	8.39
0A08041-CAL7	50	1.522267E+07	304453.400	8.39
0A08041-CAL8	100	3.132551E+07	313255.100	8.39
0A08041-CAL9	200	6.374887E+07	318744.400	8.39

AVE RF **296647.200** RF RSD **4.74** AVE RT **8.39**

Endrin Aldehyde

Curve Fit: **AVERAGE RF**

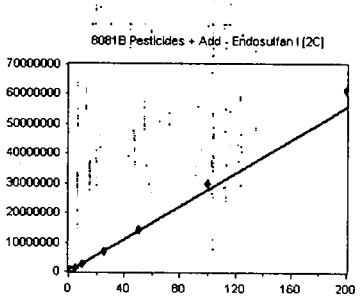


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	87242	174484.000	8.42
0A08041-CAL2	1	168637	168637.000	8.42
0A08041-CAL3	2	322362	161181.000	8.42
0A08041-CAL4	5	766938	153387.600	8.42
0A08041-CAL5	10	1482366	148236.600	8.42
0A08041-CAL6	25	3592714	143708.600	8.42
0A08041-CAL7	50	7206121	144122.400	8.42
0A08041-CAL8	100	1.432283E+07	143228.300	8.41
0A08041-CAL9	200	2.820526E+07	141026.300	8.41

AVE RF **153112.400** RF RSD **8.00** AVE RT **8.42**

Endosulfan I [2C]

Curve Fit: **AVERAGE RF**

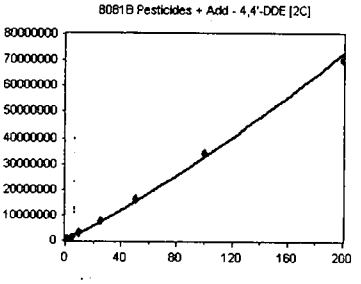


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	140878	281756.000	8.44
0A08041-CAL2	1	271809	271809.000	8.45
0A08041-CAL3	2	526399	263199.500	8.44
0A08041-CAL4	5	1296862	259372.400	8.44
0A08041-CAL5	10	2609537	260953.700	8.44
0A08041-CAL6	25	6856889	274275.600	8.44
0A08041-CAL7	50	1.424768E+07	284953.600	8.44
0A08041-CAL8	100	2.983737E+07	298373.700	8.44
0A08041-CAL9	200	6.125123E+07	306256.200	8.44

AVE RF **277883.300** RF RSD **5.95** AVE RT **8.44**

4,4'-DDE [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	139141	278282.000	8.49
0A08041-CAL2	1	277811	277811.000	8.49
0A08041-CAL3	2	541435	270717.500	8.49
0A08041-CAL4	5	1423065	284613.000	8.49
0A08041-CAL5	10	2826462	282646.200	8.49
0A08041-CAL6	25	7706129	308245.200	8.49
0A08041-CAL7	50	1.6343E+07	326860.000	8.49
0A08041-CAL8	100	3.424016E+07	342401.600	8.49
0A08041-CAL9	200	7.013343E+07	350667.200	8.49

AVE RF **302471.500** RF RSD **10.10** AVE RT **8.49**

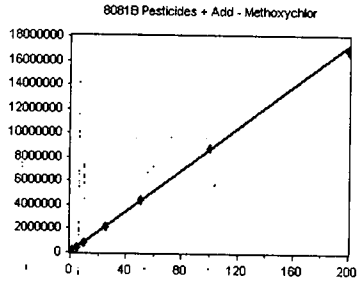
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Methoxychlor

Curve Fit: **AVERAGE RF**

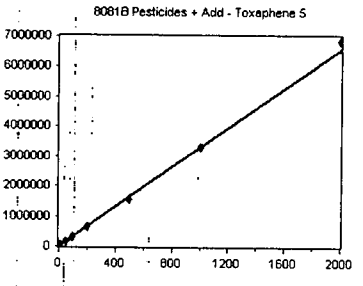


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	48528	97056.000	8.55
0A08041-CAL2	1	89885	89885.000	8.55
0A08041-CAL3	2	177451	88725.500	8.55
0A08041-CAL4	5	413384	82676.800	8.55
0A08041-CAL5	10	785011	78501.100	8.55
0A08041-CAL6	25	2096804	83872.160	8.55
0A08041-CAL7	50	4344332	86886.640	8.55
0A08041-CAL8	100	8765747	87657.470	8.55
0A08041-CAL9	200	1.684284E+07	84214.200	8.55

AVE RF **86608.320** RF RSD **6.05** AVE RT **8.55**

Toxaphene 5

Curve Fit: **AVERAGE RF**

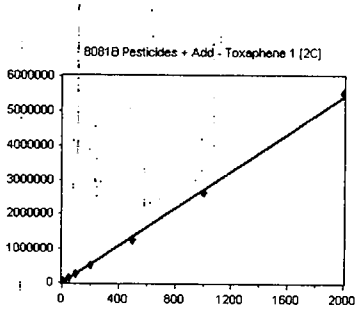


Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	33626	3362.600	8.59
0A08041-CALR	50	169348	3386.960	8.59
0A08041-CALS	100	321308	3213.080	8.59
0A08041-CALT	200	655616	3278.080	8.59
0A08041-CALU	500	1539706	3079.412	8.59
0A08041-CALV	1000	3276318	3276.318	8.59
0A08041-CALW	2000	6836043	3418.021	8.59

AVE RF **3287.782** RF RSD **3.55** AVE RT **8.59**

Toxaphene 1 [2C]

Curve Fit: **AVERAGE RF**

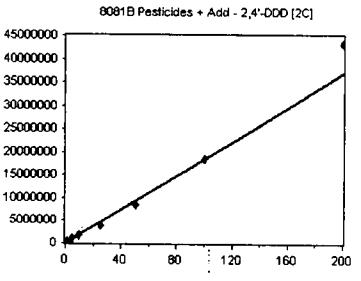


Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	29639	2963.900	8.62
0A08041-CALR	50	140732	2814.640	8.62
0A08041-CALS	100	261214	2612.140	8.62
0A08041-CALT	200	527041	2635.205	8.62
0A08041-CALU	500	1253802	2507.604	8.62
0A08041-CALV	1000	2637347	2637.347	8.62
0A08041-CALW	2000	5518631	2759.315	8.62

AVE RF **2704.307** RF RSD **5.63** AVE RT **8.62**

2,4'-DDD [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	101849	203698.000	8.64
0A08041-CALB	1	193608	193608.000	8.64
0A08041-CALC	2	345575	172787.500	8.64
0A08041-CALD	5	924181	184836.200	8.64
0A08041-CALE	10	1737598	173759.800	8.64
0A08041-CALF	25	4001030	160041.200	8.64
0A08041-CALG	50	8525916	170518.300	8.64
0A08041-CALH	100	1.843792E+07	184379.200	8.64
0A08041-CALI	200	4.326622E+07	216331.100	8.64

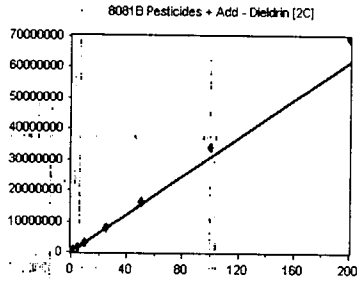
AVE RF **184439.900** RF RSD **9.61** AVE RT **8.64**

Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Dieldrin [2C]

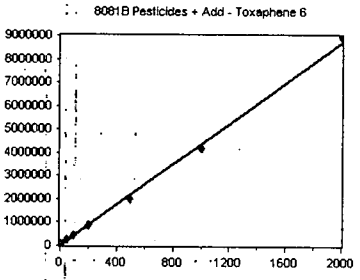


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	147653	295306.000	8.64
0A08041-CAL2	1	291554	291554.000	8.65
0A08041-CAL3	2	580943	290471.500	8.64
0A08041-CAL4	5	1422623	284524.600	8.64
0A08041-CAL5	10	2906015	290601.500	8.64
0A08041-CAL6	25	7861083	314443.300	8.65
0A08041-CAL7	50	1.621846E+07	324369.200	8.65
0A08041-CAL8	100	3.406723E+07	340672.300	8.64
0A08041-CAL9	200	6.968513E+07	348425.600	8.64

AVE RF **308929.800** RF RSD **7.76** AVE RT **8.64**

Toxaphene 6

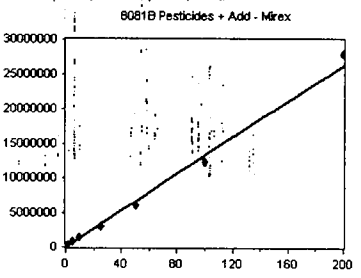


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	47173	4717.300	8.65
0A08041-CALR	50	225107	4502.140	8.65
0A08041-CALS	100	426816	4268.160	8.65
0A08041-CALT	200	851655	4258.275	8.65
0A08041-CALU	500	1981771	3963.542	8.65
0A08041-CALV	1000	4202272	4202.272	8.65
0A08041-CALW	2000	8969660	4484.830	8.65

AVE RF **4342.360** RF RSD **5.66** AVE RT **8.65**

Mirex

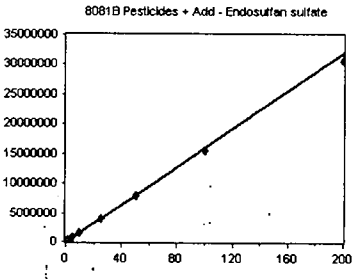


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	96444	192888.000	8.67
0A08041-CALB	1	181371	181371.000	8.67
0A08041-CALC	2	308615	154307.500	8.67
0A08041-CALD	5	779540	155908.000	8.67
0A08041-CALE	10	1404908	140490.800	8.67
0A08041-CALF	25	3051838	122073.500	8.67
0A08041-CALG	50	6228349	124567.000	8.66
0A08041-CALH	100	1.240228E+07	124022.800	8.67
0A08041-CALI	200	2.785054E+07	139252.700	8.66

AVE RF **148320.100** RF RSD **17.12** AVE RT **8.67**

Endosulfan sulfate



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	88205	176410.000	8.72
0A08041-CAL2	1	168846	168846.000	8.72
0A08041-CAL3	2	330471	165235.500	8.72
0A08041-CAL4	5	770166	154033.200	8.72
0A08041-CAL5	10	1505195	150519.500	8.72
0A08041-CAL6	25	3934236	157369.400	8.72
0A08041-CAL7	50	7989432	159788.600	8.72
0A08041-CAL8	100	1.55178E+07	155178.000	8.72
0A08041-CAL9	200	3.058988E+07	152949.400	8.72

AVE RF **160036.600** RF RSD **5.32** AVE RT **8.72**

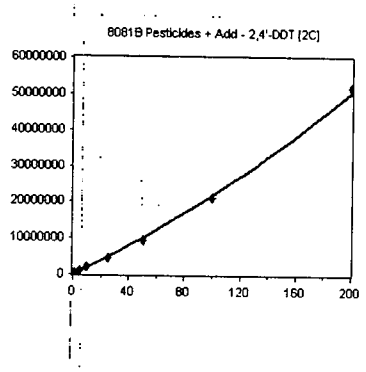
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

2,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

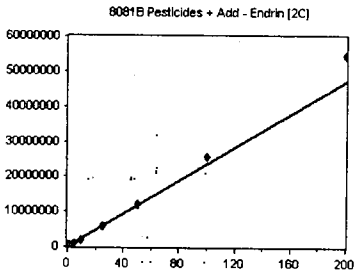


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	108578	217156.000	8.87
0A08041-CALB	1	215626	215626.000	8.87
0A08041-CALC	2	367900	183950.000	8.87
0A08041-CALD	5	1030344	206068.800	8.87
0A08041-CALE	10	1992196	199219.600	8.87
0A08041-CALF	25	4507962	180318.500	8.87
0A08041-CALG	50	9539513	190790.300	8.87
0A08041-CALH	100	2.121051E+07	212105.100	8.87
0A08041-CALI	200	5.180249E+07	259012.400	8.87

AVE RF **207138.500** RF RSD **11.42** AVE RT **8.87**

Endrin [2C]

Curve Fit: **AVERAGE RF**

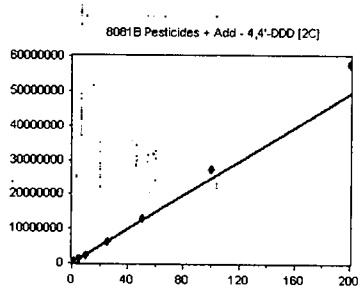


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	120788	241576.000	8.87
0A08041-CAL2	1	230377	230377.000	8.88
0A08041-CAL3	2	456874	228437.000	8.87
0A08041-CAL4	5	1044563	208912.600	8.87
0A08041-CAL5	10	2003395	200339.500	8.87
0A08041-CAL6	25	5981930	239277.200	8.87
0A08041-CAL7	50	1.189736E+07	237947.200	8.88
0A08041-CAL8	100	2.551129E+07	255112.900	8.87
0A08041-CAL9	200	5.454211E+07	272710.600	8.87

AVE RF **234965.600** RF RSD **9.33** AVE RT **8.87**

4,4'-DDD [2C]

Curve Fit: **AVERAGE RF**

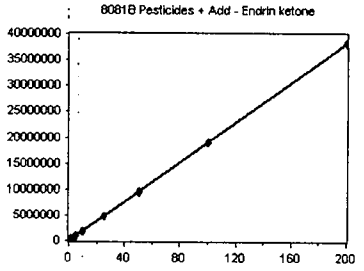


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	113285	226570.000	8.91
0A08041-CAL2	1	228024	228024.000	8.91
0A08041-CAL3	2	453406	226703.000	8.91
0A08041-CAL4	5	1143673	228734.600	8.91
0A08041-CAL5	10	2301063	230106.300	8.91
0A08041-CAL6	25	6163457	246538.300	8.91
0A08041-CAL7	50	1.310563E+07	262112.600	8.91
0A08041-CAL8	100	2.740475E+07	274047.500	8.91
0A08041-CAL9	200	5.788464E+07	289423.200	8.91

AVE RF **245806.600** RF RSD **9.71** AVE RT **8.91**

Endrin ketone

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	99629	199258.000	8.91
0A08041-CAL2	1	194086	194086.000	8.91
0A08041-CAL3	2	383553	191776.500	8.91
0A08041-CAL4	5	939876	187975.200	8.91
0A08041-CAL5	10	1825019	182501.900	8.91
0A08041-CAL6	25	4735111	189404.400	8.91
0A08041-CAL7	50	9580043	191600.900	8.91
0A08041-CAL8	100	1.910356E+07	191035.600	8.91
0A08041-CAL9	200	3.821815E+07	191090.800	8.91

AVE RF **190969.900** RF RSD **2.36** AVE RT **8.91**

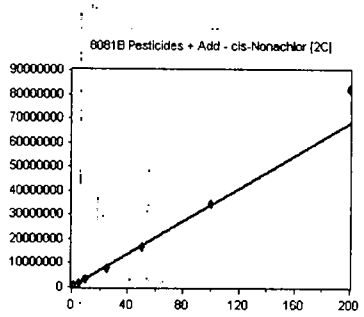
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

cis-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

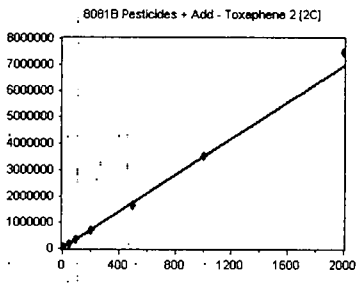


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	177850	355700.000	8.91
0A08041-CALB	1	344851	344851.000	8.91
0A08041-CALC	2	627227	313613.500	8.91
0A08041-CALD	5	1678168	335633.600	8.91
0A08041-CALE	10	3312382	331238.200	8.91
0A08041-CALF	25	7616878	304675.100	8.91
0A08041-CALG	50	1.648161E+07	329632.200	8.91
0A08041-CALH	100	3.438324E+07	343832.400	8.91
0A08041-CALI	200	8.221611E+07	411080.600	8.91

AVE RF **341139.600** RF RSD **8.96** AVE RT **8.91**

Toxaphene 2 [2C]

Curve Fit: **AVERAGE RF**

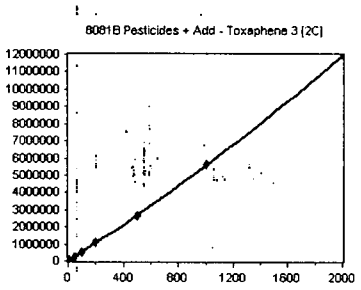


Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	37237	3723.700	8.97
0A08041-CALR	50	174093	3481.860	8.97
0A08041-CALS	100	329715	3297.150	8.97
0A08041-CALT	200	671993	3359.965	8.97
0A08041-CALU	500	1627963	3255.926	8.97
0A08041-CALV	1000	3517411	3517.411	8.97
0A08041-CALW	2000	7483834	3741.917	8.97

AVE RF **3482.561** RF RSD **5.59** AVE RT **8.97**

Toxaphene 3 [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

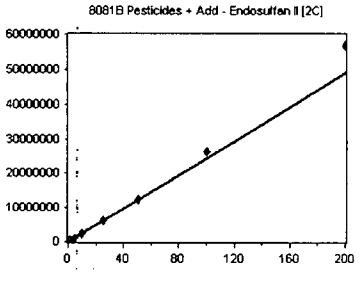


Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	70419	7041.900	9.00
0A08041-CALR	50	285157	5703.140	9.01
0A08041-CALS	100	528362	5283.620	9.01
0A08041-CALT	200	1076876	5384.380	9.01
0A08041-CALU	500	2635386	5270.772	9.01
0A08041-CALV	1000	5617496	5617.496	9.01
0A08041-CALW	2000	1.197311E+07	5986.555	9.01

AVE RF **5755.409** RF RSD **10.82** AVE RT **9.01**

Endosulfan II [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	122597	245194.000	9.02
0A08041-CAL2	1	234291	234291.000	9.02
0A08041-CAL3	2	461782	230891.000	9.02
0A08041-CAL4	5	1119541	223908.200	9.02
0A08041-CAL5	10	2276288	227628.800	9.02
0A08041-CAL6	25	6151164	246046.600	9.02
0A08041-CAL7	50	1.220787E+07	244157.400	9.02
0A08041-CAL8	100	2.628592E+07	262859.200	9.02
0A08041-CAL9	200	5.674212E+07	283710.600	9.02

AVE RF **244298.500** RF RSD **7.76** AVE RT **9.02**

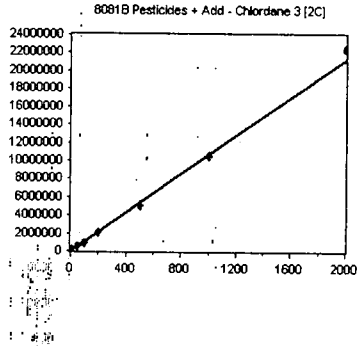
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Chlordane 3 [2C]

Curve Fit: **AVERAGE RF**

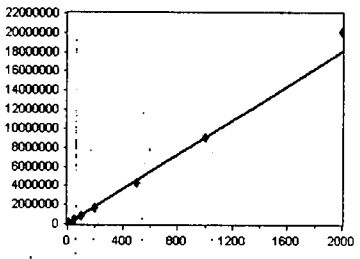


Standard	Concentration	Response	Response Factor	RT
0A08041-CALJ	10	125739	12573.900	9.06
0A08041-CALK	50	498592	9971.840	9.06
0A08041-CALL	100	972427	9724.270	9.06
0A08041-CALM	200	2047397	10236.990	9.06
0A08041-CALN	500	5010516	10021.030	9.06
0A08041-CALO	1000	1.056913E+07	10569.130	9.06
0A08041-CALP	2000	2.245395E+07	11226.970	9.06

AVE RF **10617.730** RF RSD **9.35** AVE RT **9.06**

Toxaphene 4 [2C]

Curve Fit: **AVERAGE RF**

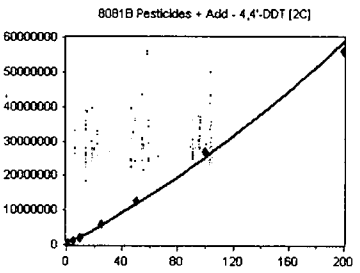


Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	99104	9910.400	9.07
0A08041-CALR	50	435032	8700.640	9.07
0A08041-CALS	100	848142	8481.420	9.07
0A08041-CALT	200	1691190	8455.950	9.07
0A08041-CALU	500	4280691	8561.382	9.07
0A08041-CALV	1000	9024517	9024.517	9.07
0A08041-CALW	2000	2.009073E+07	10045.370	9.07

AVE RF **9025.668** RF RSD **7.52** AVE RT **9.07**

4,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

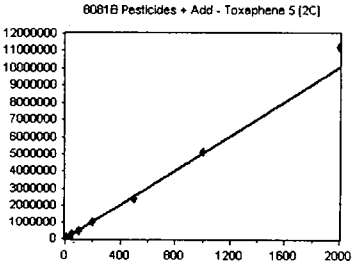


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	103096	206192.000	9.14
0A08041-CAL2	1	203174	203174.000	9.14
0A08041-CAL3	2	408673	204336.500	9.14
0A08041-CAL4	5	1027268	205453.600	9.14
0A08041-CAL5	10	2023340	202334.000	9.14
0A08041-CAL6	25	5749572	229982.900	9.14
0A08041-CAL7	50	1.257699E+07	251539.800	9.14
0A08041-CAL8	100	2.704597E+07	270459.700	9.14
0A08041-CAL9	200	5.616077E+07	280803.800	9.14

AVE RF **228252.900** RF RSD **13.83** AVE RT **9.14**

Toxaphene 5 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	51910	5191.000	9.25
0A08041-CALR	50	244237	4884.740	9.25
0A08041-CALS	100	465078	4650.780	9.25
0A08041-CALT	200	985020	4925.100	9.25
0A08041-CALU	500	2386520	4773.040	9.25
0A08041-CALV	1000	5120001	5120.001	9.25
0A08041-CALW	2000	1.121801E+07	5609.005	9.25

AVE RF **5021.952** RF RSD **6.35** AVE RT **9.25**

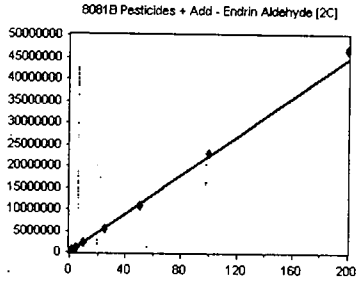
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Endrin Aldehyde [2C]

Curve Fit: **AVERAGE RF**

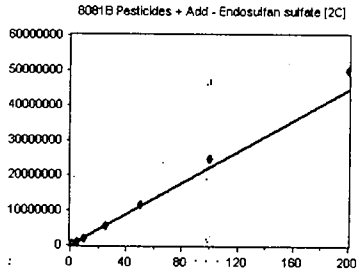


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	118008	236016.000	9.26
0A08041-CAL2	1	234689	234689.000	9.26
0A08041-CAL3	2	453653	226826.500	9.26
0A08041-CAL4	5	1047866	209573.200	9.26
0A08041-CAL5	10	2117172	211717.200	9.26
0A08041-CAL6	25	5279915	211196.600	9.26
0A08041-CAL7	50	1.091033E+07	218206.600	9.26
0A08041-CAL8	100	2.308823E+07	230882.300	9.26
0A08041-CAL9	200	4.666444E+07	233322.200	9.26

AVE RF **223603.300** RF RSD **4.89** AVE RT **9.26**

Endosulfan sulfate [2C]

Curve Fit: **AVERAGE RF**

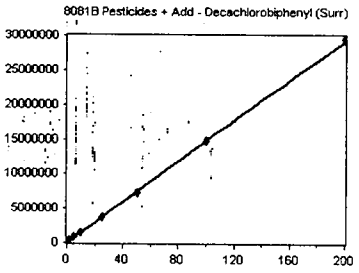


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	112283	224566.000	9.45
0A08041-CAL2	1	210935	210935.000	9.45
0A08041-CAL3	2	410957	205478.500	9.45
0A08041-CAL4	5	1024703	204940.600	9.45
0A08041-CAL5	10	2032510	203251.000	9.45
0A08041-CAL6	25	5454073	218162.900	9.45
0A08041-CAL7	50	1.159902E+07	231980.400	9.45
0A08041-CAL8	100	2.453126E+07	245312.600	9.45
0A08041-CAL9	200	5.008053E+07	250402.600	9.45

AVE RF **221670.000** RF RSD **7.99** AVE RT **9.45**

Decachlorobiphenyl (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

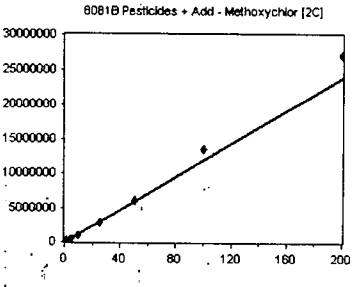


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	96104	192208.000	9.61
0A08041-CAL2	1	176609	176609.000	9.61
0A08041-CAL3	2	340423	170211.500	9.61
0A08041-CAL4	5	775613	155122.600	9.61
0A08041-CAL5	10	1477683	147768.300	9.61
0A08041-CAL6	25	3649221	145968.800	9.61
0A08041-CAL7	50	7324286	146485.700	9.61
0A08041-CAL8	100	1.473636E+07	147363.600	9.61
0A08041-CAL9	200	2.95221E+07	147610.500	9.61

AVE RF **158816.500** RF RSD **10.61** AVE RT **9.61**

Methoxychlor [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	60619	121238.000	9.62
0A08041-CAL2	1	117569	117569.000	9.62
0A08041-CAL3	2	224516	112258.000	9.62
0A08041-CAL4	5	532720	106544.000	9.62
0A08041-CAL5	10	1038753	103875.300	9.61
0A08041-CAL6	25	2923508	116940.300	9.62
0A08041-CAL7	50	6115403	122308.100	9.62
0A08041-CAL8	100	1.340149E+07	134014.900	9.62
0A08041-CAL9	200	2.712554E+07	135627.700	9.61

AVE RF **118930.600** RF RSD **9.18** AVE RT **9.62**

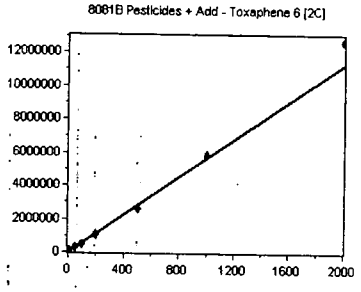
Element Calibration Review Sheet

Calibration ID: **A0A0906** Instrument: **DUALECD5** Calibration Date: **01/09/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD5_QUANTPEST_20010**

Toxaphene 6 [2C]

Curve Fit: **AVERAGE RF**

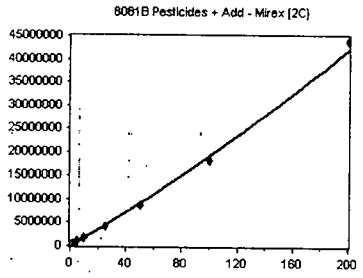


Standard	Concentration	Response	Response Factor	RT
0A08041-CALQ	10	57037	5703.700	9.63
0A08041-CALR	50	279398	5587.960	9.63
0A08041-CALS	100	522567	5225.670	9.63
0A08041-CALT	200	1071997	5359.985	9.63
0A08041-CALU	500	2631287	5262.574	9.63
0A08041-CALV	1000	5832985	5832.985	9.63
0A08041-CALW	2000	1.26526E+07	6326.300	9.63

AVE RF **5614.168** RF RSD **6.91** AVE RT **9.63**

Mirex [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

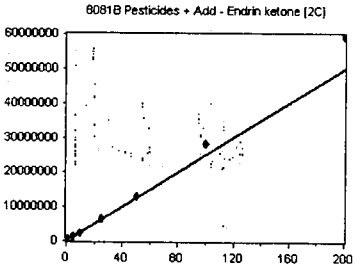


Standard	Concentration	Response	Response Factor	RT
0A08041-CALA	0.5	127755	255510.000	9.85
0A08041-CALB	1	237397	237397.000	9.85
0A08041-CALC	2	390163	195081.500	9.85
0A08041-CALD	5	1002877	200575.400	9.85
0A08041-CALE	10	1814573	181457.300	9.85
0A08041-CALF	25	4062388	162495.500	9.85
0A08041-CALG	50	8711340	174226.800	9.85
0A08041-CALH	100	1.814861E+07	181486.100	9.85
0A08041-CALI	200	4.392362E+07	219618.100	9.85

AVE RF **200872.000** RF RSD **15.38** AVE RT **9.85**

Endrin ketone [2C]

Curve Fit: **AVERAGE RF**

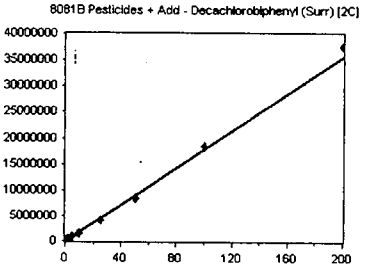


Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	120422	240844.000	9.85
0A08041-CAL2	1	227922	227922.000	9.86
0A08041-CAL3	2	459705	229852.500	9.86
0A08041-CAL4	5	1162953	232590.600	9.85
0A08041-CAL5	10	2330210	233021.000	9.85
0A08041-CAL6	25	6356172	254246.900	9.85
0A08041-CAL7	50	1.290512E+07	258102.400	9.86
0A08041-CAL8	100	2.805764E+07	280576.400	9.85
0A08041-CAL9	200	5.934686E+07	296734.300	9.85

AVE RF **250432.200** RF RSD **9.75** AVE RT **9.85**

Decachlorobiphenyl (Surr) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A08041-CAL1	0.5	101208	202416.000	10.74
0A08041-CAL2	1	194428	194428.000	10.74
0A08041-CAL3	2	355105	177552.500	10.74
0A08041-CAL4	5	834483	166896.600	10.74
0A08041-CAL5	10	1586829	158682.900	10.74
0A08041-CAL6	25	4087662	163506.500	10.74
0A08041-CAL7	50	8356479	167129.600	10.74
0A08041-CAL8	100	1.832586E+07	183258.600	10.74
0A08041-CAL9	200	3.753051E+07	187652.600	10.74

AVE RF **177947.000** RF RSD **8.46** AVE RT **10.74**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A08041

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
8081B Pesticides
8081B 2,4+4,4-DDx Only (+Add)
8081B Chlordane
8081B DDT Only
8081B Pesticides + Add
8081B RSET FW Sed (+Add) (2016)
8081B RSET Sediment List (+Add)
8081B RSET Sediment Marine (2016) (+Add)
8081B Toxaphene

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A08041

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
0A08041-ICB1	Initial Cal Blank	Water	A19L339		1/8/2020 2:26:00PM
0A08041-CAL1	Cal Standard	Water	A20A094	"	1/8/2020 2:50:00PM
0A08041-CAL2	Cal Standard	Water	A20A095	"	1/8/2020 3:07:00PM
0A08041-CAL3	Cal Standard	Water	A19K128	"	1/8/2020 3:24:00PM
0A08041-CAL4	Cal Standard	Water	A19K130	"	1/8/2020 3:41:00PM
0A08041-CAL5	Cal Standard	Water	A19K131	"	1/8/2020 3:58:00PM
0A08041-CAL6	Cal Standard	Water	A19K132	"	1/8/2020 4:16:00PM
0A08041-CAL7	Cal Standard	Water	A19K133	"	1/8/2020 4:33:00PM
0A08041-CAL8	Cal Standard	Water	A19K134	"	1/8/2020 4:50:00PM
0A08041-CAL9	Cal Standard	Water	A19K126	"	1/8/2020 5:07:00PM
0A08041-ICV1	Initial Cal Check	Water	A19I209	"	1/8/2020 5:42:00PM
0A08041-CALA	Cal Standard	Water	A20A096	"	1/8/2020 5:59:00PM
0A08041-CALB	Cal Standard	Water	A19K263	"	1/8/2020 6:16:00PM
0A08041-CALC	Cal Standard	Water	A19K264	"	1/8/2020 6:33:00PM
0A08041-CALD	Cal Standard	Water	A19K265	"	1/8/2020 6:51:00PM
0A08041-CALE	Cal Standard	Water	A19K266	"	1/8/2020 7:08:00PM
0A08041-CALF	Cal Standard	Water	A19J407	"	1/8/2020 7:25:00PM
0A08041-CALG	Cal Standard	Water	A19J408	"	1/8/2020 7:42:00PM
0A08041-CALH	Cal Standard	Water	A19J409	"	1/8/2020 7:59:00PM
0A08041-CALI	Cal Standard	Water	A19K262	"	1/8/2020 8:16:00PM
0A08041-ICV2	Initial Cal Check	Water	A19J410	"	1/8/2020 8:50:00PM
0A08041-CALJ	Cal Standard	Water	A20A097	"	1/8/2020 9:07:00PM
0A08041-CALK	Cal Standard	Water	A19K307	"	1/8/2020 9:25:00PM
0A08041-CALL	Cal Standard	Water	A19K308	"	1/8/2020 9:42:00PM
0A08041-CALM	Cal Standard	Water	A19K309	"	1/8/2020 9:59:00PM
0A08041-CALN	Cal Standard	Water	A19K310	"	1/8/2020 10:16:00PM
0A08041-CALO	Cal Standard	Water	A19K311	"	1/8/2020 10:33:00PM
0A08041-CALP	Cal Standard	Water	A19K306	"	1/8/2020 10:50:00PM
0A08041-ICV3	Initial Cal Check	Water	A19K312	"	1/8/2020 11:24:00PM
0A08041-CALQ	Cal Standard	Water	A20A098	"	1/8/2020 11:41:00PM
0A08041-CALR	Cal Standard	Water	A19J417	"	1/8/2020 11:58:00PM
0A08041-CALS	Cal Standard	Water	A19J418	"	1/9/2020 12:15:00AM
0A08041-CALT	Cal Standard	Water	A19J419	"	1/9/2020 12:32:00AM
0A08041-CALU	Cal Standard	Water	A19J420	"	1/9/2020 12:50:00AM
0A08041-CALV	Cal Standard	Water	A19J421	"	1/9/2020 1:07:00AM
0A08041-CALW	Cal Standard	Water	A19J416	"	1/9/2020 1:24:00AM
0A08041-ICV4	Initial Cal Check	Water	A19J422	"	1/9/2020 1:58:00AM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0A0906** Instrument: **DualECD5F**

1311/8081B TCLP Pest Reg L Sequence: **0A08041** Matrix: **Water**

0A08041-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A08041

0A08041-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALF	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALG	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALH	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALI	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALJ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALK	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALL	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALM	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALN	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALO	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALP	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALQ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALR	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALS	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALT	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALU	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALV	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0A08041-CALW	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A08041

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: **A0A0906** Instrument: **DualECD5F**

608 Pesticides Sequence: **0A08041** Matrix: **Water**

0A08041-ICV1	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0A08041-ICV2	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0A08041-ICV3	**Inst. MRL**	**ICV Level**	**Result**	**%Rec.**	**Qual**
0A08041-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.

Compound List Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_200107.M
Title : Instrument: DualECD5
Last Update : Thu Jan 09 11:11:29 2020
Response Via : Initial Calibration

Total Cpnds : 85

MUB 1/9/20

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	5.404	1.000	A	H	R
2		a-BHC	5.944	1.000	A	H	R
3		g-BHC	6.226	1.000	A	H	R
4		b-BHC	6.302	1.000	Q	H	R
5		Heptachlor	6.640	1.000	A	H	R
6		d-BHC	6.451	1.000	A	H	R
7		Aldrin	6.882	1.000	A	H	R
8		Heptachlor Expoxide	7.342	1.000	A	H	R
9		trans-Chlordane	7.438	1.000	A	H	R
10		cis-Chlordane	7.535	1.000	A	H	R
11		Endosulfan I	7.631	1.000	A	H	R
12		4,4'-DDE	7.595	1.000	A	H	R
13		Dieldrin	7.804	1.000	A	H	R
14		Endrin	7.969	1.000	A	H	R
15		4,4'-DDD	8.016	1.000	A	H	R
16		Endosulfan II	8.126	1.000	A	H	R
17		4,4'-DDT	8.215	1.000	A	H	R
18		Endrin Aldehyde	8.416	1.000	A	H	R
19		Endosulfan Sulfate	8.718	1.000	A	H	R
20		Methoxychlor	8.552	1.000	A	H	R
21		Endrin Ketone	8.911	1.000	A	H	R
22	S	DCBP (S)	9.610	1.000	Q	H	R
23		Hexachlorobutadiene	3.205	1.000	A	H	R
24		Hexachlorobenzene	5.782	1.000	Q	H	R
25		Oxychlordane	7.268	1.000	Q	H	R
26		2,4'-DDE	7.342	1.000	A	H	R
27		trans-Nonachlor	7.524	1.000	Q	H	R
28		2,4'-DDD	7.715	1.000	A	H	R
29		2,4'-DDT	7.898	1.000	A	H	R
30		cis-Nonachlor	7.996	1.000	A	H	R
31		Mirex	8.664	1.000	Q	H	R
32		Chlordane (1)	7.437	1.000	A	H	R
33		Chlordane (2)	7.530	1.000	A	H	R
34		Chlordane (3)	8.080	1.000	A	H	R
35		Chlordane - AVE	3.816	1.000	A	H	R
36		Toxaphene (1)	7.511	1.000	A	H	R
37		Toxaphene (2)	7.804	1.000	A	H	R
38		Toxaphene (3)	8.116	1.000	Q	H	R
39		Toxaphene (4)	8.358	1.000	A	H	R
40		Toxaphene (5)	8.586	1.000	A	H	R
41		Toxaphene (6)	8.653	1.000	A	H	R
42		Toxaphene - AVE	3.810	1.000	A	H	R
43		Signal #2	3.940	1.000	A	H	R
44	S	TCMX (S) #2	6.128	1.000	A	H	R
45		a-BHC #2	6.736	1.000	A	H	R
46		g-BHC #2	7.055	1.000	A	H	R
47		b-BHC #2	7.116	1.000	A	H	R
48		Heptachlor #2	7.436	1.000	A	H	R
49		d-BHC #2	7.374	1.000	Q	H	R
50		Aldrin #2	7.705	1.000	A	H	R
51		Heptachlor Expoxide #2	8.143	1.000	A	H	R
52		trans-Chlordane #2	8.284	1.000	A	H	R
53		cis-Chlordane #2	8.392	1.000	A	H	R
54		Endosulfan I #2	8.444	1.000	A	H	R
55		4,4'-DDE #2	8.492	1.000	Q	H	R
56		Dieldrin #2	8.646	1.000	A	H	R

57		Endrin #2	8.875	1.000	A	H	R
58		4,4'-DDD #2	8.909	1.000	A	H	R
59		Endosulfan II #2	9.022	1.000	A	H	R
60		4,4'-DDT #2	9.139	1.000	Q	H	R
61		Endrin Aldehyde #2	9.258	1.000	A	H	R
62		Endosulfan Sulfate #2	9.449	1.000	A	H	R
63		Methoxychlor #2	9.616	1.000	A	H	R
64		Endrin Ketone #2	9.855	1.000	A	H	R
65	S	DCBP (S) #2	10.743	1.000	A	H	R
66		Hexachlorobutadiene #2	3.813	1.000	A	H	R
67		Hexachlorobenzene #2	6.594	1.000	A	H	R
68		Oxychlordane #2	8.069	1.000	A	H	R
69		2,4'-DDE #2	8.268	1.000	A	H	R
70		trans-Nonachlor #2	8.344	1.000	A	H	R
71		2,4'-DDD #2	8.643	1.000	A	H	R
72		2,4'-DDT #2	8.869	1.000	Q	H	R
73		cis-Nonachlor #2	8.913	1.000	A	H	R
74		Mirex #2	9.849	1.000	Q	H	R
75		Chlordane (1) #2	8.282	1.000	A	H	R
76		Chlordane (2) #2	8.389	1.000	A	H	R
77		Chlordane (3) #2	9.058	1.000	A	H	R
78		Chlordane - AVE #2	3.797	1.000	A	H	R
79		Toxaphene (1) #2	8.619	1.000	A	H	R
80		Toxaphene (2) #2	8.969	1.000	A	H	R
81		Toxaphene (3) #2	9.005	1.000	Q	H	R
82		Toxaphene (4) #2	9.072	1.000	A	H	R
83		Toxaphene (5) #2	9.249	1.000	A	H	R
84		Toxaphene (6) #2	9.634	1.000	A	H	R
85		Toxaphene - AVE #2	3.803	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

ECD5_QUANTPEST_200107.M Thu Jan 09 14:30:03 2020

Response Factor Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_200107.M
Title : Instrument: DualECD5
Last Update : Thu Jan 09 11:11:29 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD5-01082042.D 2 =ECD5-01082043.D 3 =ECD5-01082044.D
4 =ECD5-01082045.D 5 =ECD5-01082046.D 6 =ECD5-01082047.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	S	TCMX (S)	2.257	2.113	2.078	1.900	1.840	1.858	1.953	E5	8.04
2)		a-BHC	2.665	2.570	2.687	2.613	2.578	2.683	2.632	E5	1.90
3)		g-BHC	2.406	2.344	2.358	2.333	2.269	2.305	2.335	E5	1.83
4)		b-BHC	1.300	1.143	1.104	1.020	0.961	0.965	1.044	E5	11.29
5)		Heptachlor	2.444	2.339	2.285	2.326	2.147	2.174	2.272	E5	4.07
6)		d-BHC	2.223	2.084	2.163	2.127	2.077	2.189	2.178	E5	3.34
7)		Aldrin	2.261	2.240	2.200	2.223	2.163	2.255	2.206	E5	2.14
8)		Heptachlor Ex...	2.244	2.183	2.135	2.071	1.957	2.047	2.062	E5	5.18
9)		trans-Chlordane	2.255	2.184	2.126	2.088	2.032	2.081	2.107	E5	3.49
10)		cis-Chlordane	2.253	2.126	2.112	2.017	1.994	2.013	2.046	E5	4.85
11)		Endosulfan I	2.092	2.085	2.004	1.918	1.890	1.909	1.938	E5	5.13
12)		4,4'-DDE	2.060	2.016	2.059	2.081	2.021	2.085	2.062	E5	1.66
13)		Dieldrin	2.237	2.181	2.173	2.140	2.097	2.170	2.154	E5	2.14
14)		Endrin	1.878	1.889	1.834	1.616	1.560	1.742	1.730	E5	6.68
15)		4,4'-DDD	1.728	1.706	1.754	1.659	1.682	1.757	1.727	E5	2.18
16)		Endosulfan II	1.993	1.825	1.739	1.610	1.622	1.674	1.706	E5	7.56
17)		4,4'-DDT	1.698	1.632	1.598	1.580	1.546	1.678	1.657	E5	4.35
18)		Endrin Aldehyde	1.745	1.686	1.612	1.534	1.482	1.437	1.531	E5	8.00
19)		Endosulfan Su...	1.764	1.688	1.652	1.540	1.505	1.574	1.600	E5	5.32
20)		Methoxychlor	9.706	8.989	8.873	8.268	7.850	8.387	8.661	E4	6.05
21)		Endrin Ketone	1.993	1.941	1.918	1.880	1.825	1.894	1.910	E5	2.36
22)	S	DCBP (S)	1.922	1.766	1.702	1.551	1.478	1.460	1.588	E5	10.61
23)		Hexachlorobut...	2.229	2.336	1.996	2.091	1.946	1.839	1.994	E5	9.81
24)		Hexachloroben...	2.454	2.335	2.093	2.137	2.009	1.797	2.056	E5	11.05
25)		Oxychlordane	2.377	2.239	1.884	1.986	1.829	1.640	1.905	E5	13.61
26)		2,4'-DDE	1.635	1.611	1.432	1.501	1.426	1.260	1.426	E5	9.81
27)		trans-Nonachlor	2.535	2.408	2.124	2.205	2.076	1.843	2.124	E5	10.91
28)		2,4'-DDD	1.437	1.433	1.293	1.309	1.263	1.110	1.272	E5	8.99
29)		2,4'-DDT	1.667	1.624	1.447	1.539	1.485	1.249	1.465	E5	9.83
30)		cis-Nonachlor	2.685	2.637	2.357	2.494	2.325	2.092	2.357	E5	9.09
31)		Mirex	1.929	1.814	1.543	1.559	1.405	1.221	1.483	E5	17.12
32)		Chlordane (1)	2.521	2.357	2.295	2.397	2.241	2.331	2.346	E4	3.95
33)		Chlordane (2)	3.082	2.886	2.780	2.901	2.782	2.873	2.882	E4	3.50
34)		Chlordane (3)	8.668	7.557	7.299	7.525	7.251	7.448	7.608	E3	6.33
35)		Chlordane - AVE							0.000		-1.00
36)		Toxaphene (1)	1.216	1.097	1.047	1.034	0.958	0.998	1.053	E3	7.94
37)		Toxaphene (2)	2.137	2.130	1.972	1.910	1.767	1.834	1.945	E3	7.38
38)		Toxaphene (3)	5.876	4.759	4.339	4.324	3.992	4.210	4.553	E3	13.76
39)		Toxaphene (4)	4.426	4.150	3.929	3.956	3.801	3.975	4.040	E3	4.97
40)		Toxaphene (5)	3.363	3.387	3.213	3.278	3.079	3.276	3.288	E3	3.55
41)		Toxaphene (6)	4.717	4.502	4.268	4.258	3.964	4.202	4.342	E3	5.66
42)		Toxaphene - AVE							0.000		-1.00

MJB 1/9/20

Signal #2 Calibration Files
1 =ECD5-01082042.D 2 =ECD5-01082043.D 3 =ECD5-01082044.D
4 =ECD5-01082045.D 5 =ECD5-01082046.D 6 =ECD5-01082047.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	S	TCMX (S)	3.164	3.112	2.945	2.752	2.696	2.899	2.981	E5	5.87
2)		a-BHC	3.718	3.792	3.836	3.954	3.956	4.166	4.130	E5	8.94
3)		g-BHC	3.509	3.434	3.386	3.446	3.502	3.644	3.651	E5	7.15
4)		b-BHC	1.850	1.730	1.604	1.566	1.481	1.494	1.609	E5	7.18
5)		Heptachlor	3.669	3.373	3.277	3.322	3.263	3.491	3.545	E5	7.28
6)		d-BHC	3.079	3.102	3.018	3.232	3.263	3.650	3.449	E5	11.30
7)		Aldrin	3.224	3.145	3.146	3.160	3.173	3.345	3.331	E5	6.39
8)		Heptachlor Ex...	3.178	2.961	2.930	2.959	2.880	3.028	3.080	E5	5.52
9)		trans-Chlordane	3.392	3.027	2.900	2.912	2.934	3.084	3.118	E5	6.23
10)		cis-Chlordane	3.008	2.929	2.874	2.746	2.848	2.928	2.966	E5	4.74
11)		Endosulfan I	2.818	2.718	2.632	2.594	2.610	2.743	2.779	E5	5.95

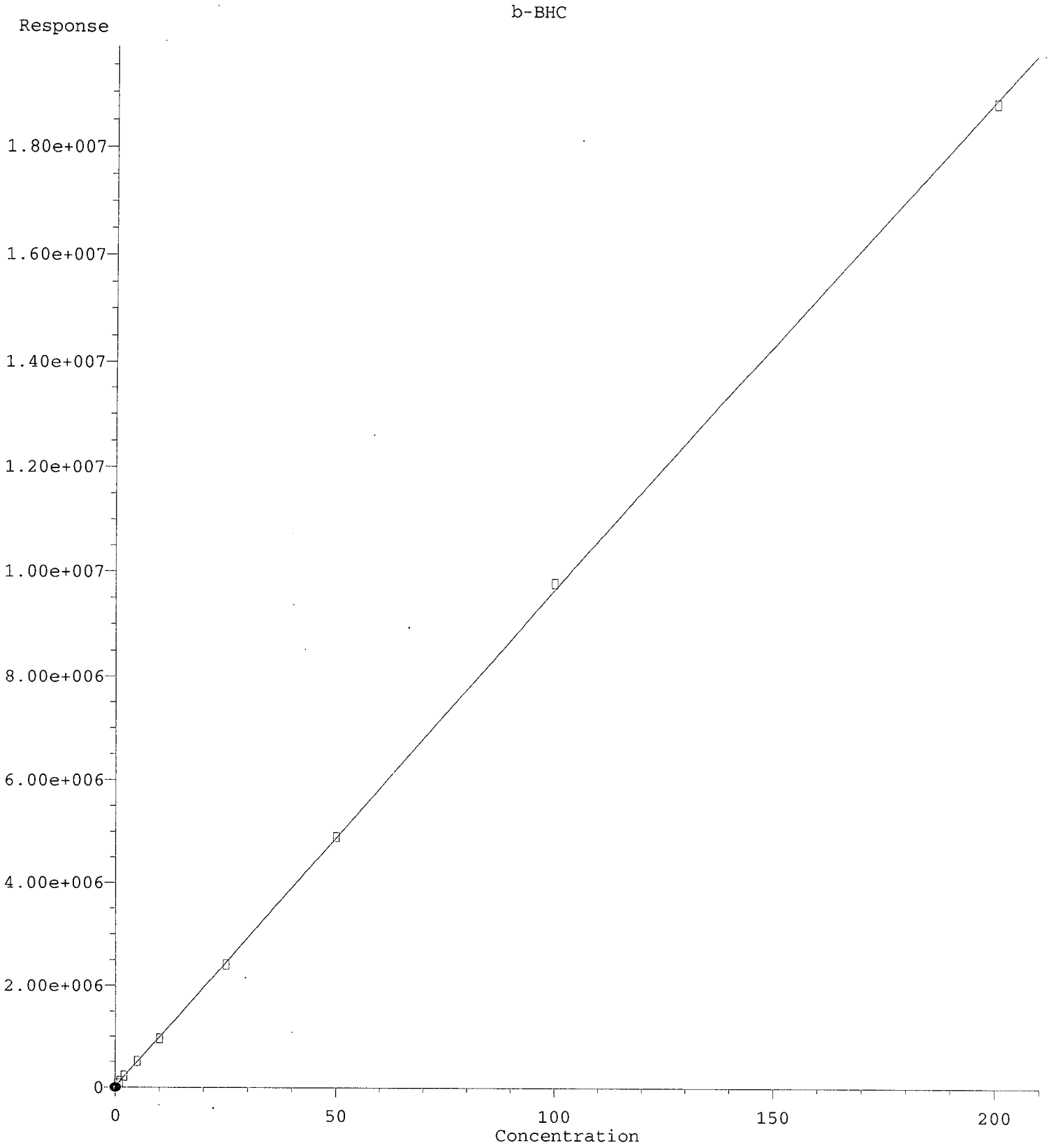
Response Factor Report DUALECD5

Method Path : R:\methods\
Method File : ECD5_QUANTPEST_200107.M
Title : Instrument: DualECD5
Last Update : Thu Jan 09 11:11:29 2020
Response Via : Initial Calibration

Calibration Files
1 =ECD5-01082042.D 2 =ECD5-01082043.D 3 =ECD5-01082044.D
4 =ECD5-01082045.D 5 =ECD5-01082046.D 6 =ECD5-01082047.D

		Compound	1	2	3	4	5	6	Avg		%RSD
12)		4,4'-DDE	2.783	2.778	2.707	2.846	2.826	3.082	3.025	E5	10.10
13)		Dieldrin	2.953	2.916	2.905	2.845	2.906	3.144	3.089	E5	7.76
14)		Endrin	2.416	2.304	2.284	2.089	2.003	2.393	2.350	E5	9.33
15)		4,4'-DDD	2.266	2.280	2.267	2.287	2.301	2.465	2.458	E5	9.71
16)		Endosulfan II	2.452	2.343	2.309	2.239	2.276	2.460	2.443	E5	7.76
17)		4,4'-DDT	2.062	2.032	2.043	2.055	2.023	2.300	2.283	E5	13.83
18)		Endrin Aldehyde	2.360	2.347	2.268	2.096	2.117	2.112	2.236	E5	4.89
19)		Endosulfan Su...	2.246	2.109	2.055	2.049	2.033	2.182	2.217	E5	7.99
20)		Methoxychlor	1.212	1.176	1.123	1.065	1.039	1.169	1.189	E5	9.18
21)		Endrin Ketone	2.408	2.279	2.299	2.326	2.330	2.542	2.504	E5	9.75
22)	S	DCBP (S)	2.024	1.944	1.776	1.669	1.587	1.635	1.779	E5	8.46
23)		Hexachlorobut...	4.223	4.334	3.846	4.059	3.803	3.725	4.007	E5	6.84
24)		Hexachloroben...	3.515	3.465	3.042	3.184	3.000	2.838	3.201	E5	8.50
25)		Oxychlordane	3.138	2.984	2.646	2.827	2.671	2.423	2.797	E5	9.48
26)		2,4'-DDE	2.300	2.209	1.998	2.129	2.004	1.875	2.106	E5	8.53
27)		trans-Nonachlor	3.350	3.283	2.871	3.073	2.924	2.723	3.075	E5	8.65
28)		2,4'-DDD	2.037	1.936	1.728	1.848	1.738	1.600	1.844	E5	9.61
29)		2,4'-DDT	2.172	2.156	1.839	2.061	1.992	1.803	2.071	E5	11.42
30)		cis-Nonachlor	3.557	3.449	3.136	3.356	3.312	3.047	3.411	E5	8.96
31)		Mirex	2.555	2.374	1.951	2.006	1.815	1.625	2.009	E5	15.38
32)		Chlordane (1)	3.828	3.574	3.516	3.868	3.847	4.182	3.890	E4	8.16
33)		Chlordane (2)	3.242	2.972	2.987	3.172	3.164	3.383	3.210	E4	6.42
34)		Chlordane (3)	1.257	0.997	0.972	1.024	1.002	1.057	1.062	E4	9.35
35)		Chlordane - AVE							0.000		-1.00
36)		Toxaphene (1)	2.964	2.815	2.612	2.635	2.508	2.637	2.704	E3	5.63
37)		Toxaphene (2)	3.724	3.482	3.297	3.360	3.256	3.517	3.483	E3	5.59
38)		Toxaphene (3)	7.042	5.703	5.284	5.384	5.271	5.617	5.755	E3	10.82
39)		Toxaphene (4)	0.991	0.870	0.848	0.846	0.856	0.902	0.903	E4	7.52
40)		Toxaphene (5)	5.191	4.885	4.651	4.925	4.773	5.120	5.022	E3	6.35
41)		Toxaphene (6)	5.704	5.588	5.226	5.360	5.263	5.833	5.614	E3	6.91
42)		Toxaphene - AVE							0.000		-1.00

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

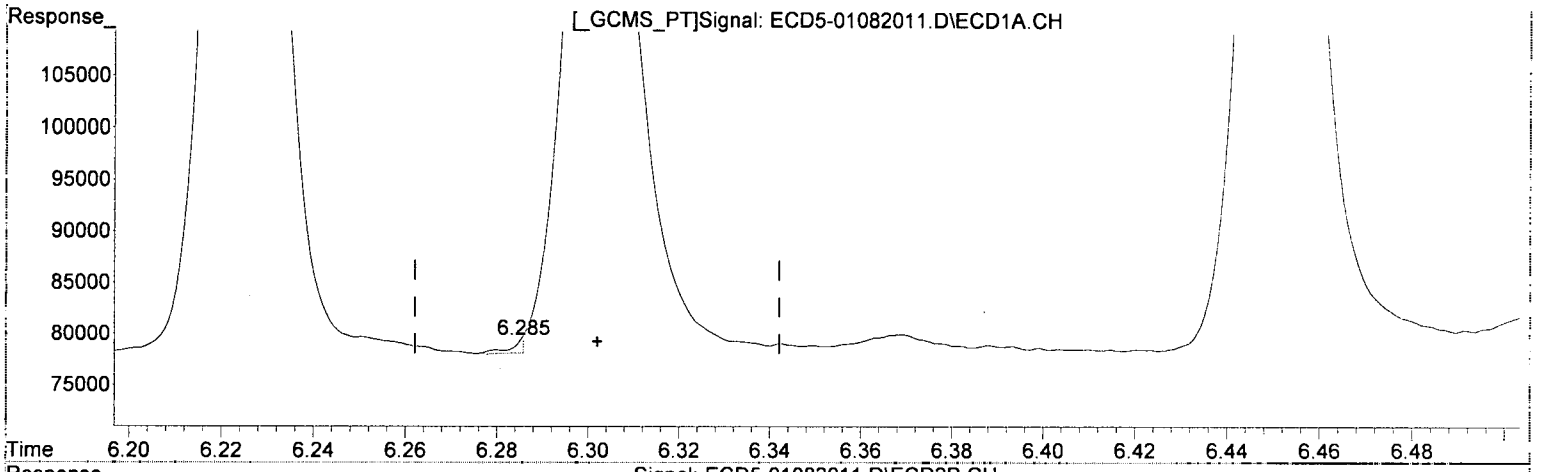


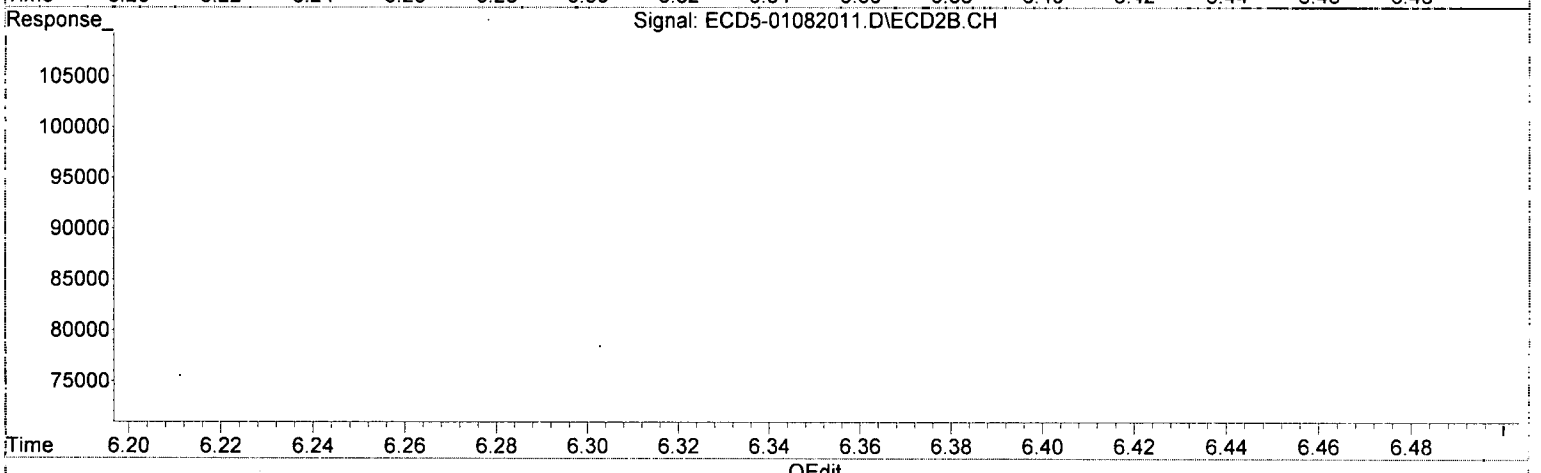
R = -1.65e+001 A*A + 9.80e+004 A + 1.64e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_200107.M
Calibration Table Last Updated: Wed Jan 08 17:29:24 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:50
Operator : MJB
Sample : 0A08041-CAL1
Misc : A20A094, AB 0.5 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: Jan 08 17:31:47 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:25:24 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(4) b-BHC

6.285min 5931.989 ng/mL (m)

response 1246

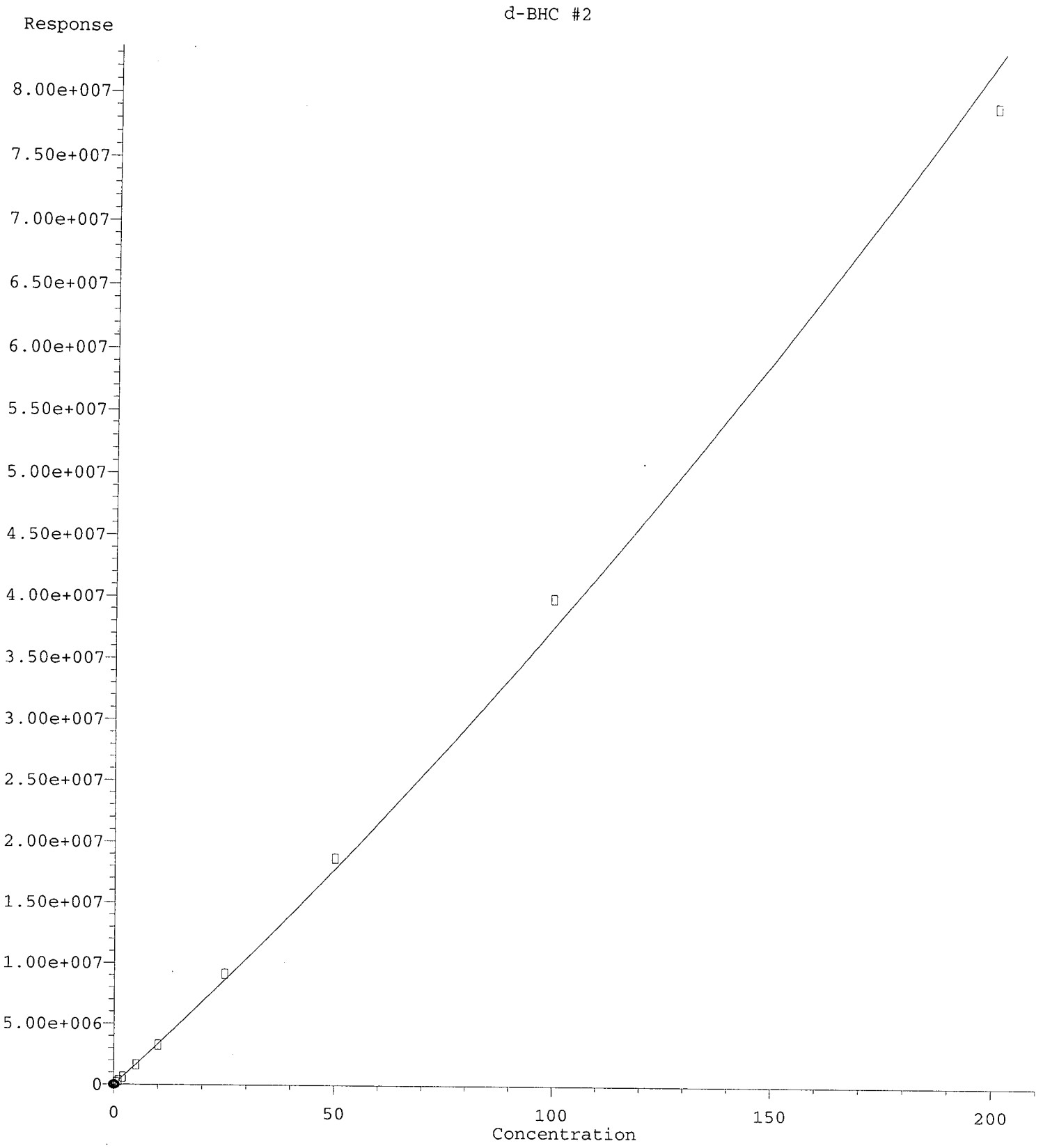
Q-tot

(4) b-BHC #2

7.113min 0.575 ng/mL

response 92509

(+) = Expected Retention Time

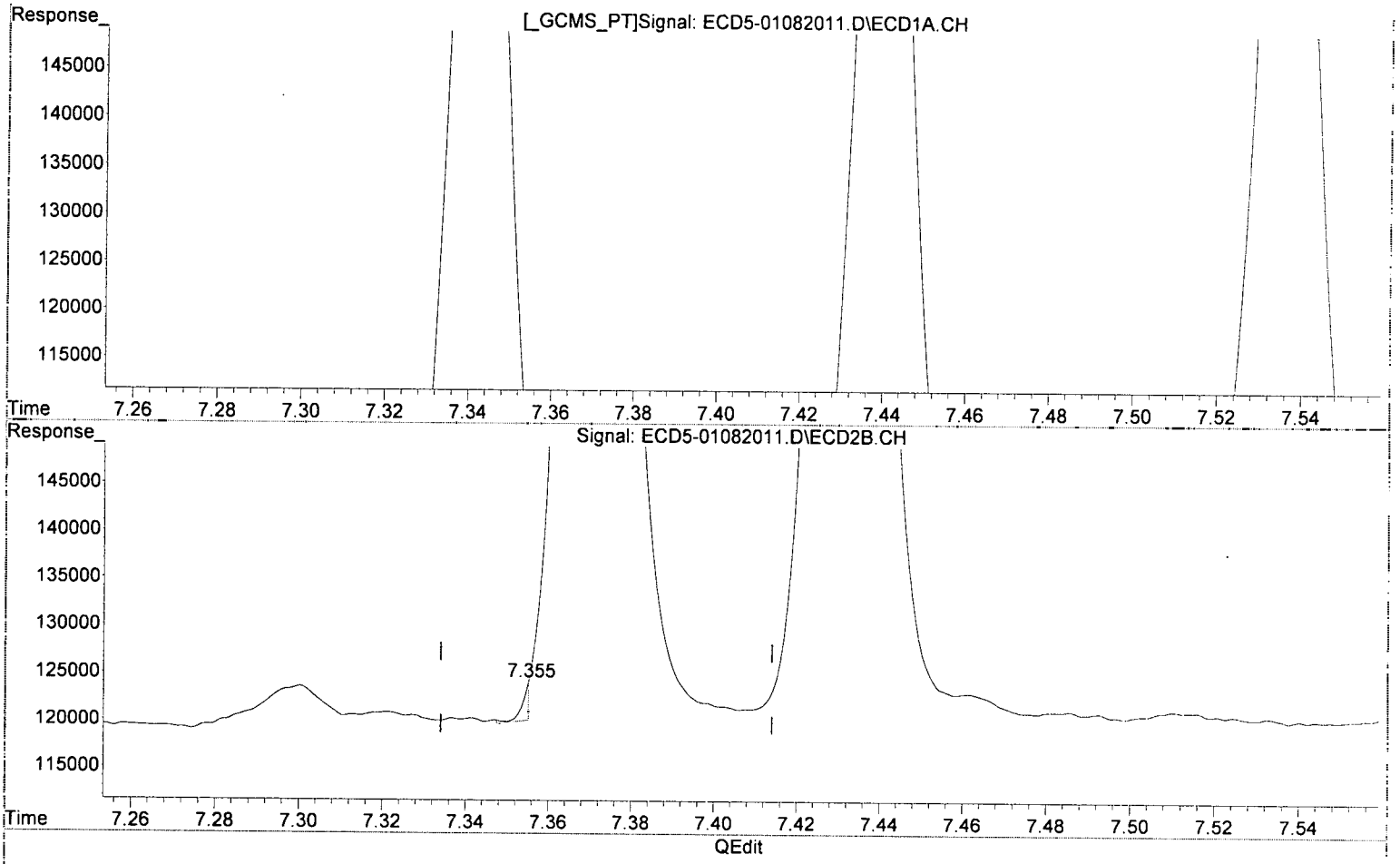


R = 3.98e+002 A*A + 3.36e+005 A - 1.94e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTTEST_200107.M
Calibration Table Last Updated: Wed Jan 08 17:29:24 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:50
Operator : MJB
Sample : 0A08041-CAL1
Misc : A20A094, AB 0.5 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: Jan 08 17:31:47 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:25:24 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(6) d-BHC

6.451min 0.510 ng/mL

response 111153

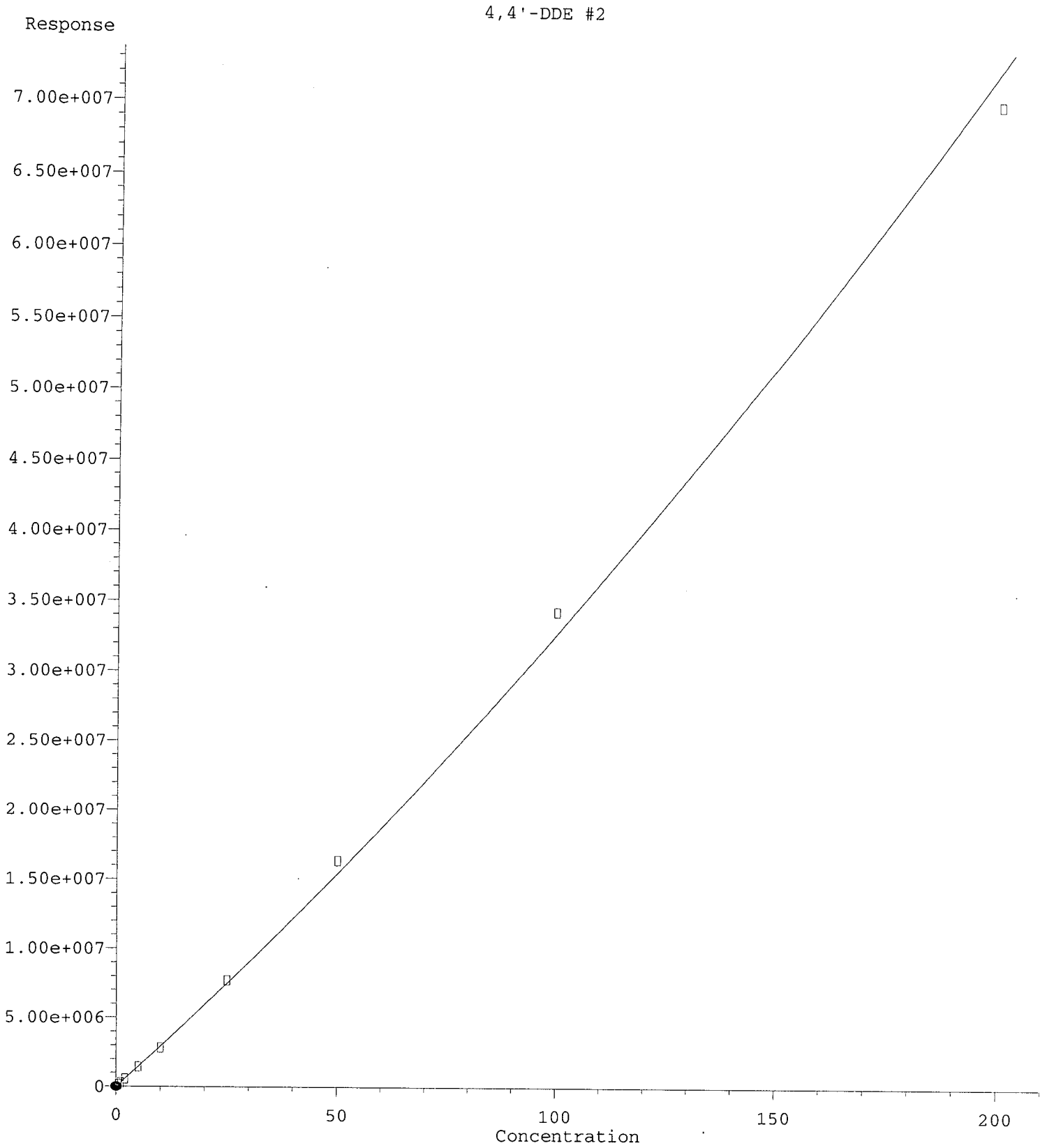
MJB 1/8/20

(6) d-BHC #2

7.355min 0.070 ng/mL (m)

response 4087

(+) = Expected Retention Time

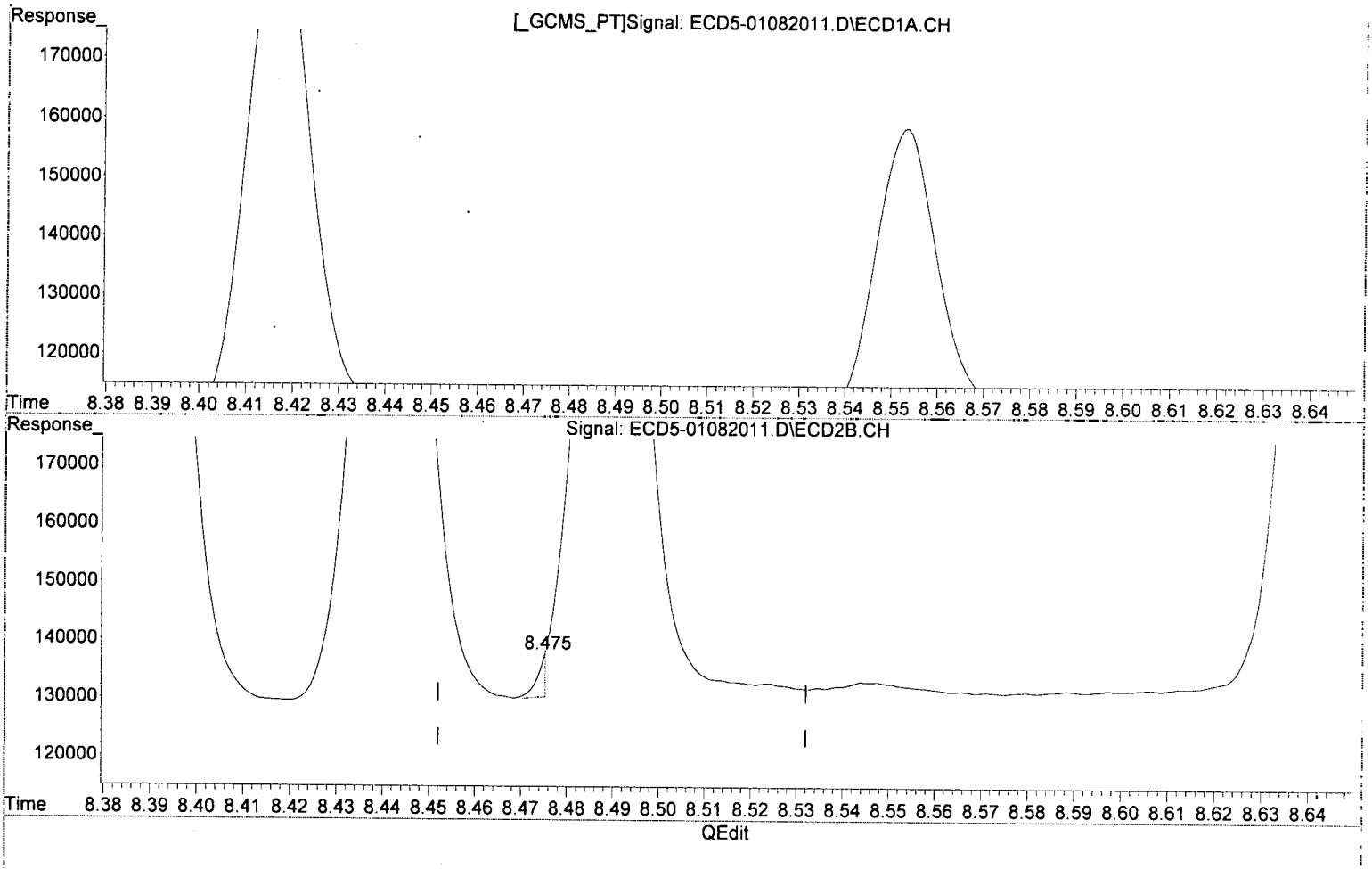


R = 3.62e+002 A*A + 2.91e+005 A - 9.63e+003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_200107.M
Calibration Table Last Updated: Wed Jan 08 17:29:24 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:50
Operator : MJB
Sample : 0A08041-CAL1
Misc : A20A094, AB 0.5 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: Jan 08 17:31:47 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:25:24 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.596min 0.500 ng/mL

response 102992

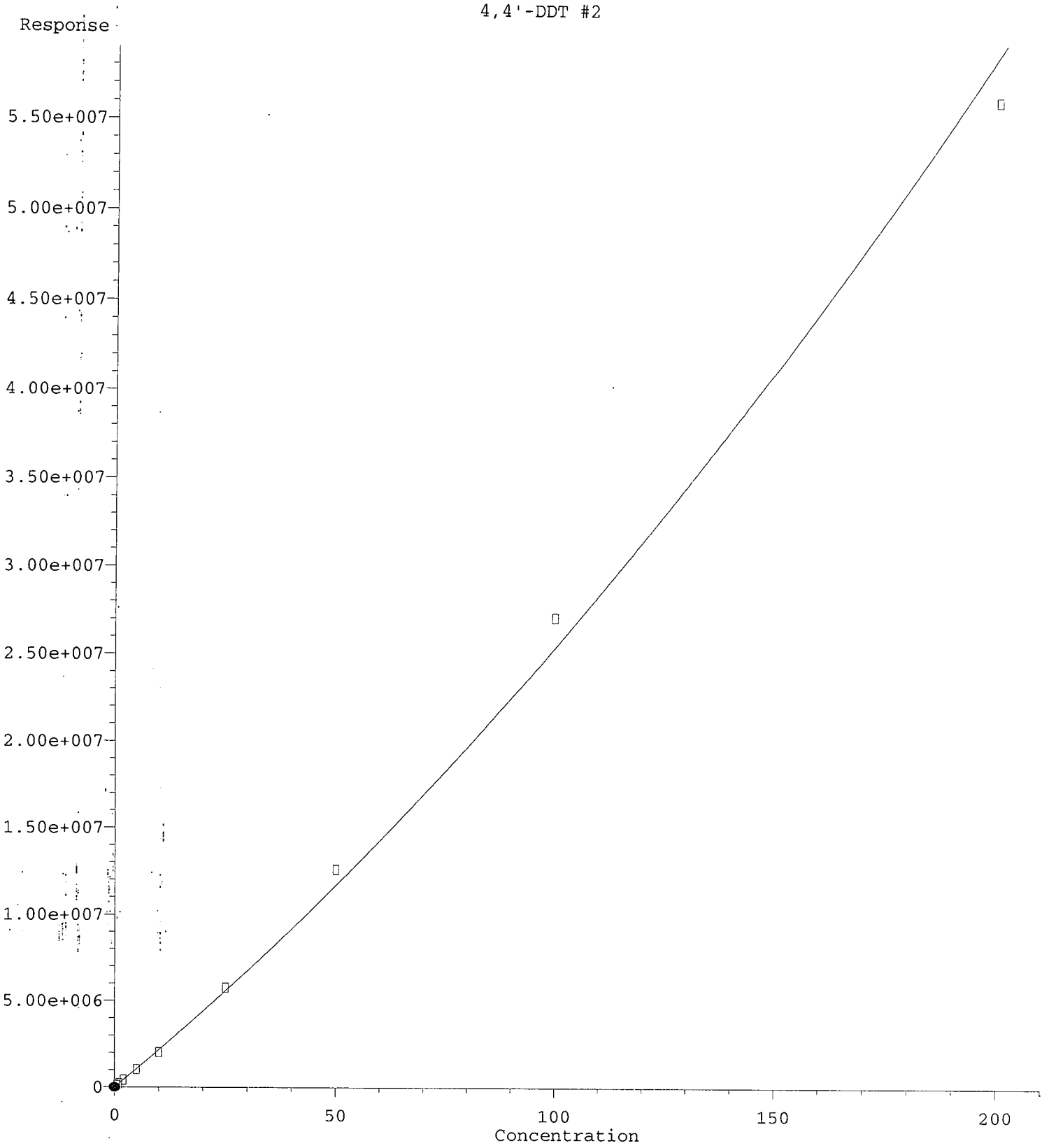
MJB 1/8/20

(12) 4,4'-DDE #2

8.475min 0.058 ng/mL (m)

response 7374

(+) = Expected Retention Time

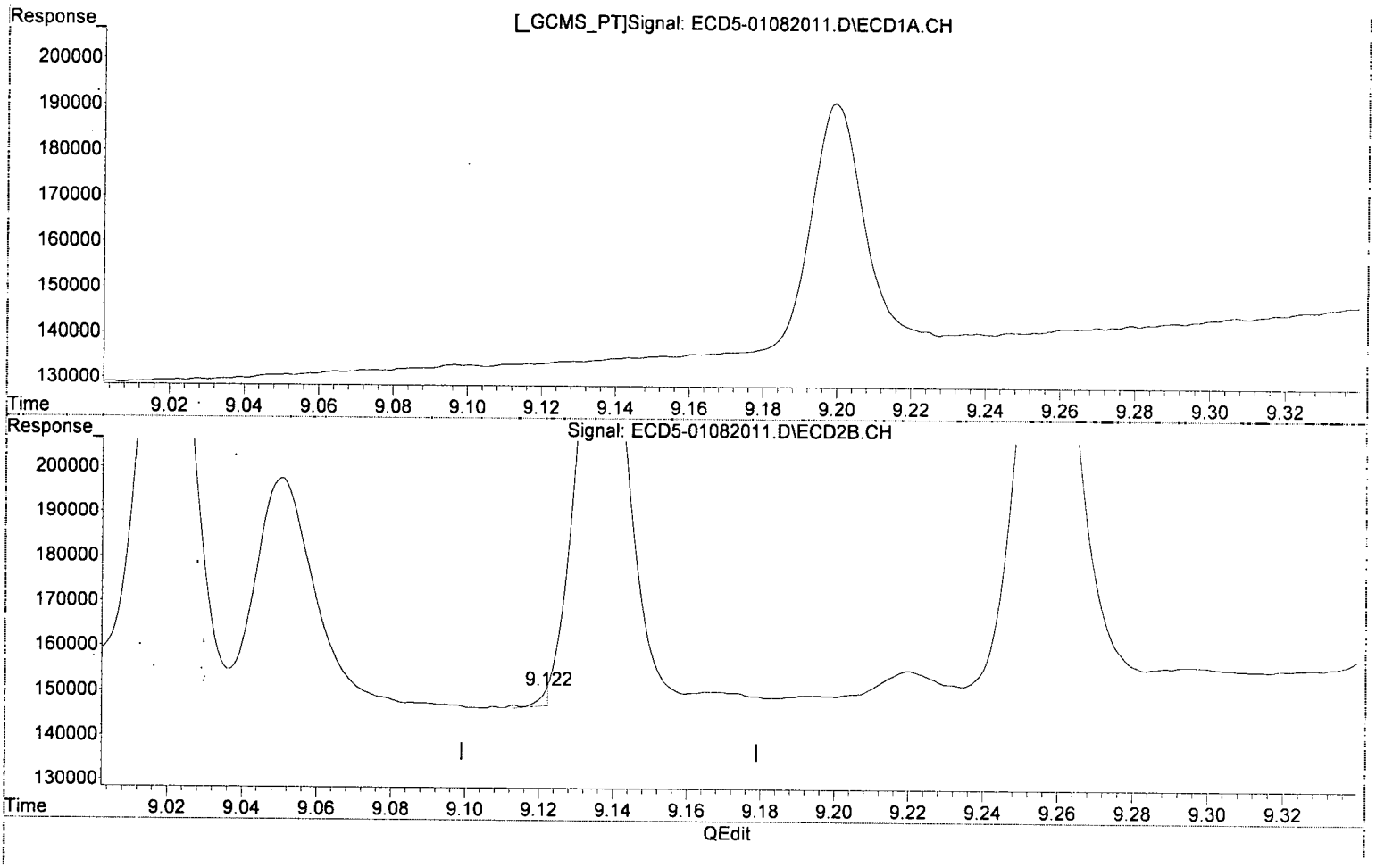


R = 4.02e+002 A*A + 2.13e+005 A - 6.23e+003
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_200107.M
Calibration Table Last Updated: Thu Jan 09 15:10:49 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:50
Operator : MJB
Sample : 0A08041-CAL1
Misc : A20A094, AB 0.5 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: Jan 09 15:20:50 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

8.216min 0.513 ng/mL

response 84911

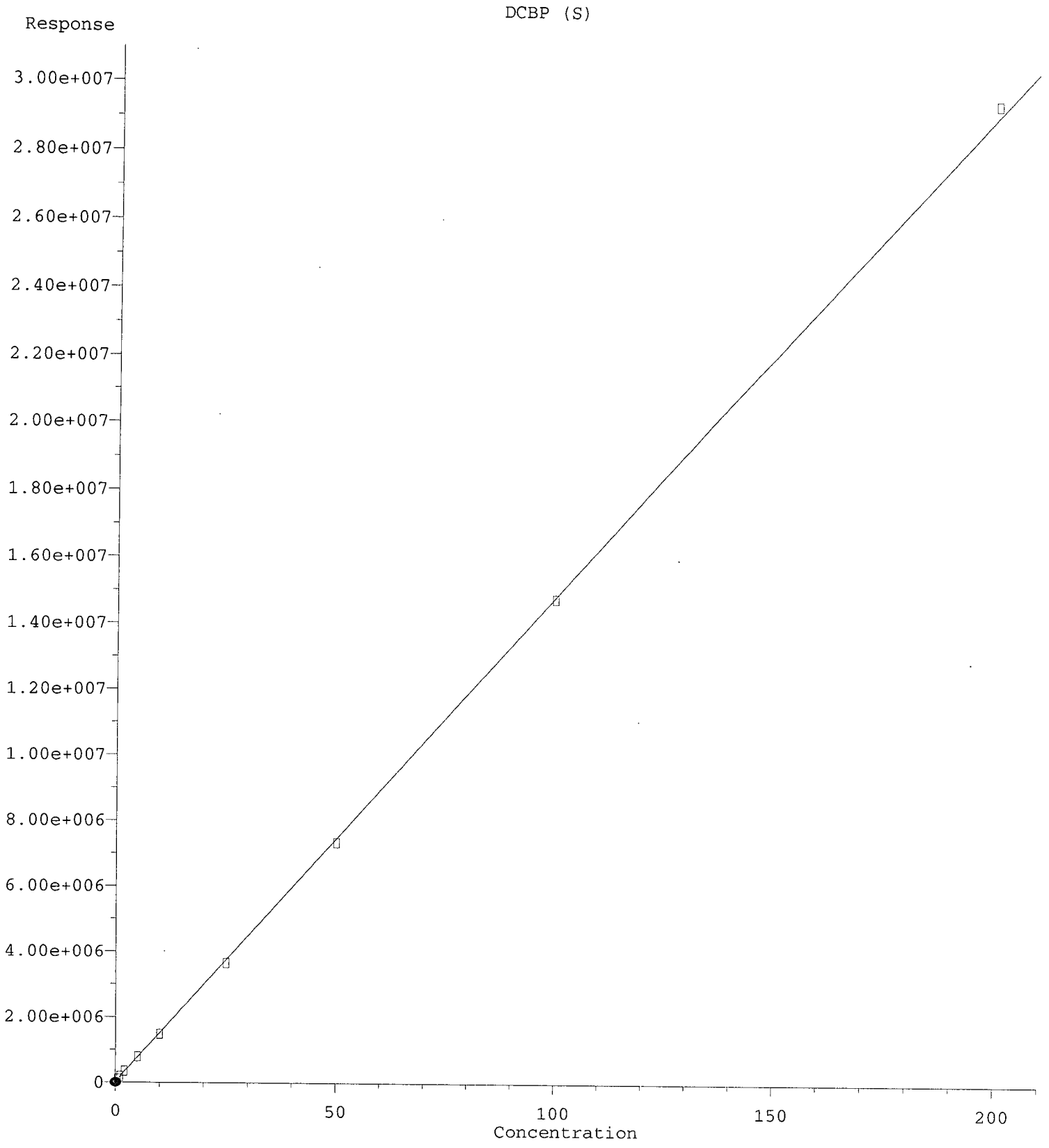
MJB 1/9/20

(17) 4,4'-DDT #2

9.122min 0.046 ng/mL (m)

response 3532

(+) = Expected Retention Time

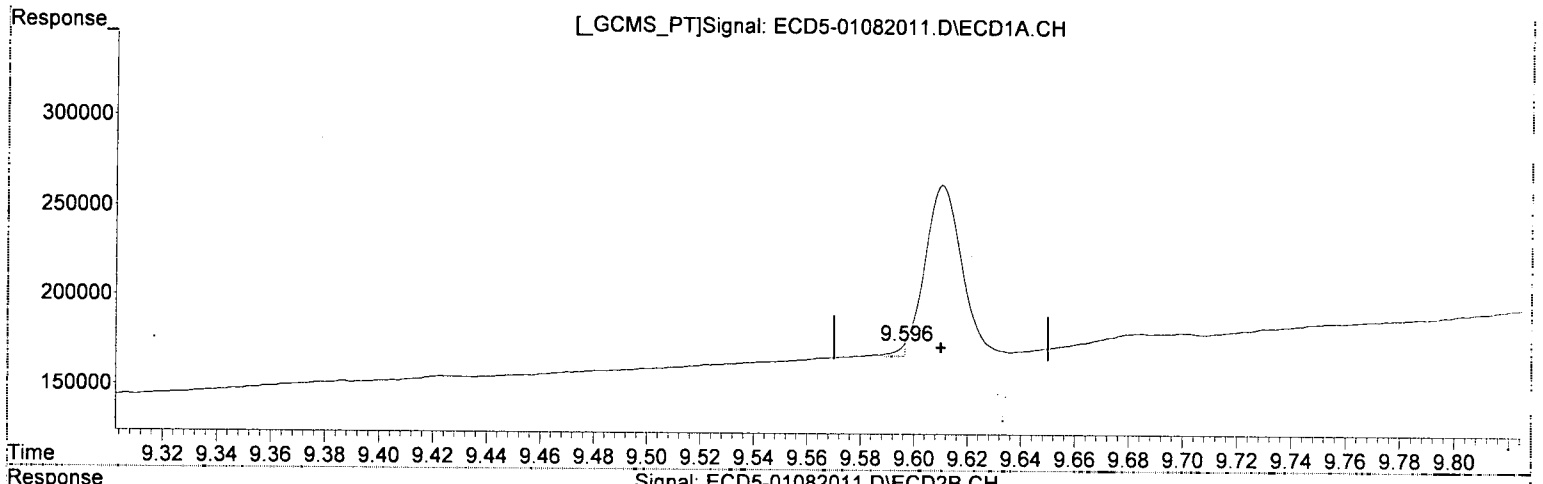


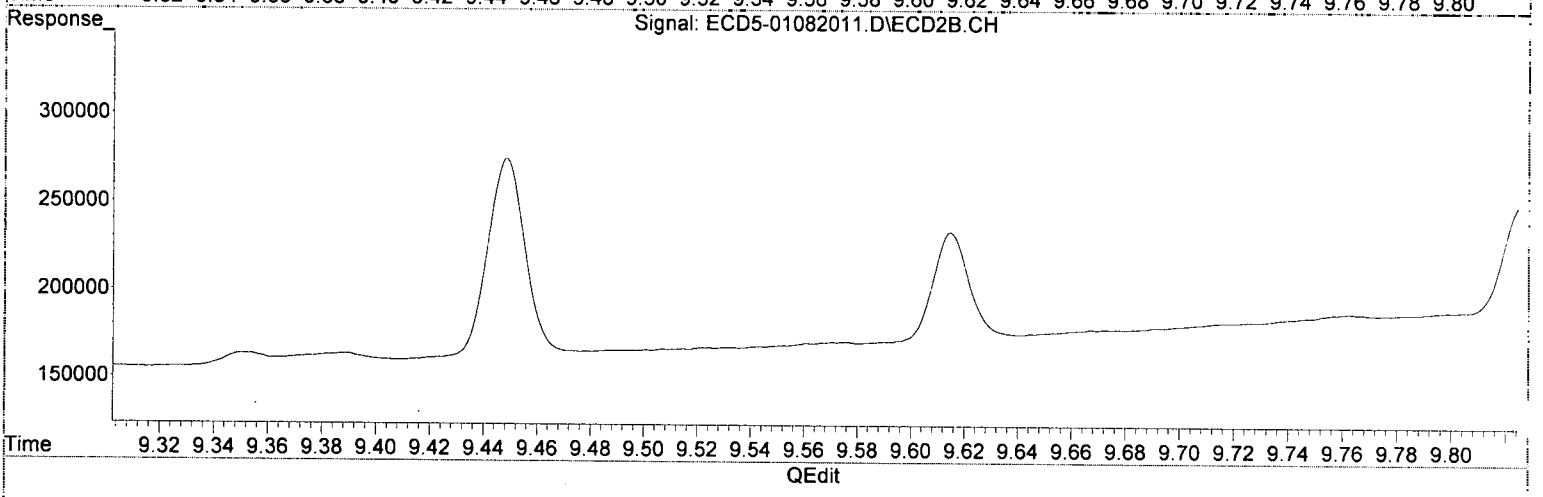
R = -1.84e+001 A*A + 1.50e+005 A + 2.33e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_200107.M
Calibration Table Last Updated: Wed Jan 08 17:29:24 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:50
Operator : MJB
Sample : 0A08041-CAL1
Misc : A20A094, AB 0.5 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: Jan 08 17:31:47 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:25:24 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(22) DCBP (S) (S)

9.596min 8131.946 ng/mL (m) Q-PCA MJB 1/8/20

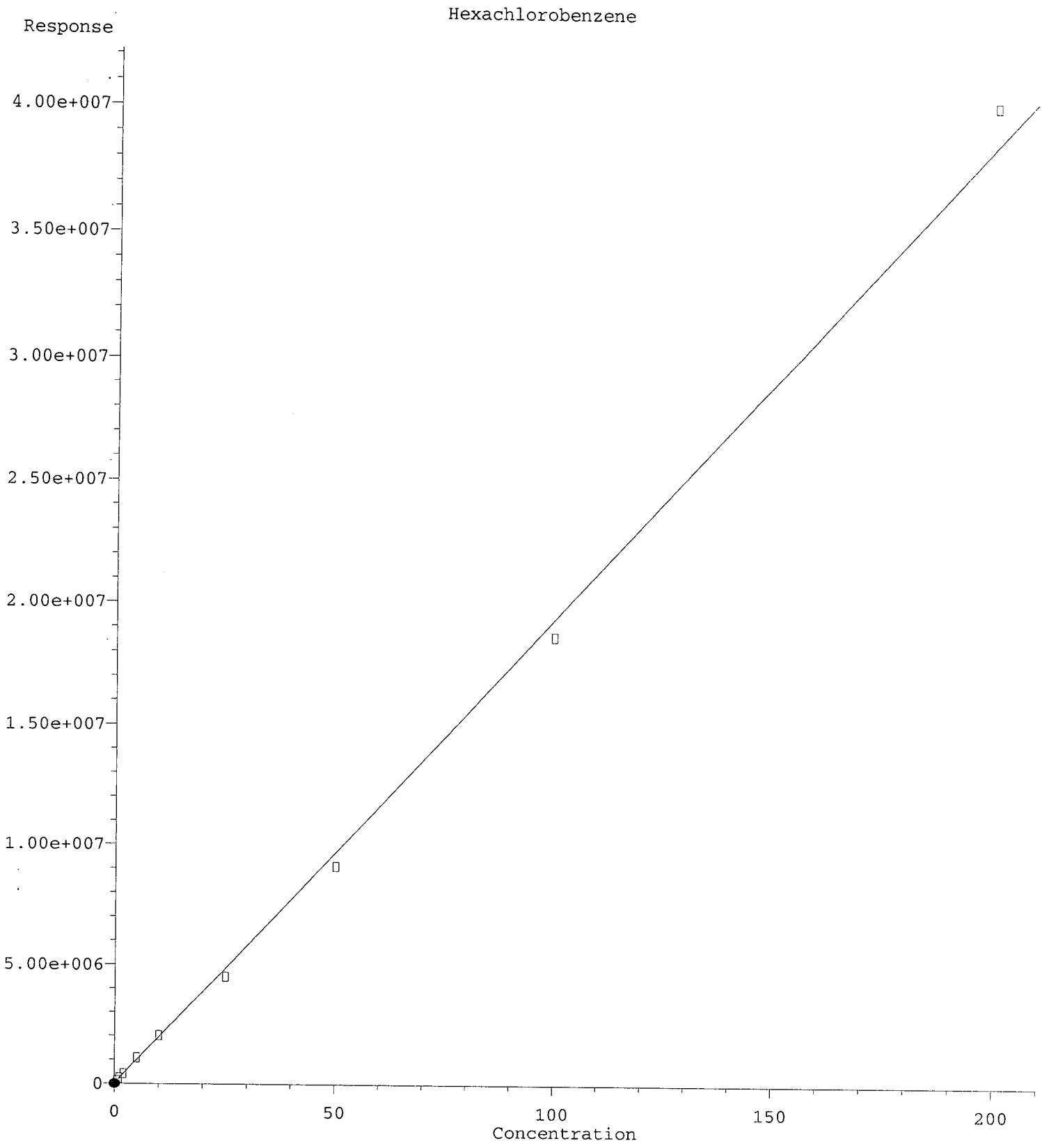
response 5921

(22) DCBP (S) #2 (S)

10.741min 0.569 ng/mL

response 101208

(+) = Expected Retention Time

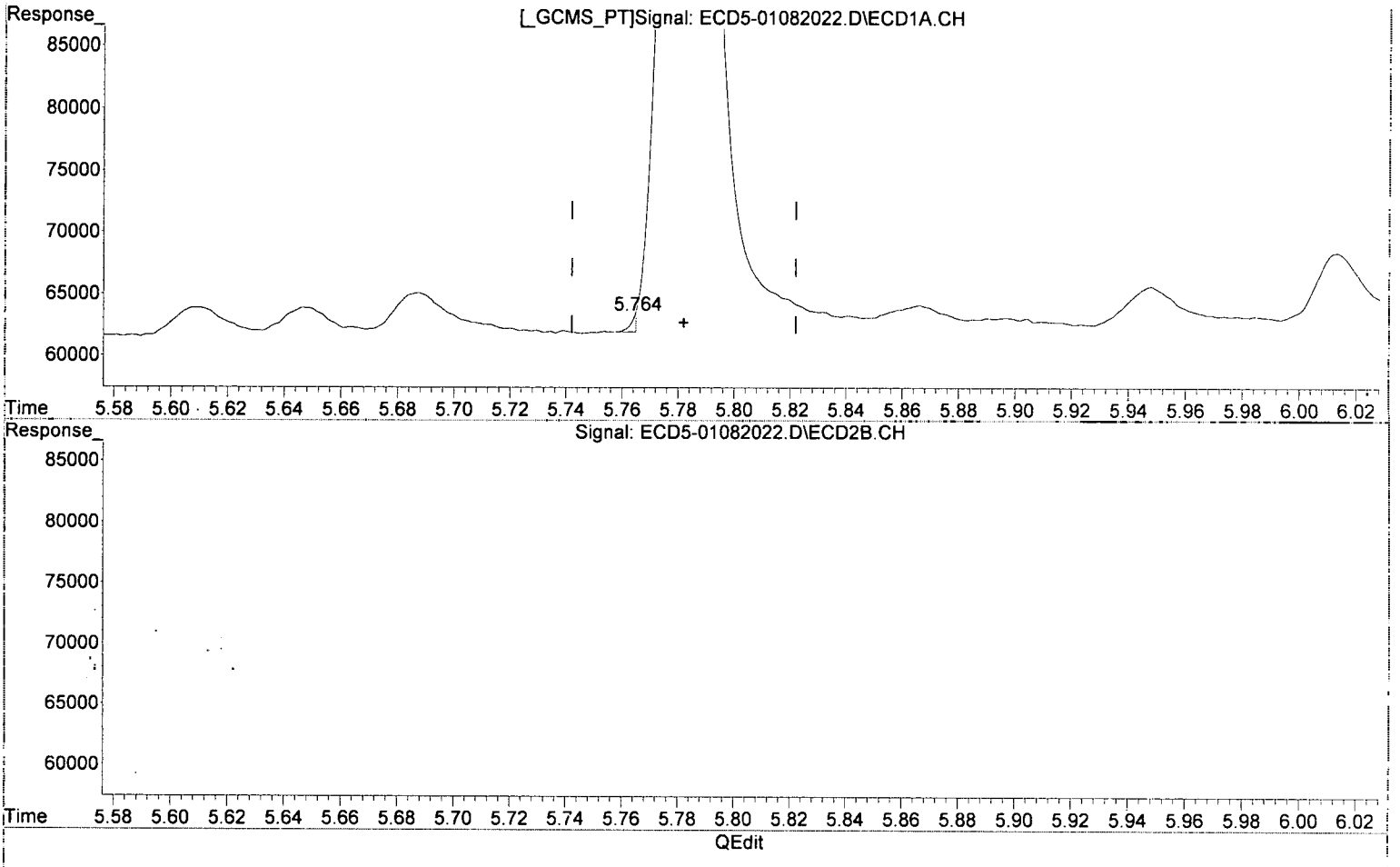


R = 1.88e+000 A*A + 1.93e+005 A + 3.00e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_200107.M
Calibration Table Last Updated: Thu Jan 09 11:15:03 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:59
Operator : MJB
Sample : 0A08041-CALA
Misc : A20A096, 9-42 0.5 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: Jan 09 11:28:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(24) Hexachlorobenzene

5.764min -0.148 ng/mL (m)

response 1411

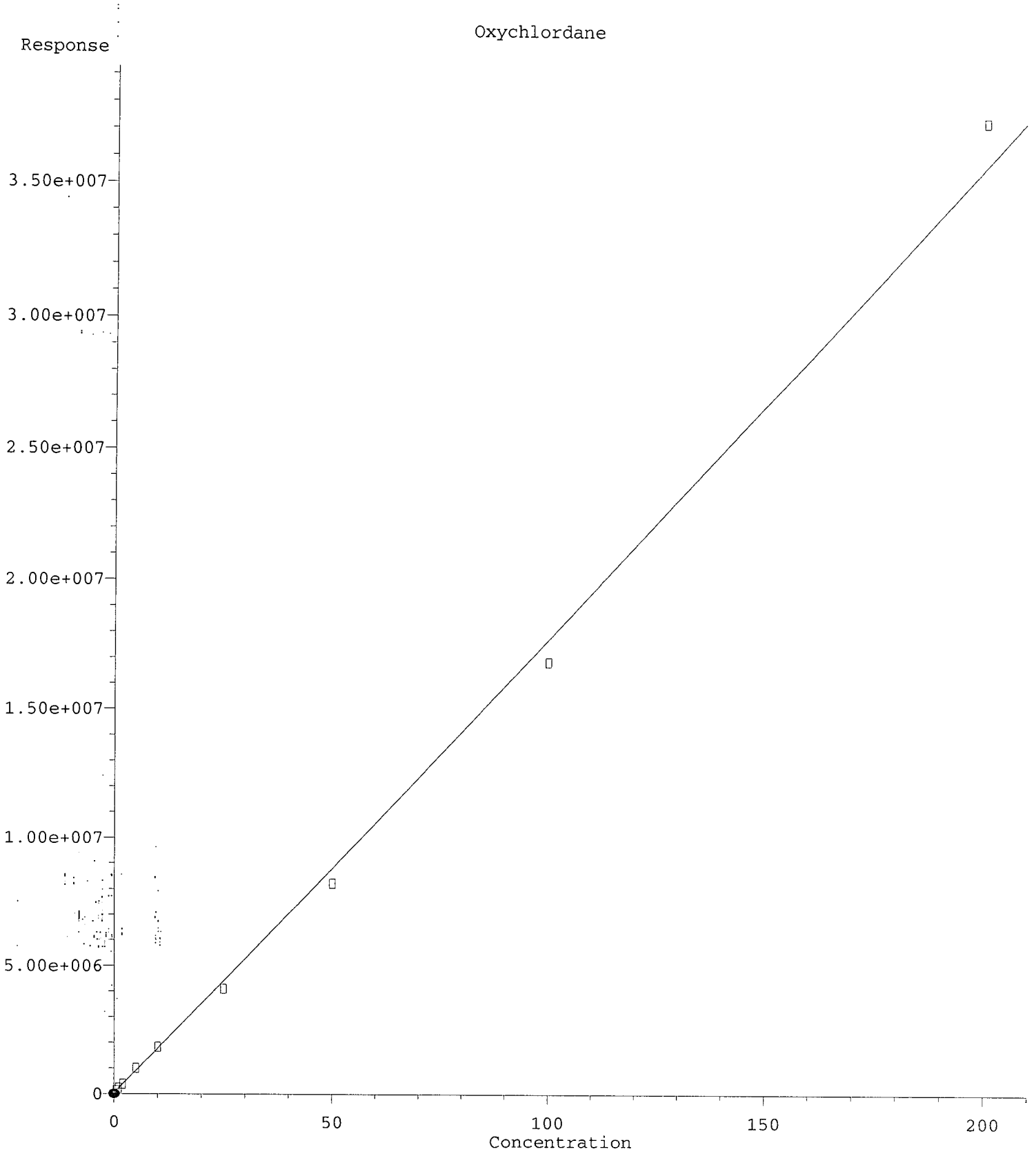
MJB 1/9/20

(24) Hexachlorobenzene #2

6.595min 0.549 ng/mL

response 175732

(+) = Expected Retention Time

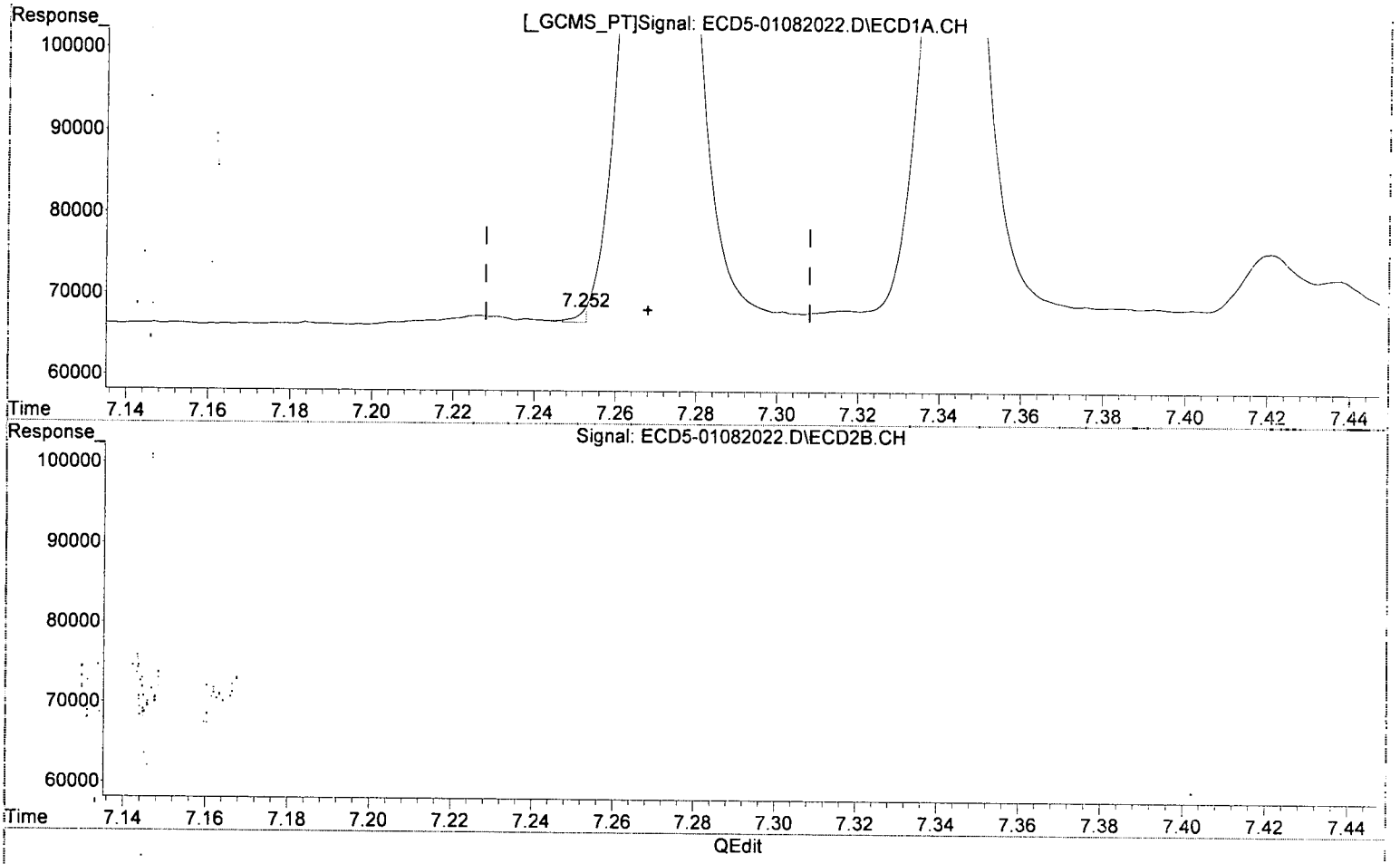


R = 2.16e+001 A*A + 1.74e+005 A + 3.55e+004
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_200107.M
Calibration Table Last Updated: Thu Jan 09 11:15:03 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:59
Operator : MJB
Sample : 0A08041-CALA
Misc : A20A096, 9-42 0.5 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: Jan 09 11:28:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(25) Oxychlordane

7.252min -0.196 ng/mL (m)

response 1369

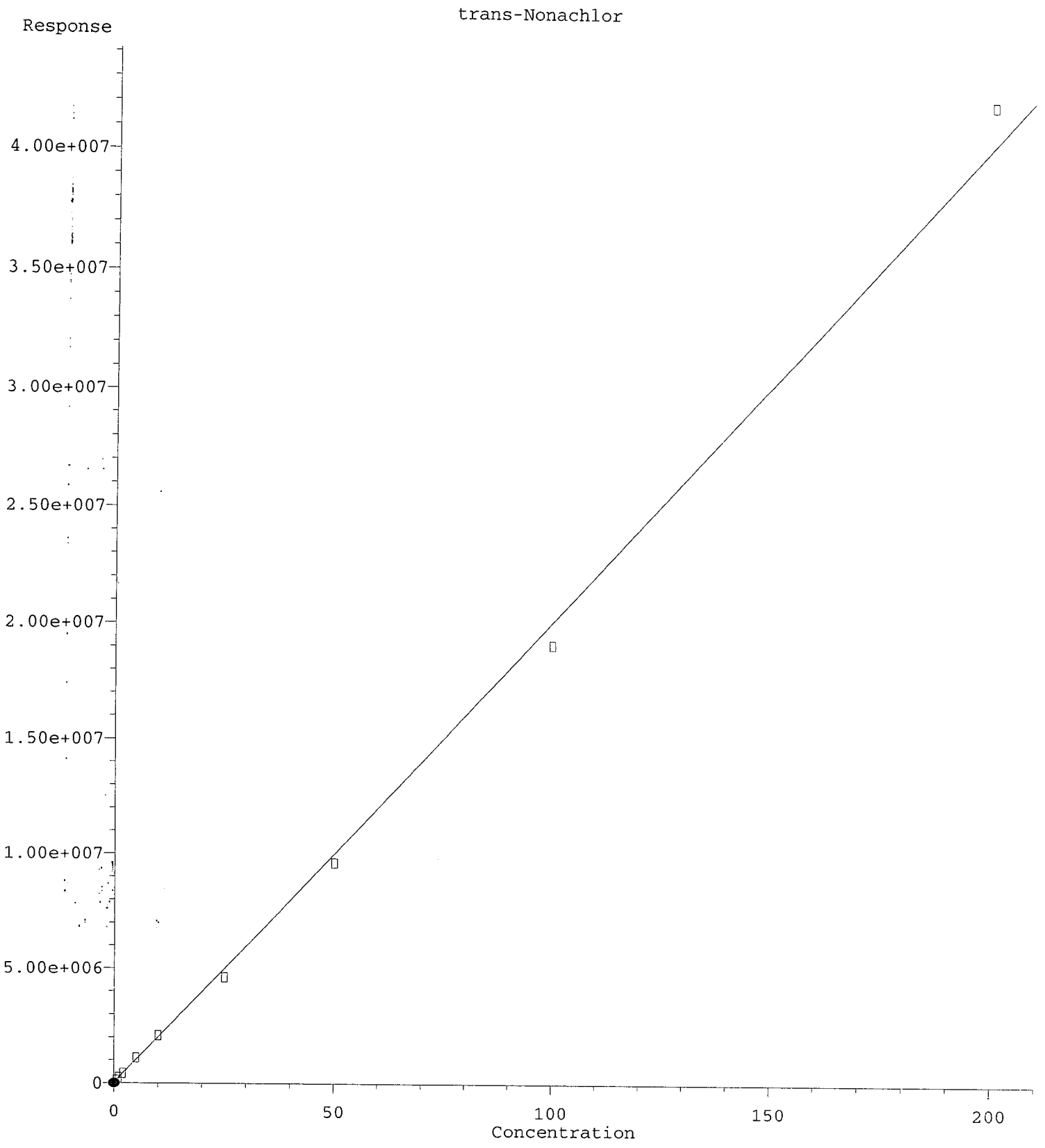
MJB 1/9/20

(25) Oxychlordane #2

8.069min 0.561 ng/mL

response 156922

(+) = Expected Retention Time

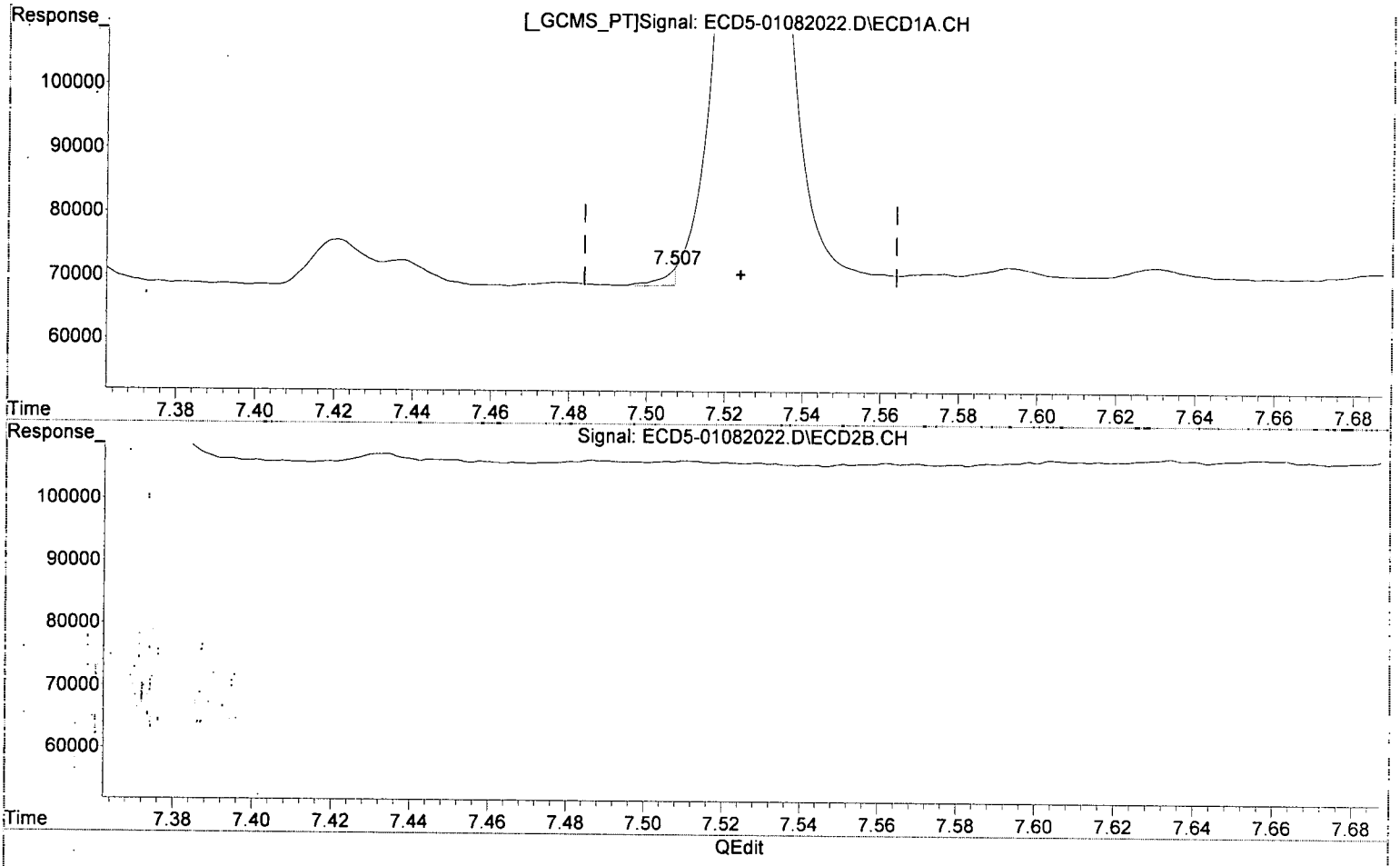


R = 1.77e+001 A*A + 1.98e+005 A + 3.11e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_200107.M
Calibration Table Last Updated: Thu Jan 09 11:15:03 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:59
Operator : MJB
Sample : 0A08041-CALA
Misc : A20A096, 9-42 0.5 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: Jan 09 11:28:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.507min -0.144 ng/mL (m)

response 2555

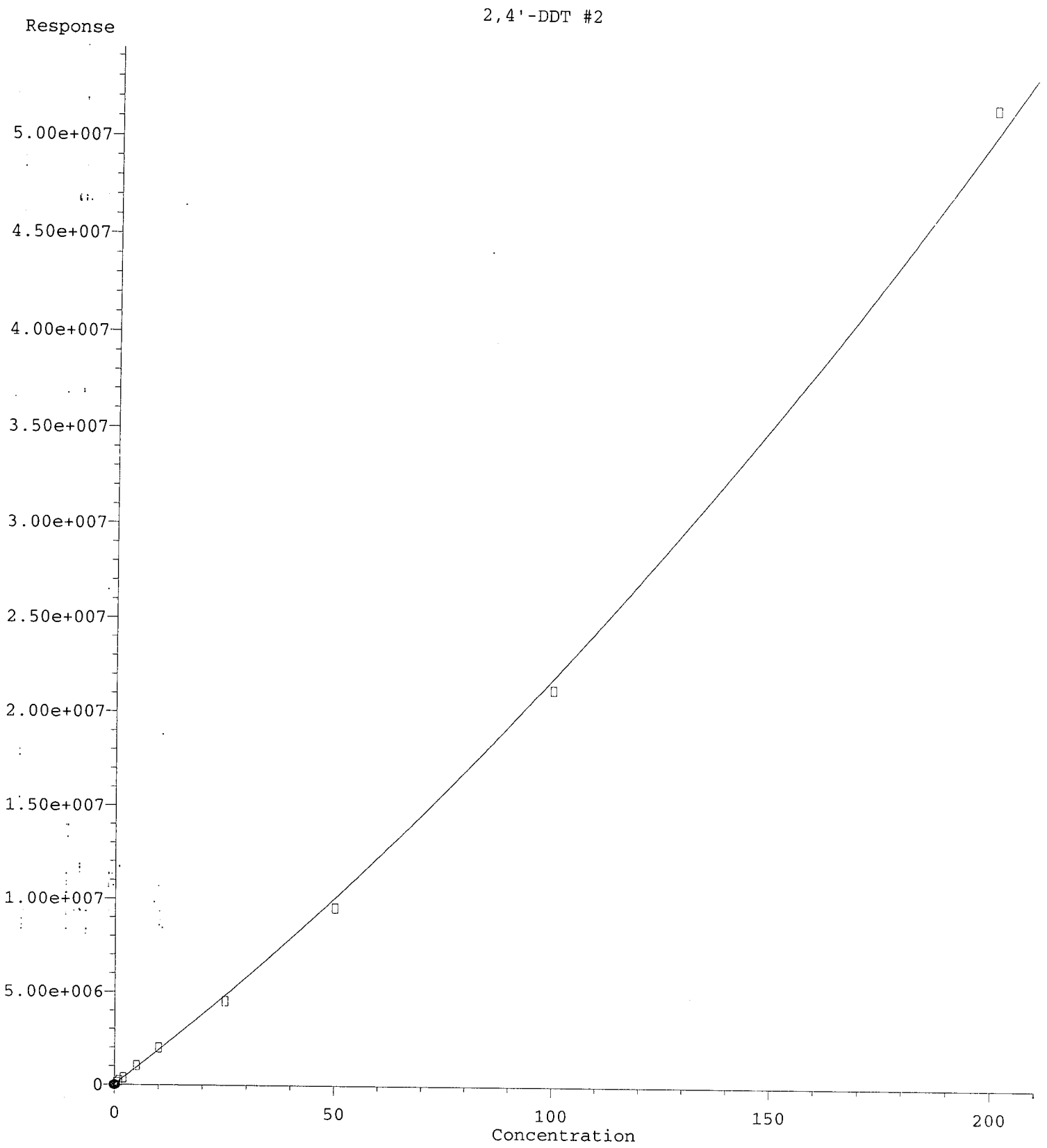
MJB 1/9/20

(27) trans-Nonachlor #2

8.345min 0.545 ng/mL

response 167484

(+) = Expected Retention Time

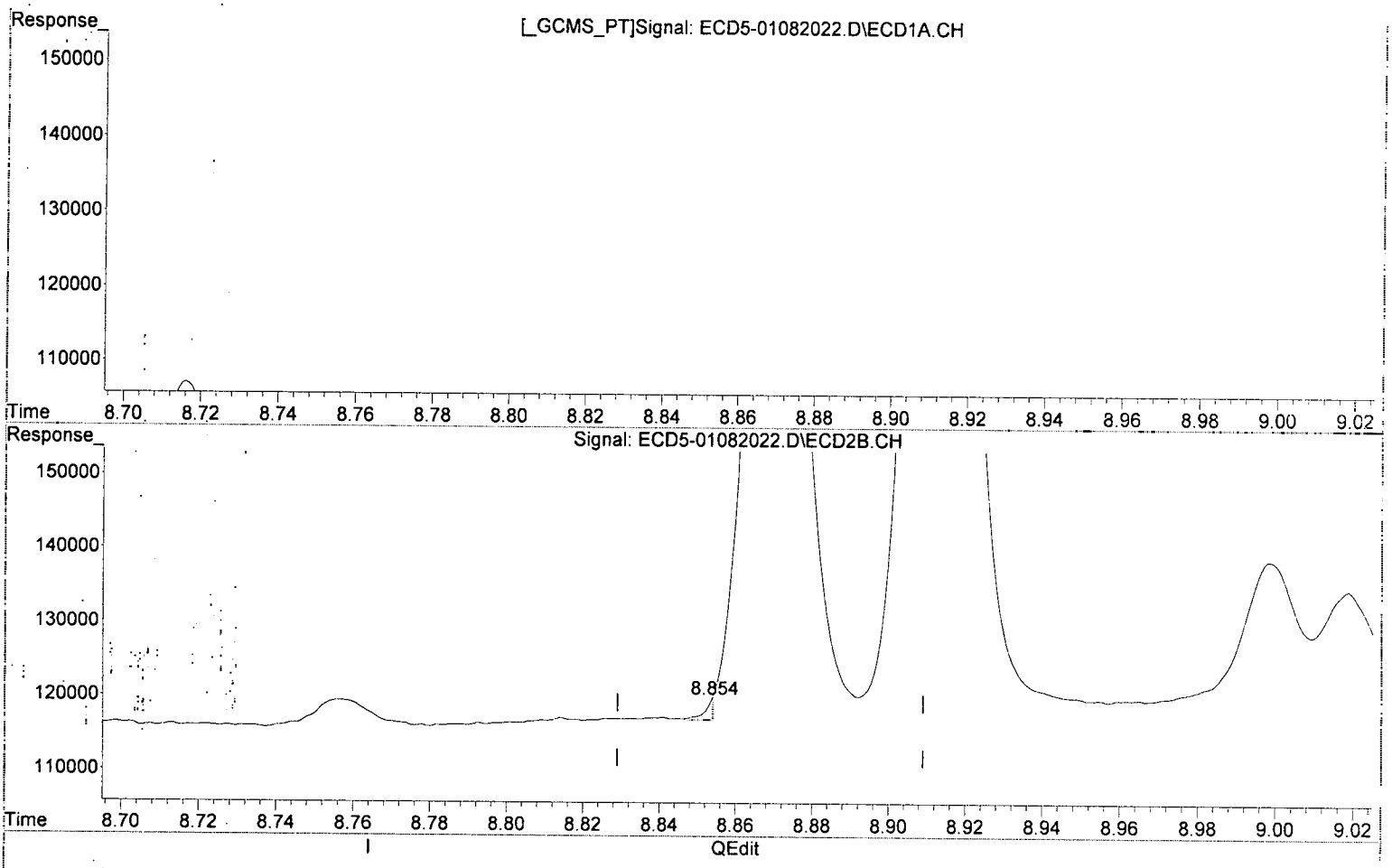


R = 3.42e+002 A*A + 1.84e+005 A + 1.92e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_200107.M
Calibration Table Last Updated: Thu Jan 09 11:15:03 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:59
Operator : MJB
Sample : 0A08041-CALA
Misc : A20A096, 9-42 0.5 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: Jan 09 11:28:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.899min 0.569 ng/mL

response 83331

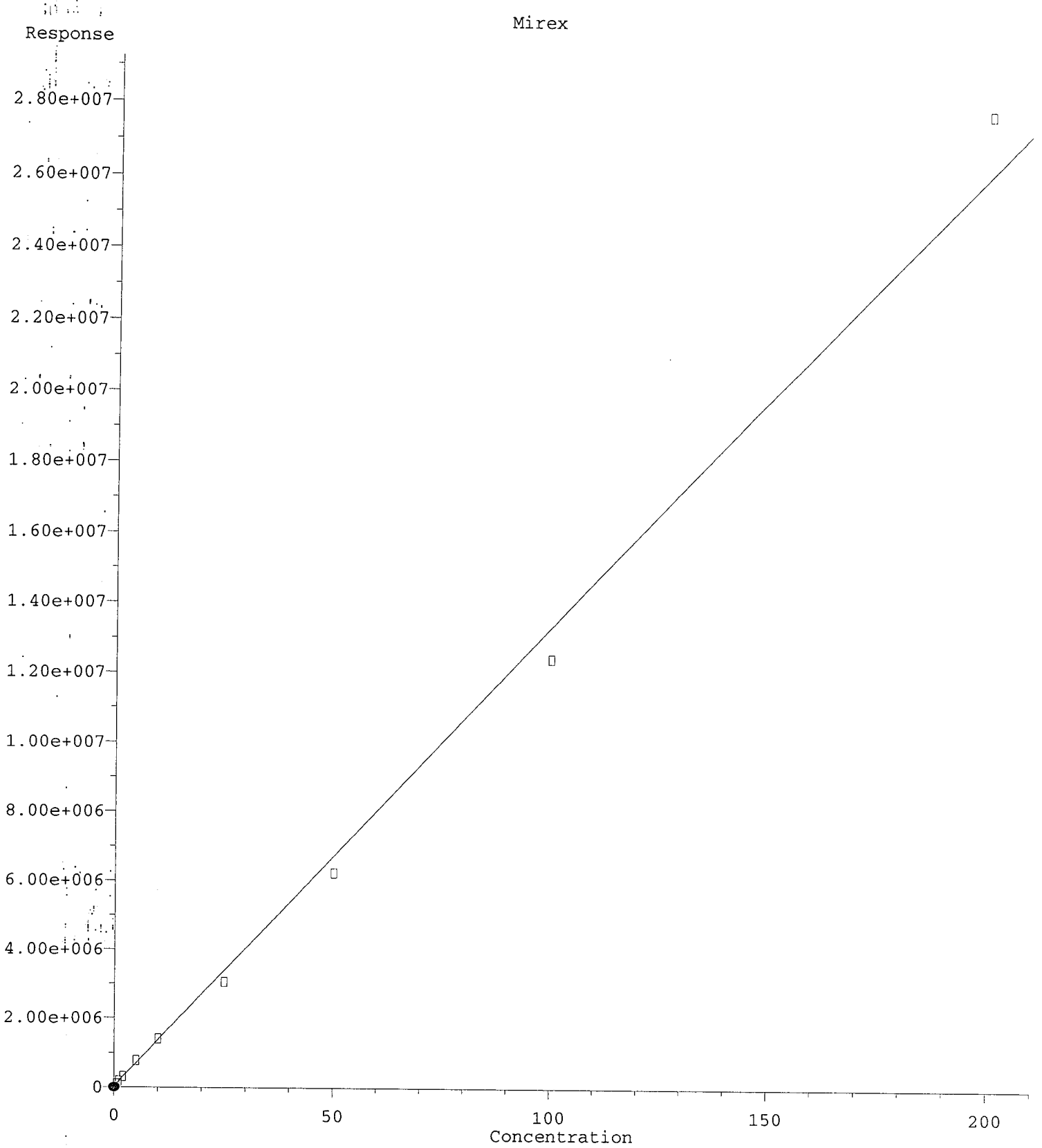
MJB 1/9/20

(29) 2,4'-DDT #2

8.854min -0.089 ng/mL (m)

response 2826

(+) = Expected Retention Time

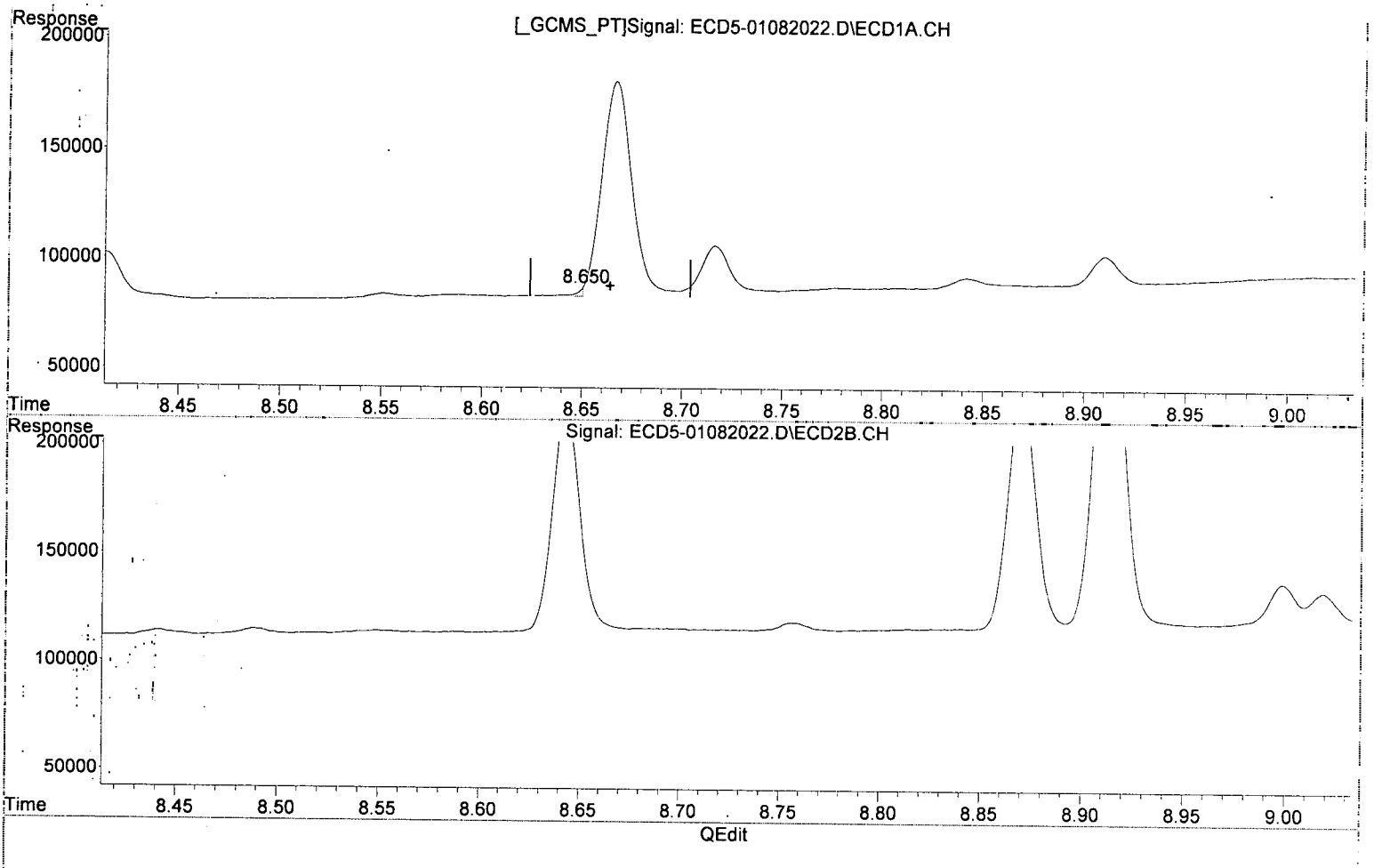


R = -2.01e+001 A*A + 1.35e+005 A + 3.33e+004
Coef of Det (r^2) = 0.992 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_200107.M
Calibration Table Last Updated: Thu Jan 09 11:15:03 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:59
Operator : MJB
Sample : 0A08041-CALA
Misc : A20A096, 9-42 0.5 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: Jan 09 11:28:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.650min 6723.018 ng/mL (m)

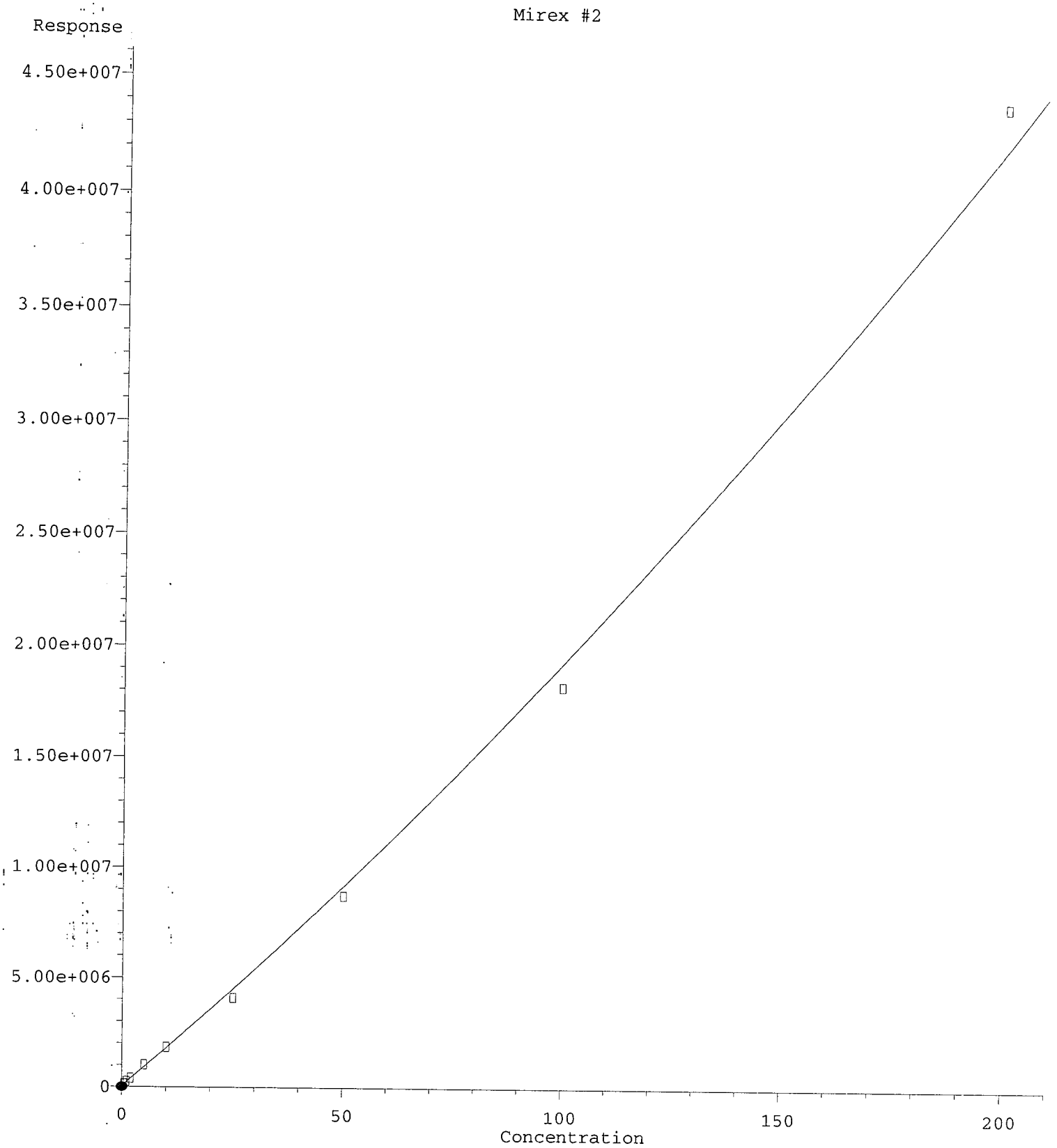
response 4085

(31) Mirex #2

9.851min 0.470 ng/mL

response 127755

(+) = Expected Retention Time

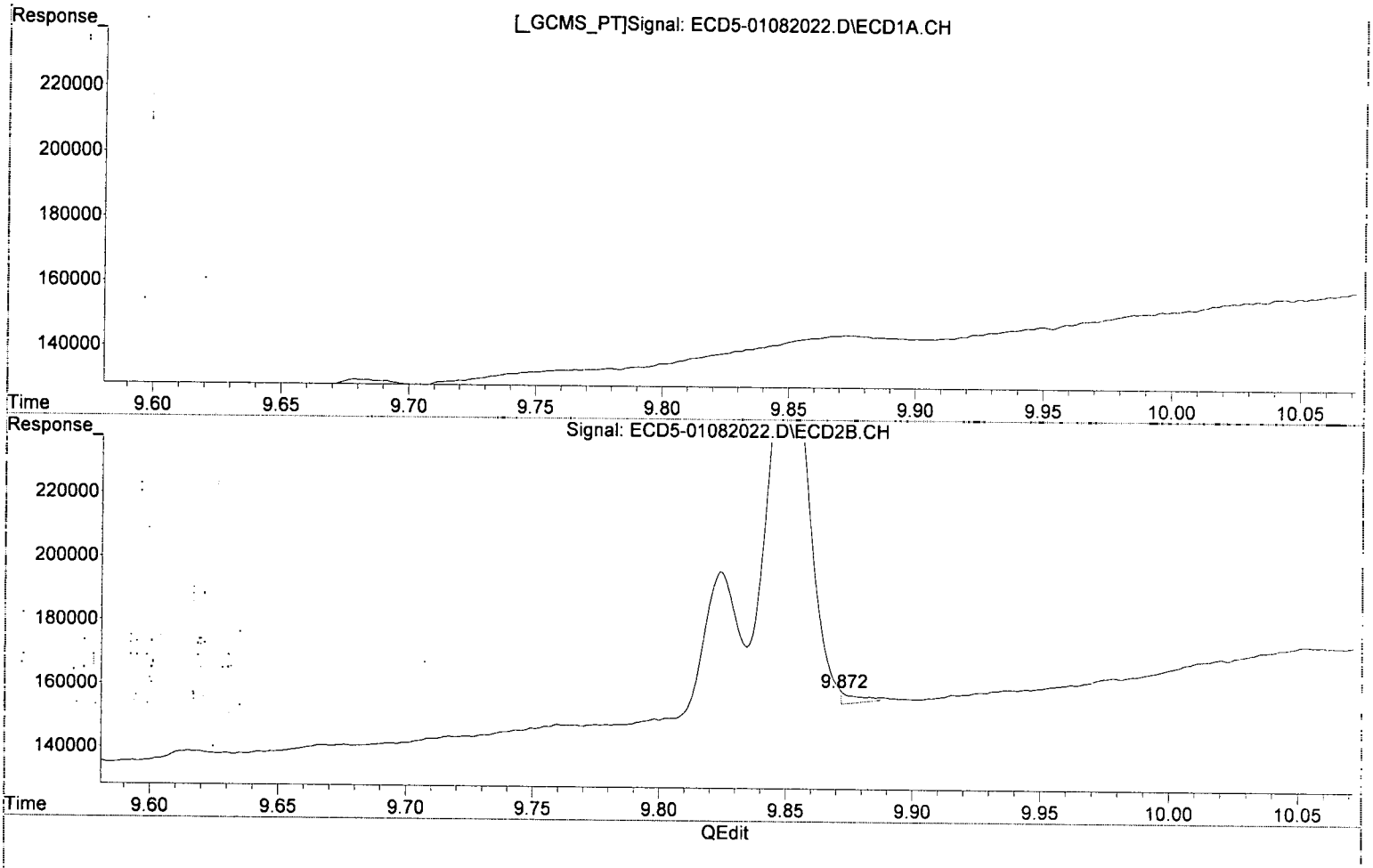


R = 1.90e+002 A*A + 1.73e+005 A + 4.66e+004
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_200107.M
Calibration Table Last Updated: Thu Jan 09 11:15:03 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:59
Operator : MJB
Sample : 0A08041-CALA
Misc : A20A096, 9-42 0.5 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: Jan 09 11:28:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.650min 6723.018 ng/mL m

response 4035

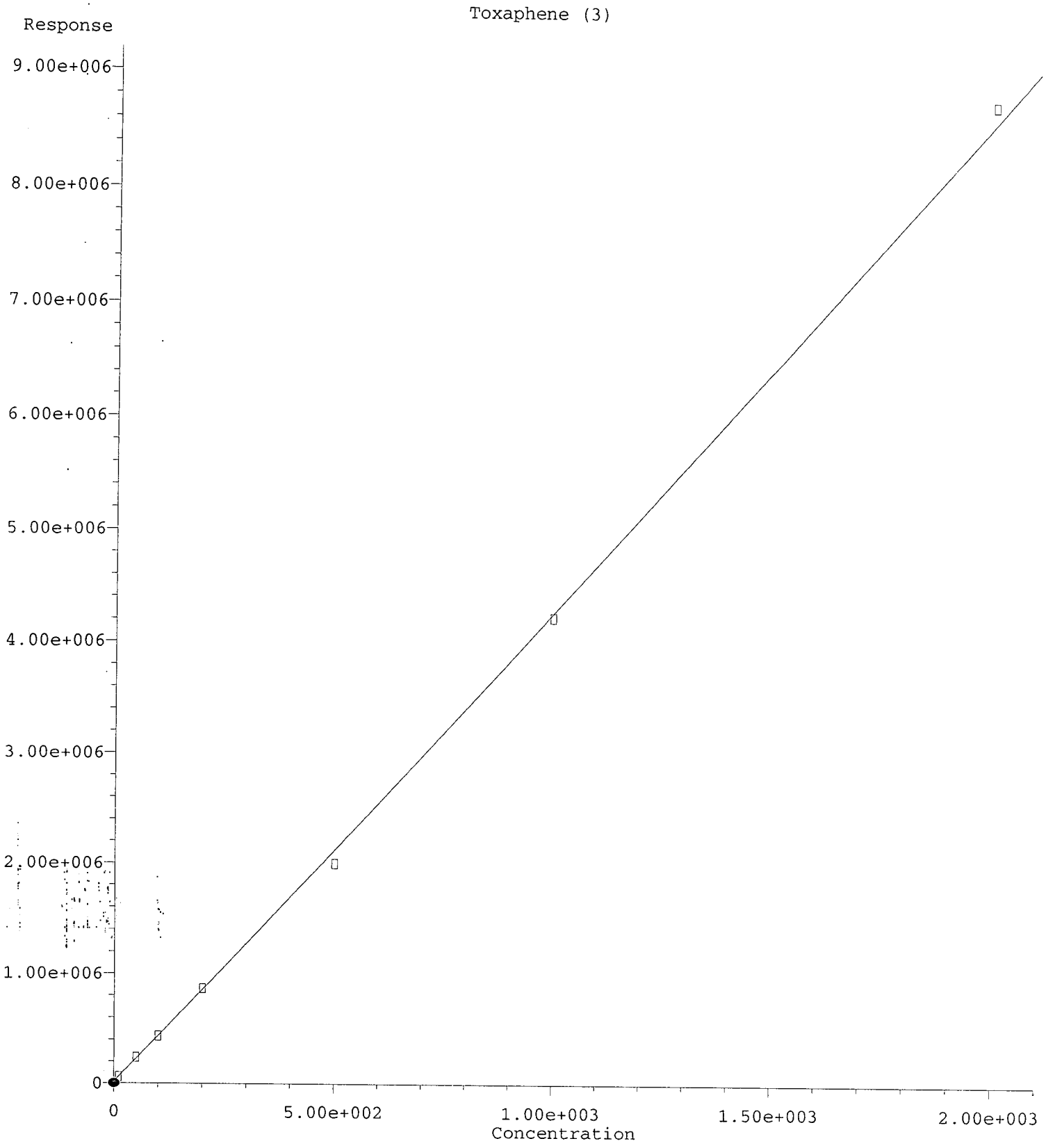
MJB 1/9/20

(31) Mirex #2

9.872min -0.247 ng/mL m

response 3982

(+) = Expected Retention Time

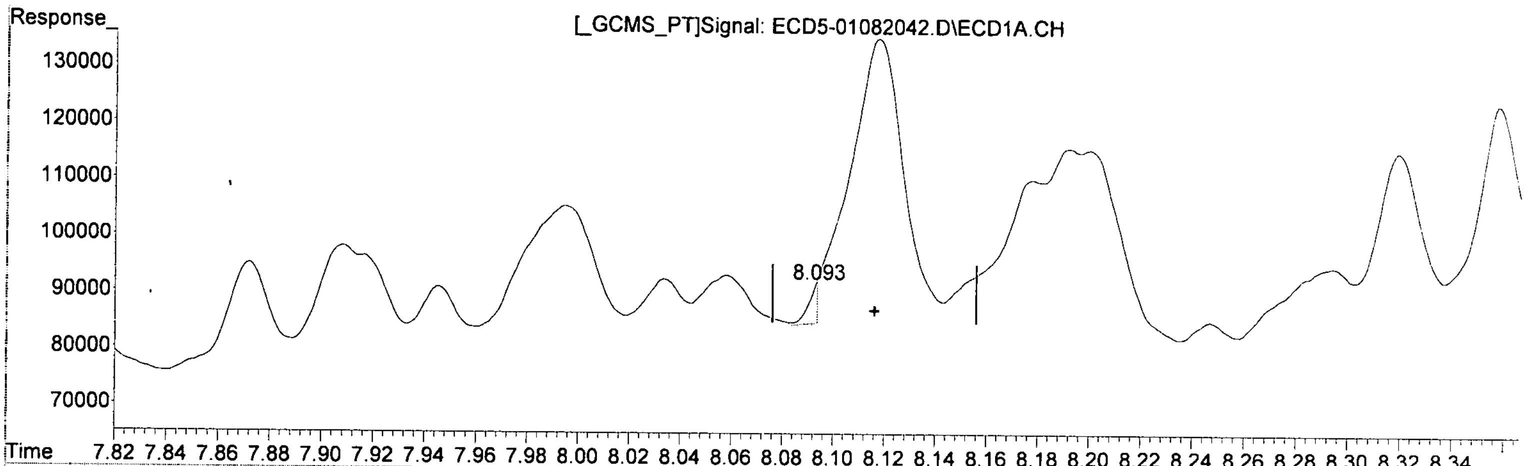


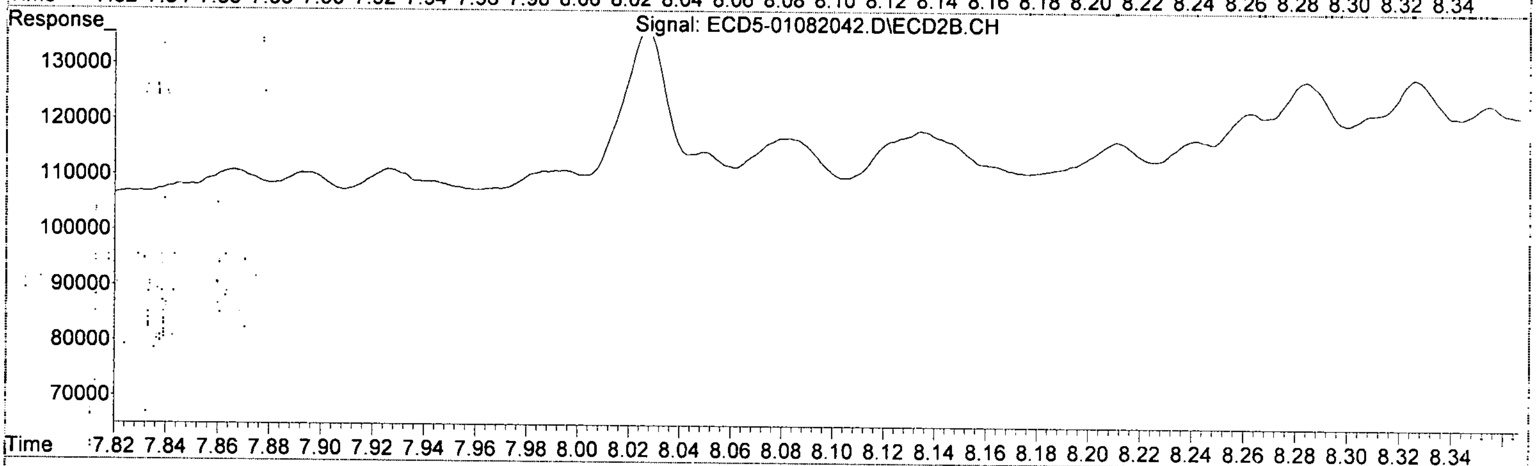
R = 5.57e-002 A*A + 4.18e+003 A + 1.74e+004
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: R:\methods\ECD5_QUANTPEST_200107.M
Calibration Table Last Updated: Thu Jan 09 11:15:03 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:33:28 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





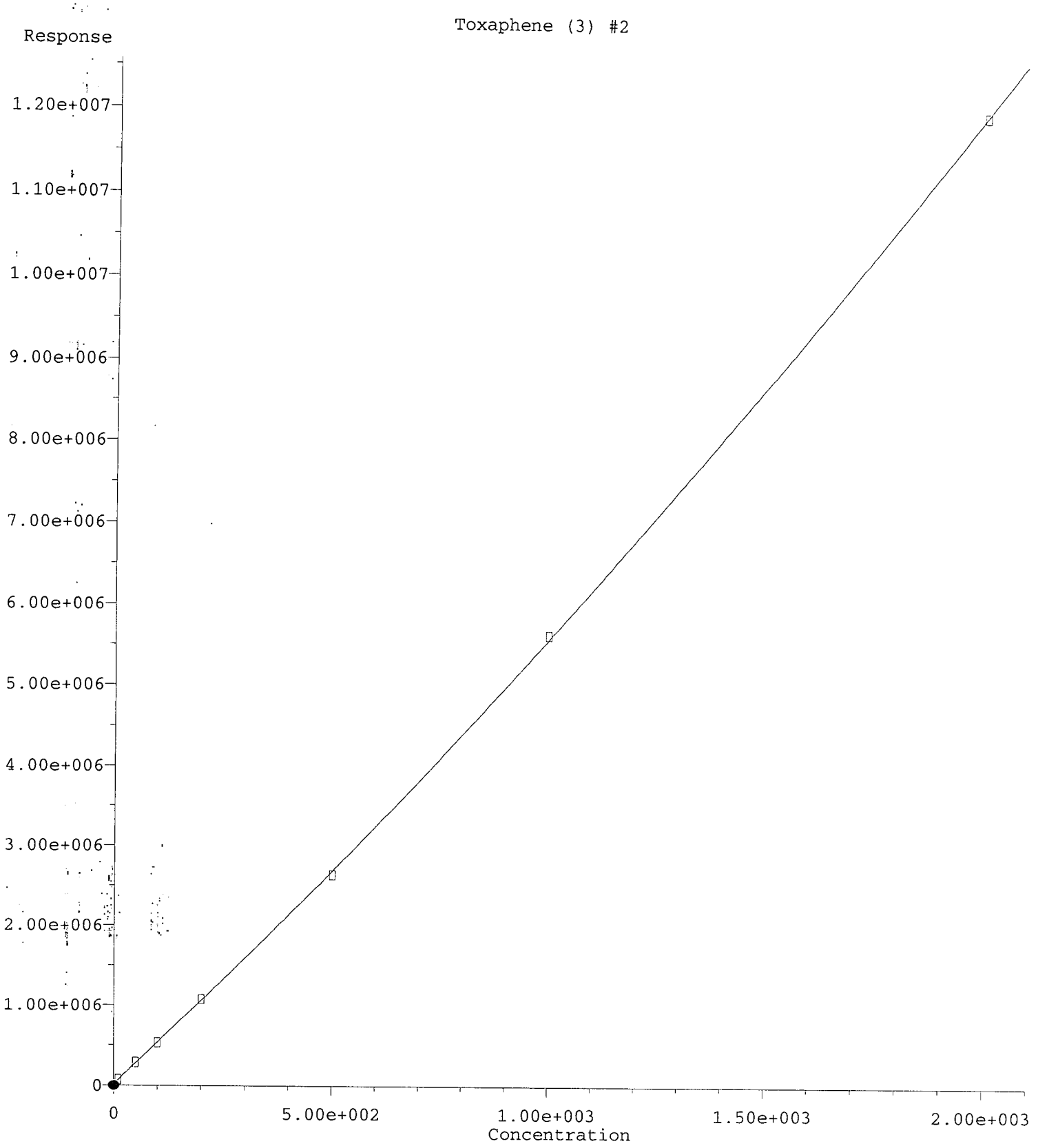
QEdit

(38) Toxaphene (3)
8.093min -2.517 ng/mL (m)
response 6869

MJB 1/9/20

(38) Toxaphene (3) #2
9.004min 9.796 ng/mL
response 70419

(+) = Expected Retention Time

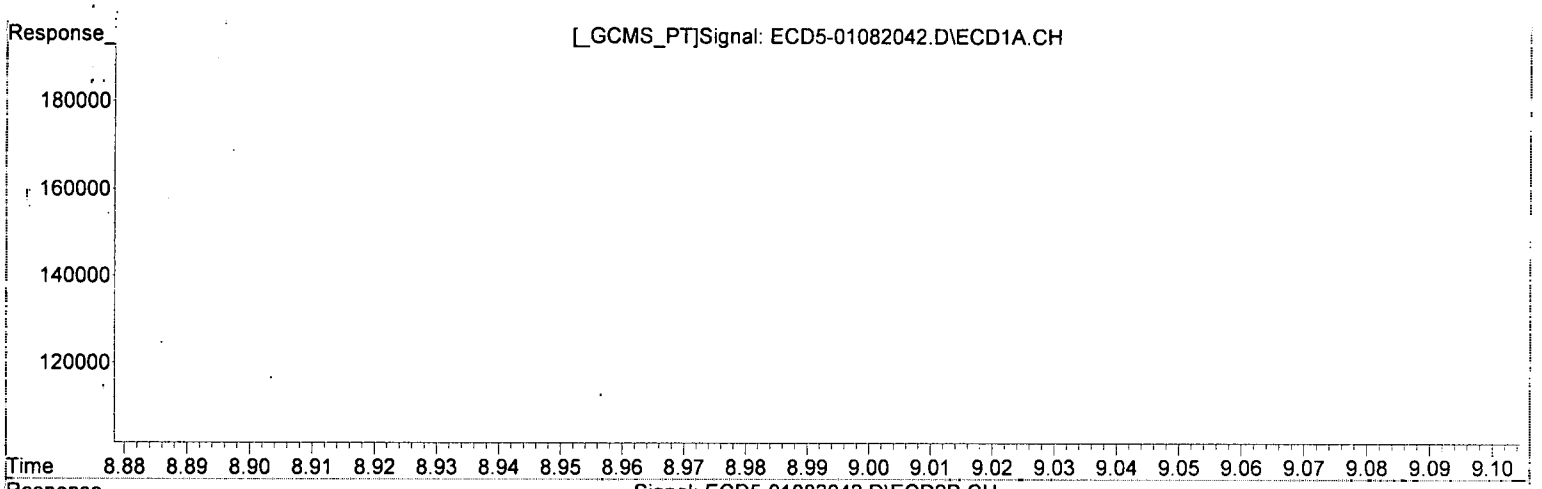


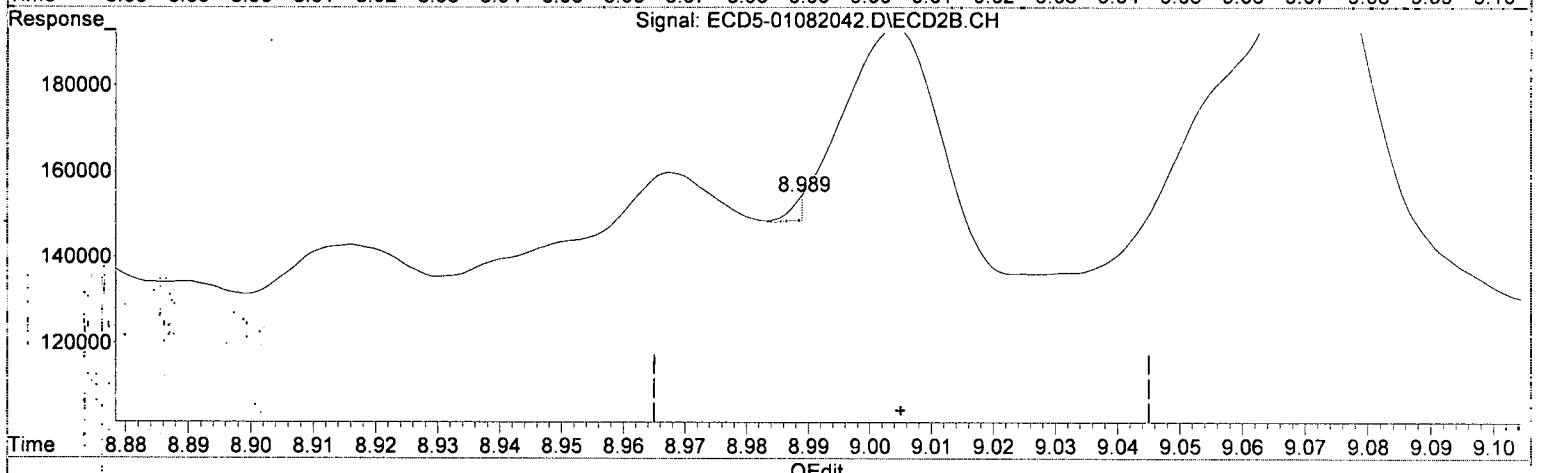
R = 4.34e-001 A*A + 5.12e+003 A + 2.03e+004
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w/(1/a)
Method Name: R:\methods\ECD5_QUANTPEST_200107.M
Calibration Table Last Updated: Thu Jan 09 11:15:03 2020

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:33:28 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(38) Toxaphene (3)

8.093min -2.517 ng/mL m

response 6869

MJB 1/9/20

(38) Toxaphene (3) #2

8.989min -2.864 ng/mL (m)

response 5624

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:26
Operator : MJB
Sample : 0A08041-ICB1
Misc : A19L339
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: Jan 09 15:19:22 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 1/9/20

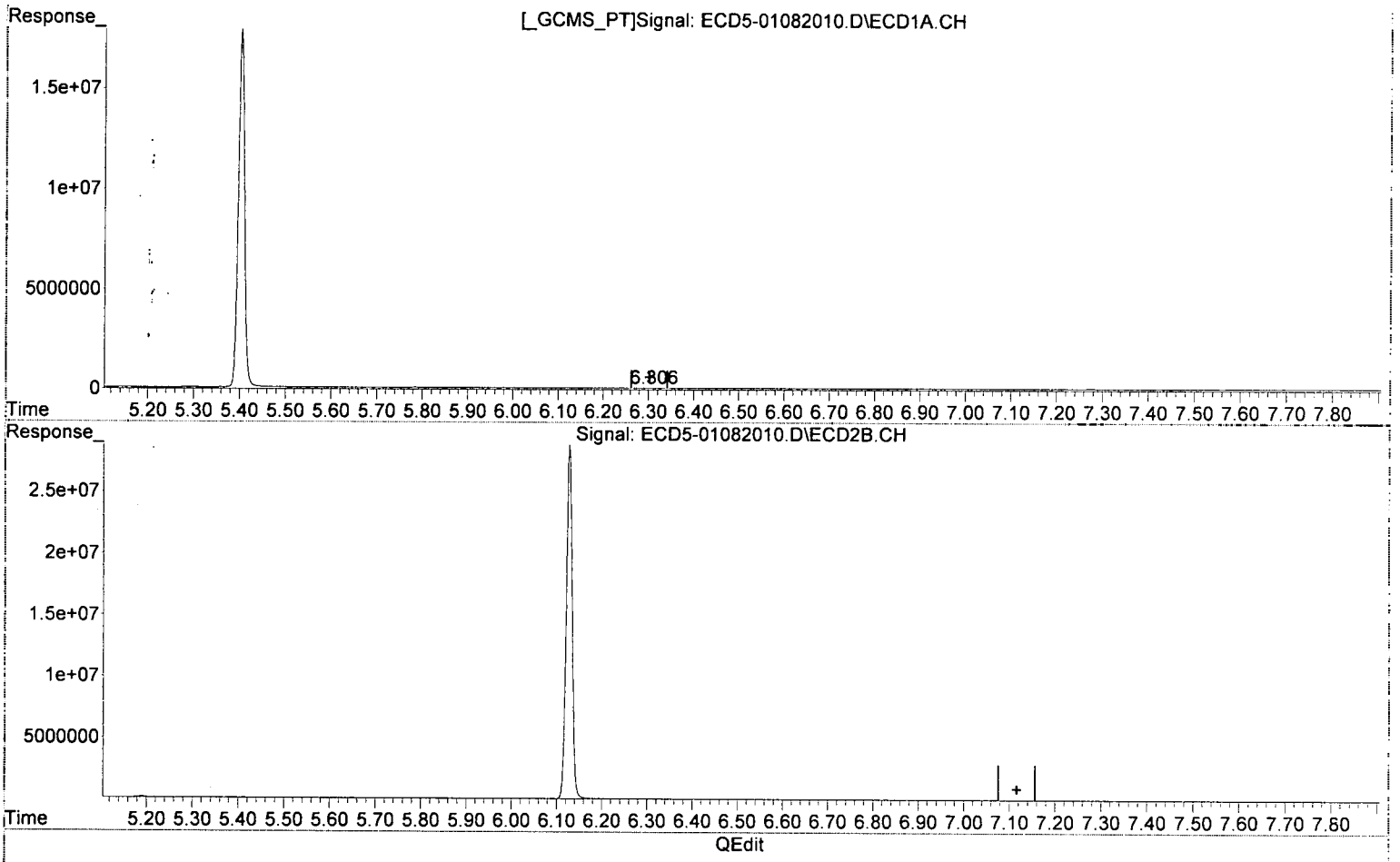
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.403	6.127	17766073	28691382	90.986	96.253	
22)	S DCBP (S)	9.609	10.740	14225686	16525508	96.069	92.868	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.306	0.000	9896	0	~~5931.901~~ Q-DU	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	7.705	0	8780	N.D.	0.026	#
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	7.423	8.287	4671	14140	0.022	0.045	#
10)	cis-Chlor...	7.522	0.000	7488	0	0.037	N.D.	#
11)	Endosulfa...	7.632	0.000	556	0	0.003	N.D.	#
12)	4,4'-DDE	7.632f	0.000	556	0	0.003	N.D.	#
13)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.	
14)	Endrin	7.996f	8.914f	1601	1747	0.009	0.007	
15)	4,4'-DDD	7.996f	8.914	1601	1747	0.009	0.007	
16)	Endosulfa...	8.122	9.019	14545	1664	0.085	0.007	#
17)	4,4'-DDT	0.000	9.141	0	1142	N.D.	0.035	#
18)	Endrin Al...	8.416	9.258	4058	5535	0.027	0.025	
19)	Endosulfa...	8.718	9.449	3436	4055	0.021	0.018	
20)	Methoxychlor	8.543	0.000	1661	0	0.019	N.D.	#
21)	Endrin Ke...	8.913	9.853	2109	5540	0.011	0.022	#
23)	Hexachlor...	3.224	0.000	6869	0	0.034	N.D.	#
24)	Hexachlor...	5.784	6.613	22787	7433	BelowCal	0.023	
25)	Oxychlordane	7.275	8.031f	13155	19724	BelowCal	0.071	
26)	2,4'-DDE	0.000	8.287	0	14140	N.D.	0.067	#
27)	trans-Non...	7.522	0.000	7488	0	BelowCal	N.D.	
28)	2,4'-DDD	7.692f	0.000	818	0	0.006	N.D.	#
29)	2,4'-DDT	7.881	0.000	1003	0	0.007	N.D.	#
30)	cis-Nonac...	7.996	8.914	1601	1747	0.007	0.005	
31)	Mirex	8.665	9.853	2535	5540	~~6723.029~~ Q-DU	BelowCal	#
32)	Chlordane...	7.423	8.287	4671	14140	0.199	0.364	#
33)	Chlordane...	7.522	0.000	7488	0	0.260	N.D.	#
34)	Chlordane...	8.077	9.052	5256	36258	0.691	3.415	#
35)	Chlordane...	3.809	0.000	396017	0	NoCal	N.D.	
36)	Toxaphene...	7.522	0.000	7488	0	7.110	N.D.	#
37)	Toxaphene...	0.000	9.000f	0	15397	N.D.	4.421	#
38)	Toxaphene...	8.122	9.000	14545	15397	BelowCal	BelowCal	
39)	Toxaphene...	0.000	9.052	0	36258	N.D.	4.017	#
40)	Toxaphene...	0.000	9.258	0	5535	N.D.	1.102	#
41)	Toxaphene...	8.665	9.671f	2535	1204	0.584	0.215	#
42)	Toxaphene...	3.809	0.000	396017	0	NoCal	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:26
Operator : MJB
Sample : 0A08041-ICB1
Misc : A19L339
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: Jan 09 14:17:11 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(4) b-BHC

6.306min 5931.981 ng/mL Q-Del

response 9896

MJB 1/9/20

(4) b-BHC #2

0.000min 0.000 ng/mL

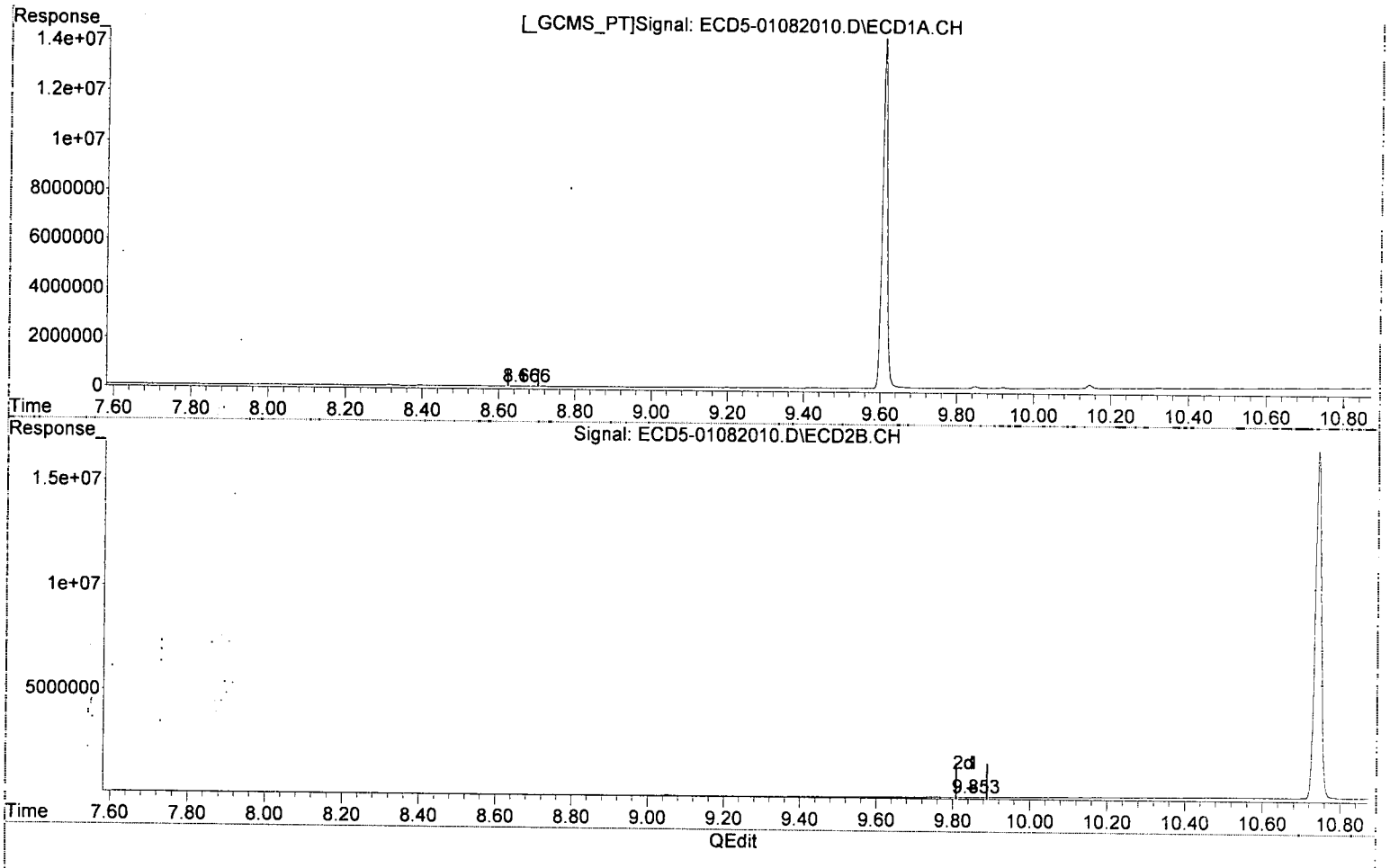
response 0

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:26
Operator : MJB
Sample : 0A08041-ICB1
Misc : A19L339
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: Jan 09 14:17:11 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(31) Mirex

8.665min 6723.029 ng/mL Q DQ

response 2535

MJB 1/9/20

(31) Mirex #2

9.853min -0.238 ng/mL

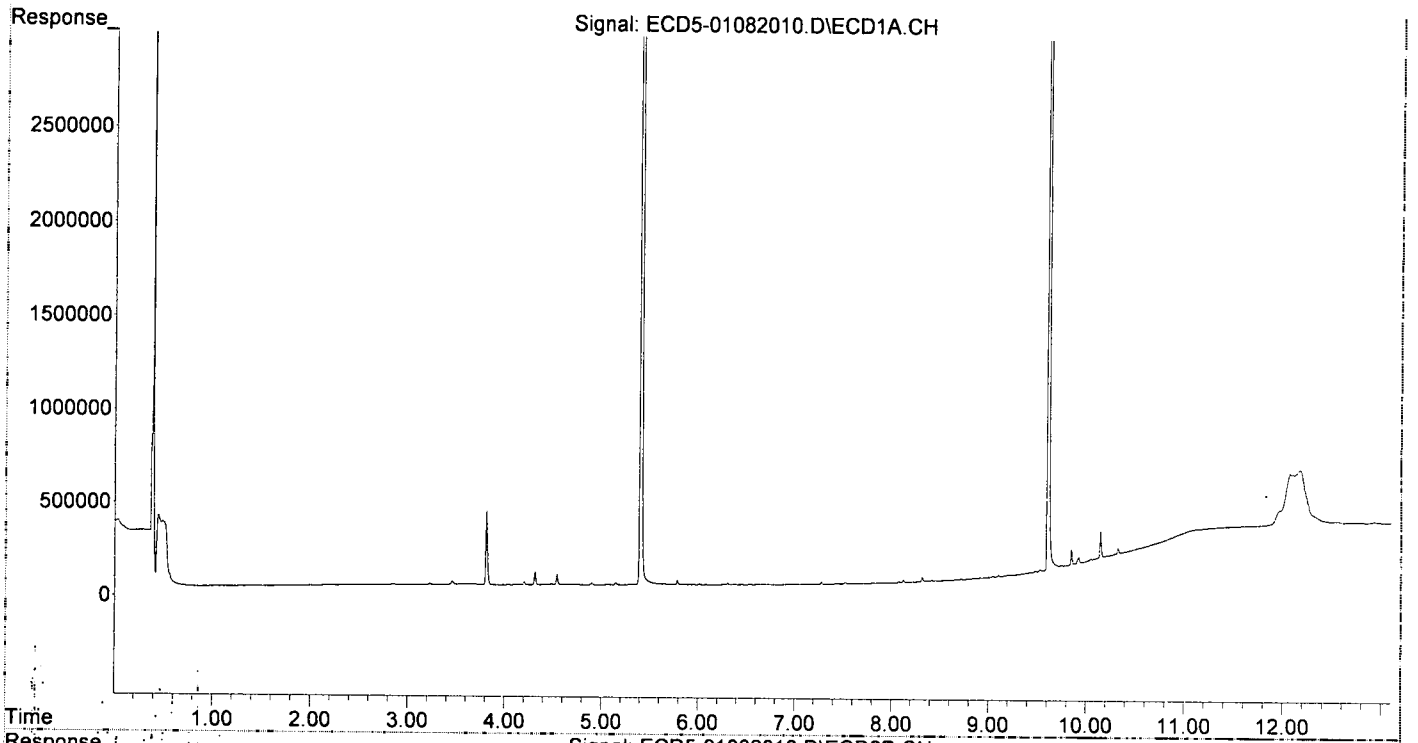
response 5540

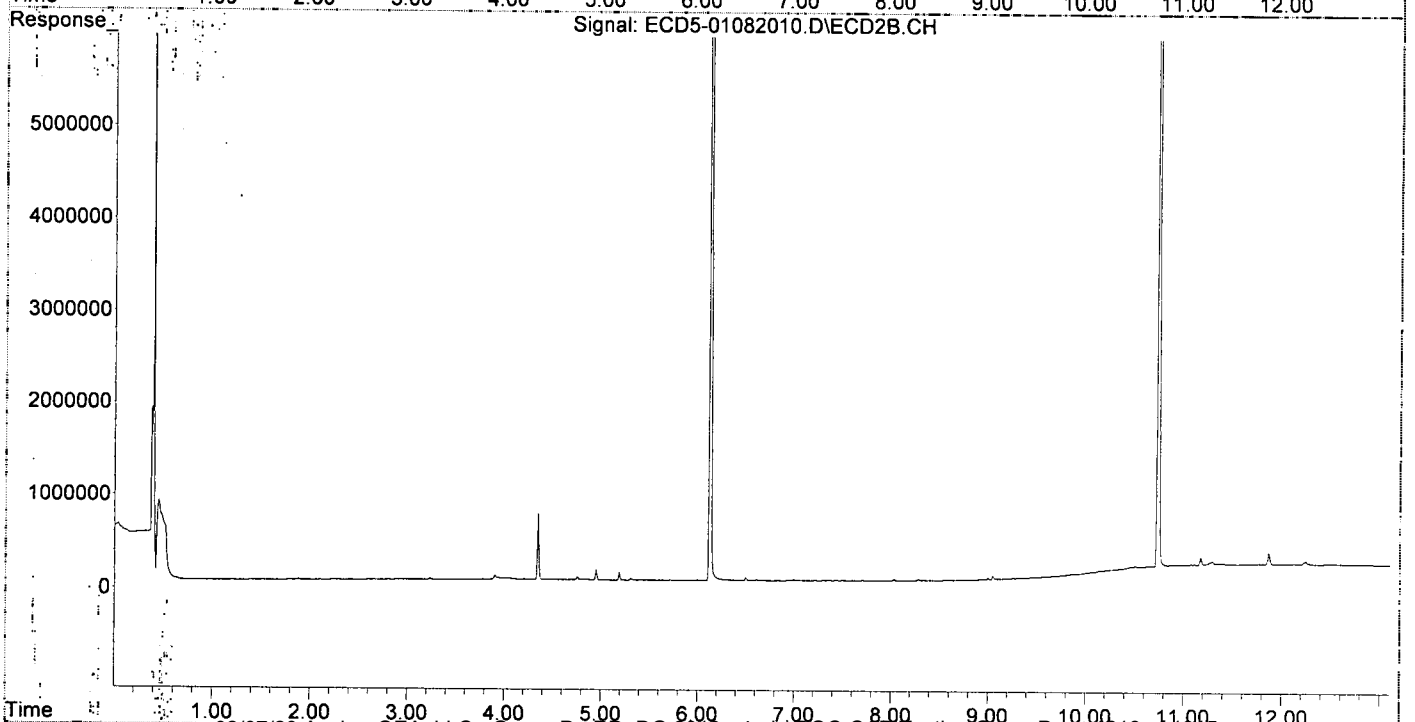
(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:26
Operator : MJB
Sample : 0A08041-ICB1
Misc : A19L339
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: Jan 09 15:19:22 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:24
Operator : MJB
Sample : 0A08041-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: Jan 09 14:17:18 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

clear

MJB 1/9/20

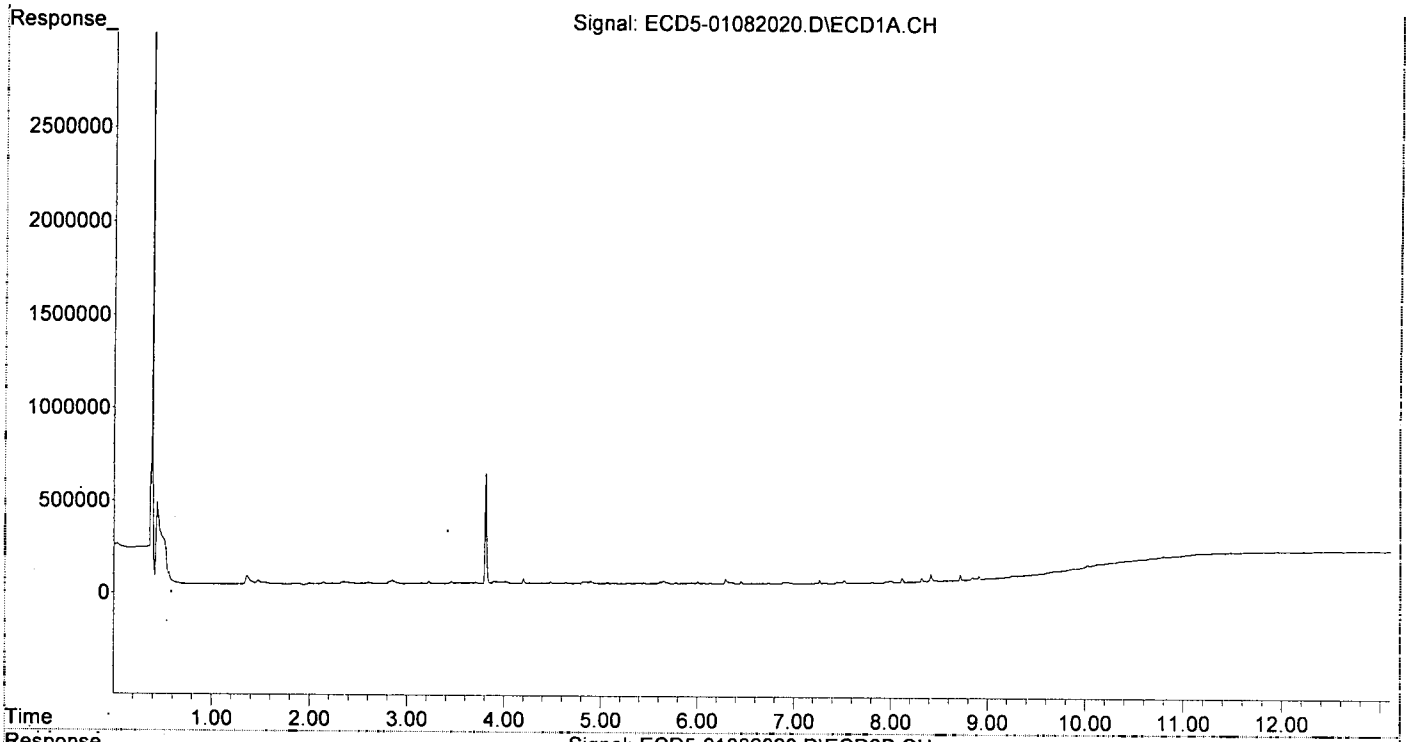
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.407	0.000	3155	0	0.016	N.D.	#
22)	S DCBP (S)	0.000	10.743	0	10635	N.D.	0.060	#
	Target Compounds							
2)	a-BHC	5.942	0.000	6334	0	0.024	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.293	0.000	23325	0	0.070	N.D.	#
5)	Heptachlor	6.676f	0.000	3628	0	0.016	N.D.	#
6)	d-BHC	6.452	7.374	12249	17449	0.056	0.110	#
7)	Aldrin	6.893	0.000	7519	0	0.034	N.D.	#
8)	Heptachlo...	7.304f	0.000	2278	0	0.011	N.D.	#
9)	trans-Chl...	7.447	8.285	6561	14817	0.031	0.048	#
10)	cis-Chlor...	7.521	0.000	14085	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	7.808	8.644	3833	14703	0.018	0.048	#
14)	Endrin	7.967	8.877	6345	7476	0.037	0.032	
15)	4,4'-DDD	7.994f	8.907	8147	4540	0.047	0.018	#
16)	Endosulfa...	8.116	9.021	20423	10539	0.120	0.043	#
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.416	9.258	38642	48088	0.252	0.215	
19)	Endosulfa...	8.718	9.449	29549	33167	0.185	0.150	
20)	Methoxychlor	8.554	0.000	2252	0	0.026	N.D.	#
21)	Endrin Ke...	8.911	9.854	16387	26754	0.086	0.107	
23)	Hexachlor...	3.225	3.822	9749	6689	0.049	0.017	#
24)	Hexachlor...	5.778	6.608	6648	16008	BelowCal	0.050	
25)	Oxychlordane	7.265	0.000	19560	0	BelowCal	N.D.	
26)	2,4'-DDE	7.304f	8.285	2278	14817	0.016	0.070	#
27)	trans-Non...	7.521	0.000	14085	0	BelowCal	N.D.	
28)	2,4'-DDD	0.000	8.644	0	14703	N.D.	0.080	#
29)	2,4'-DDT	0.000	8.877	0	7476	N.D.	BelowCal	
30)	cis-Nonac...	7.994	8.907	8147	4540	0.035	0.013	#
31)	Mirex	0.000	9.854	0	26754	N.D.	BelowCal	
32)	Chlordane...	7.447	8.285	6561	14817	0.280	0.381	
33)	Chlordane...	7.521	0.000	14085	0	0.489	N.D.	#
34)	Chlordane...	8.116f	9.053	20423	26825	2.685	2.526	
35)	Chlordane...	3.810	3.777	591046	5978	NoCal	NoCal	
36)	Toxaphene...	7.521	8.644f	14085	14703	13.373	5.437	#
37)	Toxaphene...	7.808	8.998f	3833	18383	1.971	5.279	#
38)	Toxaphene...	8.116	8.998	20423	18383	0.727	BelowCal	#
39)	Toxaphene...	8.319f	9.053	19690	26825	4.874	2.972	
40)	Toxaphene...	8.554f	9.258	2252	48088	0.685	9.575	#
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)	Toxaphene...	3.810	3.822	591046	6689	NoCal	NoCal	

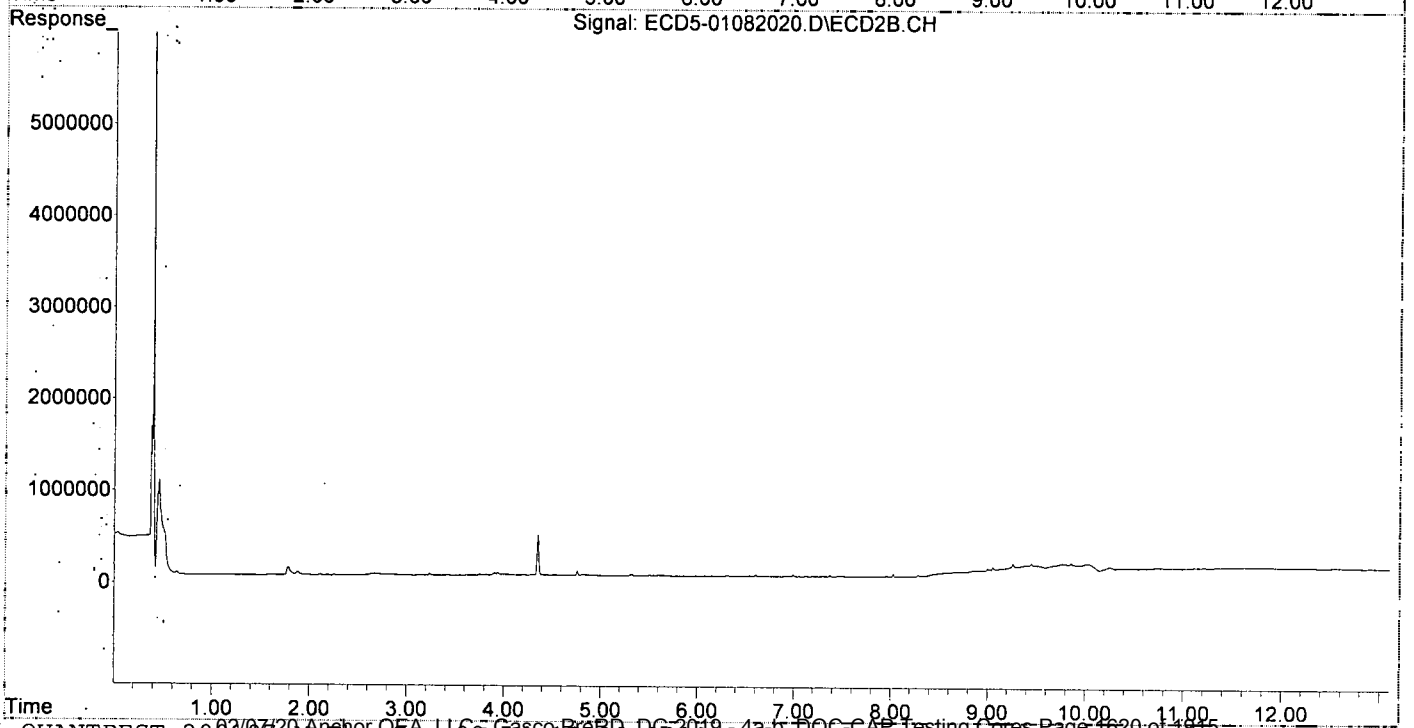
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:24
Operator : MJB
Sample : 0A08041-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: Jan 09 14:17:18 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:42
Operator : MJB
Sample : 0A08041-ICV1
Misc : A19I209, AB 50 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: Jan 09 15:19:34 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

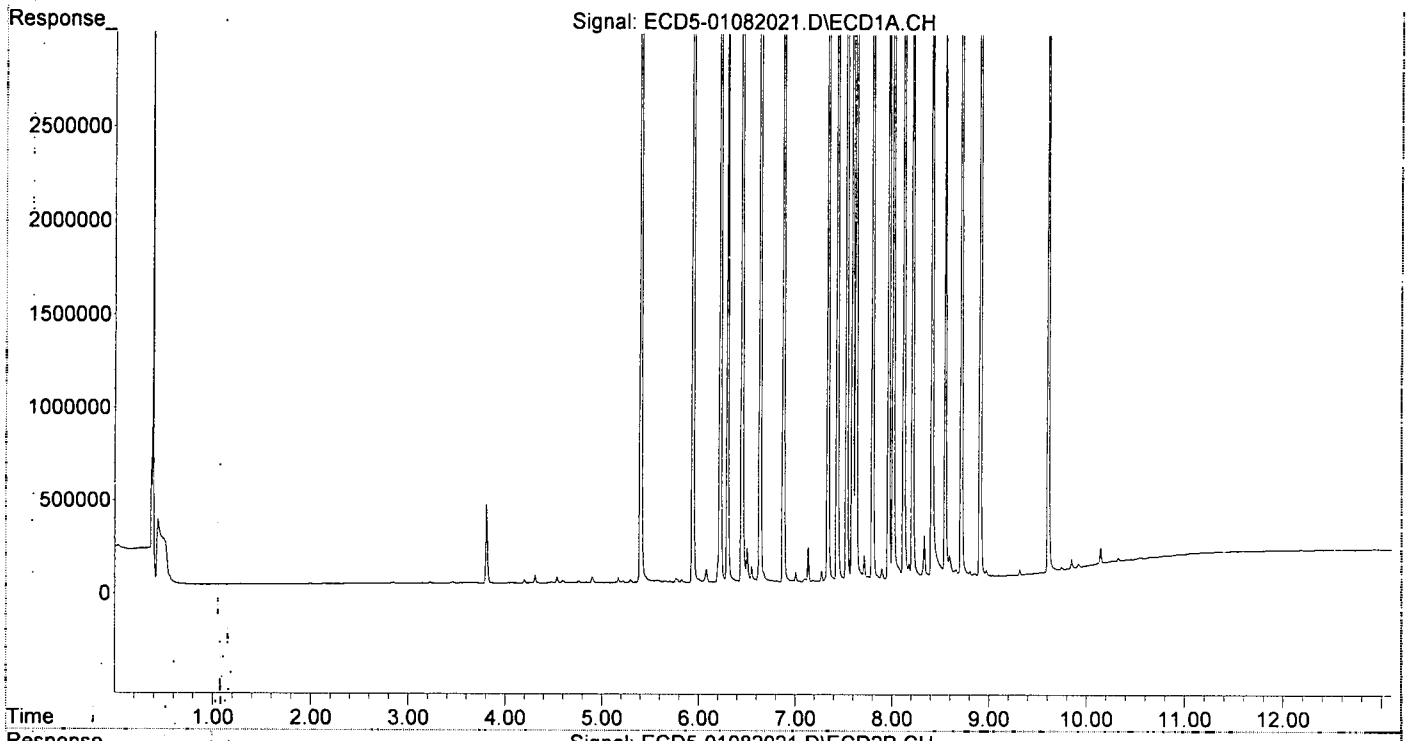
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.402	6.125	9103628	14066594	46.623	47.190	
22)	S DCBP (S)	9.608	10.740	7112275	8081936	47.665	45.418	
	Target Compounds							
2)	a-BHC	5.941	6.733	12790994	21224953	48.605	51.398	
3)	g-BHC	6.225	7.053	11683208	18879724	50.035	51.711	
4)	b-BHC	6.300	7.114	4706924	7535163	48.238	46.844	
5)	Heptachlor	6.637	7.433	10590293	17122257	46.605	48.301	
6)	d-BHC	6.450	7.372	10837514	17920851	49.749	50.404	
7)	Aldrin	6.879	7.703	10814138	16957853	49.013	50.916	
8)	Heptachlo...	7.339	8.141	9791145	15366677	47.494	49.886	
9)	trans-Chl...	7.435	8.282	10221604	15198295	48.508	48.739	
10)	cis-Chlor...	7.532	8.390	9592137	14376121	46.876	48.462	
11)	Endosulfa...	7.629	8.442	9304629	13863731	48.011	49.890	
12)	4,4'-DDE	7.592	8.490	10130543	15472928	49.133	50.116	
13)	Dieldrin	7.801	8.643	10489078	15965611	48.701	51.680	
14)	Endrin	7.966	8.873	8592222	12278386	49.661	52.256	
15)	4,4'-DDD	8.014	8.908	8248067	12471144	47.772	50.736	
16)	Endosulfa...	8.123	9.020	8434356	12701179	49.434	51.990	
17)	4,4'-DDT	8.213	9.137	8208299	12016612	49.549	51.377	
18)	Endrin Al...	8.414	9.257	7950732	12212103	51.927	54.615	
19)	Endosulfa...	8.716	9.448	7923307	11786967	49.509	53.174	
20)	Methoxychlor	8.550	9.615	4148884	5960918	47.904	50.121	
21)	Endrin Ke...	8.910	9.853	9320771	12631849	48.808	50.440	
23)	Hexachlor...	3.224	0.000	5802	0	0.029	N.D.	#
24)	Hexachlor...	5.767	6.610	24739	10021	BelowCal	0.031	
25)	Oxychlordane	7.275	0.000	55008	0	0.112	N.D.	#
26)	2,4'-DDE	7.339	8.282	9791145	15198295	68.666	72.170	
27)	trans-Non...	7.532	8.344	9592137	44865	48.026	0.146	#
28)	2,4'-DDD	7.715	8.643	132532	15965611	1.042	86.563	#
29)	2,4'-DDT	7.897	8.873	57700	12278386	0.394	59.966	#
30)	cis-Nonac...	8.014	8.908	8248067	12471144	34.995	36.557	
31)	Mirex	8.664	9.853	39909	12631849	0.049	67.878	#
32)	Chlordane...	7.435	8.282	10221604	15198295	435.674	390.732	
33)	Chlordane...	7.532	8.390	9592137	14376121	332.820	447.883	
34)	Chlordane...	0.000	9.092f	0	59578	N.D.	5.611	#
35)	Chlordane...	3.808	0.000	418059	0	NoCal	N.D.	
36)	Toxaphene...	7.532f	8.643f	9592137	15965611	9107.422	5903.771	
37)	Toxaphene...	7.801	0.000	10489078	0	5393.774	N.D.	#
38)	Toxaphene...	8.123	9.020	8434356	12701179	1962.925	2103.723	
39)	Toxaphene...	8.335f	9.092	226518	59578	56.068	6.601	#
40)	Toxaphene...	8.595	9.257	118127	12212103	35.929	2431.744	#
41)	Toxaphene...	8.664	9.615	39909	5960918	9.191	1061.764	#
42)	Toxaphene...	3.808	0.000	418059	0	NoCal	N.D.	

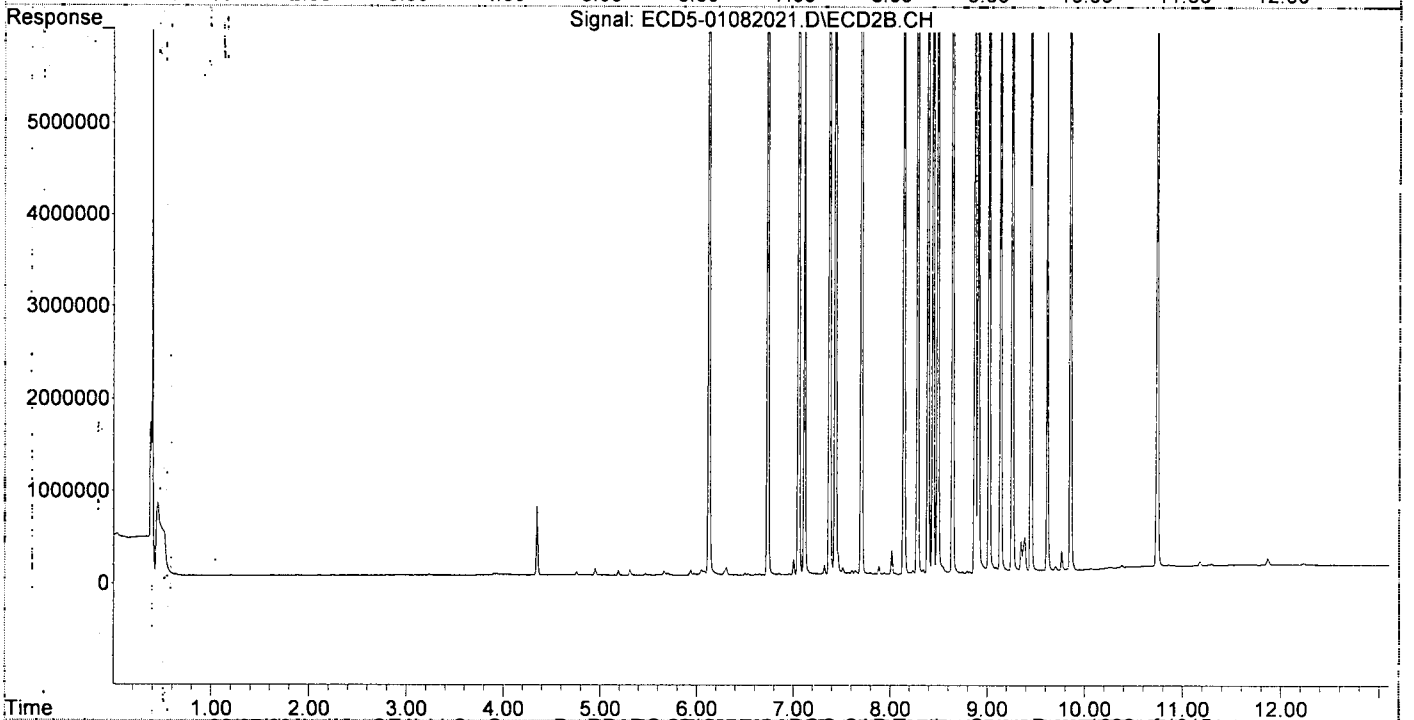
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:42
Operator : MJB
Sample : 0A08041-ICV1
Misc : A19I209, AB 50 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: Jan 09 15:19:34 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 20:33
Operator : MJB
Sample : 0A08041-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: Jan 09 14:17:30 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Clear

MJB 1/9/20

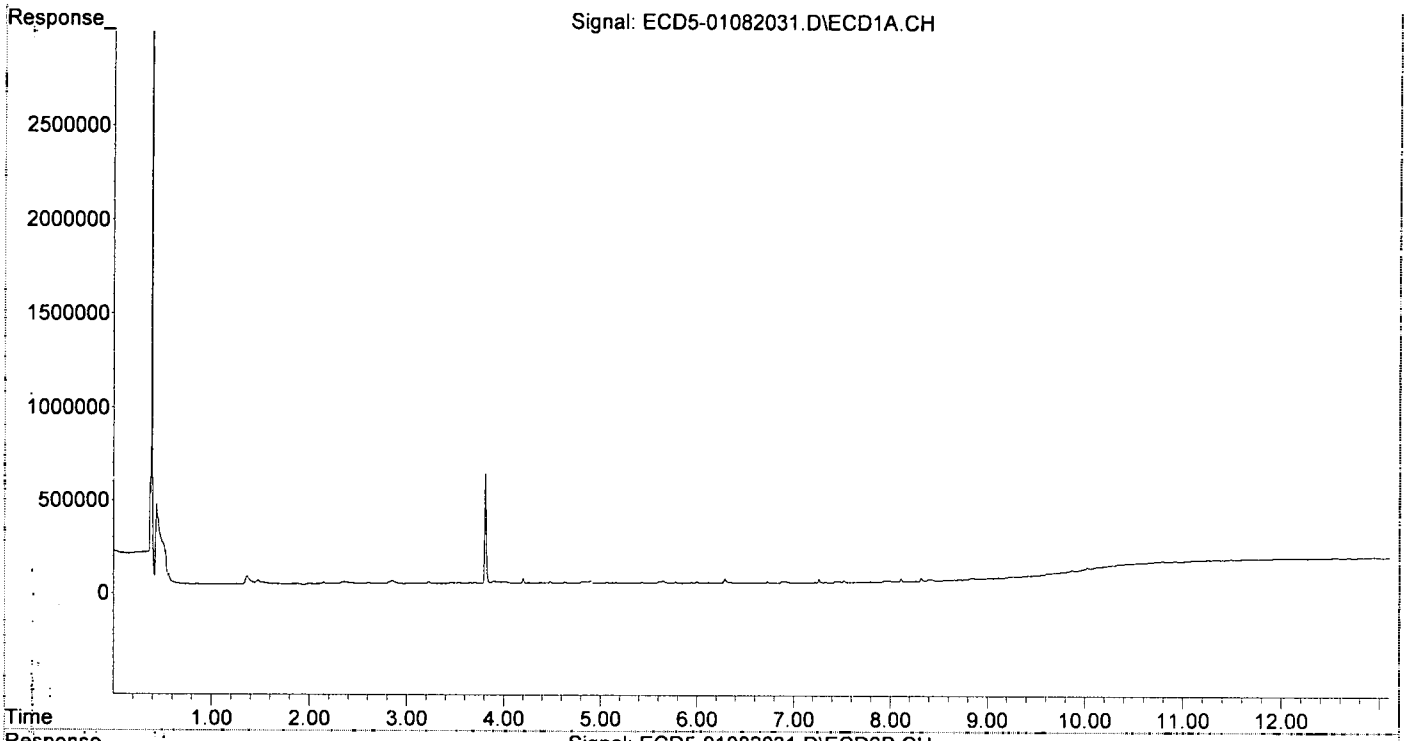
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.433f	0.000	5598	0	0.029	N.D.	#
22)	S DCBP (S)	9.611	10.744	10150	4503	8131.917	0.025	#
	Target Compounds							
2)	a-BHC	5.941	0.000	5055	0	0.019	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.291	0.000	22364	0	0.061	N.D.	#
5)	Heptachlor	6.674f	0.000	3785	0	0.017	N.D.	#
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)	Aldrin	6.882	0.000	8653	0	0.039	N.D.	#
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	7.436	8.282	7357	13631	0.035	0.044	
10)	cis-Chlor...	7.520	8.389	11723	3404	0.057	0.011	#
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	8.642	0	5313	N.D.	0.017	#
14)	Endrin	7.965	8.911f	5834	5682	0.034	0.024	
15)	4,4'-DDD	7.993f	8.911	8759	5682	0.051	0.023	#
16)	Endosulfa...	8.111	8.995f	17658	25073	0.103	0.103	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.413	9.257	9045	7452	0.059	0.033	#
19)	Endosulfa...	8.716	0.000	3724	0	0.023	N.D.	#
20)	Methoxychlor	8.558	9.613	990	4034	0.011	0.034	#
21)	Endrin Ke...	8.910	9.851	3001	12022	0.016	0.048	#
23)	Hexachlor...	3.225f	3.812	10570	6895	0.053	0.017	#
24)	Hexachlor...	5.778	6.605	7733	18943	BelowCal	0.059	
25)	Oxychlordane	7.263	0.000	20987	0	BelowCal	N.D.	
26)	2,4'-DDE	0.000	8.282	0	13631	N.D.	0.065	#
27)	trans-Non...	7.520	0.000	11723	0	BelowCal	N.D.	
28)	2,4'-DDD	0.000	8.642	0	5313	N.D.	0.029	#
29)	2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
30)	cis-Nonac...	7.993	8.911	8759	5682	0.037	0.017	#
31)	Mirex	8.664	9.851	2560	12022	6723.028	BelowCal	#
32)	Chlordane...	7.436	8.282	7357	13631	0.314	0.350	
33)	Chlordane...	7.520	8.389	11723	3404	0.407	0.106	#
34)	Chlordane...	8.111f	9.052	17658	31858	2.321	3.000	
35)	Chlordane...	3.810	3.812	587214	6895	NoCal	NoCal	
36)	Toxaphene...	7.520	8.642f	11723	5313	11.131	1.964	#
37)	Toxaphene...	0.000	8.995f	0	25073	N.D.	7.200	#
38)	Toxaphene...	8.111	8.995	17658	25073	0.065	0.939	#
39)	Toxaphene...	8.319f	9.052f	16925	31858	4.189	3.530	
40)	Toxaphene...	8.591	9.257	617	7452	0.188	1.484	#
41)	Toxaphene...	8.664	9.646	2560	2177	0.590	0.388	
42)	Toxaphene...	3.810	3.812	587214	6895	NoCal	NoCal	

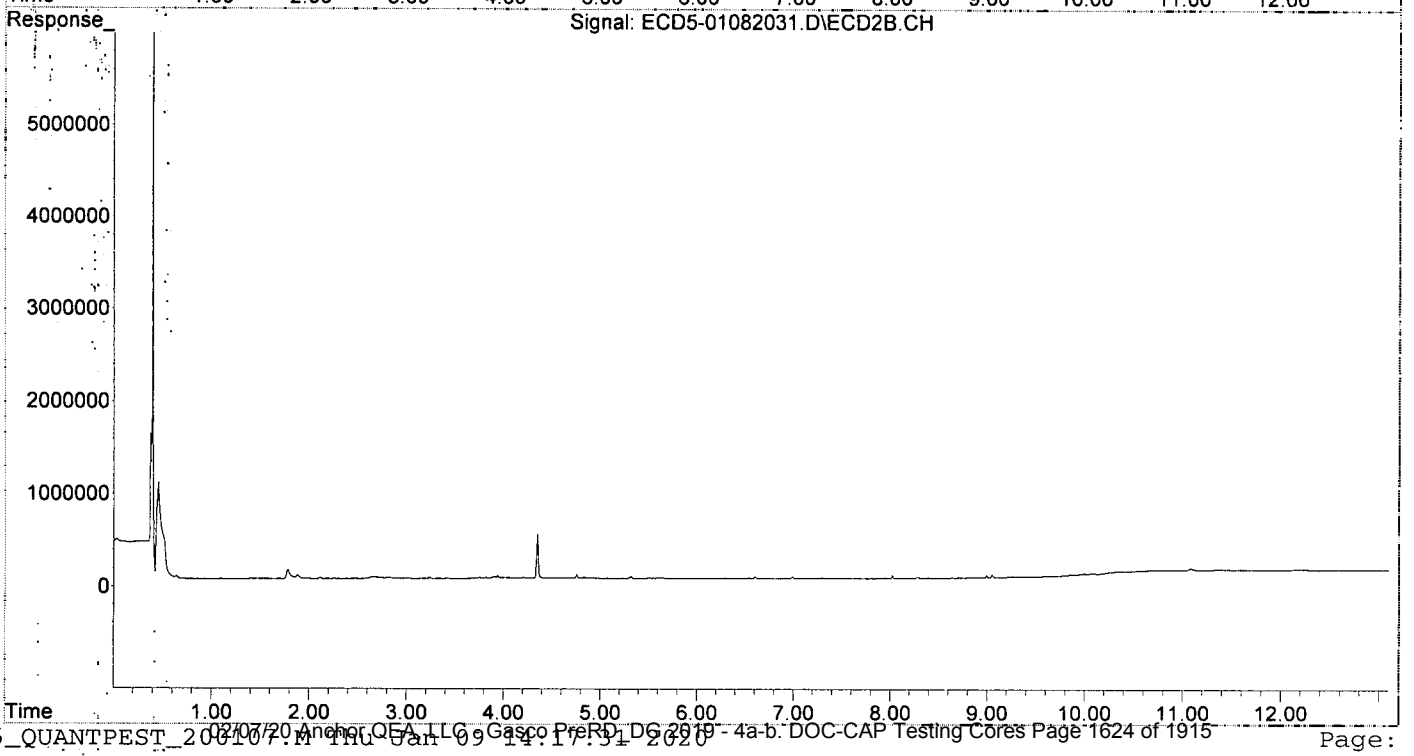
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 20:33
Operator : MJB
Sample : 0A08041-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: Jan 09 14:17:30 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 20:50
Operator : MJB
Sample : 0A08041-ICV2
Misc : A19J410, 9-42 50 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: Jan 09 14:17:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

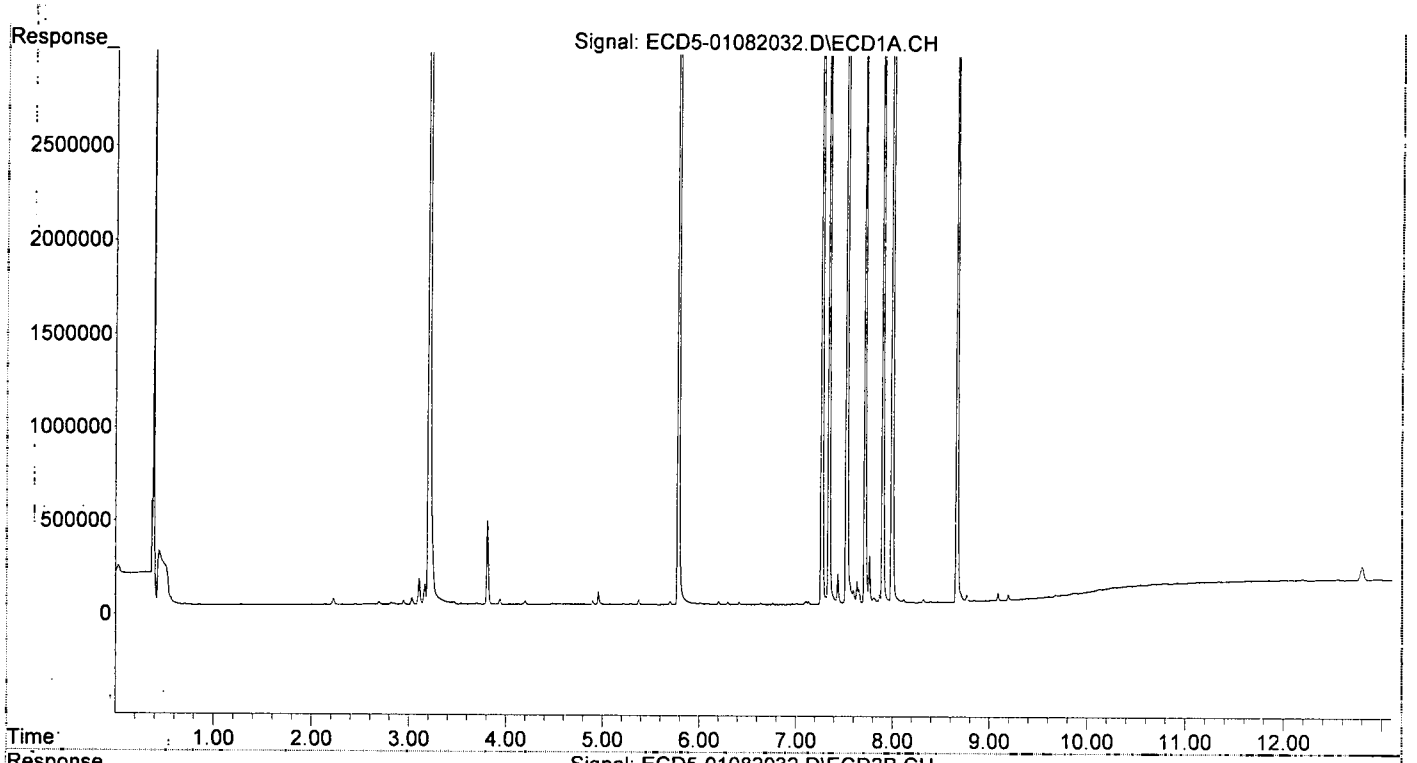
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.376f	6.123	25167	13037	0.129	0.044	#
22)	S	DCBP (S)	9.607	0.000	7014	0	8131.938	N.D.	#
		Target Compounds							
2)		a-BHC	5.947	0.000	7607	0	0.029	N.D.	#
3)		g-BHC	6.203f	0.000	15439	0	0.066	N.D.	#
4)		b-BHC	6.298	0.000	13249	0	5931.867	N.D.	#
5)		Heptachlor	6.639	7.433	8749	13294	0.039	0.038	
6)		d-BHC	6.416f	0.000	12607	0	0.058	N.D.	#
7)		Aldrin	0.000	7.703	0	18523	N.D.	0.056	#
8)		Heptachlo...	7.342	8.116f	6694017	32673	32.471	0.106	#
9)		trans-Chl...	7.436	8.269	158249	10510336	0.751	33.705	#
10)		cis-Chlor...	7.525	8.390	10195026	501217	49.822	1.690	#
11)		Endosulfa...	7.635	8.461	120882	21669	0.624	0.078	#
12)		4,4'-DDE	7.596	8.461f	71466	21669	0.347	0.108	#
13)		Dieldrin	7.809	8.643	30332	9201062	0.141	29.784	#
14)		Endrin	7.996f	8.870	10954602	10194467	63.315	43.387	
15)		4,4'-DDD	7.996f	8.914	10954602	16802825	63.448	68.358	
16)		Endosulfa...	8.117	8.997f	19840	27498	0.116	0.113	
17)		4,4'-DDT	8.214	9.135	5452	6193	0.033	0.116	#
18)		Endrin Al...	8.394f	9.262	5487	5803	0.036	0.026	
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...	8.910	9.850	1754	9090504	0.009	36.299	#
23)		Hexachlor...	3.207	3.815	10072232	21112946	50.501	52.687	
24)		Hexachlor...	5.785	6.596	9669445	15917355	50.014	49.726	
25)		Oxychlordane	7.269	8.070	8984587	14293373	51.023	51.104	
26)		2,4'-DDE	7.342	8.269	6694017	10510336	46.945	49.909	
27)		trans-Non...	7.525	8.345	10195026	15779786	51.040	51.318	
28)		2,4'-DDD	7.715	8.643	6105769	9201062	47.989	49.887	
29)		2,4'-DDT	7.899	8.870	6895039	10194467	47.073	50.569	
30)		cis-Nonac...	7.996	8.914	10954602	16802825	46.478	49.255	
31)		Mirex	8.665	9.850	6553927	9090504	48.699	49.703	
32)		Chlordane...	7.436	8.269	158249	10510336	6.745	270.210	#
33)		Chlordane...	7.525	8.390	10195026	501217	353.739	15.615	#
34)		Chlordane...	8.117f	9.052	19840	33600	2.608	3.165	
35)		Chlordane...	3.810	3.815	447351	21112946	NoCal	NoCal	
36)		Toxaphene...	7.525	8.643f	10195026	9201062	9679.846	3402.373	#
37)		Toxaphene...	7.809	8.997f	30332	27498	15.598	7.896	#
38)		Toxaphene...	8.117	8.997	19840	27498	0.587	1.413	#
39)		Toxaphene...	8.394f	9.052f	5487	33600	1.358	3.723	#
40)		Toxaphene...	0.000	9.262	0	5803	N.D.	1.156	#
41)		Toxaphene...	8.665	0.000	6553927	0	1509.301	N.D.	#
42)		Toxaphene...	3.810	3.815	447351	21112946	NoCal	NoCal	

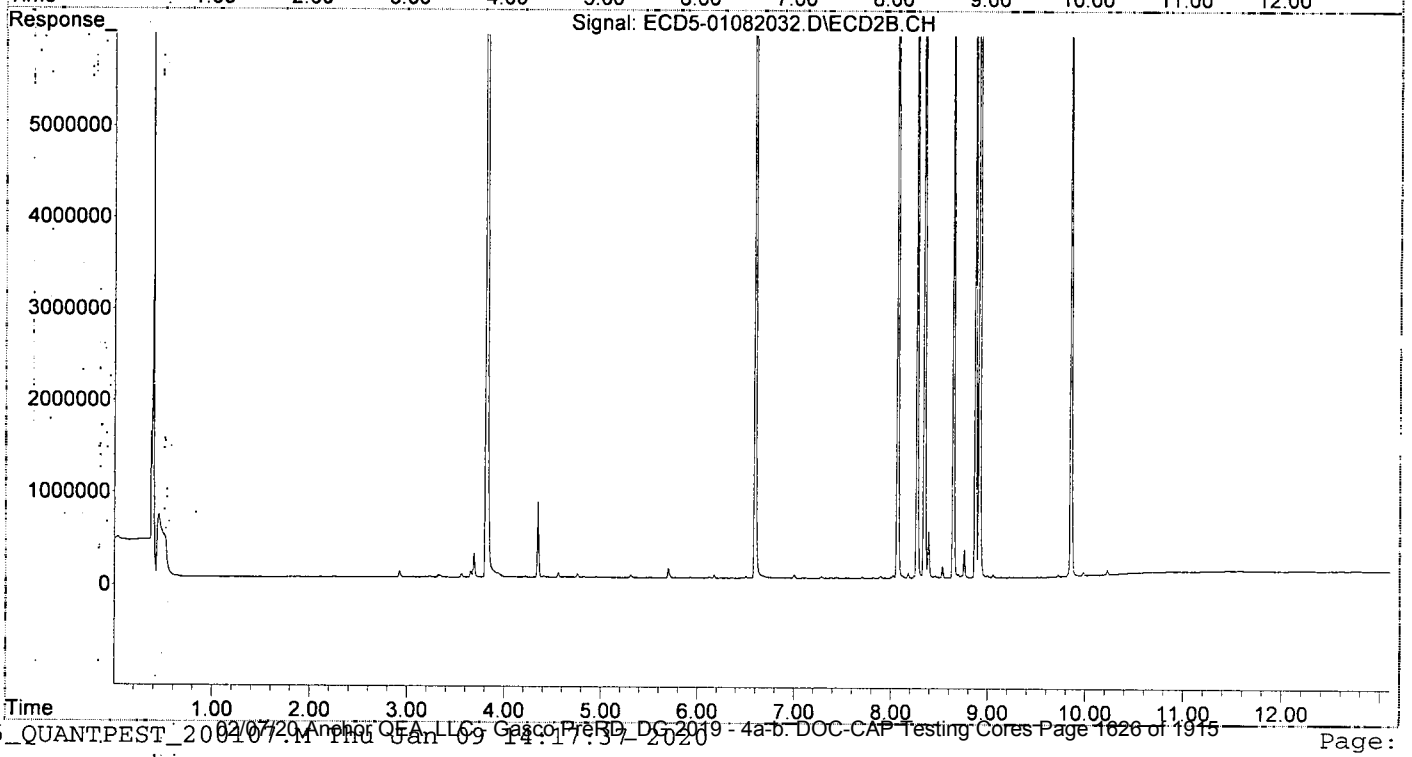
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 20:50
Operator : MJB
Sample : 0A08041-ICV2
Misc : A19J410, 9-42 50 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: Jan 09 14:17:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:07
Operator : MJB
Sample : 0A08041-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: Jan 09 14:17:42 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Clean

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.431f	0.000	5524	0	0.028	N.D.	#
22)	S DCBP (S)	9.607	10.744	12785	3537	8131.900	0.020	#
	Target Compounds							
2)	a-BHC	5.942	0.000	4990	0	0.019	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.291	0.000	22514	0	0.062	N.D.	#
5)	Heptachlor	6.674f	0.000	3691	0	0.016	N.D.	#
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)	Aldrin	6.882	0.000	9215	0	0.042	N.D.	#
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	7.435	8.283	9061	14462	0.043	0.046	
10)	cis-Chlor...	7.522	8.388	11351	5119	0.055	0.017	#
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	7.789	0.000	2902	0	0.013	N.D.	#
14)	Endrin	7.964	0.000	5653	0	0.033	N.D.	#
15)	4,4'-DDD	7.992f	0.000	4934	0	0.029	N.D.	#
16)	Endosulfa...	8.112	8.996f	18004	25076	0.106	0.103	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.413	9.257	8551	5515	0.056	0.025	#
19)	Endosulfa...	8.717	9.448	3254	3683	0.020	0.017	
20)	Methoxychlor	8.584f	9.583f	646	2988	0.007	0.025	#
21)	Endrin Ke...	8.910	9.852	2279	5952	0.012	0.024	#
23)	Hexachlor...	3.225f	3.812	11744	7072	0.059	0.018	#
24)	Hexachlor...	5.778	6.606	6979	18274	BelowCal	0.057	
25)	Oxychlordane	7.263	0.000	20092	0	BelowCal	N.D.	
26)	2,4'-DDE	0.000	8.283	0	14462	N.D.	0.069	#
27)	trans-Non...	7.522	0.000	11351	0	BelowCal	N.D.	
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)	2,4'-DDT	7.932f	0.000	6317	0	0.043	N.D.	#
30)	cis-Nonac...	7.992	0.000	4934	0	0.021	N.D.	#
31)	Mirex	0.000	9.852	0	5952	N.D.	BelowCal	
32)	Chlordane...	7.435	8.283	9061	14462	0.386	0.372	
33)	Chlordane...	7.522	8.388	11351	5119	0.394	0.159	#
34)	Chlordane...	8.112f	9.053	18004	30330	2.367	2.857	
35)	Chlordane...	3.810	3.812	578025	7072	NoCal	NoCal	
36)	Toxaphene...	7.522	0.000	11351	0	10.777	N.D.	#
37)	Toxaphene...	7.789	8.996f	2902	25076	1.493	7.201	#
38)	Toxaphene...	8.112	8.996	18004	25076	0.148	0.939	#
39)	Toxaphene...	8.320f	9.053	16287	30330	4.031	3.360	
40)	Toxaphene...	8.584	9.257	646	5515	0.197	1.098	#
41)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42)	Toxaphene...	3.810	3.812	578025	7072	NoCal	NoCal	

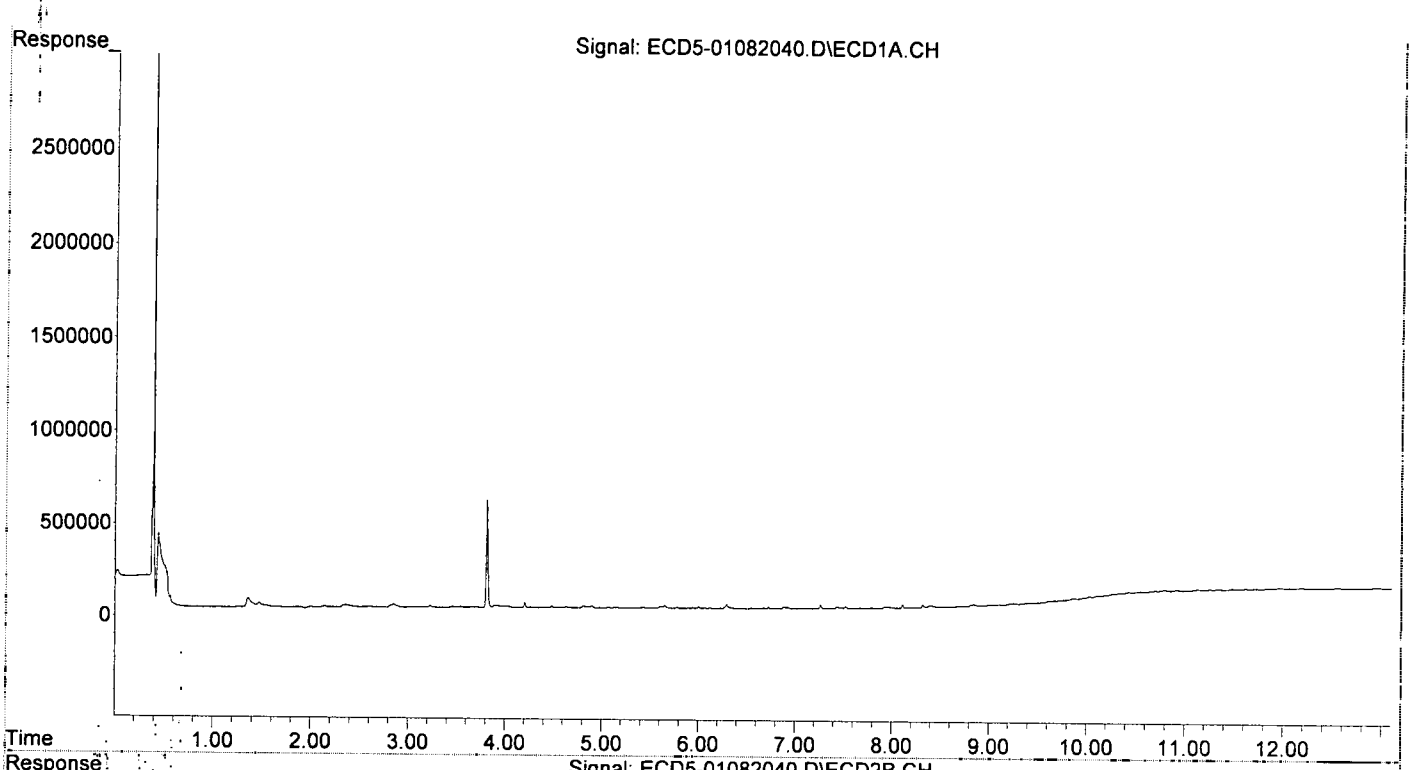
MJB 1/9/20

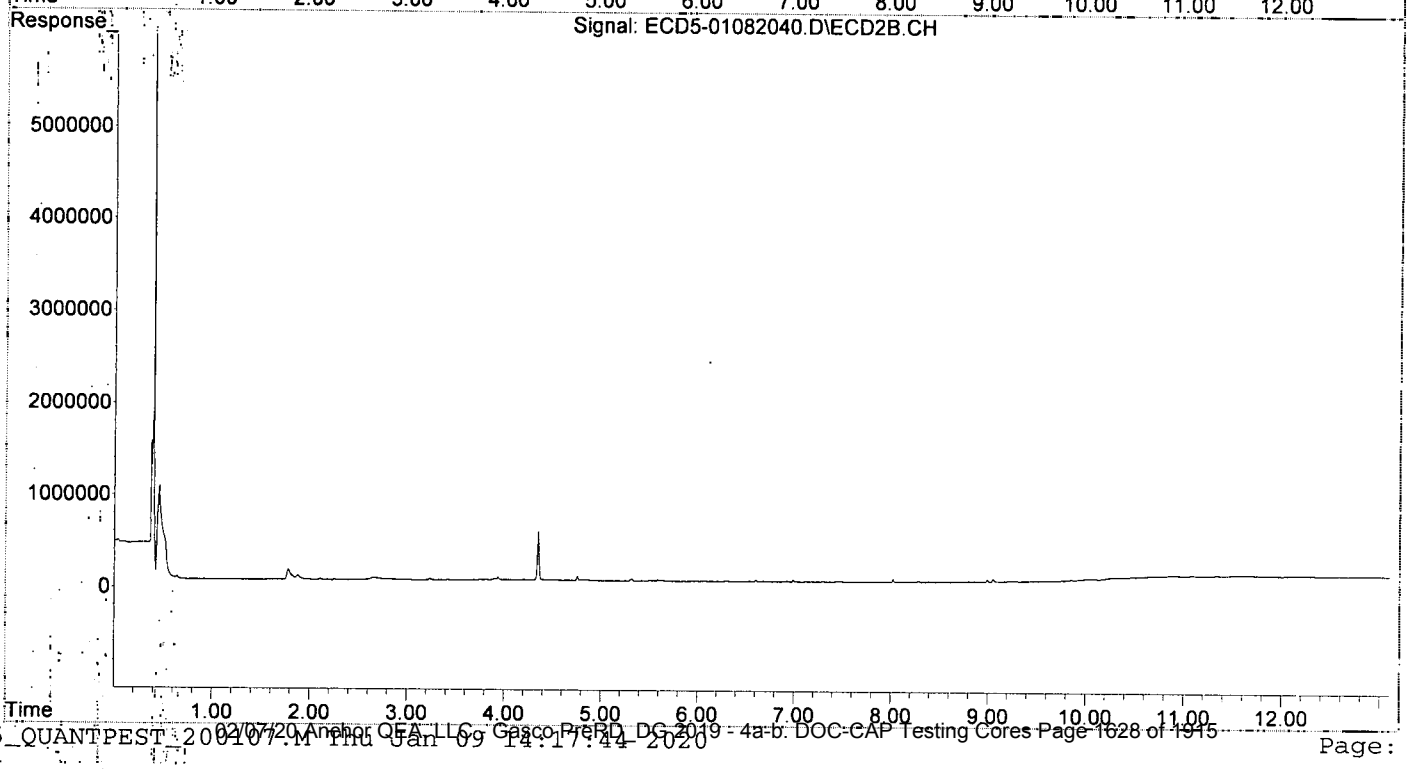
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:07
Operator : MJB
Sample : 0A08041-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: Jan 09 14:17:42 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:24
Operator : MJB
Sample : 0A08041-ICV3
Misc : A19K312, CHLOR 500 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: Jan 09 14:17:48 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.124	0	10486	N.D.	0.035	#
22)	S	DCBP (S)	9.616	10.754	25442	5308	0.015	0.030	#
		Target Compounds							
2)		a-BHC	5.911f	6.761f	10062	353809	0.038	0.857	#
3)		g-BHC	6.246	7.064	11488	181584	0.049	0.497	#
4)		b-BHC	6.328f	7.100	144854	86205	1.310	0.536	#
5)		Heptachlor	6.637	7.433	5422846	8713879	23.864	24.582	
6)		d-BHC	6.418f	7.363	410659	59133	1.885	0.234	#
7)		Aldrin	6.883	7.702	77062	103060	0.349	0.309	
8)		Heptachlo...	7.348	8.159	869763	466536	4.219	1.515	#
9)		trans-Chl...	7.436	8.281	11710233	19966791	55.573	64.031	
10)		cis-Chlor...	7.530	8.389	13828969	16278342	67.581	54.874	
11)		Endosulfa...	7.649	8.465f	311472	310110	1.607	1.116	
12)		4,4'-DDE	7.588	8.484	345577	441449	1.676	1.548	
13)		Dieldrin	7.817	8.644	386347	1634017	1.794	5.289	#
14)		Endrin	7.995f	8.852f	2016713	790482	11.656	3.364	#
15)		4,4'-DDD	7.995f	8.914	2016713	2906392	11.681	11.824	
16)		Endosulfa...	8.129	9.029	244476	322376	1.433	1.320	
17)		4,4'-DDT	8.254f	9.149	694660	97300	4.193	0.536	#
18)		Endrin Al...	8.440f	9.228f	80944	93879	0.529	0.420	
19)		Endosulfa...	8.722	9.433	153288	13800	0.958	0.062	#
20)		Methoxychlor	8.565	9.621	79652	16072	0.920	0.135	#
21)		Endrin Ke...	8.905	9.854	22990	166987	0.120	0.667	#
23)		Hexachlor...	3.226f	0.000	8040	0	0.040	N.D.	#
24)		Hexachlor...	5.775	6.607	7557	13836	BelowCal	0.043	
25)		Oxychlordane	7.263	8.082	124974	261108	0.513	0.934	#
26)		2,4'-DDE	7.348	8.281	869763	19966791	6.100	94.813	#
27)		trans-Non...	7.530	8.345	13828969	14871810	69.177	48.365	
28)		2,4'-DDD	7.685f	8.644	928281	1634017	7.296	8.859	
29)		2,4'-DDT	7.924f	8.852	325252	790482	2.221	4.162	#
30)		cis-Nonac...	7.995	8.914	2016713	2906392	8.556	8.520	
31)		Mirex	8.656	9.854	30302	166987	6722.823	0.697	#
32)		Chlordane...	7.436	8.281	11710233	19966791	499.123	513.325	
33)		Chlordane...	7.530	8.389	13828969	16278342	479.827	507.146	
34)		Chlordane...	8.079	9.057	3785041	5213363	497.535	491.005	
35)		Chlordane...	3.810	0.000	427334	0	NoCal	N.D.	
36)		Toxaphene...	7.530	8.644f	13828969	1634017	13130.157	604.228	#
37)		Toxaphene...	7.817	8.969	386347	486622	198.670	139.731	
38)		Toxaphene...	8.129	9.009	244476	403845	54.307	74.518	
39)		Toxaphene...	8.359	9.057	160843	5213363	39.812	577.615	#
40)		Toxaphene...	8.565f	9.228f	79652	93879	24.227	18.694	
41)		Toxaphene...	8.656	9.621	30302	16072	6.978	2.863	#
42)		Toxaphene...	3.810	0.000	427334	0	NoCal	N.D.	

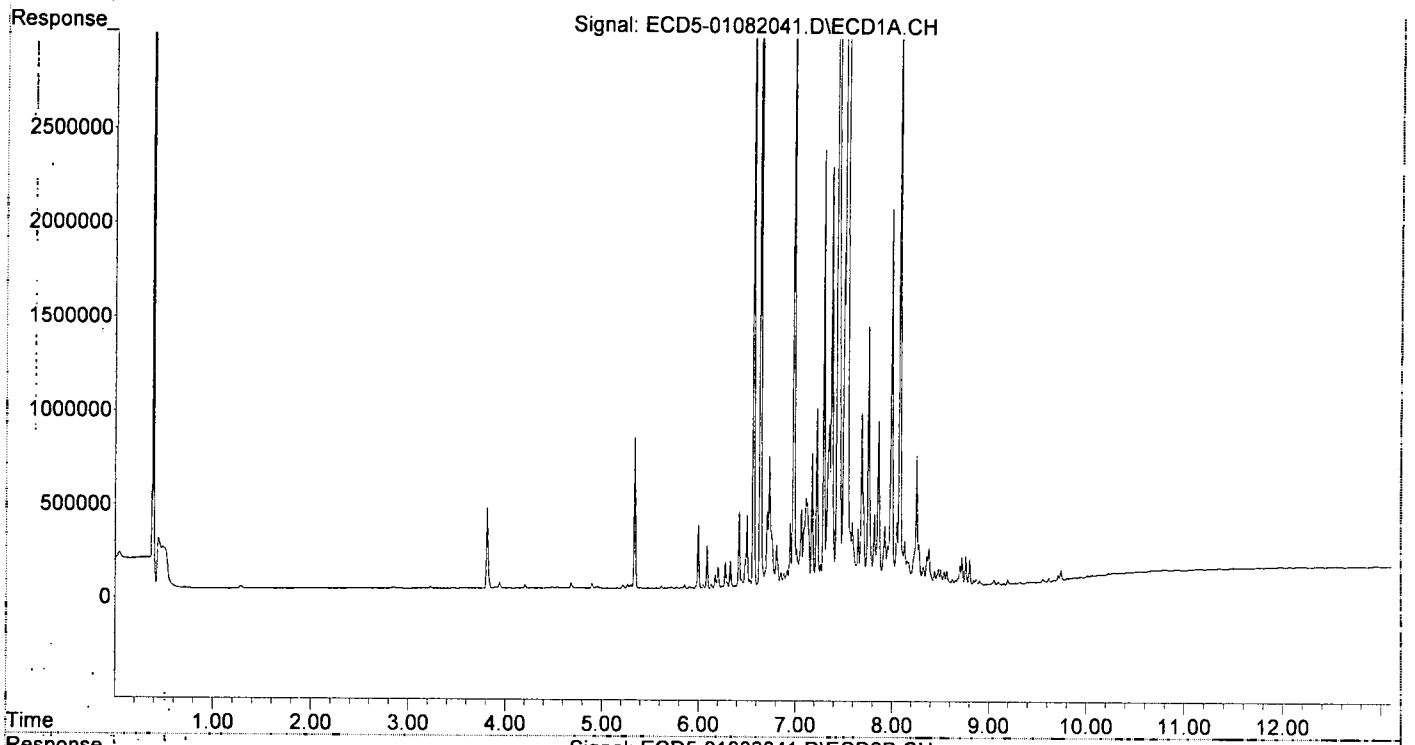
A 492.16 B 503.83

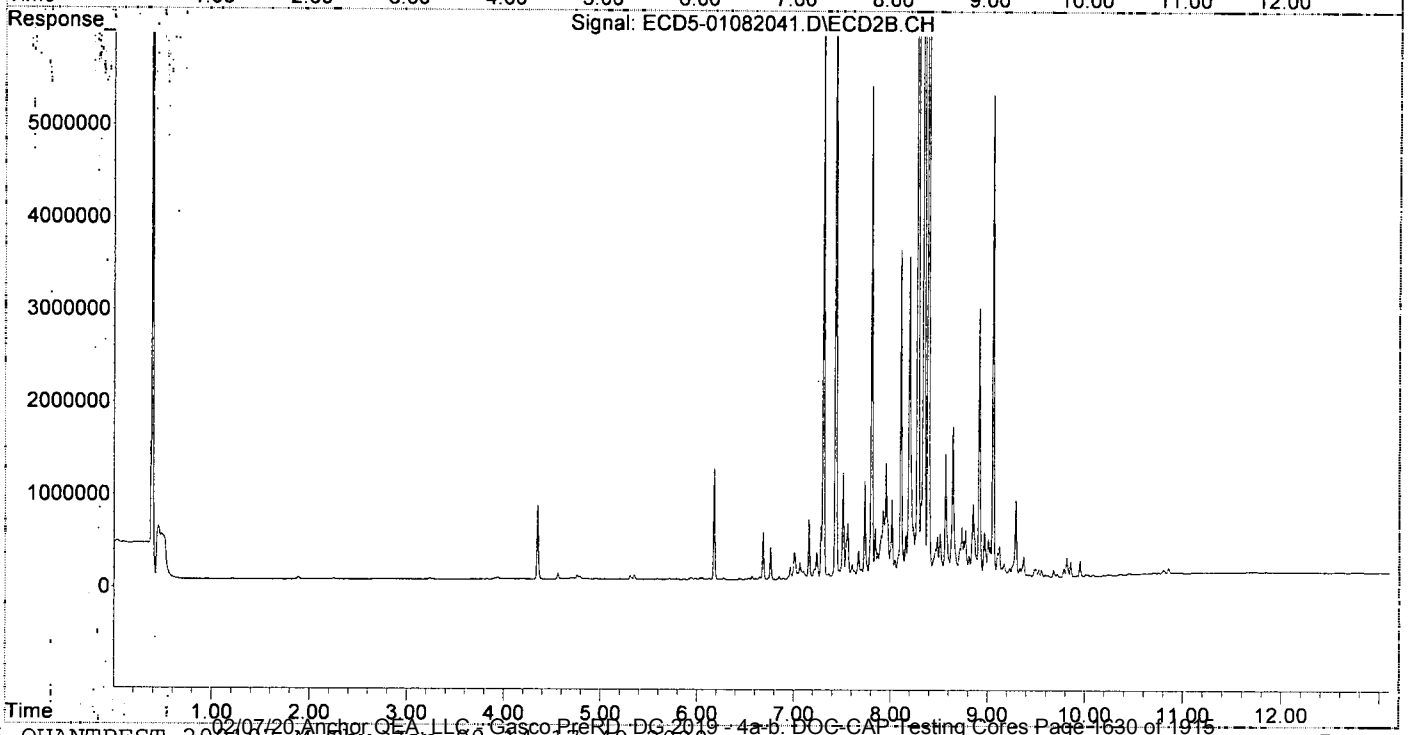
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:24
Operator : MJB
Sample : 0A08041-ICV3
Misc : A19K312, CHLOR 500 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: Jan 09 14:17:48 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 1:41
Operator : MJB
Sample : 0A08041-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: Jan 09 14:17:54 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

clean

MJB 1/9/20

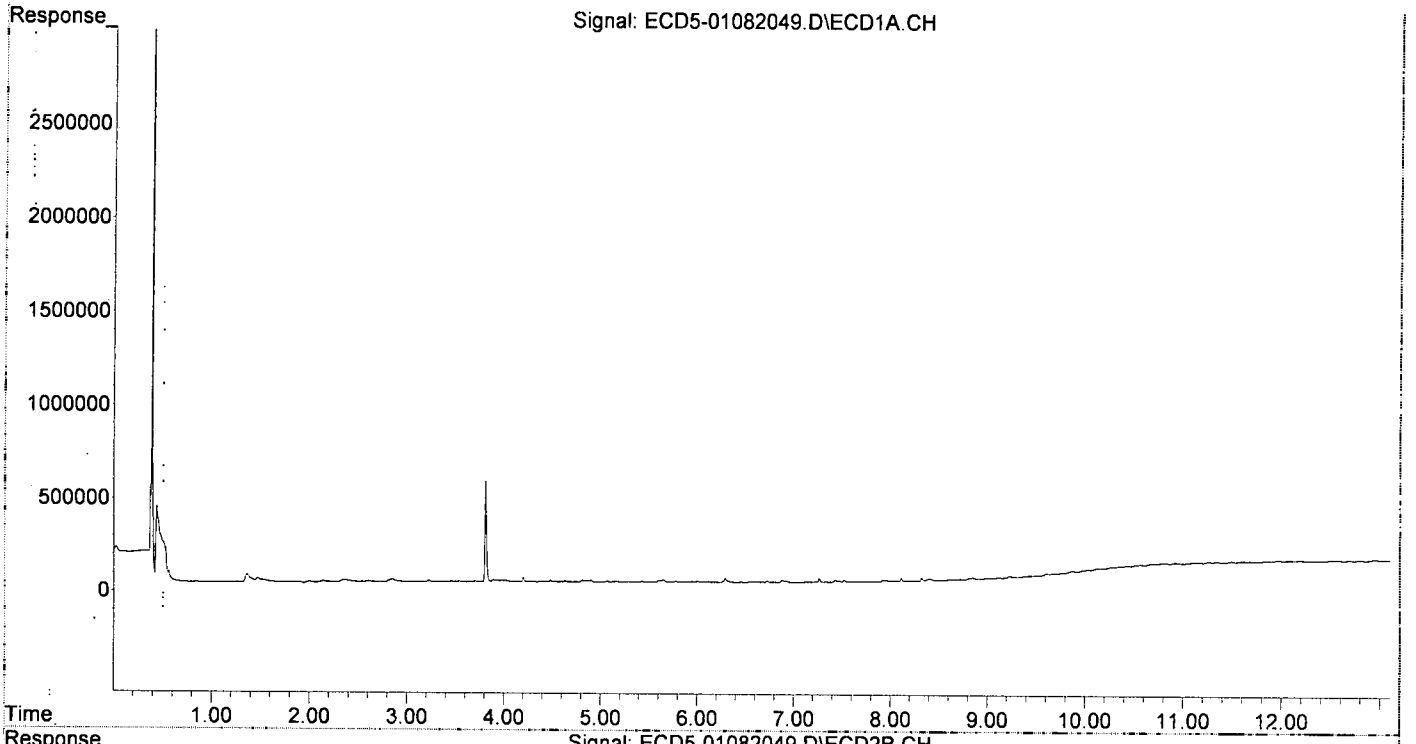
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.428f	0.000	5811	0	0.030	N.D.	#
22)	S DCBP (S)	9.605	10.714f	12113	18262	8131.904	0.103	#
	Target Compounds							
2)	a-BHC	5.942	0.000	4960	0	0.019	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.291	0.000	21552	0	0.052	N.D.	#
5)	Heptachlor	6.674f	0.000	3448	0	0.015	N.D.	#
6)	d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7)	Aldrin	6.881	0.000	8894	0	0.040	N.D.	#
8)	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
9)	trans-Chl...	7.431	8.283	7434	12435	0.035	0.040	
10)	cis-Chlor...	7.521	8.389	9040	3275	0.044	0.011	#
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	7.782f	0.000	2818	0	0.013	N.D.	#
14)	Endrin	7.996f	0.000	2334	0	0.013	N.D.	#
15)	4,4'-DDD	7.996f	0.000	2334	0	0.014	N.D.	#
16)	Endosulfa...	8.111	8.996f	16671	24032	0.098	0.098	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.412	9.256	7986	5162	0.052	0.023	#
19)	Endosulfa...	8.717	9.448	2975	3747	0.019	0.017	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.910	0.000	2156	0	0.011	N.D.	#
23)	Hexachlor...	3.225f	3.814	10276	7117	0.052	0.018	#
24)	Hexachlor...	5.777	6.606	6345	17600	BelowCal	0.055	
25)	Oxychlordane	7.263	0.000	19737	0	BelowCal	N.D.	
26)	2,4'-DDE	0.000	8.283	0	12435	N.D.	0.059	#
27)	trans-Non...	7.521	0.000	9040	0	BelowCal	N.D.	
28)	2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.	
29)	2,4'-DDT	7.925f	0.000	5911	0	0.040	N.D.	#
30)	cis-Nonac...	7.996	0.000	2334	0	0.010	N.D.	#
31)	Mirex	8.687f	0.000	2088	0	6723.032	N.D.	#
32)	Chlordane...	7.431	8.283	7434	12435	0.317	0.320	
33)	Chlordane...	7.521	8.389	9040	3275	0.314	0.102	#
34)	Chlordane...	8.111f	9.053	16671	29371	2.191	2.766	
35)	Chlordane...	3.810	3.814	541313	7117	NoCal	NoCal	
36)	Toxaphene...	7.521	0.000	9040	0	8.583	N.D.	#
37)	Toxaphene...	7.782f	8.996f	2818	24032	1.449	6.901	#
38)	Toxaphene...	8.111	8.996	16671	24032	BelowCal	0.735	
39)	Toxaphene...	8.321f	9.053	15505	29371	3.838	3.254	
40)	Toxaphene...	8.600	9.256	641	5162	0.195	1.028	#
41)	Toxaphene...	8.687f	0.000	2088	0	0.481	N.D.	#
42)	Toxaphene...	3.810	3.814	541313	7117	NoCal	NoCal	

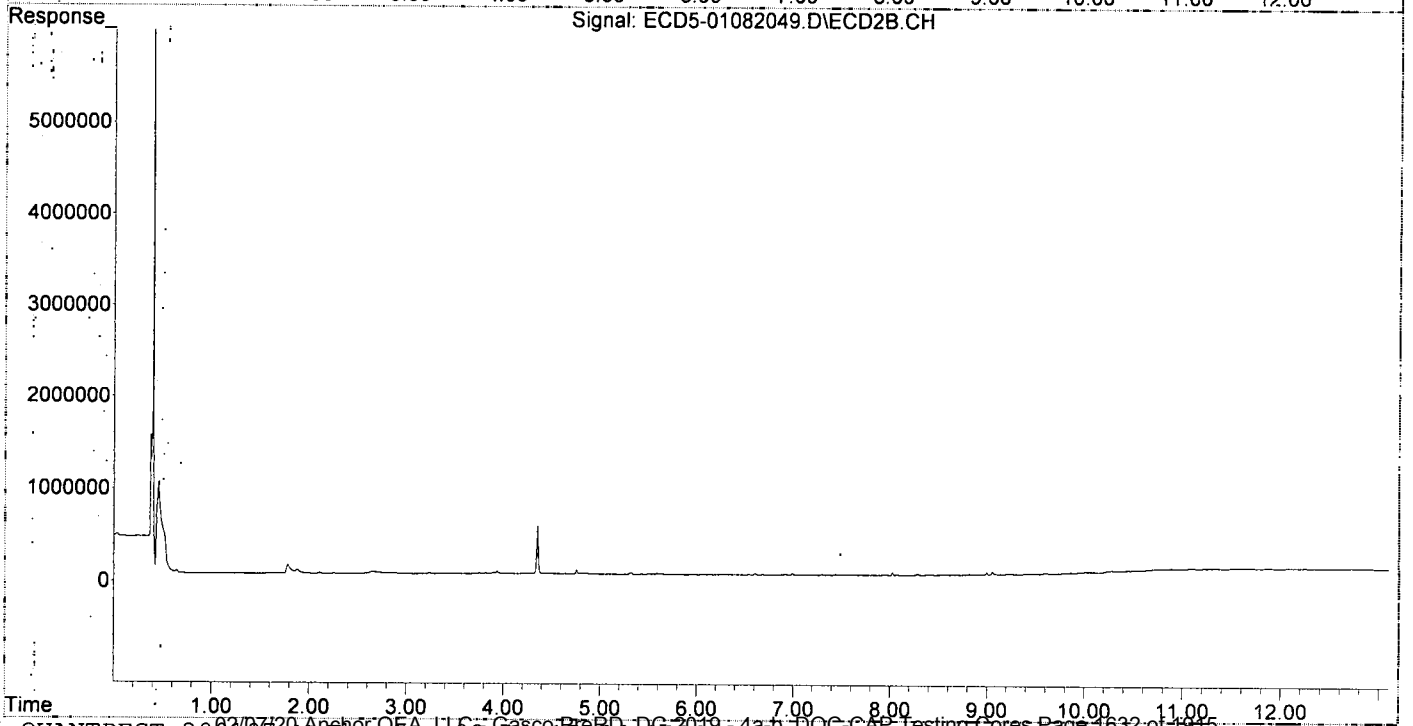
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 1:41
Operator : MJB
Sample : 0A08041-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: Jan 09 14:17:54 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 1:58
Operator : MJB
Sample : 0A08041-ICV4
Misc : A19J422, TOX 500 ppb
ALS Vial : 43 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 14:18:00 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.123	0	14573	N.D.	0.049	#
22)	S DCBP (S)	9.605	10.721f	49070	60766	0.172	0.341	#
	Target Compounds							
2)	a-BHC	5.943	6.732	6515	5978	0.025	0.014	#
3)	g-BHC	6.234	7.045	3820	12245	0.016	0.034	#
4)	b-BHC	6.297	7.107	17235	21055	0.008	0.131	#
5)	Heptachlor	6.638	7.434	17073	31564	0.075	0.089	
6)	d-BHC	6.438	7.372	6031	22887	0.028	0.126	#
7)	Aldrin	6.878	7.726f	46144	94160	0.209	0.283	
8)	Heptachlo...	7.343	8.133	163855	419169	0.795	1.361	#
9)	trans-Chl...	7.452	8.261f	359933	506635	1.708	1.625	
10)	cis-Chlor...	7.559f	8.411	415717	519448	2.032	1.751	
11)	Endosulfa...	7.638	8.445	614135	645485	3.169	2.323	
12)	4,4'-DDE	7.559f	8.476	415717	697378	2.016	2.424	
13)	Dieldrin	7.804	8.658	932463	837259	4.329	2.710	
14)	Endrin	7.992f	8.864	1373686	1768789	7.940	7.528	
15)	4,4'-DDD	8.032	8.918	900218	1084974	5.214	4.414	
16)	Endosulfa...	8.116	9.005	2143737	2837077	12.565	11.613	
17)	4,4'-DDT	8.196	9.136	1824191	1185349	11.012	5.499	#
18)	Endrin Al...	8.404	9.249	1497962	2571198	9.783	11.499	
19)	Endosulfa...	8.722	9.452	854118	1178730	5.337	5.318	
20)	Methoxychlor	8.556	9.633	743091	2921504	8.580	24.625	#
21)	Endrin Ke...	8.906	9.874	591269	605739	3.096	2.419	
23)	Hexachlor...	3.226f	3.814	9723	5338	0.049	0.013	#
24)	Hexachlor...	0.000	6.608	0	12009	N.D.	0.038	#
25)	Oxychlordane	7.272	8.083	399221	368934	2.086	1.319	
26)	2,4'-DDE	7.343	8.261	163855	506635	1.149	2.406	#
27)	trans-Non...	7.510	8.355	505624	530485	2.393	1.725	
28)	2,4'-DDD	7.722	8.658	716890	837259	5.634	4.539	
29)	2,4'-DDT	7.907	8.864	1160341	1768789	7.922	9.351	
30)	cis-Nonac...	7.992	8.918	1373686	1084974	5.828	3.180	#
31)	Mirex	8.652	9.874f	2183505	605739	15.981	3.230	#
32)	Chlordane...	7.452	8.261f	359933	506635	15.341	13.025	
33)	Chlordane...	7.510f	8.411f	505624	519448	17.544	16.183	
34)	Chlordane...	8.056f	9.072	962547	4516827	126.525	425.404	#
35)	Chlordane...	3.810	3.814	458190	5338	NoCal	NoCal	
36)	Toxaphene...	7.510	8.618	505624	1346656	480.074	497.967	
37)	Toxaphene...	7.804	8.967	932463	1754946	479.498	503.925	
38)	Toxaphene...	8.116	9.005	2143737	2837077	505.459	527.117	
39)	Toxaphene...	8.357	9.072	2022112	4516827	500.518	500.442	
40)	Toxaphene...	8.585	9.249	1632011	2571198	496.387	511.992	
41)	Toxaphene...	8.652	9.633	2183505	2921504	502.838	520.381	
42)	Toxaphene...	3.810	3.814	458190	5338	NoCal	NoCal	

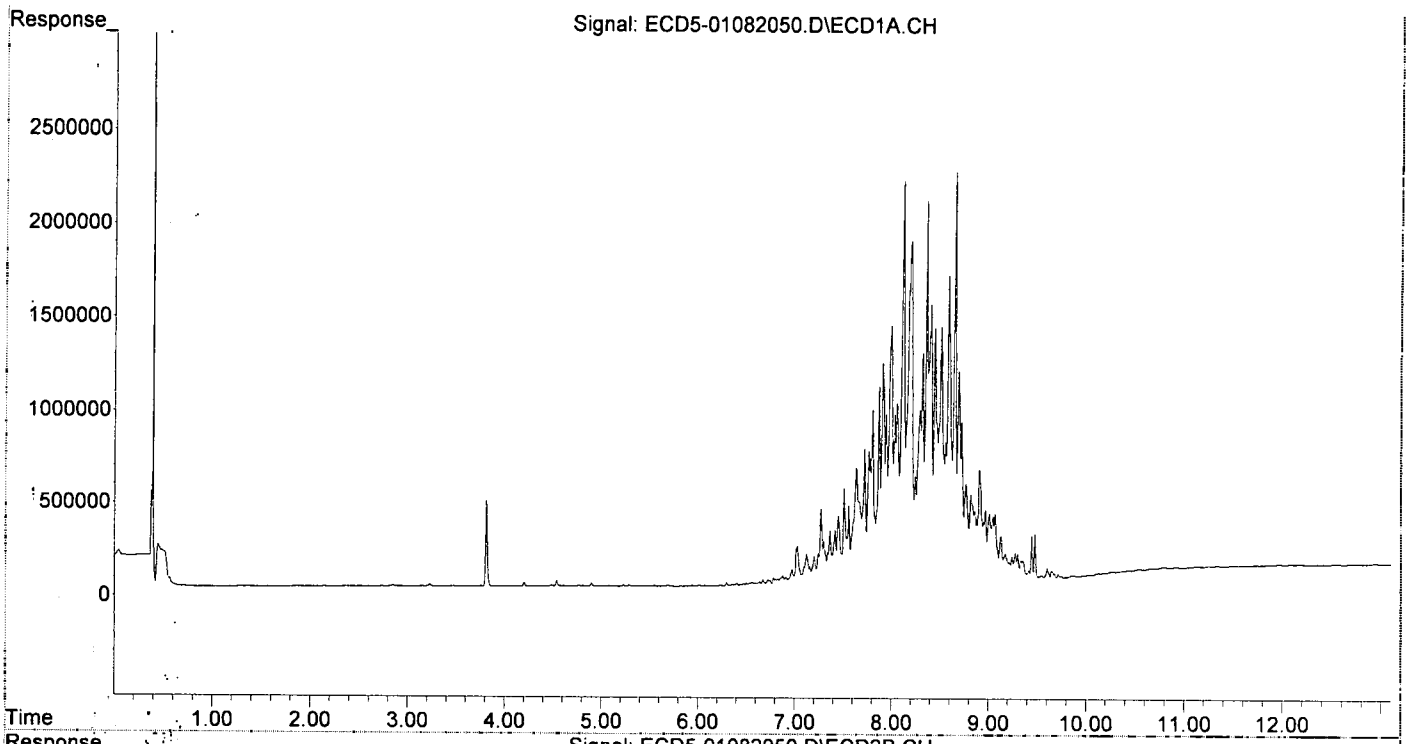
A B
494.13 510.30

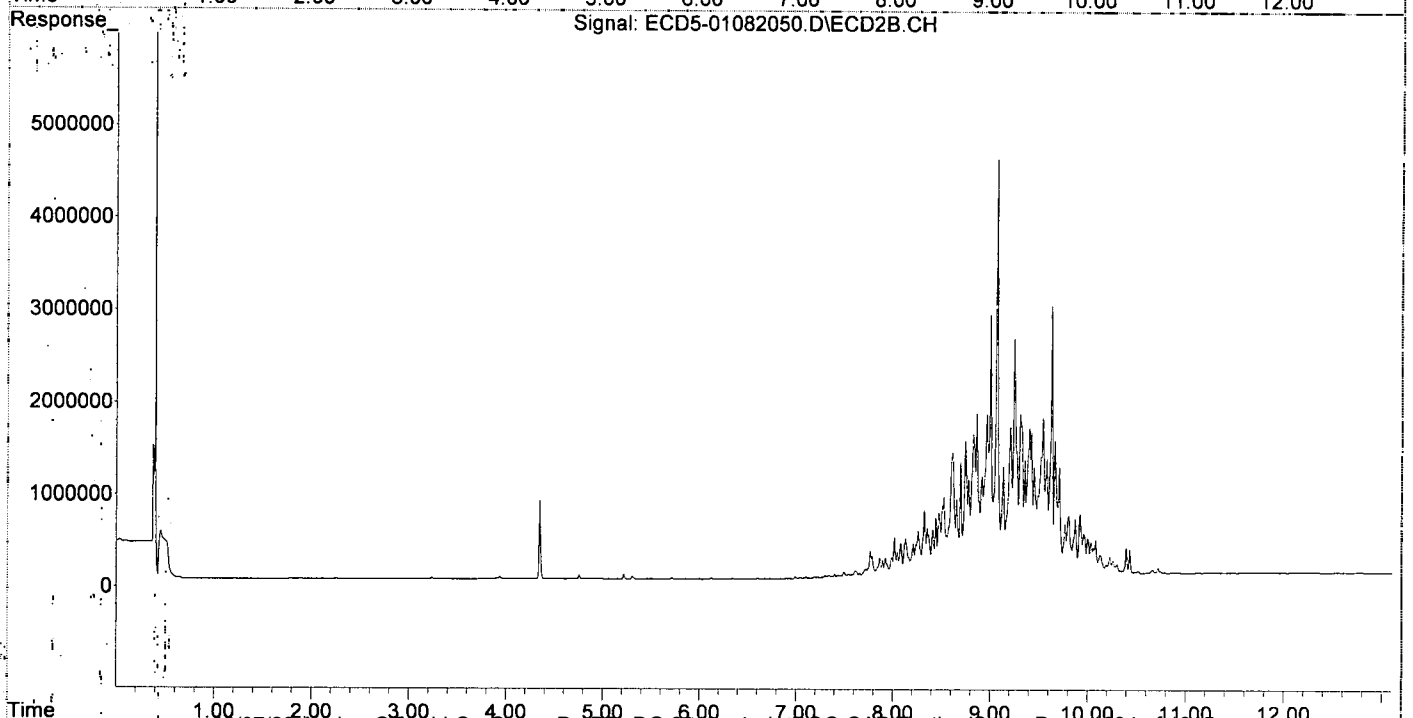
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 1:58
Operator : MJB
Sample : 0A08041-ICV4
Misc : A19J422, TOX 500 ppb
ALS Vial : 43 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 14:18:00 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:50
Operator : MJB
Sample : 0A08041-CAL1
Misc : A20A094, AB 0.5 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: Jan 09 15:20:50 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

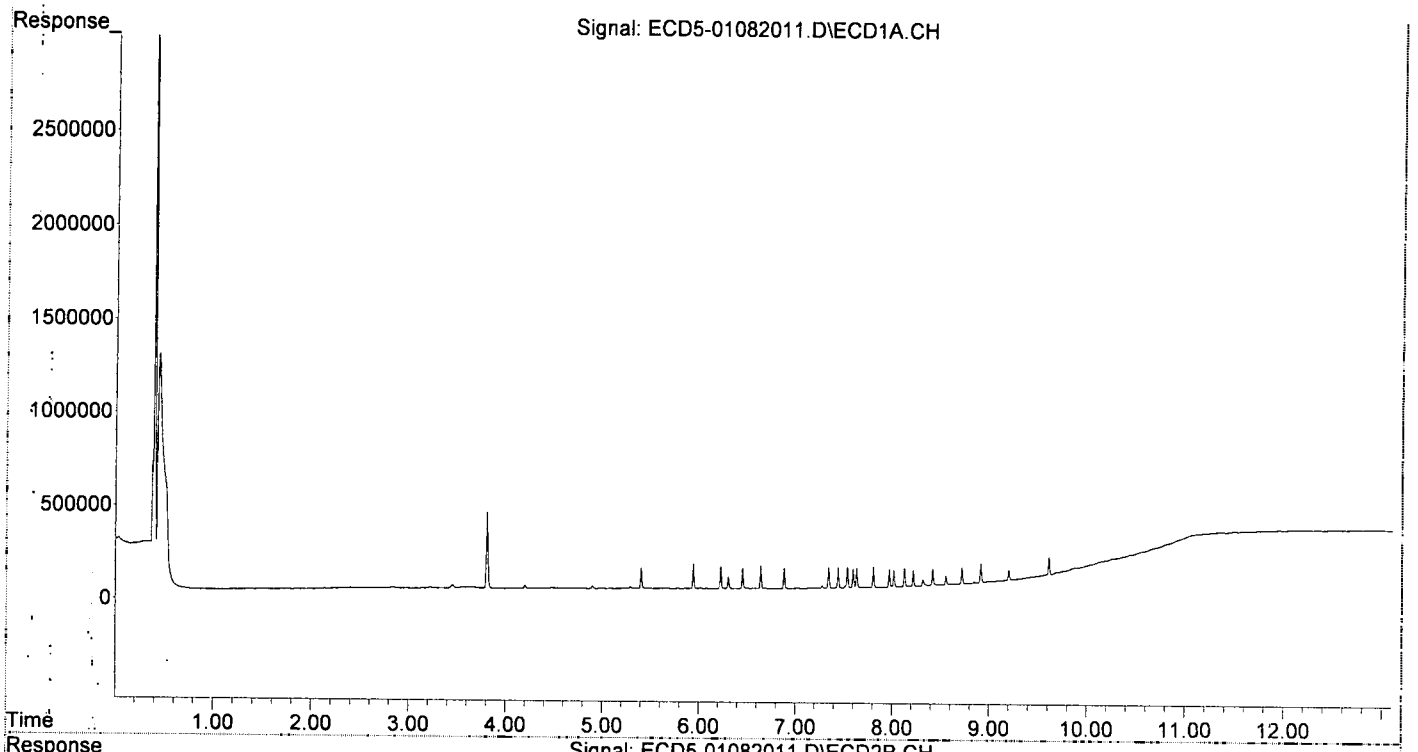
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.402	6.123	112863	158219	0.578	0.531	
22)	S DCBP (S)	9.611	10.741	96104	101208	0.487	0.569	
	Target Compounds							
2)	a-BHC	5.942	6.731	133246	185876	0.506	0.450	
3)	g-BHC	6.225	7.051	120283	175442	0.515	0.481	
4)	b-BHC	6.302	7.113	65009	92509	0.496	0.575	
5)	Heptachlor	6.640	7.432	122190	183474	0.538	0.518	
6)	d-BHC	6.451	7.371	111153	153966	0.510	0.516	
7)	Aldrin	6.882	7.702	113031	161218	0.512	0.484	
8)	Heptachlo...	7.343	8.141	112198	158898	0.544	0.516	
9)	trans-Chl...	7.440	8.282	112737	169582	0.535	0.544	
10)	cis-Chlor...	7.537	8.390	112650	150400	0.551	0.507	
11)	Endosulfa...	7.633	8.442	104610	140878	0.540	0.507	✓
12)	4,4'-DDE	7.596	8.489	102992	139141	0.500	0.511	
13)	Dieldrin	7.805	8.643	111857	147653	0.519	0.478	
14)	Endrin	7.970	8.873	93909	120788	0.543	0.514	
15)	4,4'-DDD	8.017	8.907	86424	113285	0.501	0.461	
16)	Endosulfa...	8.126	9.020	99640	122597	0.584	0.502	
17)	4,4'-DDT	8.216	9.137	84911	103096	0.513	0.512	
18)	Endrin Al...	8.417	9.257	87242	118008	0.570	0.528	
19)	Endosulfa...	8.719	9.449	88205	112283	0.551	0.507	
20)	Methoxychlor	8.553	9.615	48528	60619	0.560	0.510	
21)	Endrin Ke...	8.913	9.854	99629	120422	0.522	0.481	
23)	Hexachlor...	3.220	0.000	7715	0	0.039	N.D.	#
24)	Hexachlor...	0.000	6.611	0	7424	N.D.	0.023	#
25)	Oxychlordane	7.276	8.029f	13119	20564	BelowCal	0.074	
26)	2,4'-DDE	7.343	8.282	112198	169582	0.787	0.805	
27)	trans-Non...	7.537	0.000	112650	0	0.411	N.D.	#
28)	2,4'-DDD	0.000	8.643	0	147653	N.D.	0.801	#
29)	2,4'-DDT	0.000	8.873	0	120788	N.D.	0.552	#
30)	cis-Nonac...	8.017f	8.907	86424	113285	0.367	0.332	
31)	Mirex	0.000	9.854	0	120422	N.D.	0.428	#
32)	Chlordane...	7.440	8.282	112737	169582	4.805	4.360	
33)	Chlordane...	7.537	8.390	112650	150400	3.909	4.686	
34)	Chlordane...	0.000	9.051	0	53055	N.D.	4.997	#
35)	Chlordane...	3.806	0.000	407145	0	NoCal	N.D.	
36)	Toxaphene...	7.537f	8.643f	112650	147653	106.957	54.599	#
37)	Toxaphene...	7.805	0.000	111857	0	57.520	N.D.	#
38)	Toxaphene...	8.126	9.020	99640	122597	19.679	19.971	
39)	Toxaphene...	0.000	9.051f	0	53055	N.D.	5.878	#
40)	Toxaphene...	8.553f	9.257	48528	118008	14.760	23.498	#
41)	Toxaphene...	0.000	9.615	0	60619	N.D.	10.797	#
42)	Toxaphene...	3.806	0.000	407145	0	NoCal	N.D.	

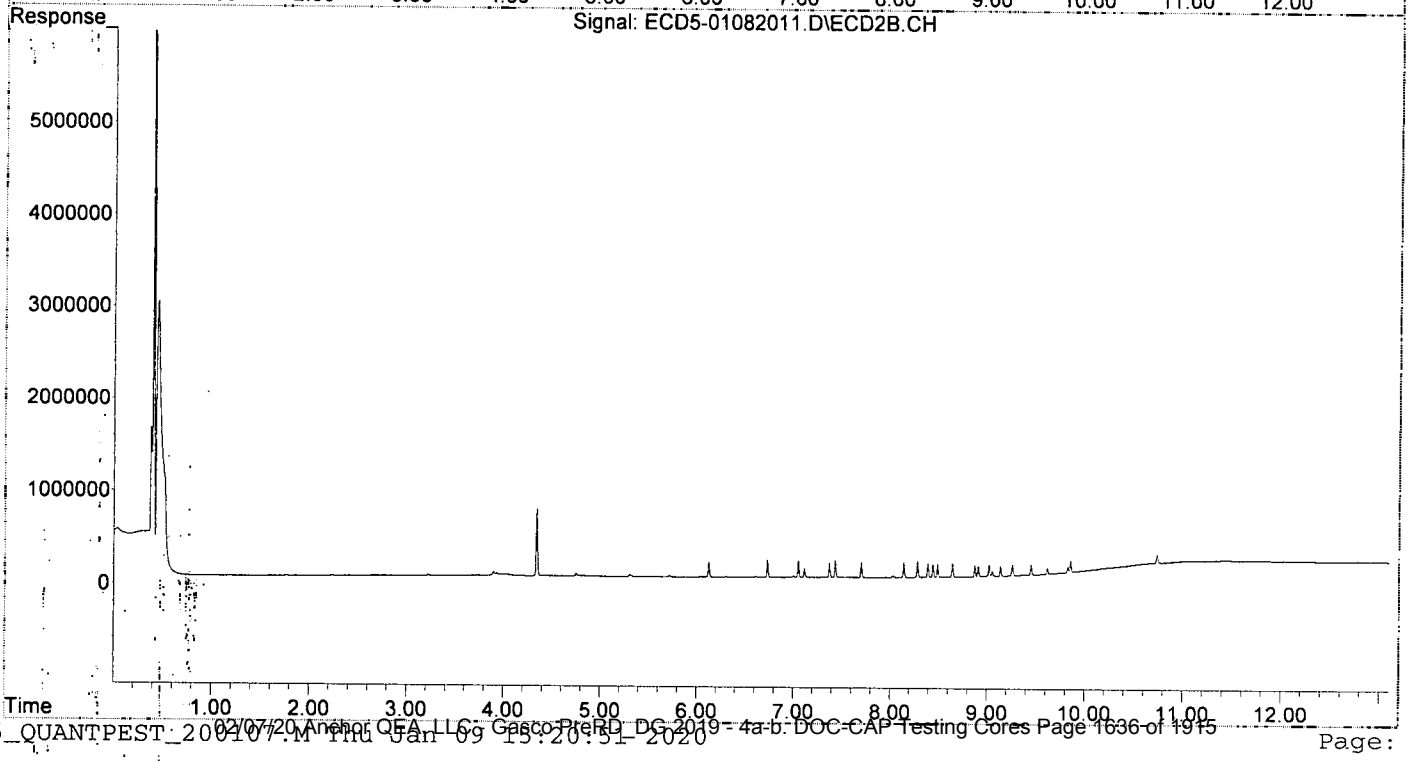
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:50
Operator : MJB
Sample : 0A08041-CAL1
Misc : A20A094, AB 0.5 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: Jan 09 15:20:50 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:07
Operator : MJB
Sample : 0A08041-CAL2
Misc : A20A095, AB 1 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: Jan 09 15:20:56 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

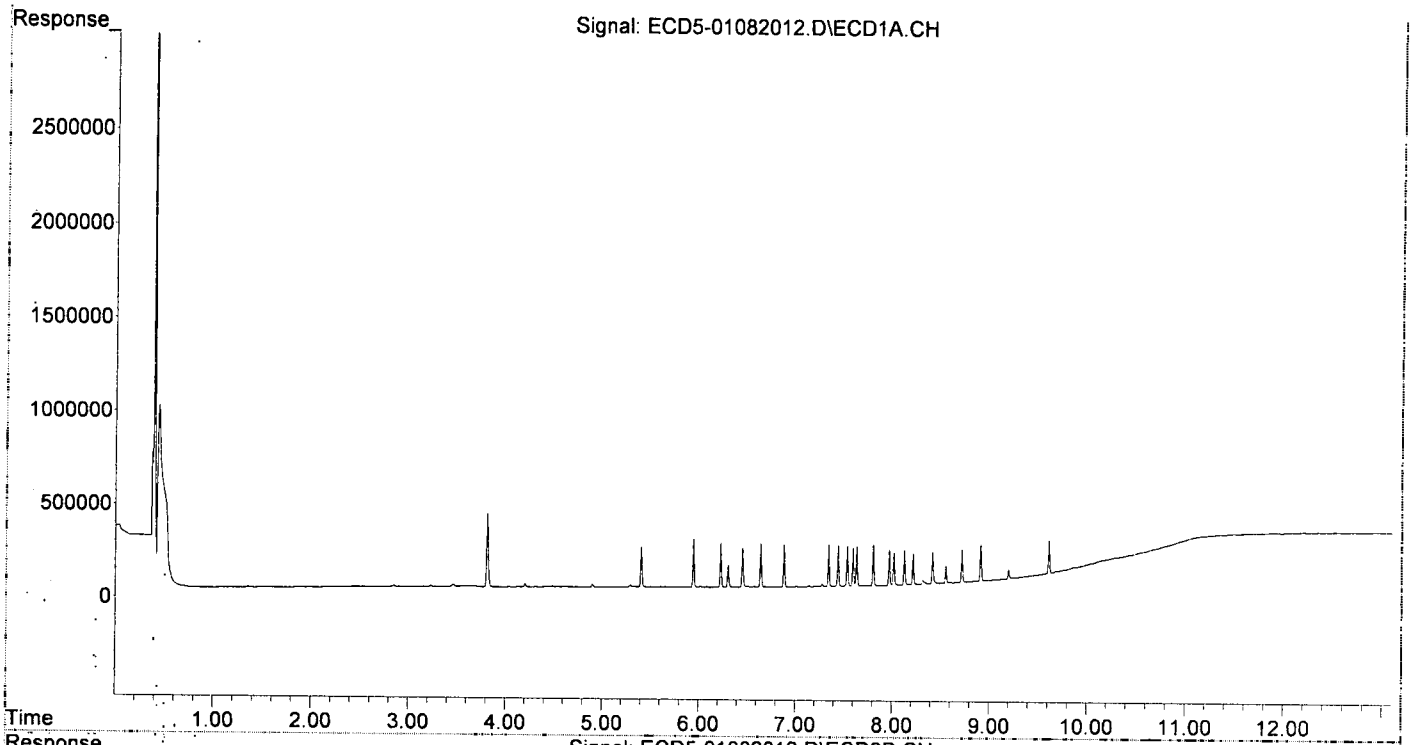
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.404	6.128	211254	311231	1.082	1.044	
22)	S DCBP (S)	9.612	10.743	176609	194428	1.025	1.093	
	Target Compounds							
2)	a-BHC	5.944	6.735	256973	379209	0.976	0.918	
3)	g-BHC	6.227	7.055	234366	343398	1.004	0.941	
4)	b-BHC	6.304	7.117	114282	172988	0.998	1.075	
5)	Heptachlor	6.642	7.436	233856	337319	1.029	0.952	
6)	d-BHC	6.453	7.375	208419	310209	0.957	0.980	
7)	Aldrin	6.883	7.705	224047	314514	1.015	0.944	
8)	Heptachlo...	7.344	8.144	218282	296140	1.059	0.961	
9)	trans-Chl...	7.441	8.285	218441	302694	1.037	0.971	
10)	cis-Chlor...	7.538	8.393	212625	292944	1.039	0.988	
11)	Endosulfa...	7.634	8.445	208482	271809	1.076	0.978	
12)	4,4'-DDE	7.597	8.492	201598	277811	0.978	0.987	
13)	Dieldrin	7.806	8.646	218083	291554	1.013	0.944	
14)	Endrin	7.971	8.876	188900	230377	1.092	0.980	
15)	4,4'-DDD	8.018	8.910	170626	228024	0.988	0.928	
16)	Endosulfa...	8.128	9.023	182518	234291	1.070	0.959	
17)	4,4'-DDT	8.217	9.139	163203	203174	0.985	0.980	
18)	Endrin Al...	8.418	9.260	168637	234689	1.101	1.050	
19)	Endosulfa...	8.720	9.451	168846	210935	1.055	0.952	
20)	Methoxychlor	8.554	9.618	89885	117569	1.038	0.989	
21)	Endrin Ke...	8.914	9.856	194086	227922	1.016	0.910	
23)	Hexachlor...	3.226f	0.000	5940	0	0.030	N.D.	#
24)	Hexachlor...	0.000	6.615f	0	8208	N.D.	0.026	#
25)	Oxychlordane	7.277	8.032f	12988	20706	BelowCal	0.074	
26)	2,4'-DDE	7.344	8.285	218282	302694	1.531	1.437	
27)	trans-Non...	7.538	0.000	212625	0	0.916	N.D.	#
28)	2,4'-DDD	0.000	8.646	0	291554	N.D.	1.581	#
29)	2,4'-DDT	0.000	8.876	0	230377	N.D.	1.146	#
30)	cis-Nonac...	8.018f	8.910	170626	228024	0.724	0.668	
31)	Mirex	8.673	9.856	1174	227922	6723.039	1.050	#
32)	Chlordane...	7.441	8.285	218441	302694	9.311	7.782	
33)	Chlordane...	7.538	8.393	212625	292944	7.377	9.127	
34)	Chlordane...	0.000	9.054	0	34335	N.D.	3.234	#
35)	Chlordane...	3.811	0.000	395584	0	NoCal	N.D.	
36)	Toxaphene...	7.538f	8.646f	212625	291554	201.880	107.811	#
37)	Toxaphene...	7.806	0.000	218083	0	112.144	N.D.	#
38)	Toxaphene...	8.128	9.023	182518	234291	39.497	41.694	
39)	Toxaphene...	8.319f	9.054	21265	34335	5.264	3.804	
40)	Toxaphene...	8.599	9.260	2084	234689	0.634	46.733	#
41)	Toxaphene...	8.673	9.618	1174	117569	0.270	20.941	#
42)	Toxaphene...	3.811	0.000	395584	0	NoCal	N.D.	

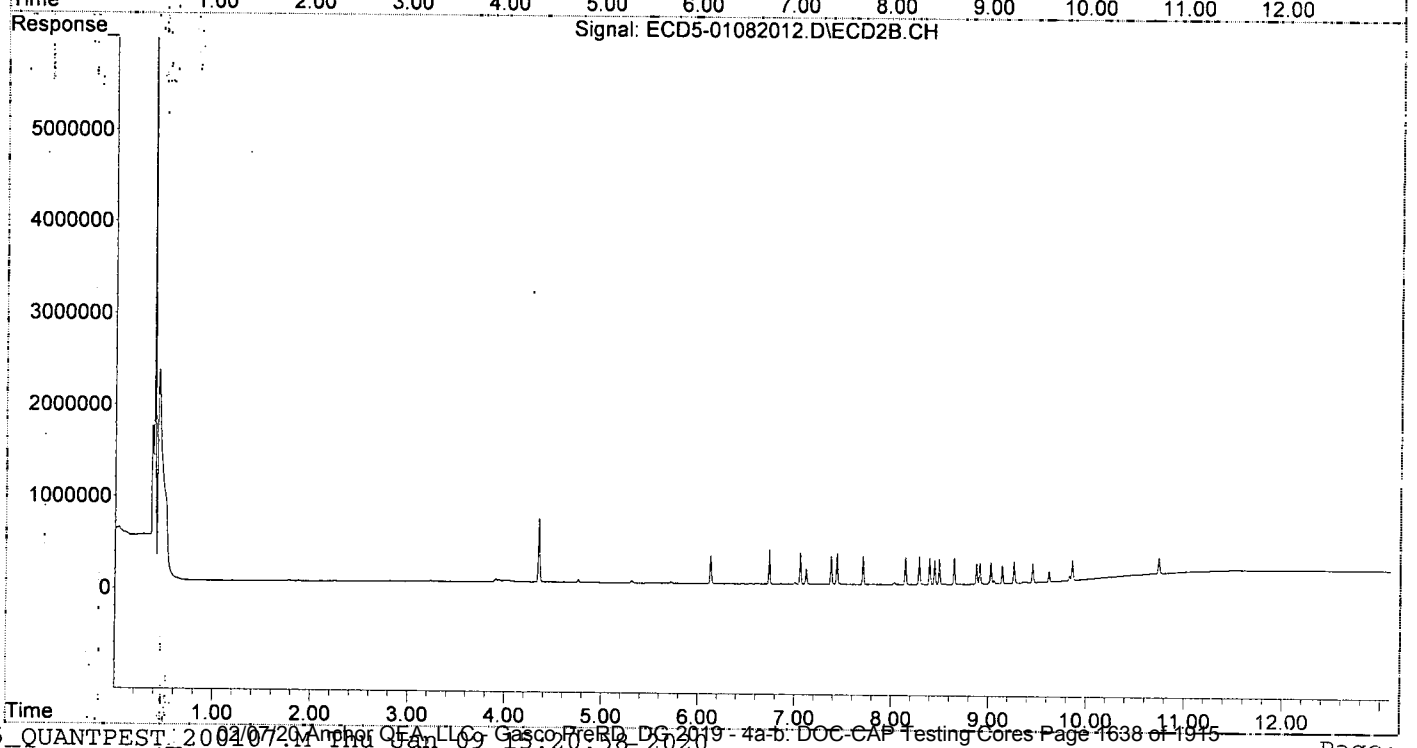
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:07
Operator : MJB
Sample : 0A08041-CAL2
Misc : A20A095, AB 1 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: Jan 09 15:20:56 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:24
Operator : MJB
Sample : 0A08041-CAL3
Misc : A19K128, AB 2 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: Jan 09 15:21:03 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

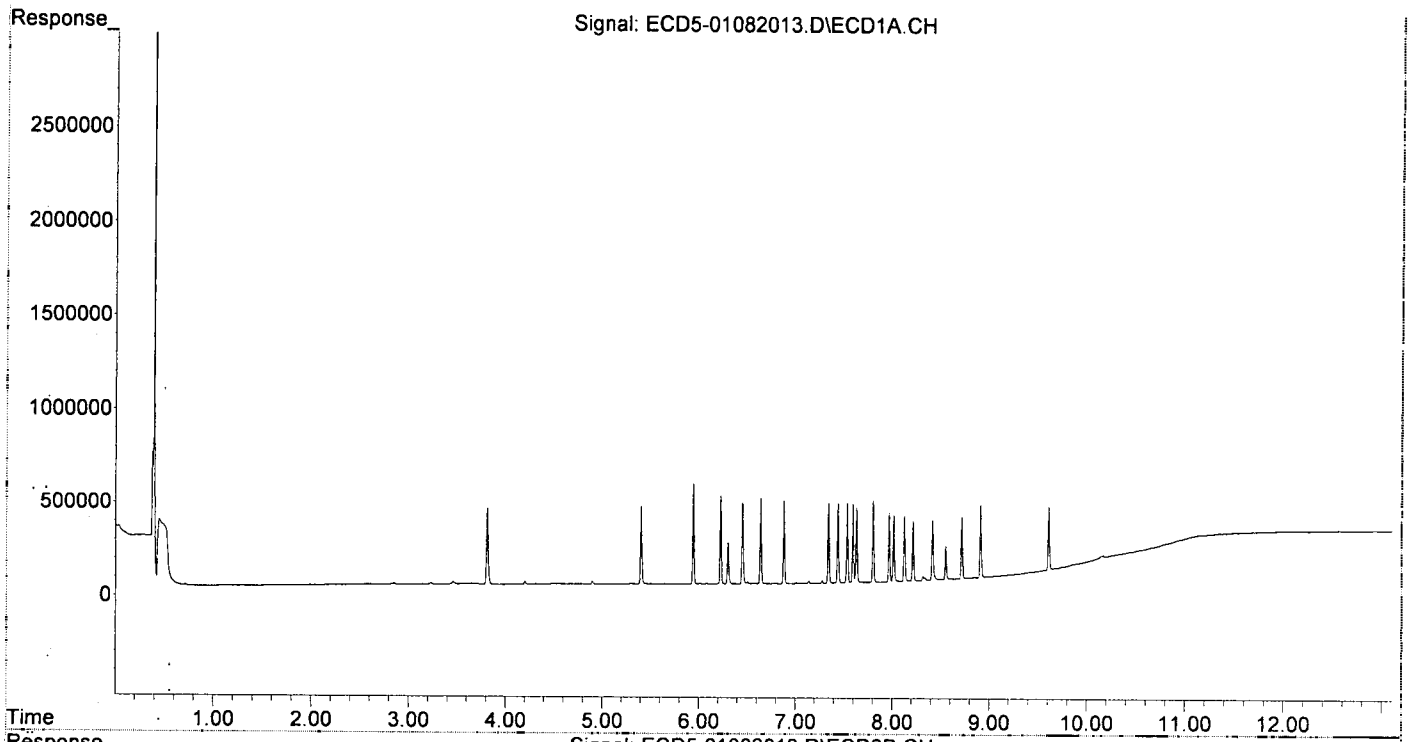
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.402	6.126	415516	589045	2.128	1.976	
22)	S DCBP (S)	9.609	10.743	340423	355105	2.121	1.996	
	Target Compounds							
2)	a-BHC	5.942	6.734	537497	767270	2.042	1.858	
3)	g-BHC	6.225	7.053	471506	677169	2.019	1.855	
4)	b-BHC	6.301	7.115	220797	320899	2.085	1.995	
5)	Heptachlor	6.639	7.434	456995	655441	2.011	1.849	
6)	d-BHC	6.451	7.373	432587	603549	1.986	1.851	
7)	Aldrin	6.881	7.703	440039	629279	1.994	1.889	✓
8)	Heptachlo...	7.341	8.141	427014	586030	2.071	1.902	
9)	trans-Chl...	7.439	8.283	425200	579921	2.018	1.860	
10)	cis-Chlor...	7.535	8.390	422427	574813	2.064	1.938	
11)	Endosulfa...	7.632	8.443	400706	526399	2.068	1.894	
12)	4,4'-DDE	7.594	8.491	411765	541435	1.997	1.891	
13)	Dieldrin	7.803	8.644	434619	580943	2.018	1.881	
14)	Endrin	7.968	8.873	366871	456874	2.120	1.944	
15)	4,4'-DDD	8.016	8.908	350808	453406	2.032	1.845	
16)	Endosulfa...	8.125	9.020	347787	461782	2.038	1.890	
17)	4,4'-DDT	8.215	9.137	319688	408673	1.930	1.937	
18)	Endrin Al...	8.415	9.257	322362	453653	2.105	2.029	
19)	Endosulfa...	8.718	9.448	330471	410957	2.065	1.854	
20)	Methoxychlor	8.552	9.616	177451	224516	2.049	1.888	
21)	Endrin Ke...	8.911	9.855	383553	459705	2.008	1.836	✓
23)	Hexachlor...	3.226f	0.000	7369	0	0.037	N.D.	#
24)	Hexachlor...	0.000	6.613	0	8334	N.D.	0.026	#
25)	Oxychlordane	7.275	0.000	14570	0	BelowCal	N.D.	
26)	2,4'-DDE	7.341	8.283	427014	579921	2.995	2.754	
27)	trans-Non...	7.535	0.000	422427	0	1.974	N.D.	#
28)	2,4'-DDD	0.000	8.644	0	580943	N.D.	3.150	#
29)	2,4'-DDT	0.000	8.873	0	456874	N.D.	2.370	#
30)	cis-Nonac...	8.016f	8.908	350808	453406	1.488	1.329	
31)	Mirex	8.668	9.855	1406	459705	6723.037	2.388	#
32)	Chlordane...	7.439	8.283	425200	579921	18.123	14.909	
33)	Chlordane...	7.535	8.390	422427	574813	14.657	17.908	
34)	Chlordane...	0.000	9.051	0	37109	N.D.	3.495	#
35)	Chlordane...	3.809	0.000	407584	0	NoCal	N.D.	
36)	Toxaphene...	7.535f	8.644f	422427	580943	401.080	214.822	#
37)	Toxaphene...	7.803	0.000	434619	0	223.493	N.D.	#
38)	Toxaphene...	8.125	9.020	347787	461782	78.986	85.693	
39)	Toxaphene...	8.337f	9.051f	16425	37109	4.066	4.112	
40)	Toxaphene...	8.596	9.257	4382	453653	1.333	90.334	#
41)	Toxaphene...	8.668	9.616	1406	224516	0.324	39.991	#
42)	Toxaphene...	3.809	0.000	407584	0	NoCal	N.D.	

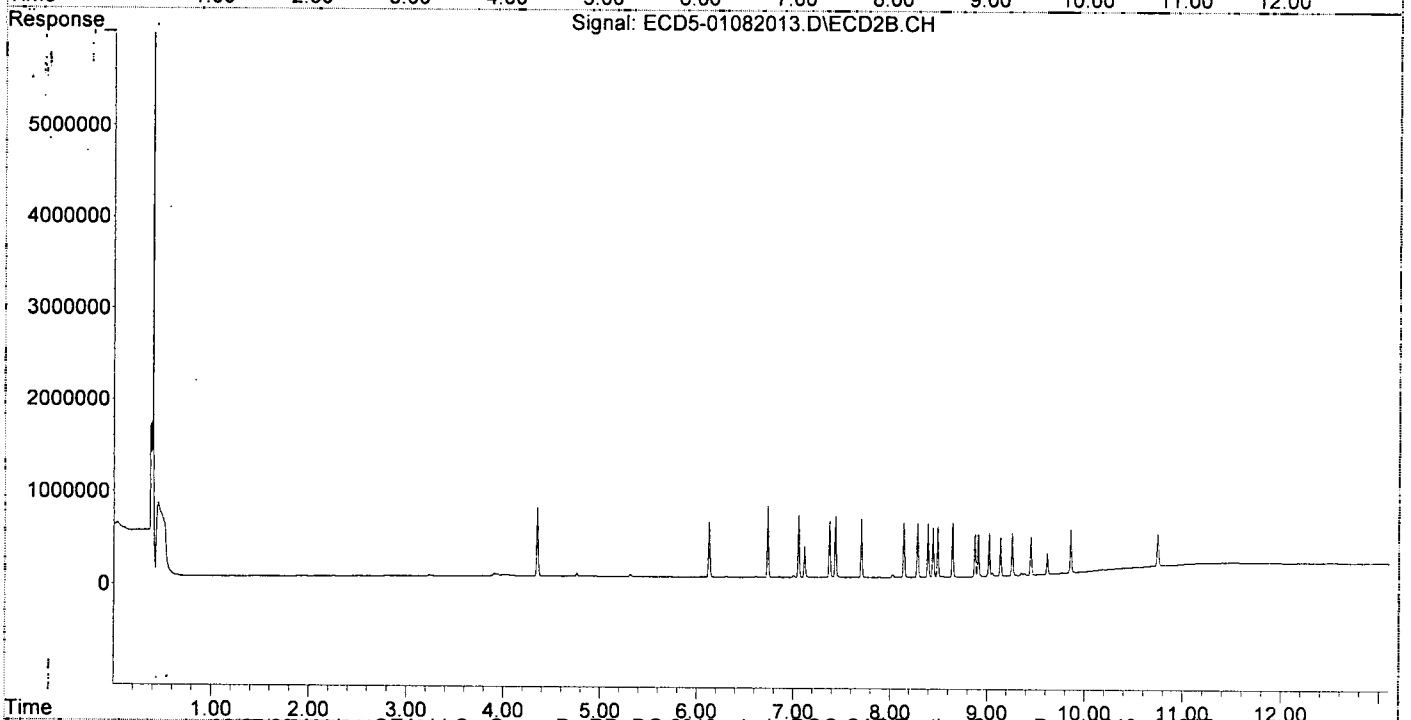
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:24
Operator : MJB
Sample : 0A08041-CAL3
Misc Info : A19K128, AB 2 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: Jan 09 15:21:03 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:41
Operator : MJB
Sample : 0A08041-CAL4
Misc : A19K130, AB 5 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: Jan 09 15:21:10 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

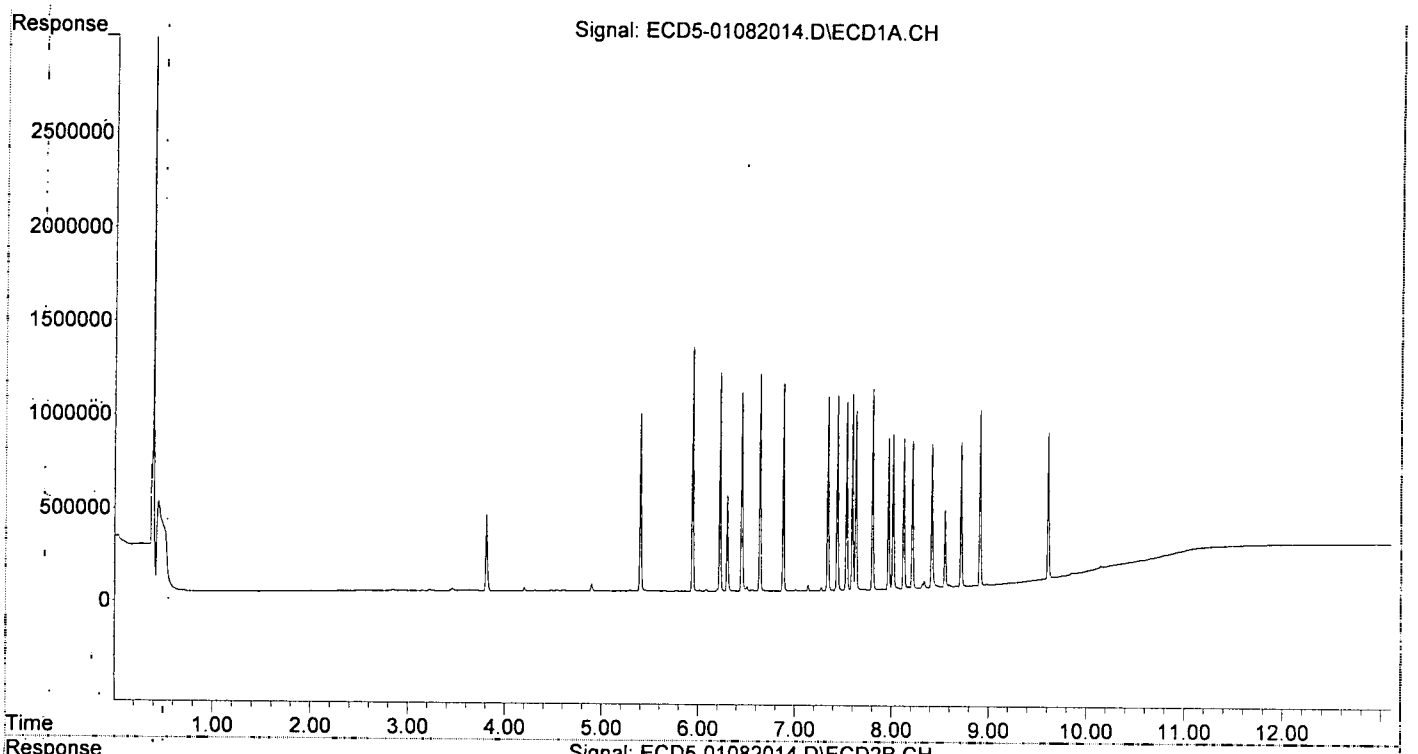
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.402	6.125	950074	1376103	4.866	4.617	
22)	S DCBP (S)	9.610	10.741	775613	834483	5.032	4.689	
	Target Compounds							
2)	a-BHC	5.941	6.732	1306500	1977180	4.965	4.788	
3)	g-BHC	6.224	7.052	1166721	1723036	4.997	4.719	
4)	b-BHC	6.301	7.114	509830	782957	5.037	4.867	
5)	Heptachlor	6.638	7.433	1163113	1661120	5.119	4.686	
6)	d-BHC	6.450	7.372	1063446	1616218	4.882	4.842	
7)	Aldrin	6.880	7.702	1111711	1579995	5.039	4.744	
8)	Heptachlo...	7.341	8.141	1035468	1479273	5.023	4.802	
9)	trans-Chl...	7.439	8.282	1044033	1455802	4.955	4.669	
10)	cis-Chlor...	7.535	8.390	1008295	1373040	4.927	4.629	
11)	Endosulfa...	7.631	8.442	958781	1296862	4.947	4.667	
12)	4,4'-DDE	7.594	8.490	1040350	1423065	5.046	4.897	
13)	Dieldrin	7.803	8.644	1070134	1422623	4.969	4.605	
14)	Endrin	7.968	8.874	807889	1044563	4.669	4.446	
15)	4,4'-DDD	8.016	8.908	829598	1143673	4.805	4.653	
16)	Endosulfa...	8.125	9.020	804988	1119541	4.718	4.583	
17)	4,4'-DDT	8.215	9.137	789969	1027268	4.769	4.800	
18)	Endrin Al...	8.415	9.258	766938	1047866	5.009	4.686	
19)	Endosulfa...	8.718	9.449	770166	1024703	4.812	4.623	
20)	Methoxychlor	8.552	9.615	413384	532720	4.773	4.479	
21)	Endrin Ke...	8.912	9.854	939876	1162953	4.922	4.644	
23)	Hexachlor...	3.225	0.000	7482	0	0.038	N.D.	#
24)	Hexachlor...	0.000	6.612	0	9346	N.D.	0.029	#
25)	Oxychlordane	7.274	0.000	17244	0	BelowCal	N.D.	
26)	2,4'-DDE	7.341	8.282	1035468	1455802	7.262	6.913	
27)	trans-Non...	7.535	8.346	1008295	5985	4.927	0.019	#
28)	2,4'-DDD	0.000	8.644	0	1422623	N.D.	7.713	#
29)	2,4'-DDT	7.902	8.874	4064	1044563	0.028	5.519	#
30)	cis-Nonac...	8.016f	8.908	829598	1143673	3.520	3.353	
31)	Mirex	8.667	9.854	4555	1162953	6723.014	6.426	#
32)	Chlordane...	7.439	8.282	1044033	1455802	44.500	37.427	
33)	Chlordane...	7.535	8.390	1008295	1373040	34.985	42.777	
34)	Chlordane...	0.000	9.051	0	41194	N.D.	3.880	#
35)	Chlordane...	3.809	0.000	411330	0	NoCal	N.D.	
36)	Toxaphene...	7.535f	8.644f	1008295	1422623	957.343	526.058	#
37)	Toxaphene...	7.803	0.000	1070134	0	550.293	N.D.	#
38)	Toxaphene...	8.125	9.020	804988	1119541	188.013	211.126	
39)	Toxaphene...	8.337f	9.051f	38293	41194	9.478	4.564	#
40)	Toxaphene...	8.596	9.258	11272	1047866	3.429	208.657	#
41)	Toxaphene...	8.667	9.615	4555	532720	1.049	94.888	#
42)	Toxaphene...	3.809	0.000	411330	0	NoCal	N.D.	

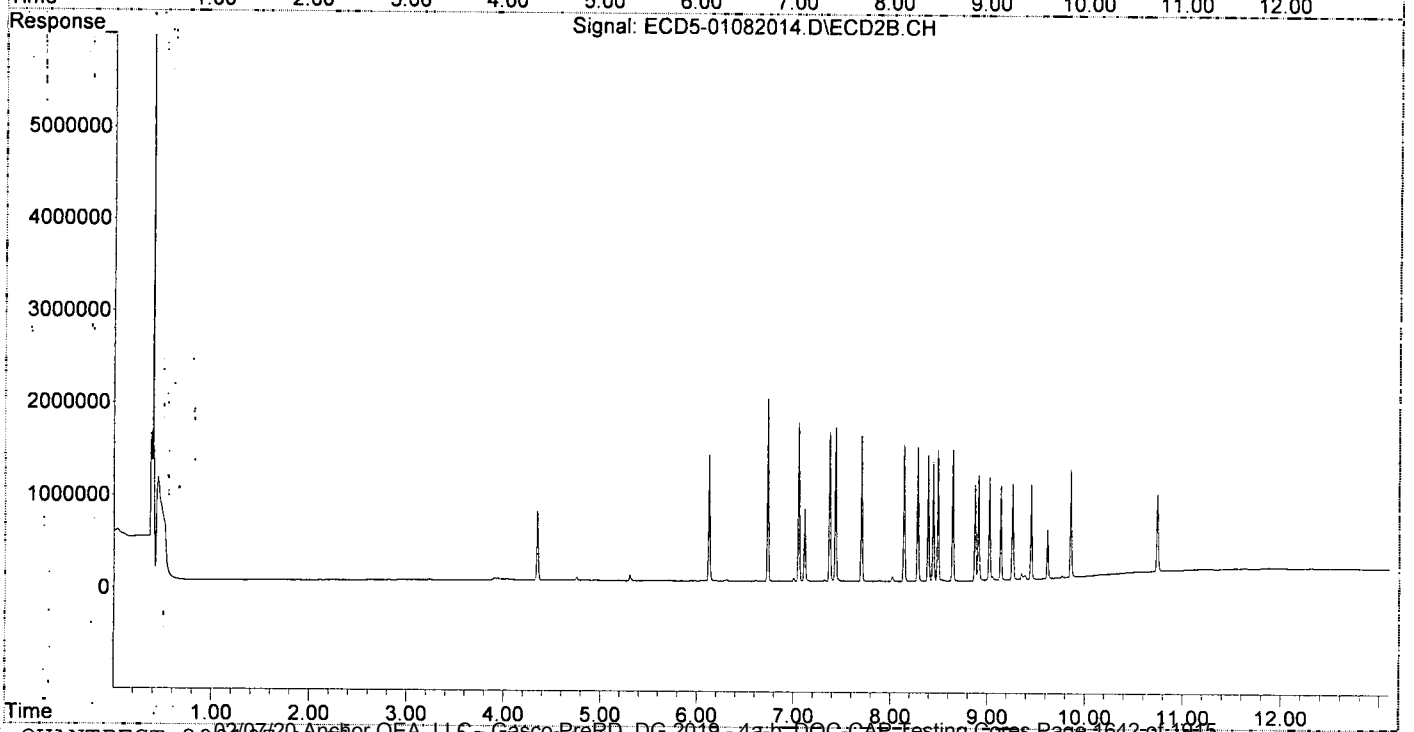
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:41
Operator : MJB
Sample : 0A08041-CAL4
Misc : A19K130, AB 5 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: Jan 09 15:21:10 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:58
Operator : MJB
Sample : 0A08041-CAL5
Misc : A19K131, AB 10 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: Jan 09 15:21:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

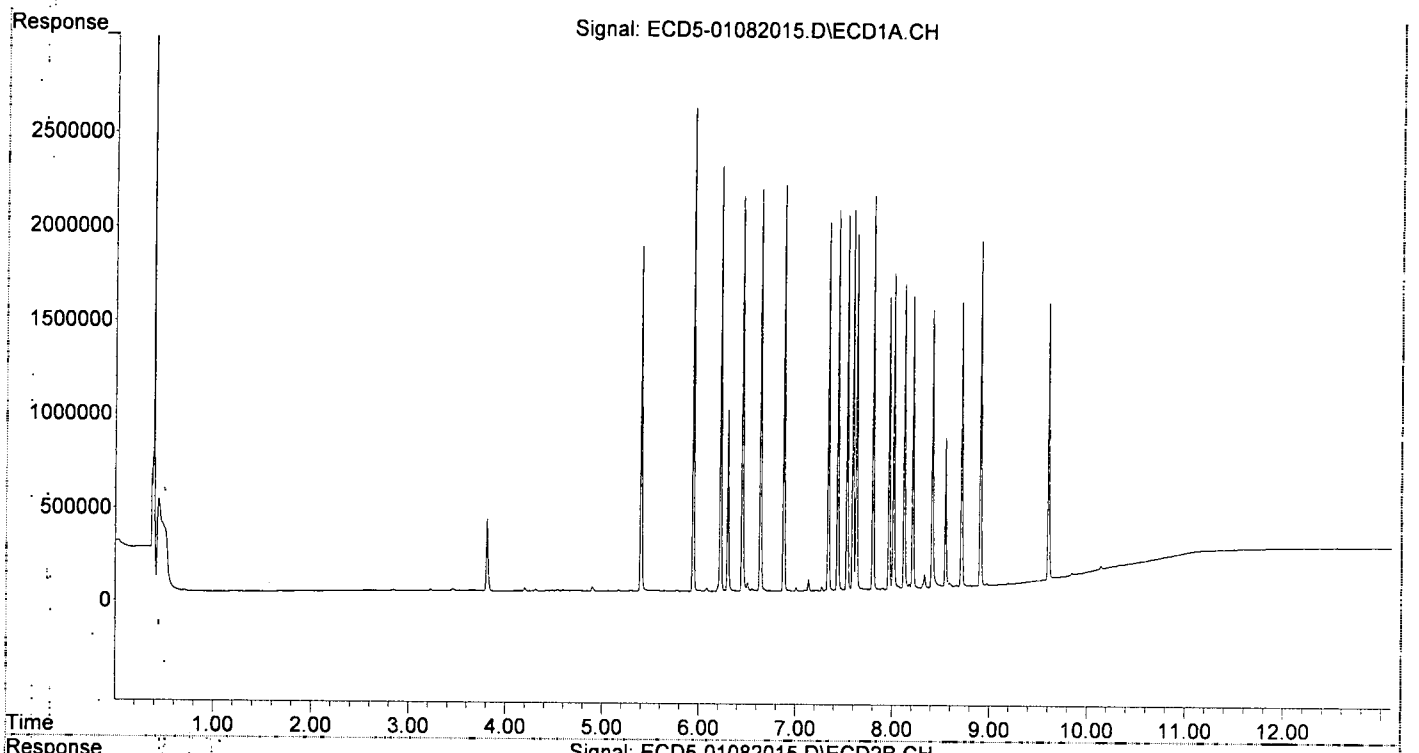
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.402	6.126	1840383	2696320	9.425	9.046	
22)	S DCBP (S)	9.608	10.739	1477683	1586829	9.733	8.917	
	Target Compounds							
2)	a-BHC	5.942	6.733	2577924	3955799	9.796	9.579	
3)	g-BHC	6.224	7.053	2268745	3502209	9.716	9.593	
4)	b-BHC	6.301	7.114	961397	1480627	9.655	9.205	
5)	Heptachlor	6.638	7.433	2147477	3263335	9.450	9.206	
6)	d-BHC	6.450	7.372	2076601	3263098	9.533	9.662	
7)	Aldrin	6.880	7.702	2163245	3173256	9.804	9.528	
8)	Heptachlo...	7.341	8.140	1956671	2879584	9.491	9.348	
9)	trans-Chl...	7.438	8.282	2032056	2933717	9.643	9.408	
10)	cis-Chlor...	7.534	8.389	1994276	2847805	9.746	9.600	
11)	Endosulfa...	7.631	8.441	1890427	2609537	9.754	9.391	
12)	4,4'-DDE	7.594	8.489	2021392	2826462	9.804	9.638	
13)	Dieldrin	7.803	8.643	2096792	2906015	9.735	9.407	
14)	Endrin	7.968	8.873	1559818	2003395	9.015	8.526	
15)	4,4'-DDD	8.015	8.907	1682077	2301063	9.742	9.361	
16)	Endosulfa...	8.125	9.019	1622090	2276288	9.507	9.318	
17)	4,4'-DDT	8.214	9.136	1545752	2023340	9.331	9.347	
18)	Endrin Al...	8.415	9.256	1482366	2117172	9.682	9.468	
19)	Endosulfa...	8.717	9.447	1505195	2032510	9.405	9.169	
20)	Methoxychlor	8.551	9.614	785011	1038753	9.064	8.734	
21)	Endrin Ke...	8.910	9.853	1825019	2330210	9.557	9.305	
23)	Hexachlor...	3.224	0.000	7308	0	0.037	N.D.	#
24)	Hexachlor...	5.773	6.611	4641	9140	BelowCal	0.029	
25)	Oxychlordane	7.275	0.000	20896	0	BelowCal	N.D.	
26)	2,4'-DDE	7.341	8.282	1956671	2933717	13.722	13.931	
27)	trans-Non...	7.534	8.344	1994276	11919	9.895	0.039	#
28)	2,4'-DDD	0.000	8.643	0	2906015	N.D.	15.756	#
29)	2,4'-DDT	7.903	8.873	8132	2003395	0.056	10.581	#
30)	cis-Nonac...	8.015	8.907	1682077	2301063	7.137	6.745	
31)	Mirex	8.665	9.853	9422	2330210	6722.978	13.049	#
32)	Chlordane...	7.438	8.282	2032056	2933717	86.612	75.423	
33)	Chlordane...	7.534	8.389	1994276	2847805	69.196	88.722	
34)	Chlordane...	0.000	9.050	0	46839	N.D.	4.411	#
35)	Chlordane...	3.809	0.000	387318	0	NoCal	N.D.	
36)	Toxaphene...	7.534f	8.643f	1994276	2906015	1893.501	1074.588	#
37)	Toxaphene...	7.803	0.000	2096792	0	1078.228	N.D.	#
38)	Toxaphene...	8.125	9.019	1622090	2276288	382.082	425.681	
39)	Toxaphene...	8.336f	9.050f	73451	46839	18.181	5.189	#
40)	Toxaphene...	8.551f	9.256	785011	2117172	238.766	421.583	#
41)	Toxaphene...	8.665	9.614f	9422	1038753	2.170	185.024	#
42)	Toxaphene...	3.809	0.000	387318	0	NoCal	N.D.	

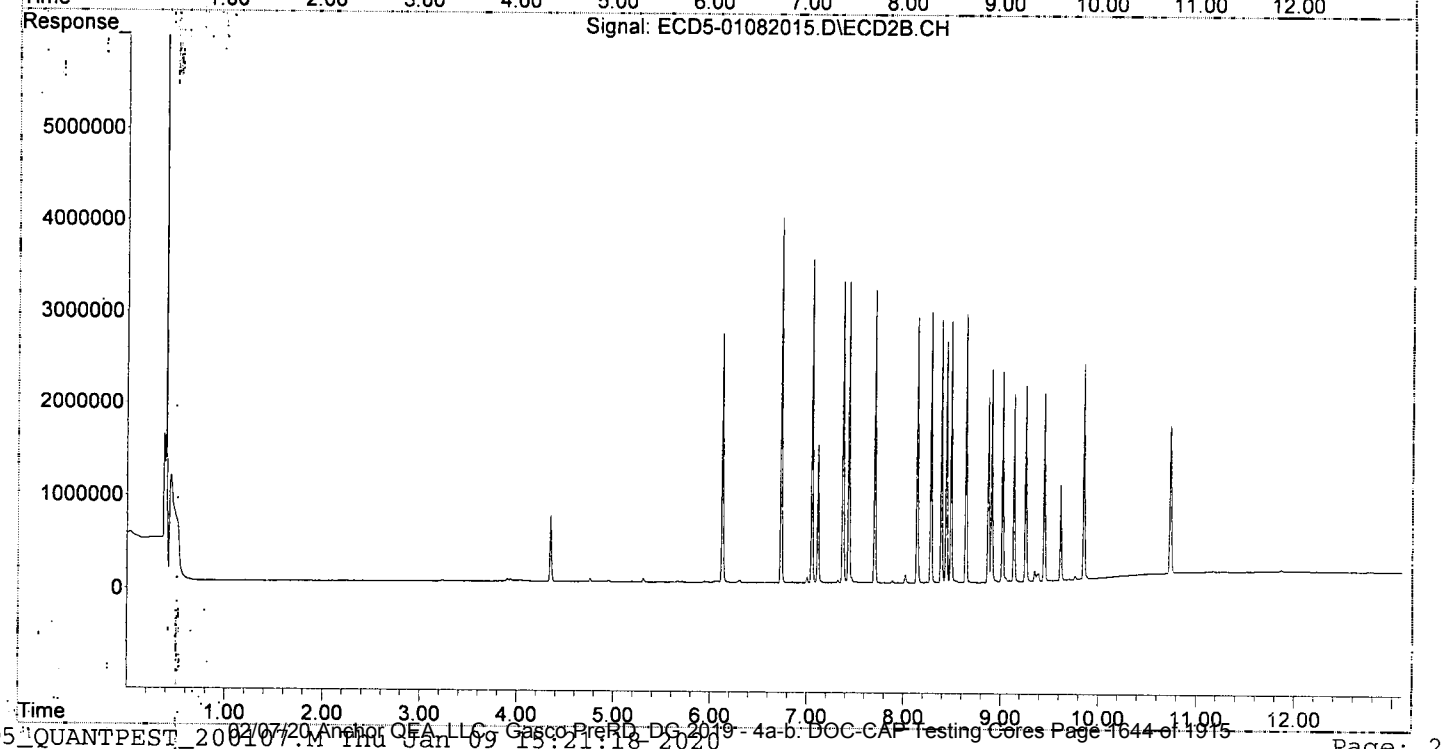
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:58
Operator : MJB
Sample : 0A08041-CAL5
Misc : A19K131, AB 10 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: Jan 09 15:21:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 16:16
Operator : MJB
Sample : 0A08041-CAL6
Misc : A19K132, AB 25 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 : Jan 09 15:21:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

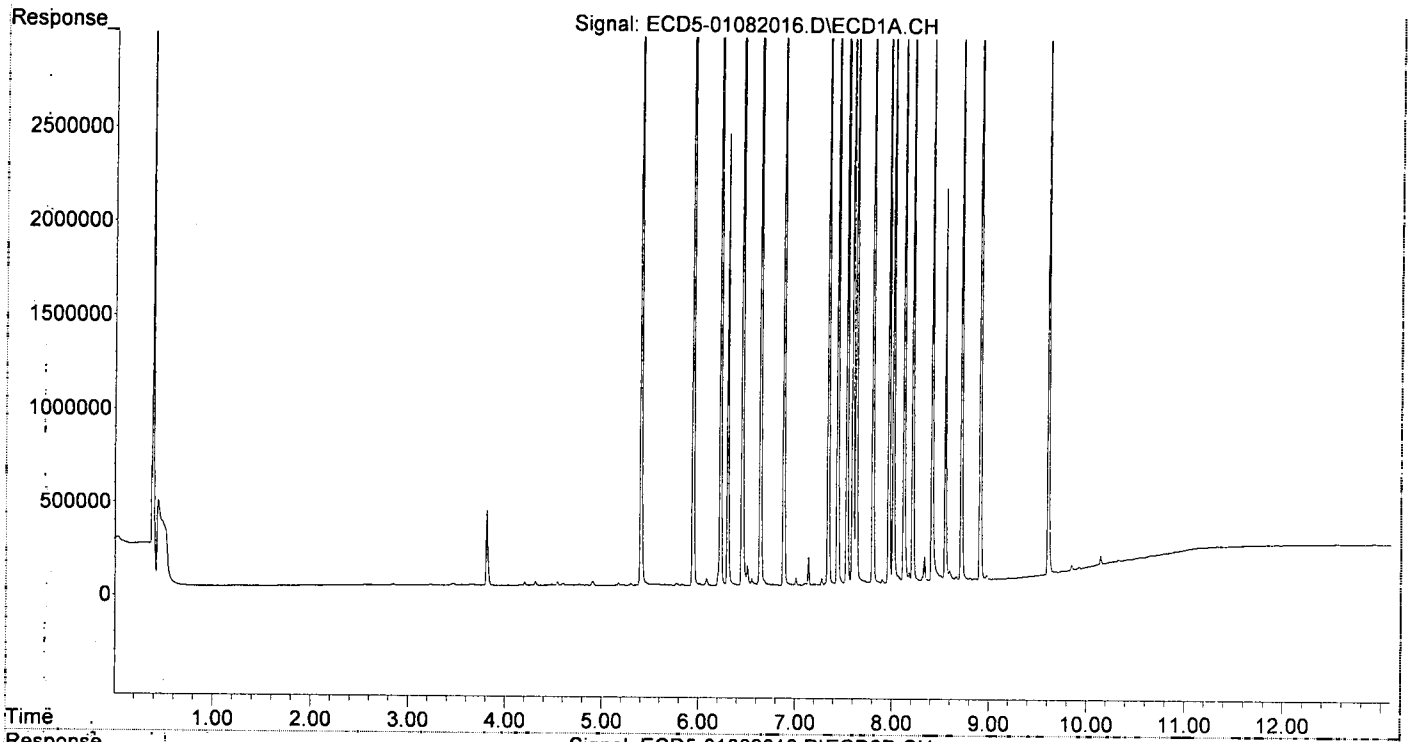
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.403	6.127	4644520	7248704	23.786	24.318	
22)	S DCBP (S)	9.609	10.741	3649221	4087662	24.310	22.971	
	Target Compounds							
2)	a-BHC	5.943	6.735	6708027	10415470	25.490	25.222	
3)	g-BHC	6.226	7.054	5763650	9109081	24.684	24.950	
4)	b-BHC	6.302	7.115	2412054	3735653	24.538	23.223	
5)	Heptachlor	6.640	7.435	5435552	8726365	23.920	24.617	
6)	d-BHC	6.452	7.374	5473600	9124505	25.126	26.398	
7)	Aldrin	6.882	7.704	5637637	8363357	25.551	25.111	
8)	Heptachlo...	7.342	8.142	5116716	7570159	24.820	24.576	
9)	trans-Chl...	7.439	8.283	5203493	7709066	24.694	24.722	
10)	cis-Chlor...	7.535	8.391	5032396	7320817	24.593	24.679	
11)	Endosulfa...	7.632	8.443	4772332	6856889	24.625	24.675	
12)	4,4'-DDE	7.595	8.491	5211626	7706129	25.276	25.712	
13)	Dieldrin	7.804	8.645	5425309	7861083	25.190	25.446	
14)	Endrin	7.968	8.874	4355756	5981930	25.175	25.459	
15)	4,4'-DDD	8.016	8.909	4392393	6163457	25.440	25.074	
16)	Endosulfa...	8.126	9.021	4183901	6151164	24.522	25.179	
17)	4,4'-DDT	8.215	9.138	4195442	5749572	25.325	25.729	
18)	Endrin Al...	8.416	9.258	3592714	5279915	23.465	23.613	
19)	Endosulfa...	8.718	9.449	3934236	5454073	24.583	24.604	
20)	Methoxychlor	8.552	9.616	2096804	2923508	24.210	24.582	
21)	Endrin Ke...	8.912	9.854	4735111	6356172	24.795	25.381	
23)	Hexachlor...	3.226f	0.000	6551	0	0.033	N.D.	#
24)	Hexachlor...	5.770	6.614	12135	9199	BelowCal	0.029	
25)	Oxychlordane	7.277	0.000	34653	0	BelowCal	N.D.	
26)	2,4'-DDE	7.342	8.283	5116716	7709066	35.884	36.607	
27)	trans-Non...	7.535	8.345	5032396	27116	25.173	0.088	#
28)	2,4'-DDD	0.000	8.645	0	7861083	N.D.	42.621	#
29)	2,4'-DDT	7.902	8.874	19168	5981930	0.131	30.672	#
30)	cis-Nonac...	8.016f	8.909	4392393	6163457	18.636	18.067	
31)	Mirex	8.666	9.854	20784	6356172	6722.893	35.208	#
32)	Chlordane...	7.439	8.283	5203493	7709066	221.788	198.192	
33)	Chlordane...	7.535	8.391	5032396	7320817	174.610	228.078	
34)	Chlordane...	0.000	9.093f	0	33760	N.D.	3.180	#
35)	Chlordane...	3.810	0.000	402494	0	NoCal	N.D.	
36)	Toxaphene...	7.535f	8.645f	5032396	7861083	4778.097	2906.875	
37)	Toxaphene...	7.804	0.000	5425309	0	2789.844	N.D.	#
38)	Toxaphene...	8.126	9.021	4183901	6151164	984.191	1096.590	
39)	Toxaphene...	8.337f	9.093f	132833	33760	32.879	3.740	#
40)	Toxaphene...	8.596	9.258	52143	5279915	15.860	1051.367	#
41)	Toxaphene...	8.666	9.616	20784	2923508	4.786	520.738	#
42)	Toxaphene...	3.810	0.000	402494	0	NoCal	N.D.	

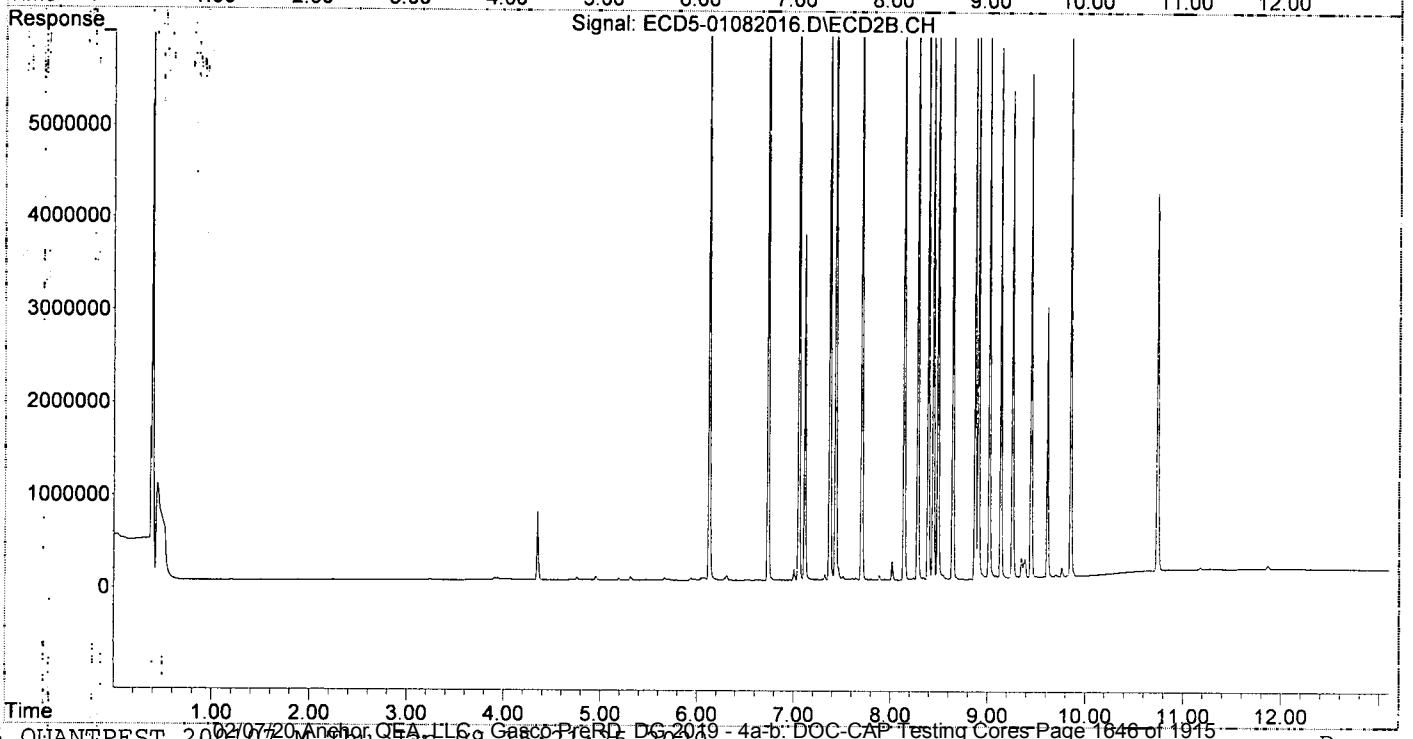
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 16:16
Operator : MJB
Sample : 0A08041-CAL6
Misc : A19K132, AB 25 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: Jan 09 15:21:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 16:33
Operator : MJB
Sample : 0A08041-CAL7
Misc : A19K133, AB 50 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: Jan 09 15:21:30 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

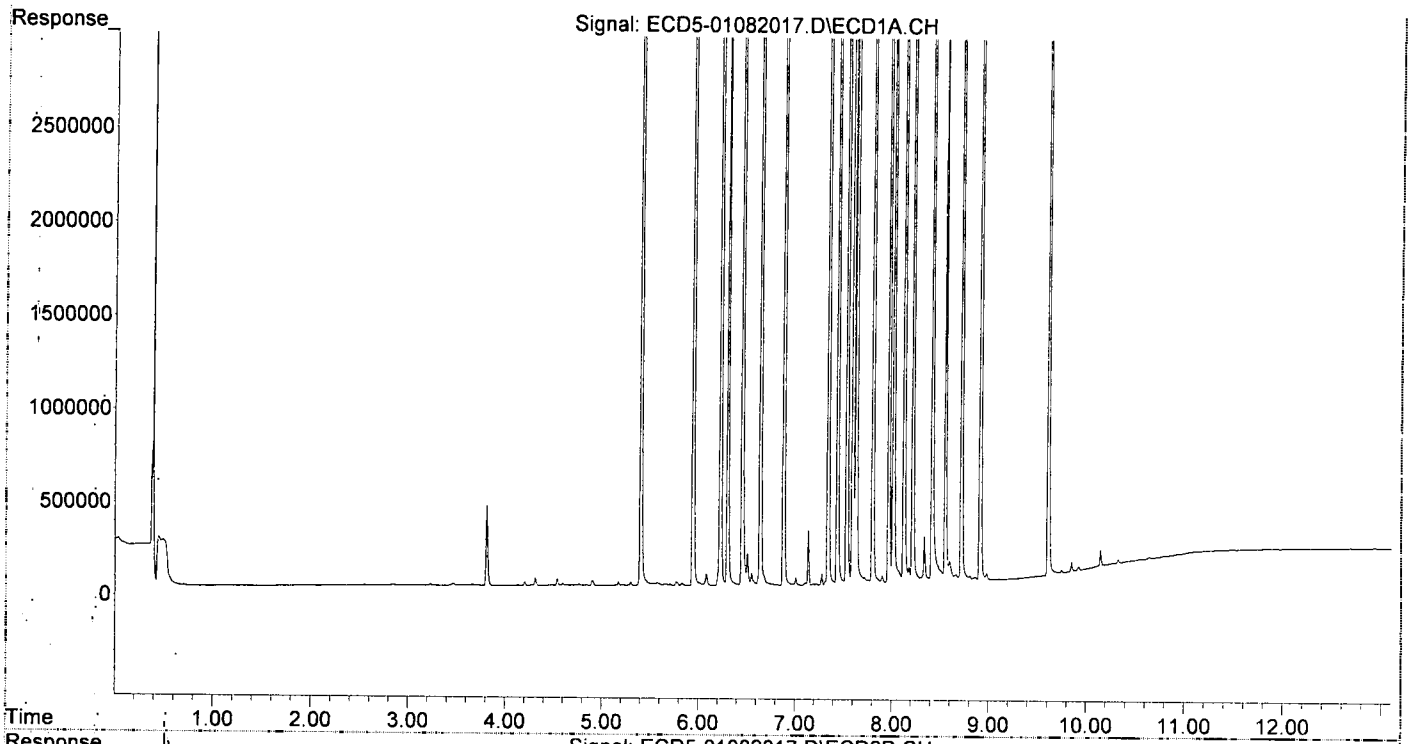
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.404	6.128	9333732	14973503	47.801	50.233	
22)	S DCBP (S)	9.610	10.743	7324286	8356479	49.099	46.960	
	Target Compounds							
2)	a-BHC	5.944	6.736	13216845	22089318	50.223	53.491	
3)	g-BHC	6.226	7.055	11708116	19348411	50.142	52.995	
4)	b-BHC	6.302	7.116	4896621	7821870	50.205	48.626	
5)	Heptachlor	6.640	7.436	11436571	18476010	50.329	52.120	
6)	d-BHC	6.452	7.375	11429030	18657508	52.465	52.359	
7)	Aldrin	6.882	7.705	11087840	17419751	50.253	52.303	
8)	Heptachlo...	7.342	8.143	9998611	15668568	48.500	50.866	
9)	trans-Chl...	7.438	8.284	10533023	15828140	49.986	50.759	
10)	cis-Chlor...	7.535	8.392	9997532	15222666	48.857	51.316	
11)	Endosulfa...	7.631	8.444	9321509	14247679	48.098	51.272	
12)	4,4'-DDE	7.595	8.492	10548305	16343004	51.159	52.768	
13)	Dieldrin	7.804	8.646	10540242	16218456	48.939	52.499	
14)	Endrin	7.969	8.875	8377116	11897358	48.418	50.634	
15)	4,4'-DDD	8.016	8.910	8716356	13105625	50.485	53.317	
16)	Endosulfa...	8.126	9.022	8170502	12207870	47.888	49.971	
17)	4,4'-DDT	8.215	9.139	8824873	12576988	53.270	53.570	
18)	Endrin Al...	8.416	9.259	7206121	10910333	47.064	48.793	
19)	Endosulfa...	8.718	9.450	7989432	11599024	49.923	52.326	
20)	Methoxychlor	8.552	9.616	4344332	6115403	50.161	51.420	
21)	Endrin Ke...	8.912	9.855	9580043	12905122	50.165	51.531	
23)	Hexachlor...	3.225f	0.000	7000	0	0.035	N.D.	#
24)	Hexachlor...	5.769	6.613	20287	10058	BelowCal	0.031	
25)	Oxychlordane	7.277	0.000	57135	0	0.124	N.D.	#
26)	2,4'-DDE	7.342	8.284	9998611	15828140	70.121	75.161	
27)	trans-Non...	7.535	8.346	9997532	49880	50.053	0.162	#
28)	2,4'-DDD	0.000	8.646	0	16218456	N.D.	87.934	#
29)	2,4'-DDT	7.901	8.875	38527	11897358	0.263	58.268	#
30)	cis-Nonac...	8.016f	8.910	8716356	13105625	36.982	38.417	
31)	Mirex	8.665	9.855	33796	12905122	0.004	69.254	#
32)	Chlordane...	7.438	8.284	10533023	15828140	448.947	406.925	
33)	Chlordane...	7.535	8.392	9997532	15222666	346.887	474.257	
34)	Chlordane...	0.000	9.094f	0	56142	N.D.	5.288	#
35)	Chlordane...	3.810	0.000	427449	0	NoCal	N.D.	
36)	Toxaphene...	7.535f	8.646f	9997532	16218456	9492.332	5997.268	
37)	Toxaphene...	7.804	0.000	10540242	0	5420.083	N.D.	#
38)	Toxaphene...	8.126	9.022	8170502	12207870	1902.876	2032.329	
39)	Toxaphene...	8.337f	9.094f	240812	56142	59.606	6.220	#
40)	Toxaphene...	8.597	9.259	106499	10910333	32.393	2172.528	#
41)	Toxaphene...	8.665	9.616	33796	6115403	7.783	1089.281	#
42)	Toxaphene...	3.810	0.000	427449	0	NoCal	N.D.	

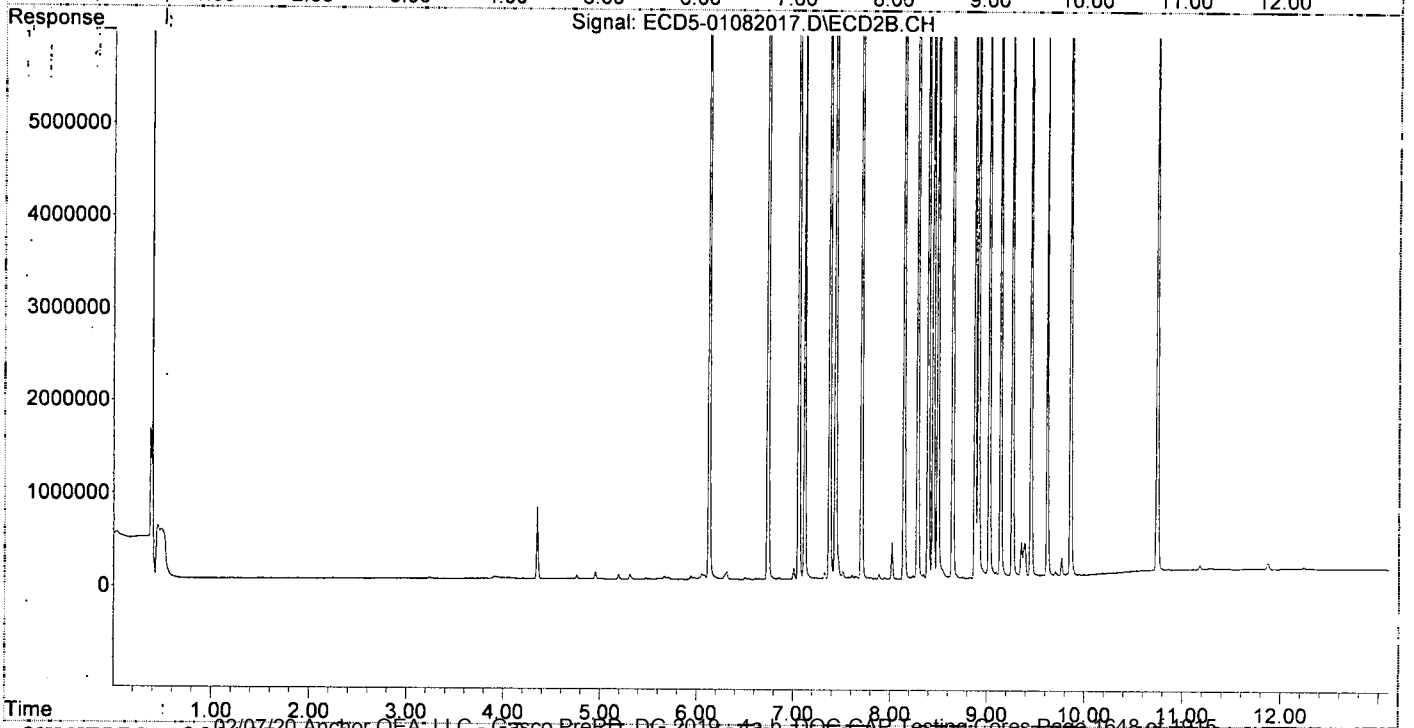
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 16:33
Operator : MJB
Sample : 0A08041-CAL7
Misc : A19K133, AB 50 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: Jan 09 15:21:30 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 16:50
Operator : MJB
Sample : 0A08041-CAL8
Misc : A19K134, AB 100 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: Jan 09 15:21:37 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

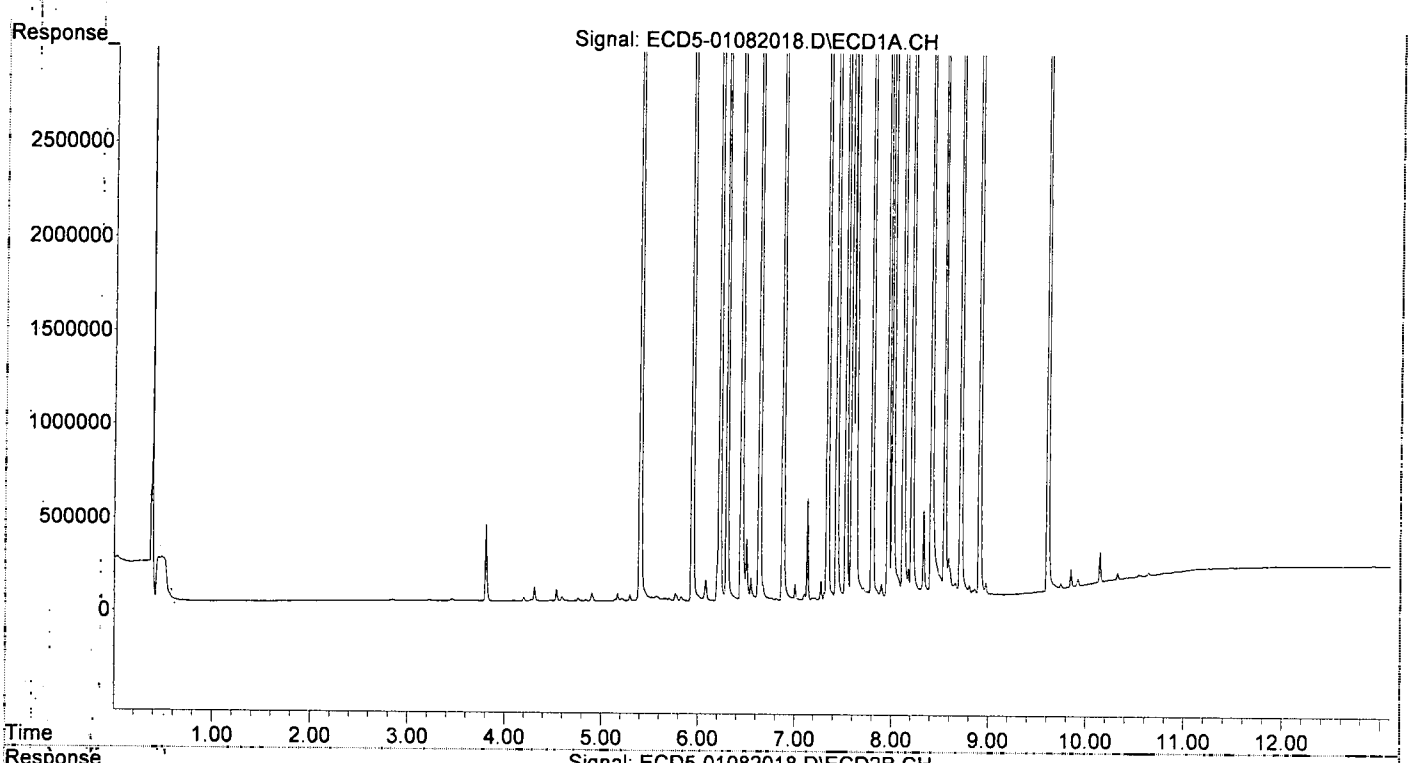
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.402	6.126	18608009	30726323	95.298	103.080	
22)	S DCBP (S)	9.609	10.740	14736356	18325862	99.567	102.985	
	Target Compounds							
2)	a-BHC	5.942	6.734	26761777	46009925	101.692	111.417	
3)	g-BHC	6.225	7.054	23719186	40108652	101.581	109.857	
4)	b-BHC	6.301	7.114	9778496	15872194	101.308	98.673	
5)	Heptachlor	6.638	7.434	22525924	39120687	99.130	110.358	
6)	d-BHC	6.450	7.373	22559943	39888976	103.561	105.607	
7)	Aldrin	6.879	7.703	21827668	36118456	98.929	108.445	
8)	Heptachlo...	7.340	8.141	19866372	32905611	96.366	106.824	
9)	trans-Chl...	7.436	8.282	20684116	32788413	98.160	105.148	
10)	cis-Chlor...	7.533	8.390	19622551	31325513	95.894	105.599	
11)	Endosulfa...	7.630	8.442	18668180	29837370	96.325	107.374	
12)	4,4'-DDE	7.593	8.491	20981322	34240158	101.759	104.246	
13)	Dieldrin	7.802	8.644	21752074	34067227	100.995	110.275	
14)	Endrin	7.967	8.873	16990601	25511288	98.201	108.575	
15)	4,4'-DDD	8.015	8.908	17753200	27404752	102.825	111.489	
16)	Endosulfa...	8.124	9.020	16571029	26285916	97.123	107.598	
17)	4,4'-DDT	8.214	9.138	17230392	27045966	104.009	105.736	
18)	Endrin Al...	8.414	9.257	14322834	23088226	93.545	103.255	
19)	Endosulfa...	8.716	9.448	15517798	24531265	96.964	110.666	
20)	Methoxychlor	8.550	9.615	8765747	13401490	101.211	112.683	
21)	Endrin Ke...	8.910	9.854	19103565	28057636	100.034	112.037	
23)	Hexachlor...	3.224	0.000	6894	0	0.035	N.D.	#
24)	Hexachlor...	5.768	6.611	38414	10513	0.044	0.033	
25)	Oxychlordane	7.275	8.101f	98982	7937	0.364	0.028	#
26)	2,4'-DDE	7.340	8.282	19866372	32788413	139.324	155.697	
27)	trans-Non...	7.533	8.344	19622551	86189	97.974	0.280	#
28)	2,4'-DDD	7.715	8.644	57668	34067227	0.453	184.706	#
29)	2,4'-DDT	7.899	8.873	74166	25511288	0.506	114.294	#
30)	cis-Nonac...	8.015	8.908	17753200	27404752	75.323	80.333	
31)	Mirex	8.663	9.854	69764	28057636	0.271	140.604	#
32)	Chlordane...	7.436	8.282	20684116	32788413	881.615	842.956	
33)	Chlordane...	7.533	8.390	19622551	31325513	680.848	975.936	#
34)	Chlordane...	0.000	9.092f	0	110953	N.D.	10.450	#
35)	Chlordane...	3.808	0.000	409999	0	NoCal	N.D.	
36)	Toxaphene...	7.533f	8.611	19622551	37888	18630.975	14.010	#
37)	Toxaphene...	7.802	0.000	21752074	0	11185.517	N.D.	#
38)	Toxaphene...	8.124	9.020	16571029	26285916	3771.828	3866.715	
39)	Toxaphene...	8.335f	9.092	462719	110953	114.533	12.293	#
40)	Toxaphene...	8.595	9.257	202701	23088226	61.653	4597.460	#
41)	Toxaphene...	8.663	9.615	69764	13401490	16.066	2387.084	#
42)	Toxaphene...	3.808	0.000	409999	0	NoCal	N.D.	

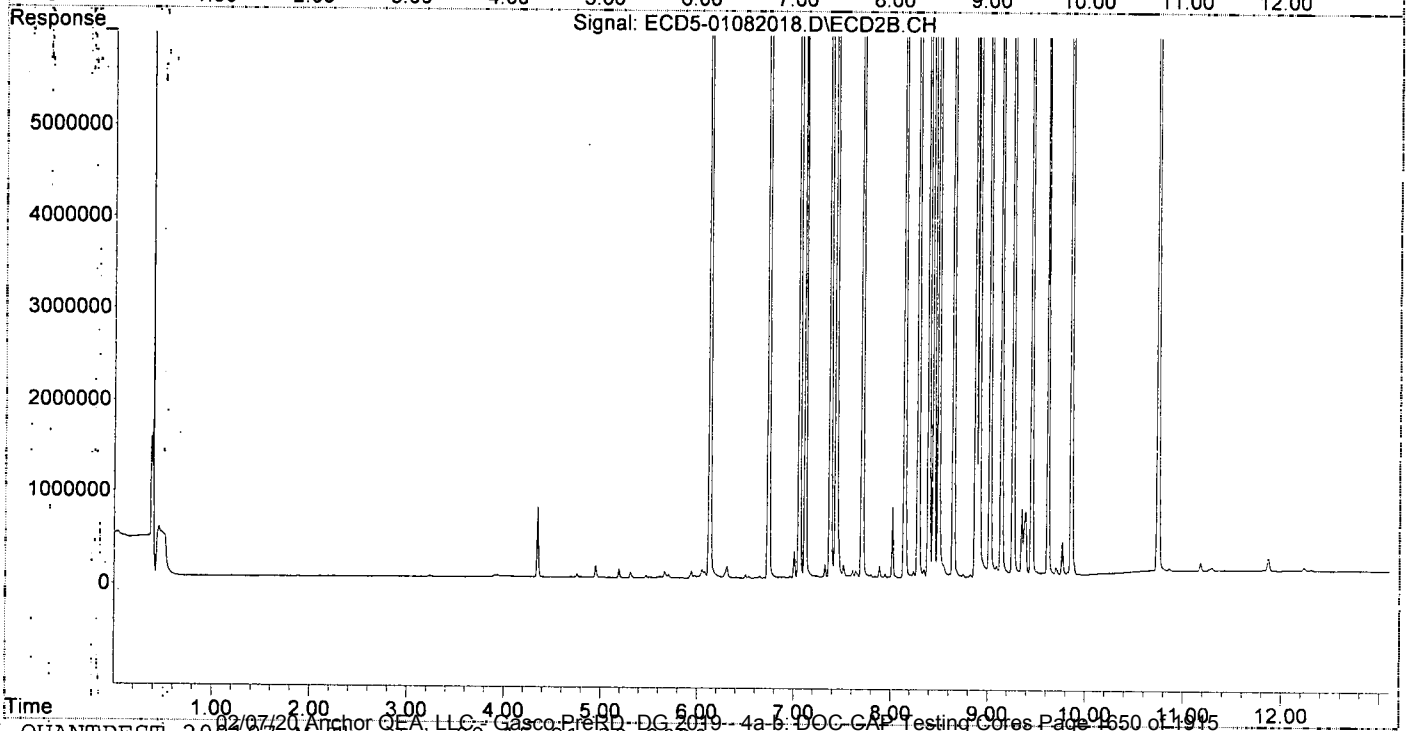
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 16:50
Operator : MJB
Sample : 0A08041-CAL8
Misc : A19K134, AB 100 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: Jan 09 15:21:37 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:07
Operator : MJB
Sample : 0A08041-CAL9
Misc : A19K126, AB 200 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: Jan 09 15:21:44 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

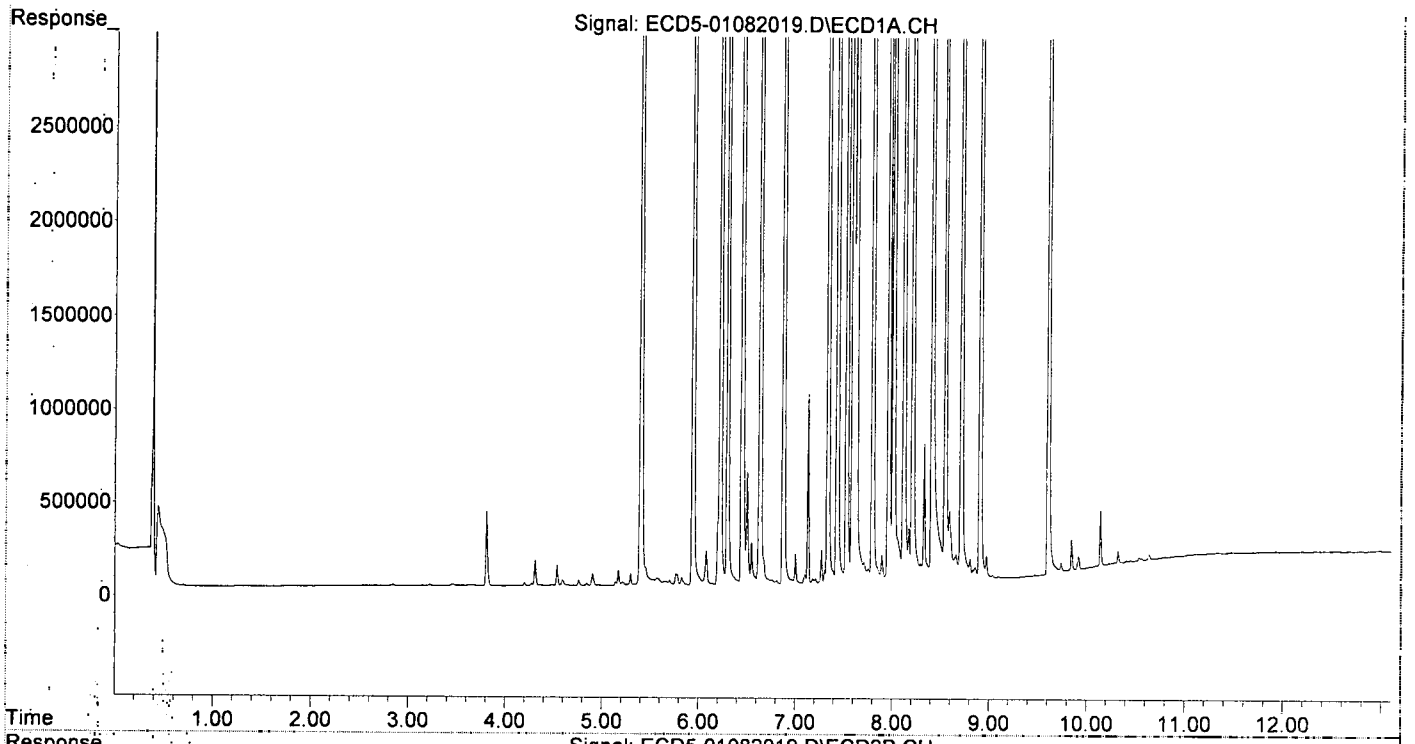
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.402	6.127	36004194	63805007	184.390	214.051	
22)	S	DCBP (S)	9.608	10.740	29522105	37530513	202.209	210.908	
		Target Compounds							
2)		a-BHC	5.942	6.735	51378594	94490351	195.234	228.817	
3)		g-BHC	6.225	7.055	45740727	81152836	195.891	222.277	
4)		b-BHC	6.300	7.114	18885723	32003158	199.163	198.954	
5)		Heptachlor	6.637	7.434	43921584	78012422	193.286	220.071	
6)		d-BHC	6.450	7.373	44016986	79563682	202.059	192.875	
7)		Aldrin	6.878	7.703	42282992	73697118	191.639	221.275	
8)		Heptachlo...	7.339	8.141	38629005	67266896	187.378	218.373	
9)		trans-Chl...	7.435	8.282	40459355	67463571	192.007	216.347	
10)		cis-Chlor...	7.532	8.390	38789603	63748867	189.562	214.898	
11)		Endosulfa...	7.629	8.442	36273958	61251233	187.169	220.421	
12)		4,4'-DDE	7.592	8.491	40550794	70133432	196.671	194.220	
13)		Dieldrin	7.801	8.643	42048253	69685127	195.231	225.569	
14)		Endrin	7.966	8.874	33554398	54542107	193.936	232.128	
15)		4,4'-DDD	8.014	8.909	34664444	57884644	200.774	235.489	
16)		Endosulfa...	8.123	9.020	32037931	56742124	187.775	232.266	
17)		4,4'-DDT	8.213	9.138	33779701	56160769	203.908	193.063	
18)		Endrin Al...	8.414	9.257	28205265	46664440	184.213	208.693	
19)		Endosulfa...	8.716	9.449	30589878	50080530	191.143	225.924	
20)		Methoxychlor	8.549	9.614	16842837	27125539	194.471	228.079	
21)		Endrin Ke...	8.911	9.854	38218148	59346864	200.126	236.978	
23)		Hexachlor...	3.223	0.000	6084	0	0.031	N.D.	#
24)		Hexachlor...	5.768	6.605	62990	11865	0.171	0.037	#
25)		Oxychlordane	7.274	8.058	176557	22974	0.809	0.082	#
26)		2,4'-DDE	7.339	8.282	38629005	67463571	270.907	320.354	
27)		trans-Non...	7.532	8.343	38789603	148824	192.223	0.484	#
28)		2,4'-DDD	7.714	8.643	101817	69685127	0.800	377.820	#
29)		2,4'-DDT	7.897	8.874	137514	54542107	0.939	212.438	#
30)		cis-Nonac...	8.014	8.909	34664444	57884644	147.073	169.680	
31)		Mirex	8.663	9.854	128855	59346864	0.709	265.905	#
32)		Chlordane...	7.435	8.282	40459355	67463571	1724.492	1734.418	
33)		Chlordane...	7.532	8.390	38789603	63748867	1345.891	1986.074	#
34)		Chlordane...	0.000	9.091f	0	190257	N.D.	17.919	#
35)		Chlordane...	3.808	0.000	397238	0	NoCal	N.D.	
36)		Toxaphene...	7.532f	8.610	38789603	58664	36829.468	21.693	#
37)		Toxaphene...	7.801	0.000	42048253	0	21622.373	N.D.	#
38)		Toxaphene...	8.123	9.020	32037931	56742124	7008.109	6969.259	
39)		Toxaphene...	8.334f	9.091	724794	190257	179.403	21.080	#
40)		Toxaphene...	8.594	9.257	363464	46664440	110.550	9292.091	#
41)		Toxaphene...	8.663	9.614	128855	27125539	29.674	4831.623	#
42)		Toxaphene...	3.808	0.000	397238	0	NoCal	N.D.	

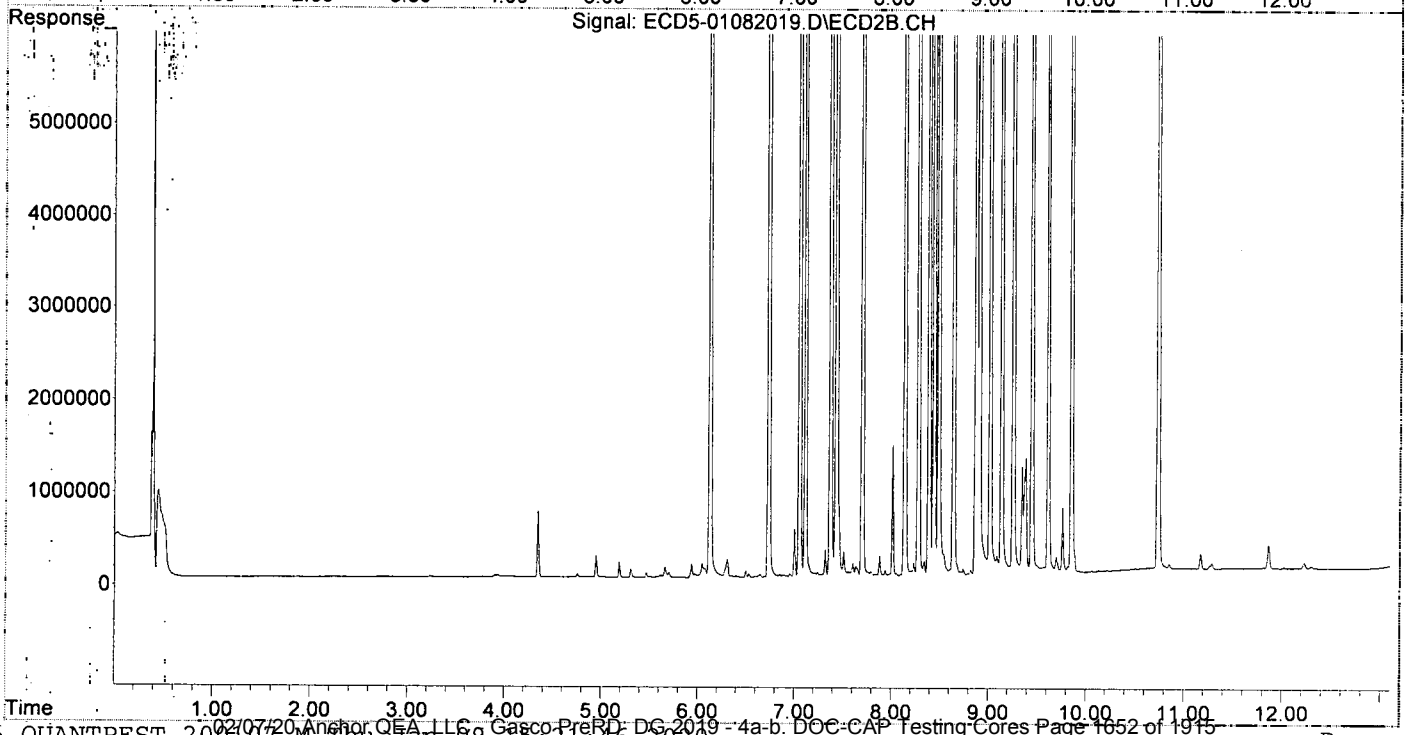
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:07
Operator : MJB
Sample : 0A08041-CAL9
Misc : A19K126, AB 200 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: Jan 09 15:21:44 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:59
Operator : MJB
Sample : 0A08041-CALA
Misc : A20A096, 9-42 0.5 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: Jan 09 11:28:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 1/9/20

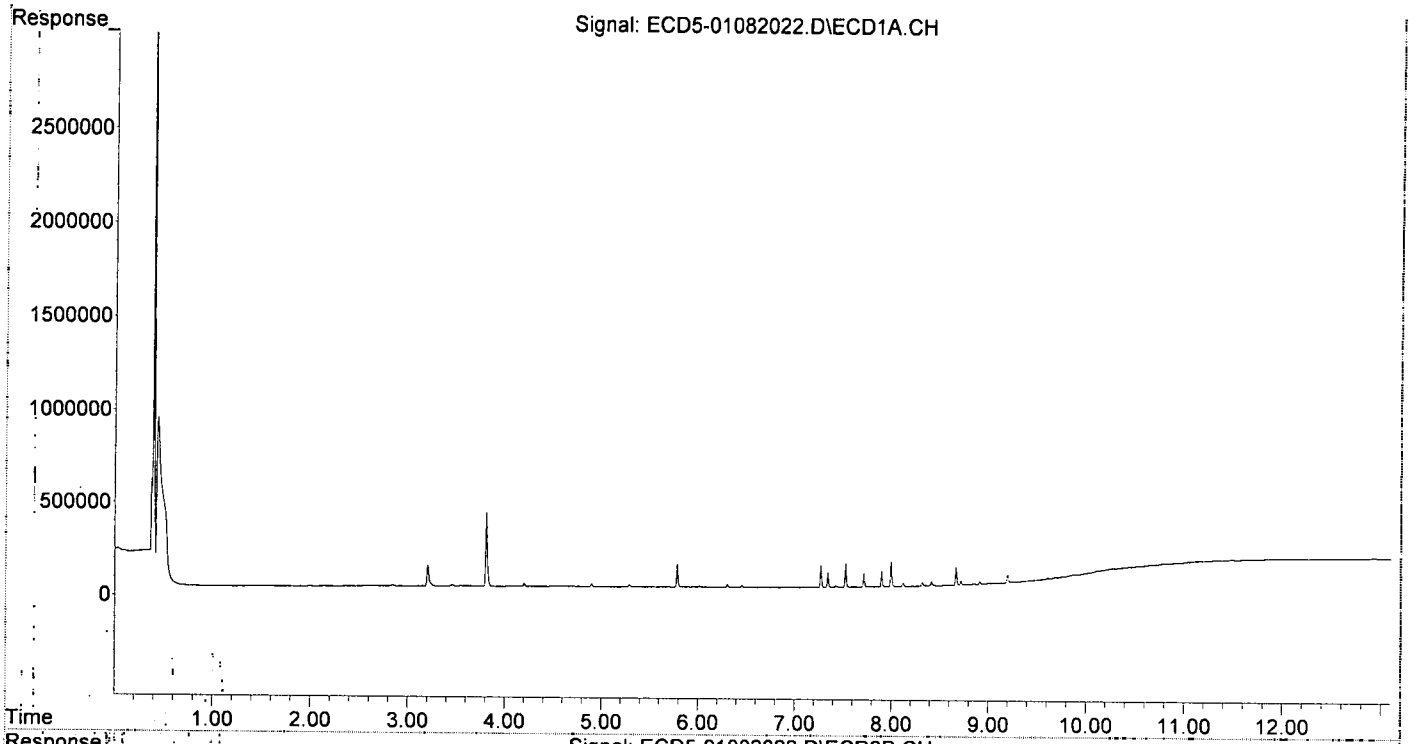
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.123	0	9793	N.D.	0.033	#
22)	S DCBP (S)	9.609	10.742	7330	5225	8131.936	0.029	#
	Target Compounds							
2)	a-BHC	5.948	0.000	3356	0	0.013	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.303	7.114	14822	8788	5931.851	0.055	#
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)	d-BHC	6.451	7.372	10898	16667	0.050	0.107	#
7)	Aldrin	0.000	7.704	0	13478	N.D.	0.040	#
8)	Heptachlo...	7.343	0.000	81726	0	0.396	N.D.	#
9)	trans-Chl...	7.421	8.268	7409	115006	0.035	0.369	#
10)	cis-Chlor...	7.527	0.000	126746	0	0.619	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	7.764f	8.643	3361	101849	0.016	0.330	#
14)	Endrin	7.997f	8.870	134243	108578	0.776	0.462	#
15)	4,4'-DDD	7.997	8.913	134243	177850	0.778	0.724	
16)	Endosulfa...	8.121	9.019	20280	13820	0.119	0.057	#
17)	4,4'-DDT	8.214	0.000	1986	0	0.012	N.D.	#
18)	Endrin Al...	8.415	9.256	21782	29354	0.142	0.131	
19)	Endosulfa...	8.717	9.447	20857	24871	0.130	0.112	
20)	Methoxychlor	0.000	9.615	0	2009	N.D.	0.017	#
21)	Endrin Ke...	8.911	9.851	12498	127755	0.065	0.510	#
23)	Hexachlor...	3.203	3.812	111441	211151	0.559	0.527	
24)	Hexachlor...	5.783	6.595	122709	175732	0.481	0.549	
25)	Oxychlordane	7.270	8.069	118861	156922	0.478	0.561	
26)	2,4'-DDE	7.343	8.268	81726	115006	0.573	0.546	
27)	trans-Non...	7.527	8.345	126746	167484	0.483	0.545	
28)	2,4'-DDD	7.716	8.643	71868	101849	0.565	0.552	
29)	2,4'-DDT	7.899	8.870	83331	108578	0.569	0.486	
30)	cis-Nonac...	7.997	8.913	134243	177850	0.570	0.521	
31)	Mirex	8.667	9.851	96444	127755	0.468	0.470	
32)	Chlordane...	7.421	8.268	7409	115006	0.316	2.957	#
33)	Chlordane...	7.527	0.000	126746	0	4.398	N.D.	#
34)	Chlordane...	0.000	9.051	0	32420	N.D.	3.053	#
35)	Chlordane...	3.808	3.812	394864	211151	NoCal	NoCal	
36)	Toxaphene...	7.527	8.643f	126746	101849	120.341	37.662	#
37)	Toxaphene...	0.000	8.999f	0	18267	N.D.	5.245	#
38)	Toxaphene...	8.121	8.999	20280	18267	0.692	BelowCal	#
39)	Toxaphene...	0.000	9.051f	0	32420	N.D.	3.592	#
40)	Toxaphene...	0.000	9.256	0	29354	N.D.	5.845	#
41)	Toxaphene...	8.667	9.615	96444	2009	22.210	0.358	#
42)	Toxaphene...	3.808	3.812	394864	211151	NoCal	NoCal	

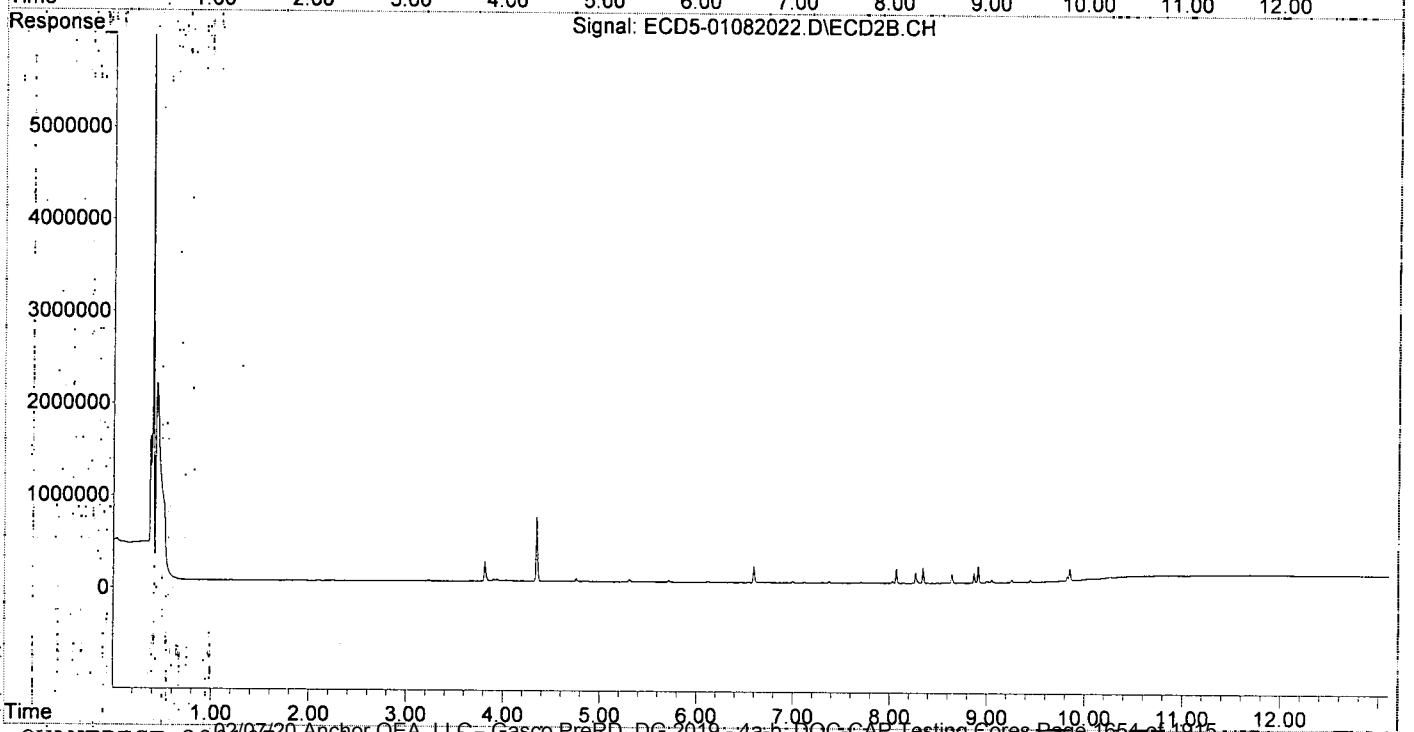
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:59
Operator : MJB
Sample : 0A08041-CALA
Misc : A20A096, 9-42 0.5 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: Jan 09 11:28:46 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 18:16
Operator : MJB
Sample : 0A08041-CALB
Misc : A19K263, 9-42 1 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: Jan 09 11:29:07 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

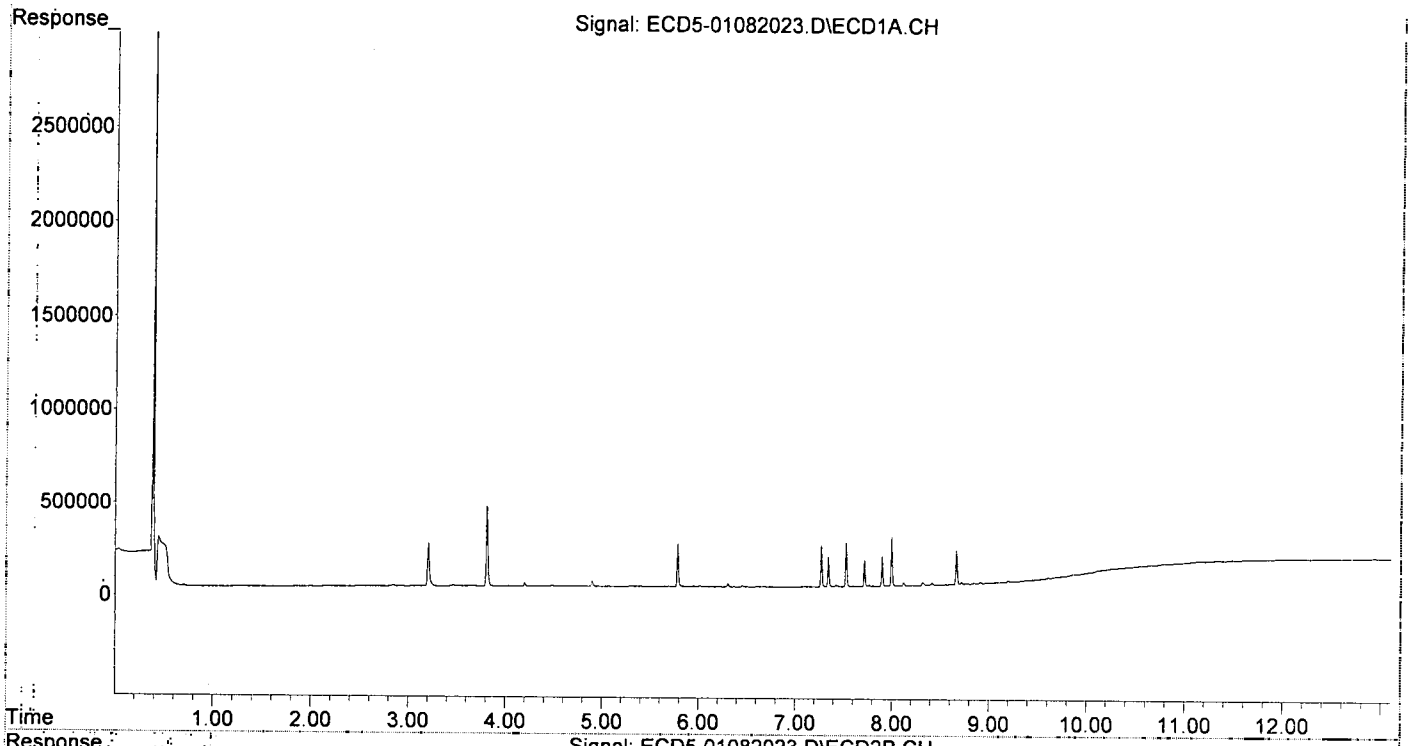
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.125	0	9319	N.D.	0.031	#
22)	S DCBP (S)	9.609	10.740	8276	6867	8131.930	0.039	#
	Target Compounds							
2)	a-BHC	5.948	0.000	3587	0	0.014	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.303	7.115	18553	12880	0.022	0.080	#
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)	d-BHC	6.451	7.372	7294	11154	0.033	0.091	#
7)	Aldrin	0.000	7.705	0	13529	N.D.	0.041	#
8)	Heptachlo...	7.343	0.000	161136	0	0.782	N.D.	#
9)	trans-Chl...	7.423	8.269	7950	220925	0.038	0.708	#
10)	cis-Chlor...	7.527	0.000	240849	0	1.177	N.D.	#
11)	Endosulfa...	7.593f	0.000	2151	0	0.011	N.D.	#
12)	4,4'-DDE	7.593	0.000	2151	0	0.010	N.D.	#
13)	Dieldrin	7.804	8.644	3226	193608	0.015	0.627	#
14)	Endrin	7.997f	8.871	263651	215626	1.524	0.918	
15)	4,4'-DDD	7.997	8.914	263651	344851	1.527	1.403	
16)	Endosulfa...	8.122	9.019	19206	9934	0.113	0.041	#
17)	4,4'-DDT	8.214	0.000	2581	0	0.016	N.D.	#
18)	Endrin Al...	8.415	9.257	12354	15833	0.081	0.071	
19)	Endosulfa...	8.717	9.448	12580	14348	0.079	0.065	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.911	9.851	9517	237397	0.050	0.948	#
23)	Hexachlor...	3.204	3.812	233620	433391	1.171	1.082	
24)	Hexachlor...	5.783	6.595	233462	346466	1.056	1.082	
25)	Oxychlordane	7.271	8.070	223883	298417	1.080	1.067	
26)	2,4'-DDE	7.343	8.269	161136	220925	1.130	1.049	
27)	trans-Non...	7.527	8.345	240849	328300	1.058	1.068	
28)	2,4'-DDD	7.716	8.644	143303	193608	1.126	1.050	
29)	2,4'-DDT	7.900	8.871	162358	215626	1.108	1.066	
30)	cis-Nonac...	7.997	8.914	263651	344851	1.119	1.011	
31)	Mirex	8.667	9.851	181371	237397	1.098	1.105	
32)	Chlordane...	7.423	8.269	7950	220925	0.339	5.680	#
33)	Chlordane...	7.527	0.000	240849	0	8.357	N.D.	#
34)	Chlordane...	0.000	9.053	0	30787	N.D.	2.900	#
35)	Chlordane...	3.808	3.812	430003	433391	NoCal	NoCal	
36)	Toxaphene...	7.527	8.644f	240849	193608	228.678	71.592	#
37)	Toxaphene...	7.804	8.999f	3226	19180	1.659	5.507	#
38)	Toxaphene...	8.122	8.999	19206	19180	0.435	BelowCal	#
39)	Toxaphene...	8.319f	9.053	17752	30787	4.394	3.411	
40)	Toxaphene...	0.000	9.257	0	15833	N.D.	3.153	#
41)	Toxaphene...	8.667	0.000	181371	0	41.768	N.D.	#
42)	Toxaphene...	3.808	3.812	430003	433391	NoCal	NoCal	

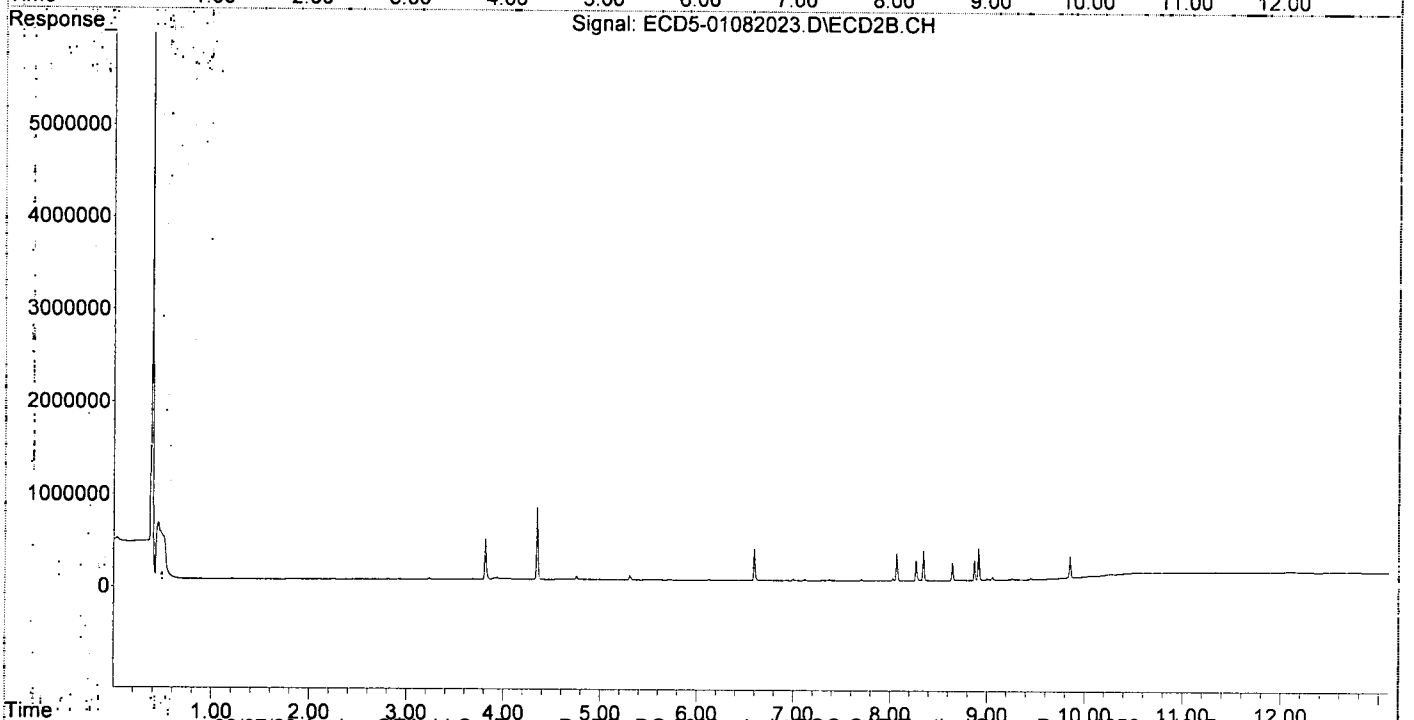
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 18:16
Operator : MJB
Sample : 0A08041-CALB
Misc : A19K263, 9-42 1 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: Jan 09 11:29:07 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 18:33
Operator : MJB
Sample : 0A08041-CALC
Misc : A19K264, 9-42 2 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: Jan 09 11:29:23 2020
Quant Method: R:\methods\ECD5_QUANTPEST_200107.M
Quant Title: Instrument: DualECD5
QLast Update: Thu Jan 09 11:11:29 2020
Response via: Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

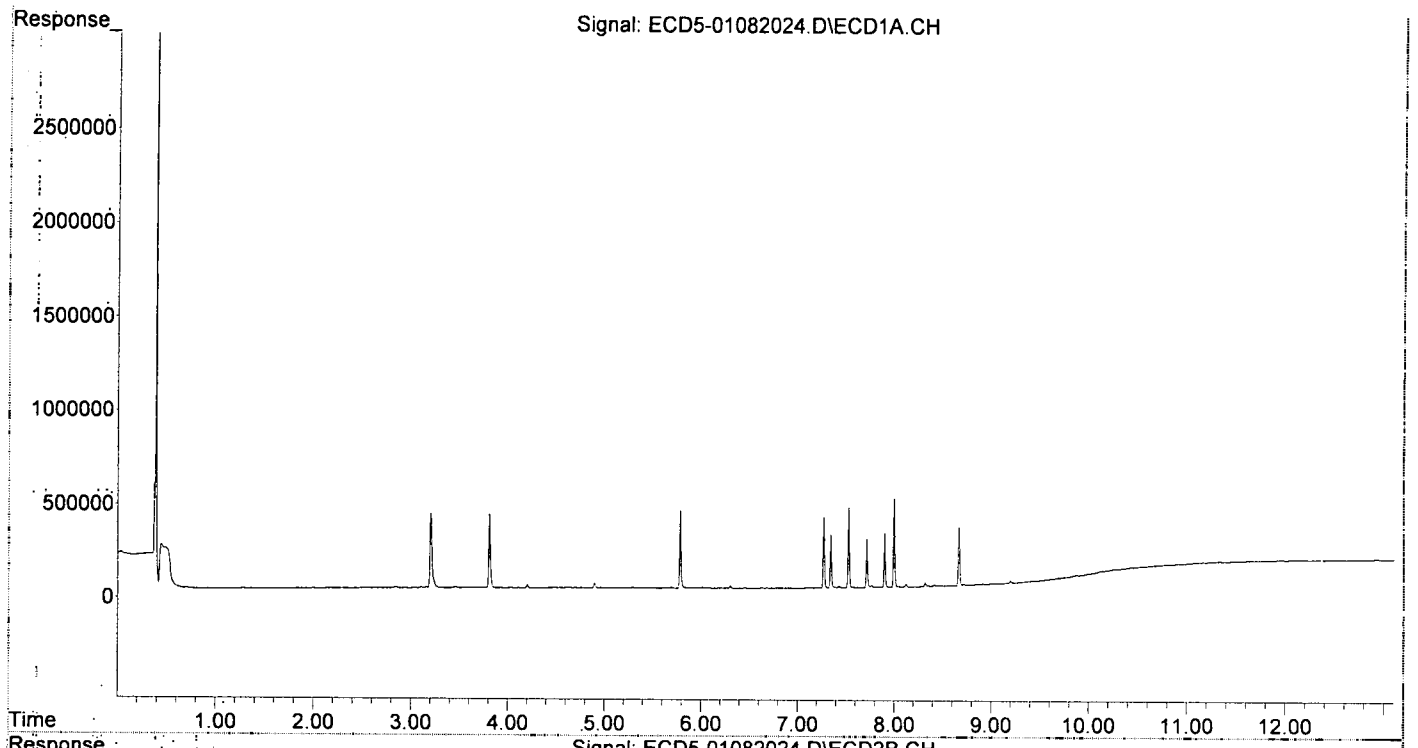
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.125	0	9225	N.D.	0.031	#
22)	S DCBP (S)	9.609	10.744	8599	6530	8131.928	0.037	#
	Target Compounds							
2)	a-BHC	5.948	0.000	2896	0	0.011	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.303	0.000	12293	0	5931.877	N.D.	#
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)	d-BHC	6.452	7.372	4541	6885	0.021	0.078	#
7)	Aldrin	0.000	7.705	0	11016	N.D.	0.033	#
8)	Heptachlo...	7.343	0.000	286330	0	1.389	N.D.	#
9)	trans-Chl...	7.423	8.269	6682	399650	0.032	1.282	#
10)	cis-Chlor...	7.527	0.000	424879	0	2.076	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	7.764f	8.644	12244	345575	0.057	1.119	#
14)	Endrin	7.997f	8.871	471473	367900	2.725	1.566	#
15)	4,4'-DDD	7.997	8.914	471473	627227	2.731	2.552	
16)	Endosulfa...	8.120	8.999f	15406	17250	0.090	0.071	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.415	9.257	7625	9030	0.050	0.040	
19)	Endosulfa...	8.717	9.448	6228	7337	0.039	0.033	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.911	9.851	4458	390163	0.023	1.558	#
23)	Hexachlor...	3.204	3.812	399253	769290	2.002	1.920	
24)	Hexachlor...	5.783	6.595	418552	608347	2.017	1.900	
25)	Oxychlordane	7.270	8.070	376867	529184	1.958	1.892	
26)	2,4'-DDE	7.343	8.269	286330	399650	2.008	1.898	
27)	trans-Non...	7.527	8.345	424879	574207	1.986	1.867	
28)	2,4'-DDD	7.716	8.644	258533	345575	2.032	1.874	
29)	2,4'-DDT	7.899	8.871	289368	367900	1.976	1.890	
30)	cis-Nonac...	7.997	8.914	471473	627227	2.000	1.839	
31)	Mirex	8.667	9.851	308615	390163	2.042	1.987	
32)	Chlordane...	7.423	8.269	6682	399650	0.285	10.275	#
33)	Chlordane...	7.527	0.000	424879	0	14.742	N.D.	#
34)	Chlordane...	0.000	9.053	0	32232	N.D.	3.036	#
35)	Chlordane...	3.808	3.812	396227	769290	NoCal	NoCal	
36)	Toxaphene...	7.527	8.644f	424879	345575	403.409	127.787	#
37)	Toxaphene...	7.764f	8.999f	12244	17250	6.296	4.953	
38)	Toxaphene...	8.120	8.999	15406	17250	BelowCal	BelowCal	
39)	Toxaphene...	8.319f	9.053	17956	32232	4.444	3.571	
40)	Toxaphene...	0.000	9.257	0	9030	N.D.	1.798	#
41)	Toxaphene...	8.667	0.000	308615	0	71.071	N.D.	#
42)	Toxaphene...	3.808	3.812	396227	769290	NoCal	NoCal	

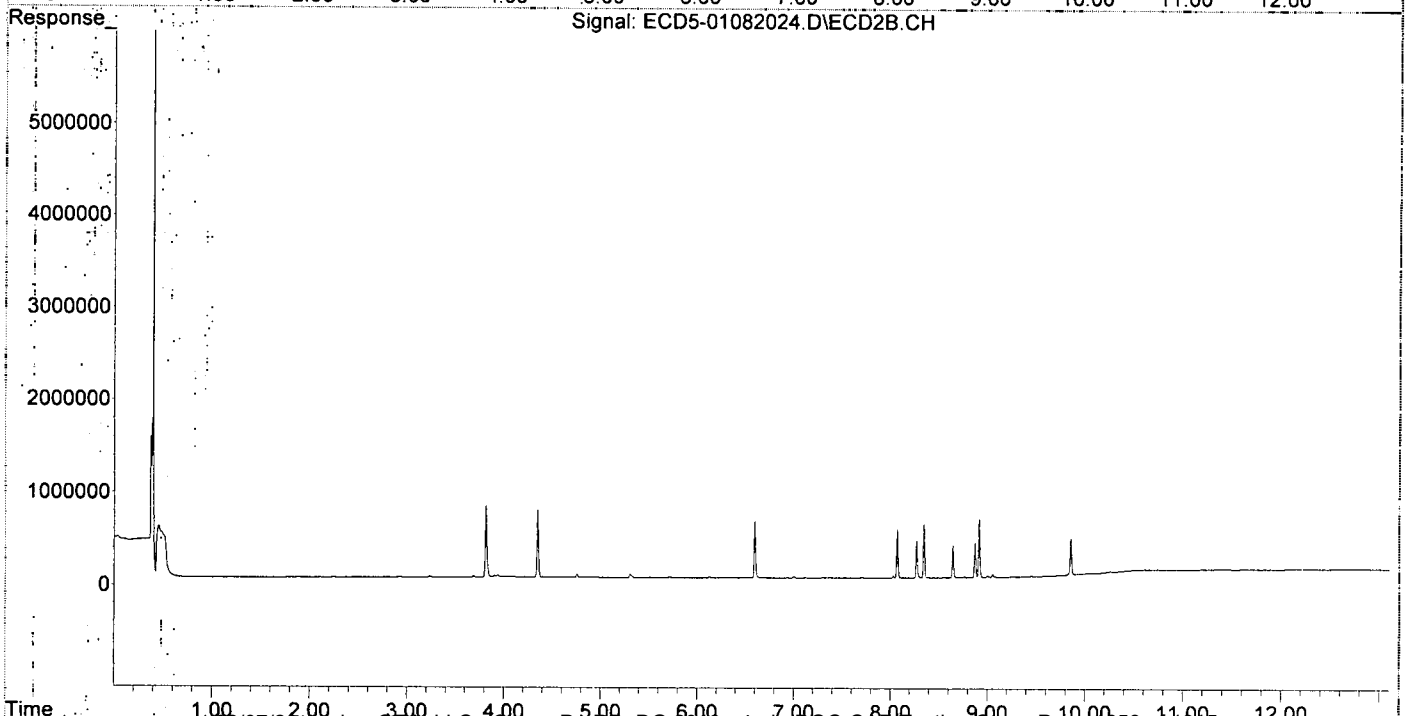
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 18:33
Operator : MJB
Sample : 0A08041-CALC
Misc : A19K264, 9-42 2 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: Jan 09 11:29:23 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 18:51
Operator : MJB
Sample : 0A08041-CALD
Misc : A19K265, 9-42 5 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: Jan 09 11:29:37 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

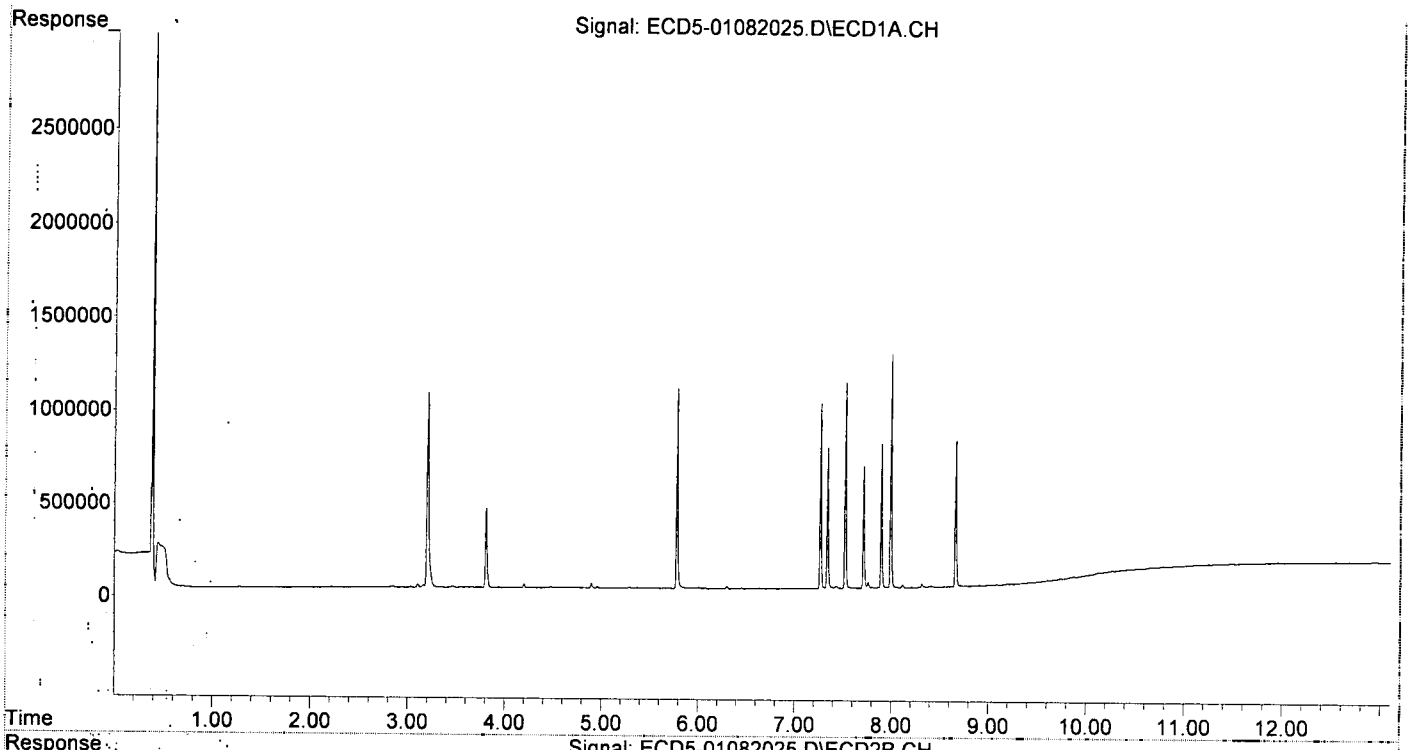
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.374f	0.000	2937	0	0.015	N.D.	#
22)	S DCBP (S)	9.607	10.740	8489	13065	8131.928	0.073	#
	Target Compounds							
2)	a-BHC	5.944	0.000	5372	0	0.020	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.300	0.000	15250	0	5931.847	N.D.	#
5)	Heptachlor	6.637	0.000	3578	0	0.016	N.D.	#
6)	d-BHC	6.451	7.372	5501	7862	0.025	0.081	#
7)	Aldrin	0.000	7.704	0	12874	N.D.	0.039	#
8)	Heptachlo...	7.342	8.141	750391	8611	3.640	0.028	#
9)	trans-Chl...	7.437	8.269	11992	1064459	0.057	3.414	#
10)	cis-Chlor...	7.526	8.387	1102633	7682	5.388	0.026	#
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	8.643	0	924181	N.D.	2.992	#
14)	Endrin	7.996f	8.870	1247247	1030344	7.209	4.385	
15)	4,4'-DDD	7.996	8.913	1247247	1678168	7.224	6.827	
16)	Endosulfa...	8.118	8.998f	16102	20216	0.094	0.083	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.414	9.256	6990	8524	0.046	0.038	
19)	Endosulfa...	8.715	9.447	7222	6140	0.045	0.028	
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.911	9.850	3719	1002877	0.019	4.005	#
23)	Hexachlor...	3.204	3.812	1045541	2029333	5.242	5.064	
24)	Hexachlor...	5.783	6.595	1068601	1591805	5.391	4.973	
25)	Oxychlordane	7.269	8.069	992877	1413459	5.489	5.054	
26)	2,4'-DDE	7.342	8.269	750391	1064459	5.263	5.055	
27)	trans-Non...	7.526	8.345	1102633	1536268	5.403	4.996	✓
28)	2,4'-DDD	7.715	8.643	654513	924181	5.144	5.011	
29)	2,4'-DDT	7.899	8.870	769647	1030344	5.254	5.443	
30)	cis-Nonac...	7.996	8.913	1247247	1678168	5.292	4.919	
31)	Mirex	8.666	9.850	779540	1002877	5.538	5.510	
32)	Chlordane...	7.437	8.269	11992	1064459	0.511	27.366	#
33)	Chlordane...	7.526	8.387	1102633	7682	38.258	0.239	#
34)	Chlordane...	8.118f	9.052	16102	32317	2.117	3.044	#
35)	Chlordane...	3.808	3.812	428028	2029333	NoCal	NoCal	
36)	Toxaphene...	7.526	8.643f	1102633	924181	1046.915	341.744	#
37)	Toxaphene...	0.000	8.998f	0	20216	N.D.	5.805	#
38)	Toxaphene...	8.118	8.998	16102	20216	BelowCal	BelowCal	
39)	Toxaphene...	8.318f	9.052f	18822	32317	4.659	3.581	
40)	Toxaphene...	0.000	9.256	0	8524	N.D.	1.697	#
41)	Toxaphene...	8.666	0.000	779540	0	179.520	N.D.	#
42)	Toxaphene...	3.808	3.812	428028	2029333	NoCal	NoCal	

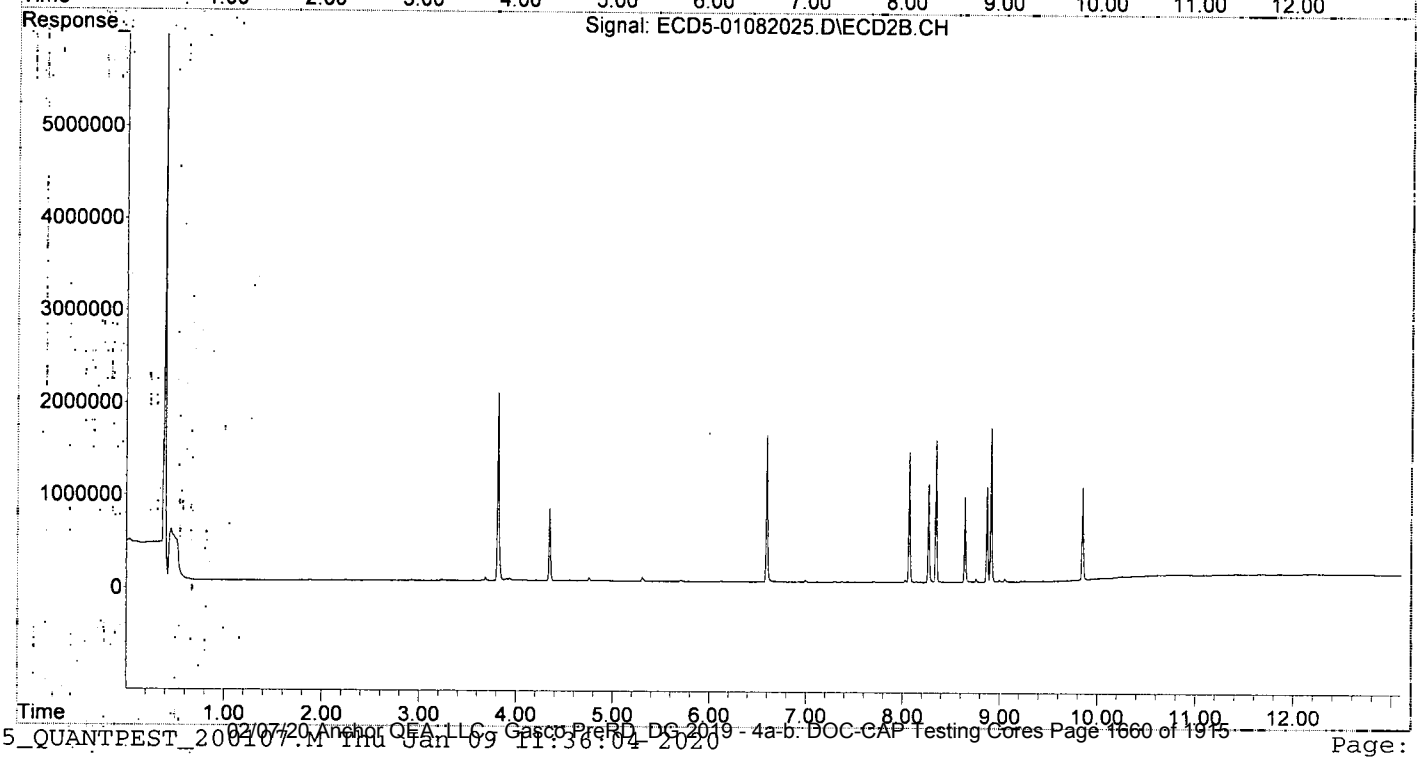
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 18:51
Operator : MJB
Sample : 0A08041-CALD
Misc : A19K265, 9-42 5 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: Jan 09 11:29:37 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:08
Operator : MJB
Sample : 0A08041-CALE
Misc : A19K266, 9-42 10 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: Jan 09 11:29:53 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJP 1/9/20

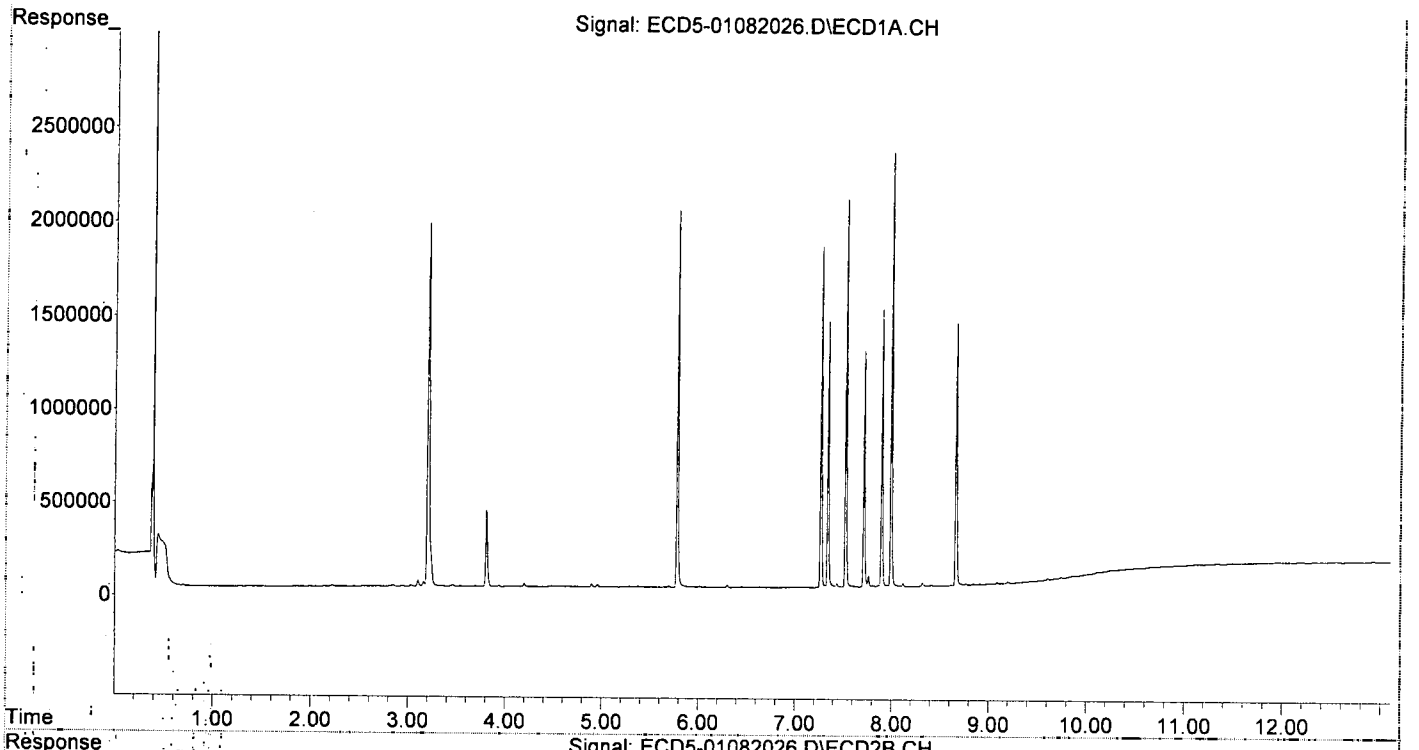
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.374f	6.123	4995	9213	0.026	0.031	
22)	S DCBP (S)	9.608	10.738	14339	10091	8131.889	0.057	#
	Target Compounds							
2)	a-BHC	5.947	0.000	5246	0	0.020	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.301	0.000	13900	0	5931.860	N.D.	#
5)	Heptachlor	6.637	0.000	3836	0	0.017	N.D.	#
6)	d-BHC	6.451	7.371	4222	6789	0.019	0.078	#
7)	Aldrin	0.000	7.703	0	7202	N.D.	0.022	#
8)	Heptachlo...	7.342	8.138	1426392	11026	6.919	0.036	#
9)	trans-Chl...	7.436	8.268	20121	2004027	0.095	6.427	#
10)	cis-Chlor...	7.525	8.386	2076481	12938	10.148	0.044	#
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	7.805	8.642	7225	1737598	0.034	5.625	#
14)	Endrin	7.961	8.870	6678	1992196	0.039	8.479	#
15)	4,4'-DDD	7.995f	8.912	2325112	3312382	13.467	13.476	
16)	Endosulfa...	8.119	8.997f	16894	20873	0.099	0.085	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.414	9.255	5403	6201	0.035	0.028	
19)	Endosulfa...	0.000	9.447	0	4463	N.D.	0.020	#
20)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)	Endrin Ke...	8.910	9.849	3444	1814573	0.018	7.246	#
23)	Hexachlor...	3.204	3.812	1945769	3803037	9.756	9.490	
24)	Hexachlor...	5.782	6.594	2009121	3000124	10.273	9.372	
25)	Oxychlordane	7.269	8.069	1829348	2670941	10.279	9.550	
26)	2,4'-DDE	7.342	8.268	1426392	2004027	10.003	9.516	
27)	trans-Non...	7.525	8.344	2076481	2924036	10.309	9.509	
28)	2,4'-DDD	7.715	8.642	1263326	1737598	9.929	9.421	
29)	2,4'-DDT	7.898	8.870	1485096	1992196	10.139	10.523	
30)	cis-Nonac...	7.995	8.912	2325112	3312382	9.865	9.710	
31)	Mirex	8.665	9.849	1404908	1814573	10.185	10.135	
32)	Chlordane...	7.436	8.268	20121	2004027	0.858	51.521	#
33)	Chlordane...	7.525	8.386	2076481	12938	72.048	0.403	#
34)	Chlordane...	8.119f	9.051	16894	32249	2.221	3.037	
35)	Chlordane...	3.808	3.812	406071	3803037	NoCal	NoCal	
36)	Toxaphene...	7.525	8.642f	2076481	1737598	1971.551	642.530	#
37)	Toxaphene...	7.805	8.997f	7225	20873	3.715	5.994	#
38)	Toxaphene...	8.119	8.997	16894	20873	BelowCal	0.118	
39)	Toxaphene...	8.318f	9.051f	17636	32249	4.365	3.573	
40)	Toxaphene...	0.000	9.255	0	6201	N.D.	1.235	#
41)	Toxaphene...	8.665	0.000	1404908	0	323.536	N.D.	#
42)	Toxaphene...	3.808	3.812	406071	3803037	NoCal	NoCal	

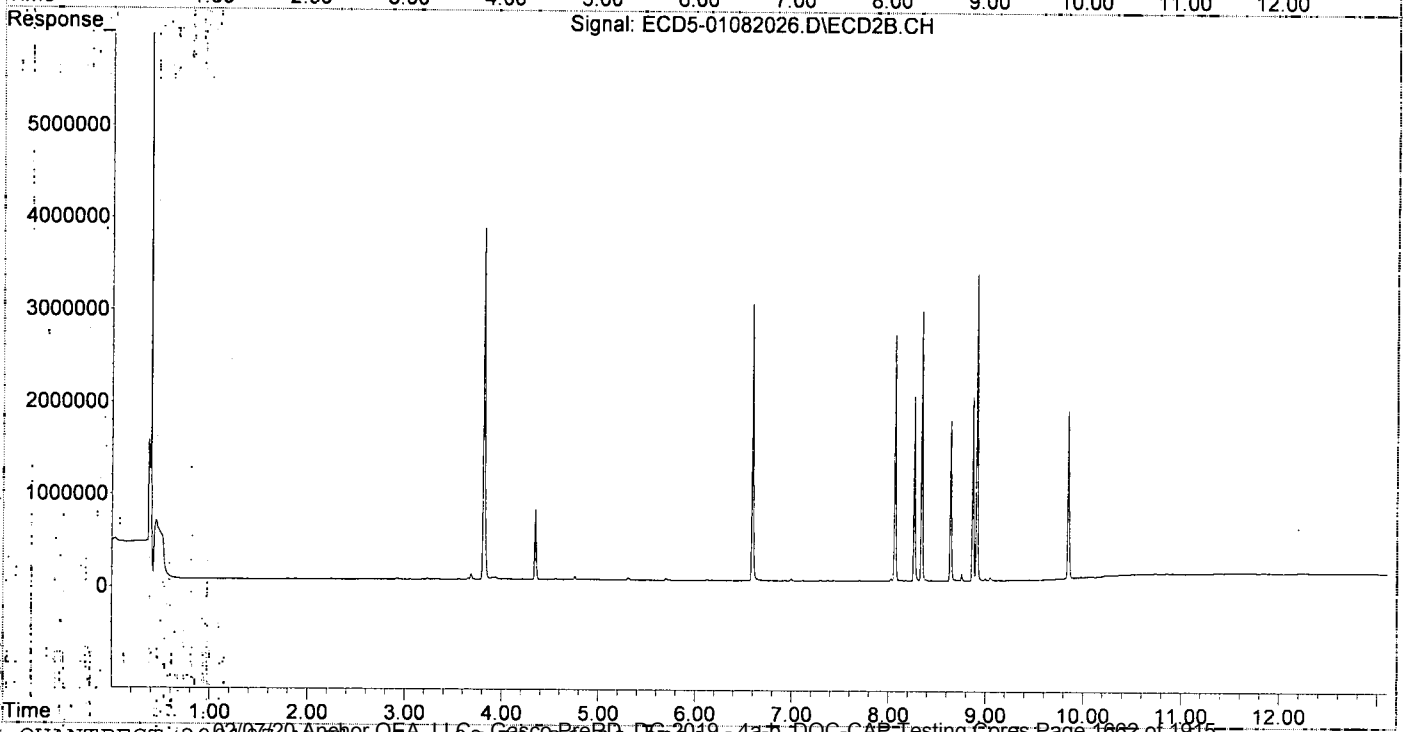
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:08
Operator : MJB
Sample : 0A08041-CALE
Misc : A19K266, 9-42 10 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: Jan 09 11:29:53 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:25
Operator : MJB
Sample : 0A08041-CALF
Misc : A19J407, 9-42 25 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: Jan 09 11:30:07 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 1/9/20

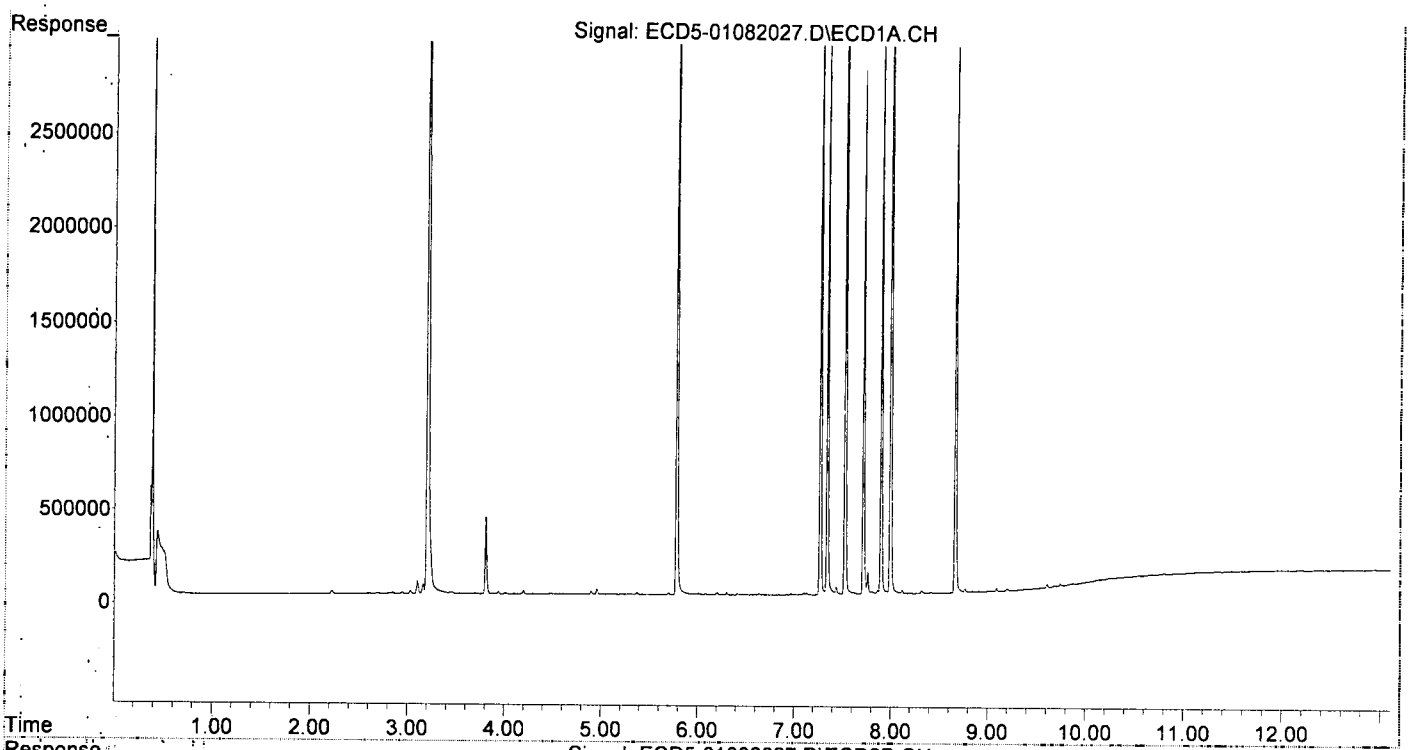
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.374f	6.125	10462	8629	0.054	0.029	#
22)	S DCBP (S)	9.608	10.738	23456	23405	0.001	0.132	#
	Target Compounds							
2)	a-BHC	5.948	0.000	6445	0	0.024	N.D.	#
3)	g-BHC	6.202f	0.000	12426	0	0.053	N.D.	#
4)	b-BHC	6.301	0.000	12856	0	5931.871	N.D.	#
5)	Heptachlor	6.638	7.432	8641	12126	0.038	0.034	
6)	d-BHC	6.415f	0.000	8269	0	0.038	N.D.	#
7)	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
8)	Heptachlo...	7.342	8.138	3149574	20977	15.278	0.068	#
9)	trans-Chl...	7.436	8.267	41169	4686277	0.195	15.028	#
10)	cis-Chlor...	7.525	0.000	4606719	0	22.513	N.D.	#
11)	Endosulfa...	0.000	8.444	0	6975	N.D.	0.025	#
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)	Dieldrin	7.805	8.642	15102	4001030	0.070	12.951	#
14)	Endrin	7.959	8.870	15860	4507962	0.092	19.186	#
15)	4,4'-DDD	7.996f	8.912	5230489	7616878	30.295	30.987	
16)	Endosulfa...	8.119	8.998f	18600	21696	0.109	0.089	
17)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin Al...	8.414	0.000	4206	0	0.027	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...	8.910	9.850	3115	4062388	0.016	16.222	#
23)	Hexachlor...	3.204	3.812	4597497	9313071	23.051	23.240	
24)	Hexachlor...	5.782	6.594	4493137	7094857	23.163	22.164	
25)	Oxychlordane	7.269	8.068	4098780	6058612	23.246	21.662	
26)	2,4'-DDE	7.342	8.267	3149574	4686277	22.088	22.253	
27)	trans-Non...	7.525	8.344	4606719	6806494	23.035	22.136	
28)	2,4'-DDD	7.714	8.642	2775117	4001030	21.811	21.693	
29)	2,4'-DDT	7.898	8.870	3121710	4507962	21.312	23.390	
30)	cis-Nonac...	7.996	8.912	5230489	7616878	22.192	22.328	
31)	Mirex	8.665	9.850	3051838	4062388	22.456	22.710	
32)	Chlordane...	7.436	8.267	41169	4686277	1.755	120.479	#
33)	Chlordane...	7.525	0.000	4606719	0	159.840	N.D.	#
34)	Chlordane...	8.119f	9.052	18600	29242	2.445	2.754	
35)	Chlordane...	3.807	3.812	409963	9313071	NoCal	NoCal	
36)	Toxaphene...	7.525	8.642f	4606719	4001030	4373.930	1479.503	#
37)	Toxaphene...	7.805	8.998f	15102	21696	7.766	6.230	
38)	Toxaphene...	8.119	8.998	18600	21696	0.290	0.279	
39)	Toxaphene...	8.319f	9.052f	15632	29242	3.869	3.240	
40)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
41)	Toxaphene...	8.665	0.000	3051838	0	702.806	N.D.	#
42)	Toxaphene...	3.807	3.812	409963	9313071	NoCal	NoCal	

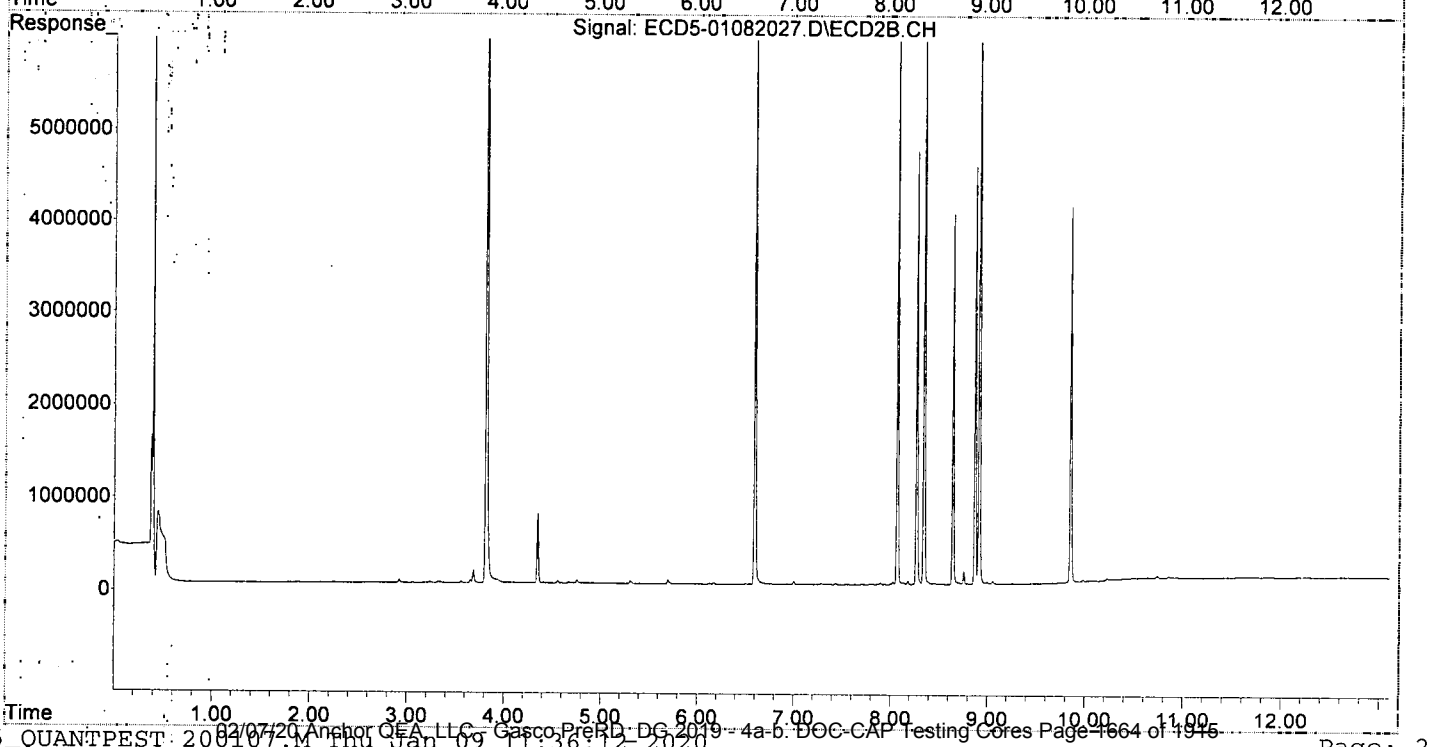
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:25
Operator : MJB
Sample : 0A08041-CALF
Misc : A19J407, 9-42 25 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: Jan 09 11:30:07 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:42
Operator : MJB
Sample : 0A08041-CALG
Misc : A19J408, 9-42 50 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: Jan 09 11:30:19 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

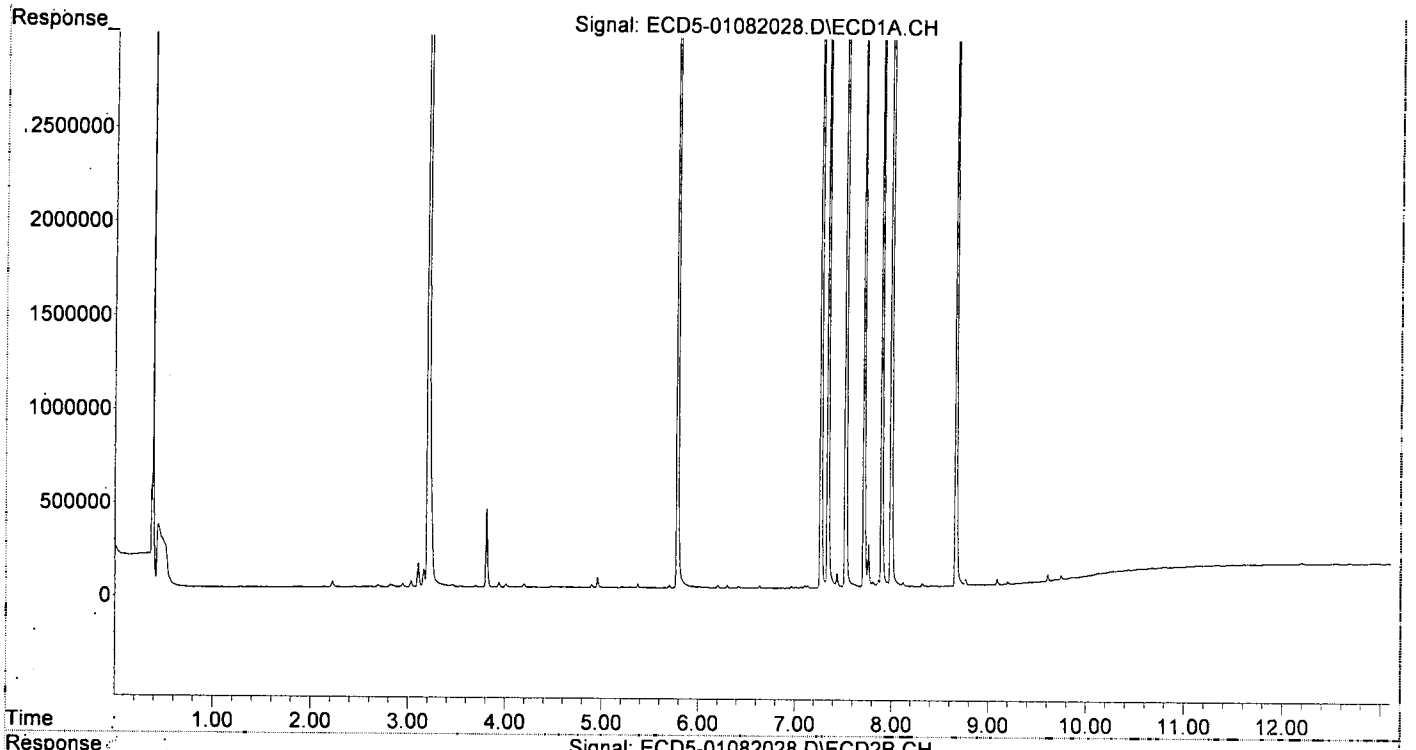
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.374f	6.124	20641	6974	0.106	0.023	#
22)	S DCBP (S)	9.609	10.738	39867	38817	0.111	0.218	#
	Target Compounds							
2)	a-BHC	5.946	0.000	7578	0	0.029	N.D.	#
3)	g-BHC	6.202f	0.000	13753	0	0.059	N.D.	#
4)	b-BHC	6.299	0.000	14173	0	5931.857	N.D.	#
5)	Heptachlor	6.637	7.432	12261	19209	0.054	0.054	
6)	d-BHC	6.416f	0.000	9155	0	0.042	N.D.	#
7)	Aldrin	0.000	7.704	0	6969	N.D.	0.021	#
8)	Heptachlo...	7.342	8.138	6308999	38602	30.603	0.125	#
9)	trans-Chl...	7.436	8.268	77462	9671234	0.368	31.014	#
10)	cis-Chlor...	7.525	8.386	9587997	47587	46.856	0.160	#
11)	Endosulfa...	0.000	8.443	0	11810	N.D.	0.043	#
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)	Dieldrin	7.805	8.643	28794	8525916	0.134	27.598	#
14)	Endrin	7.996f	8.870	10691936	9539513	61.797	40.600	
15)	4,4'-DDD	7.996f	8.913	10691936	16481609	61.927	67.051	
16)	Endosulfa...	8.119	8.997f	24089	27763	0.141	0.114	
17)	4,4'-DDT	8.213	0.000	6279	0	0.038	N.D.	#
18)	Endrin Al...	8.416	9.221f	4513	5191	0.029	0.023	
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...	8.910	9.849	3156	8711340	0.017	34.785	#
23)	Hexachlor...	3.205	3.813	9074096	18914087	45.496	47.199	
24)	Hexachlor...	5.783	6.594	9072972	14722842	46.921	45.994	
25)	Oxychlordane	7.269	8.069	8215656	12801082	46.664	45.768	
26)	2,4'-DDE	7.342	8.268	6308999	9671234	44.245	45.924	
27)	trans-Non...	7.525	8.344	9587997	14237107	48.005	46.301	
28)	2,4'-DDD	7.715	8.643	5793992	8525916	45.538	46.226	
29)	2,4'-DDT	7.898	8.870	6696394	9539513	45.717	47.558	
30)	cis-Nonac...	7.996	8.913	10691936	16481609	45.363	48.313	
31)	Mirex	8.664	9.849	6228349	8711340	46.251	47.718	
32)	Chlordane...	7.436	8.268	77462	9671234	3.302	248.637	#
33)	Chlordane...	7.525	8.386	9587997	47587	332.677	1.483	#
34)	Chlordane...	8.119f	9.052	24089	31523	3.167	2.969	
35)	Chlordane...	3.808	3.813	418830	18914087	NoCal	NoCal	
36)	Toxaphene...	7.525	8.643f	9587997	8525916	9103.492	3152.717	#
37)	Toxaphene...	7.805	8.997f	28794	27763	14.807	7.972	#
38)	Toxaphene...	8.119	8.997	24089	27763	1.604	1.465	
39)	Toxaphene...	8.319f	9.052	17295	31523	4.281	3.493	
40)	Toxaphene...	0.000	9.221f	0	5191	N.D.	1.034	#
41)	Toxaphene...	8.664	0.000	6228349	0	1434.324	N.D.	#
42)	Toxaphene...	3.808	3.813	418830	18914087	NoCal	NoCal	

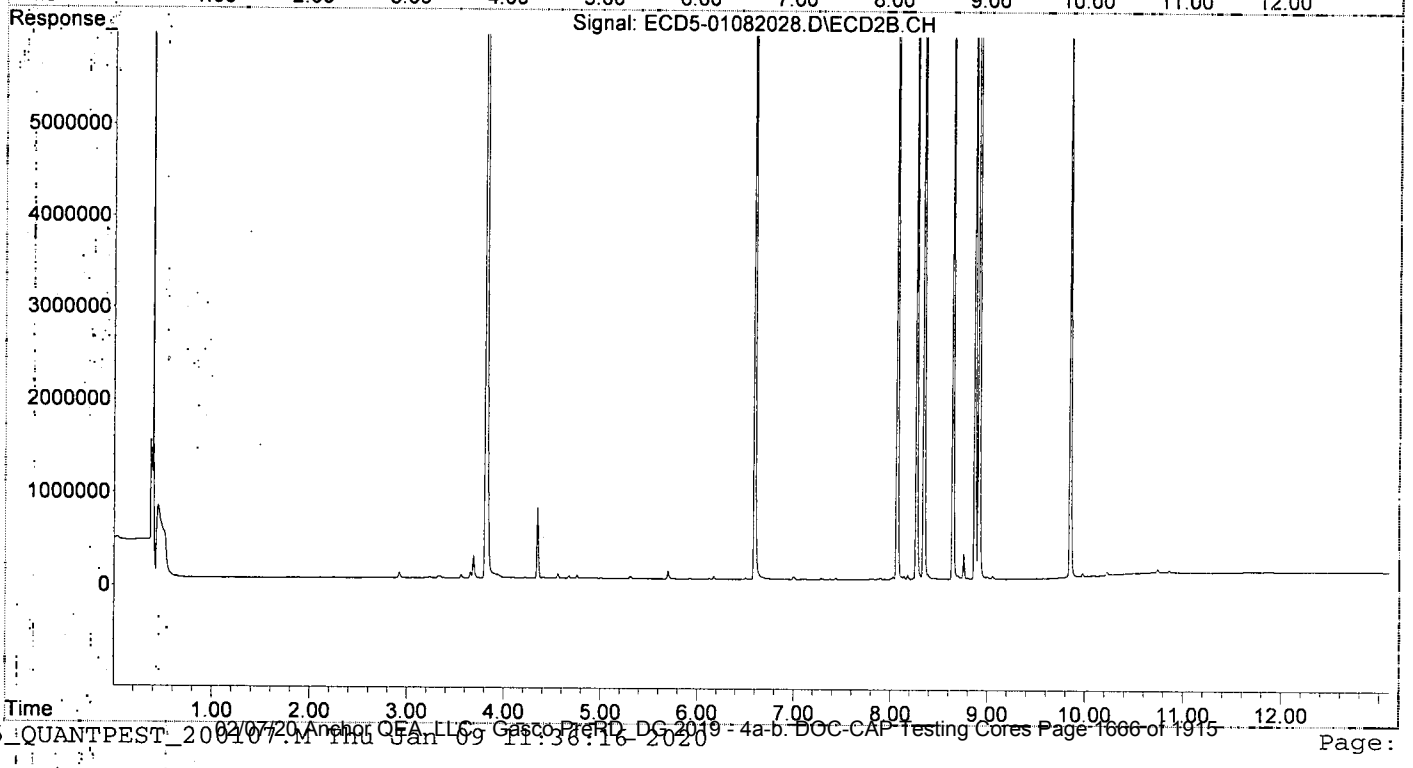
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:42
Operator : MJB
Sample : 0A08041-CALG
Misc : A19J408, 9-42 50 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: Jan 09 11:30:19 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:59
Operator : MJB
Sample : 0A08041-CALH
Misc : A19J409, 9-42 100 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: Jan 09 11:30:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MR 1/9/20

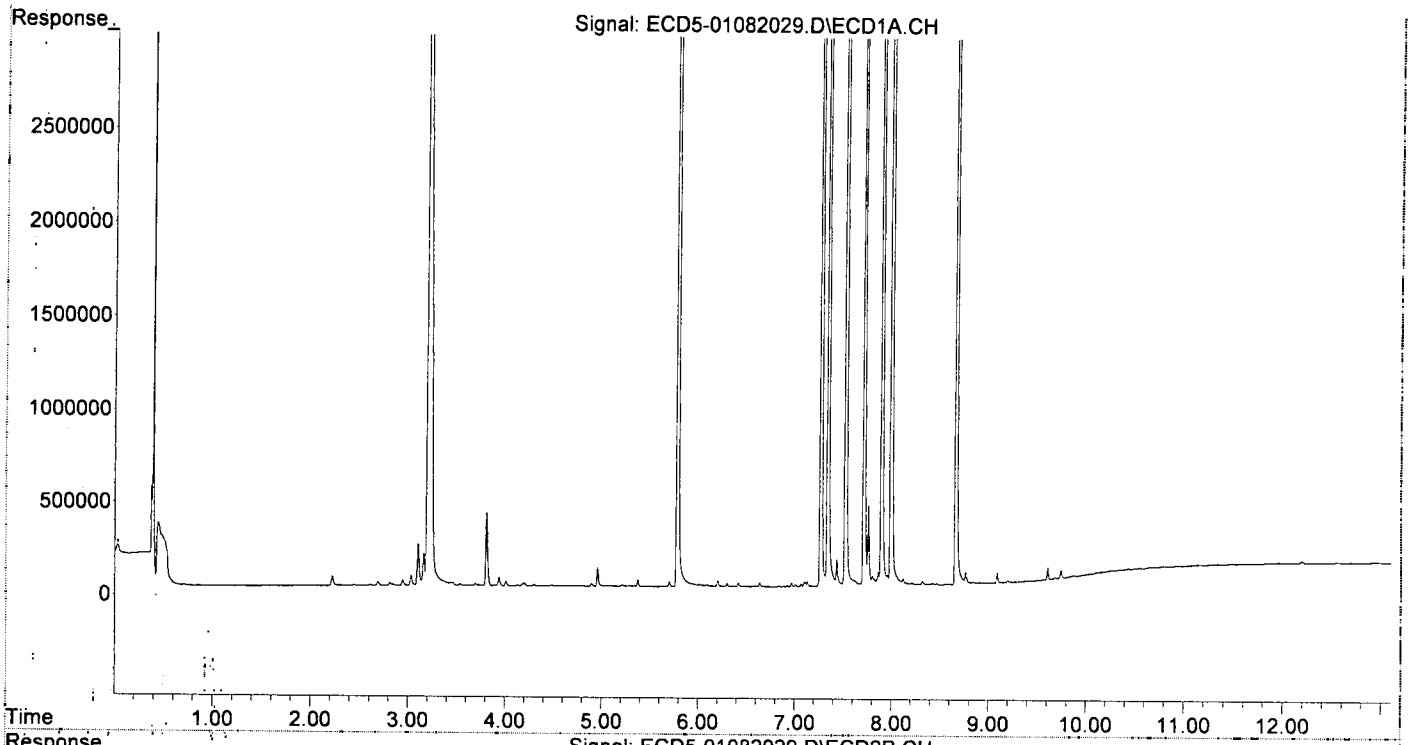
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.375f	6.126	36871	9637	0.189	0.032	#
22)	S DCBP (S)	9.609	10.739	68331	65015	0.301	0.365	
	Target Compounds							
2)	a-BHC	5.945	0.000	15235	0	0.058	N.D.	#
3)	g-BHC	6.202f	0.000	30660	0	0.131	N.D.	#
4)	b-BHC	6.299	7.114	16763	8201	0.004	0.051	#
5)	Heptachlor	6.638	7.433	23176	34769	0.102	0.098	
6)	d-BHC	6.416f	7.376	19008	8415	0.087	0.083	
7)	Aldrin	6.844f	0.000	4416	0	0.020	N.D.	#
8)	Heptachlo...	7.342	8.138	12901574	70023	62.582	0.227	#
9)	trans-Chl...	7.435	8.268	143863	20763038	0.683	66.584	#
10)	cis-Chlor...	7.525	8.386	19039022	81301	93.042	0.274	#
11)	Endosulfa...	0.000	8.444	0	21316	N.D.	0.077	#
12)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
13)	Dieldrin	7.804	8.643	53205	18437918	0.247	59.683	#
14)	Endrin	7.957	8.871	55563	21210506	0.321	90.271	#
15)	4,4'-DDD	7.995f	8.914	21489716	34383242	124.467	139.879	
16)	Endosulfa...	8.121	9.053f	34413	34746	0.202	0.142	
17)	4,4'-DDT	8.213	9.136	12645	11481	0.076	0.141	#
18)	Endrin Al...	8.428	0.000	5960	0	0.039	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...	8.910	9.850	5090	18148608	0.027	72.469	#
23)	Hexachlor...	3.206	3.815	17394566	38229851	87.214	95.401	
24)	Hexachlor...	5.784	6.596	18585378	32205210	96.231	100.609	
25)	Oxychlordane	7.268	8.069	16805225	27140079	95.096	97.035	
26)	2,4'-DDE	7.342	8.268	12901574	20763038	90.479	98.594	
27)	trans-Non...	7.525	8.345	19039022	30738362	95.080	99.966	
28)	2,4'-DDD	7.714	8.643	11692511	18437918	91.898	99.967	
29)	2,4'-DDT	7.898	8.871	13018738	21210506	88.879	97.523	
30)	cis-Nonac...	7.995	8.914	21489716	34383242	91.176	100.789	
31)	Mirex	8.665	9.850	12402281	18148608	92.994	94.994	
32)	Chlordane...	7.435	8.268	143863	20763038	6.132	533.796	#
33)	Chlordane...	7.525	8.386	19039022	81301	660.601	2.533	#
34)	Chlordane...	0.000	9.053	0	34746	N.D.	3.272	#
35)	Chlordane...	3.809	3.815	394443	38229851	NoCal	NoCal	
36)	Toxaphene...	7.525	8.643f	19039022	18437918	18076.933	6817.982	#
37)	Toxaphene...	7.804	0.000	53205	0	27.360	N.D.	#
38)	Toxaphene...	8.121	0.000	34413	0	4.075	N.D.	#
39)	Toxaphene...	8.320f	9.053	17030	34746	4.215	3.850	
40)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
41)	Toxaphene...	8.665	0.000	12402281	0	2856.116	N.D.	#
42)	Toxaphene...	3.809	3.815	394443	38229851	NoCal	NoCal	

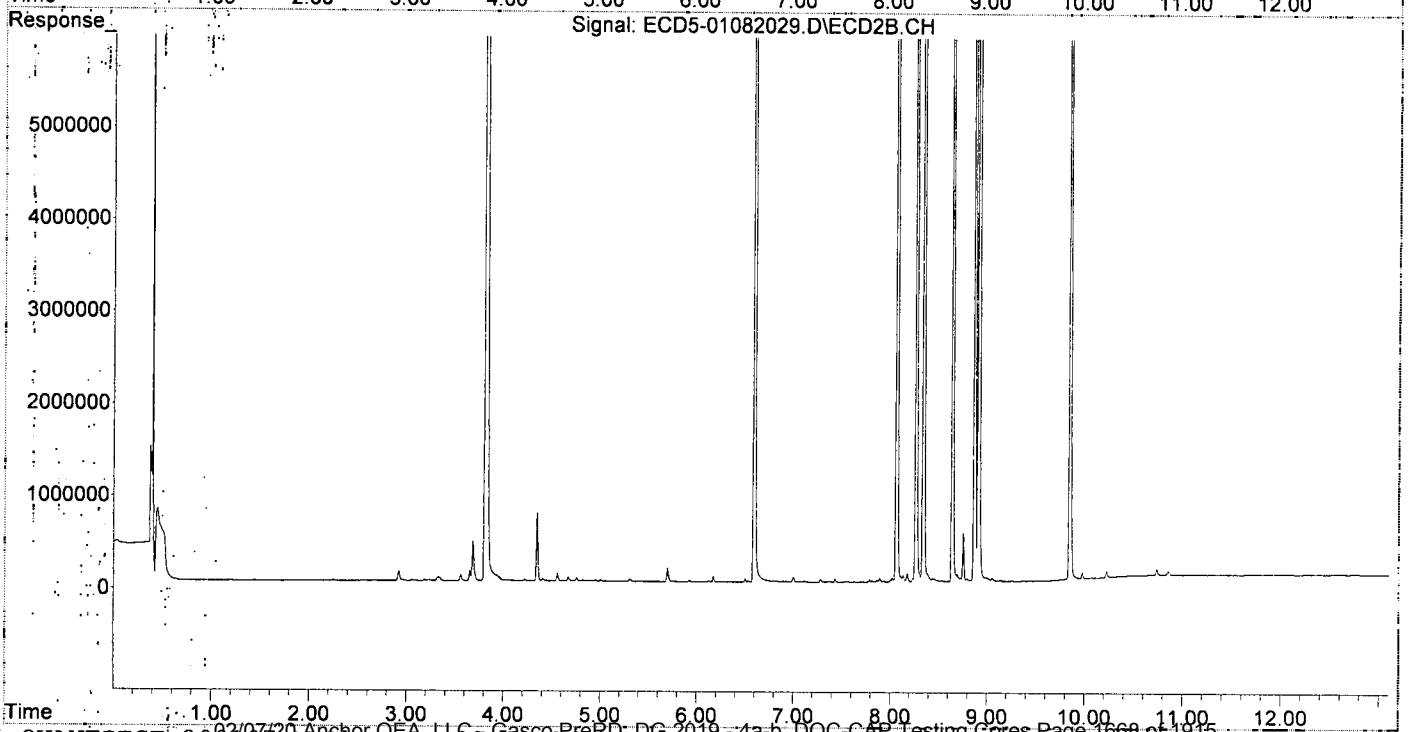
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:59
Operator : MJB
Sample : 0A08041-CALH
Misc : A19J409, 9-42 100 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: Jan 09 11:30:31 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:07
Operator : MJB
Sample : 0A08041-CALJ
Misc : A20A097, CHLOR 10 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: Jan 09 11:31:15 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

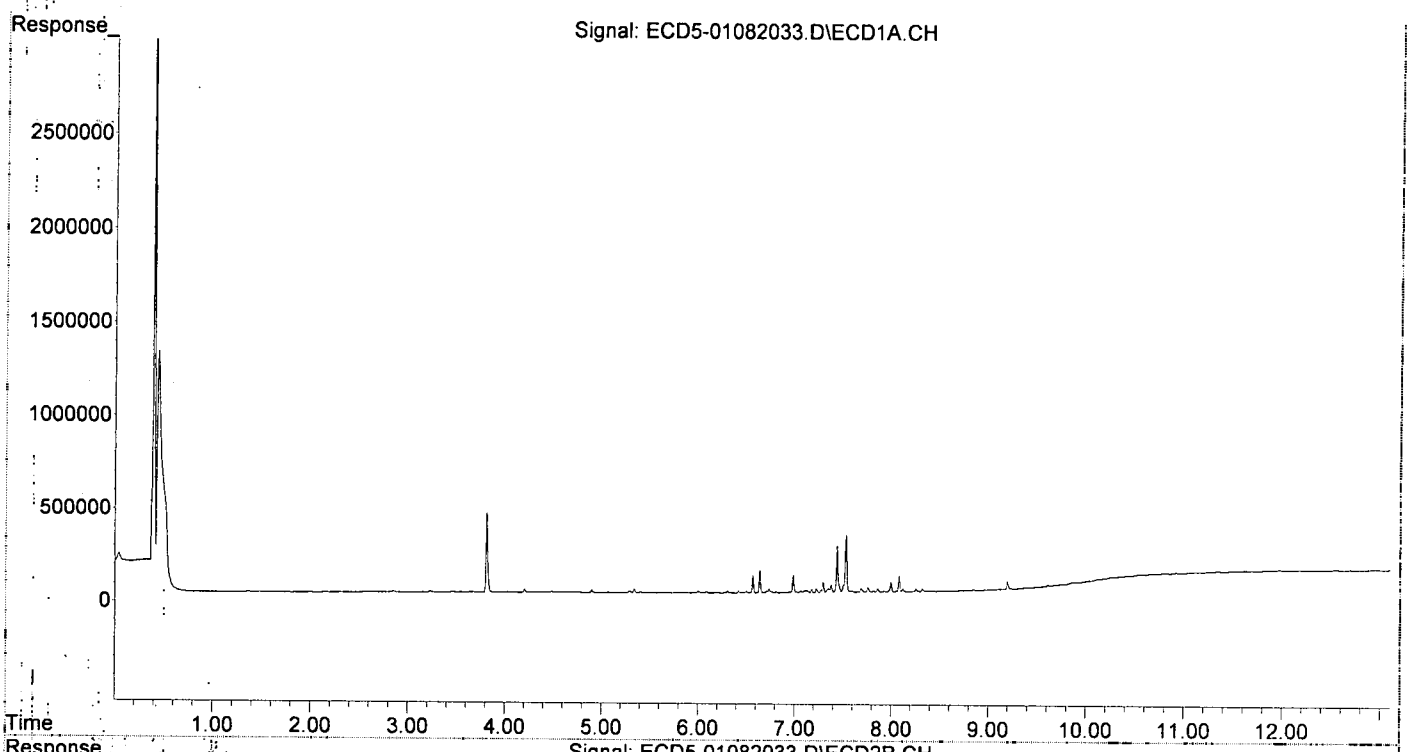
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.404	6.127	4841	11873	0.025	0.040	#
22)	S	DCBP (S)	9.611	10.741	11801	10666	8131.906	0.060	#
		Target Compounds							
2)		a-BHC	0.000	6.763f	0	10691	N.D.	0.026	#
3)		g-BHC	6.203f	0.000	3432	0	0.015	N.D.	#
4)		b-BHC	6.304	0.000	12447	0	5931.875	N.D.	#
5)		Heptachlor	6.640	7.435	123576	186844	0.544	0.527	
6)		d-BHC	6.419f	0.000	10700	0	0.049	N.D.	#
7)		Aldrin	0.000	7.706	0	13966	N.D.	0.042	#
8)		Heptachlo...	7.349	8.160	22127	10132	0.107	0.033	#
9)		trans-Chl...	7.440	8.283	252150	382772	1.197	1.227	
10)		cis-Chlor...	7.533	8.391	308195	324236	1.506	1.093	
11)		Endosulfa...	7.652f	0.000	6146	0	0.032	N.D.	#
12)		4,4'-DDE	7.591	8.485	7975	9369	0.039	0.065	#
13)		Dieldrin	7.819	8.645	8636	31380	0.040	0.102	#
14)		Endrin	7.998f	8.871	54061	9389	0.312	0.040	#
15)		4,4'-DDD	7.998	8.915	54061	73029	0.313	0.297	
16)		Endosulfa...	8.119	9.000f	15945	22484	0.093	0.092	
17)		4,4'-DDT	0.000	9.124	0	6694	N.D.	0.118	#
18)		Endrin Al...	8.397	9.224f	4594	7159	0.030	0.032	
19)		Endosulfa...	8.723	0.000	4481	0	0.028	N.D.	#
20)		Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21)		Endrin Ke...	8.912	9.854	1498	7421	0.008	0.030	#
23)		Hexachlor...	3.227f	0.000	7661	0	0.038	N.D.	#
24)		Hexachlor...	0.000	6.613	0	10091	N.D.	0.032	#
25)		Oxychlordane	7.295f	8.109f	57202	84109	0.124	0.301	#
26)		2,4'-DDE	7.349	8.283	22127	382772	0.155	1.818	#
27)		trans-Non...	7.533	8.346	308195	298005	1.398	0.969	
28)		2,4'-DDD	7.688f	8.645	21088	31380	0.166	0.170	
29)		2,4'-DDT	7.928f	8.871	5806	9389	0.040	BelowCal	#
30)		cis-Nonac...	7.998	8.915	54061	73029	0.229	0.214	
31)		Mirex	8.670	9.854	1261	7421	6723.038	BelowCal	#
32)		Chlordane...	7.440	8.283	252150	382772	10.747	9.841	
33)		Chlordane...	7.533	8.391	308195	324236	10.694	10.101	
34)		Chlordane...	8.082	9.059	86683	125739	11.394	11.842	
35)		Chlordane...	3.811	0.000	423556	0	NoCal	N.D.	
36)		Toxaphene...	7.533f	8.645f	308195	31380	292.621	11.604	#
37)		Toxaphene...	7.819	8.970	8636	11029	4.441	3.167	
38)		Toxaphene...	8.119	9.000	15945	22484	BelowCal	0.433	
39)		Toxaphene...	8.360	9.059	4471	125739	1.107	13.931	#
40)		Toxaphene...	0.000	9.224f	0	7159	N.D.	1.426	#
41)		Toxaphene...	8.670	0.000	1261	0	0.290	N.D.	#
42)		Toxaphene...	3.811	0.000	423556	0	NoCal	N.D.	

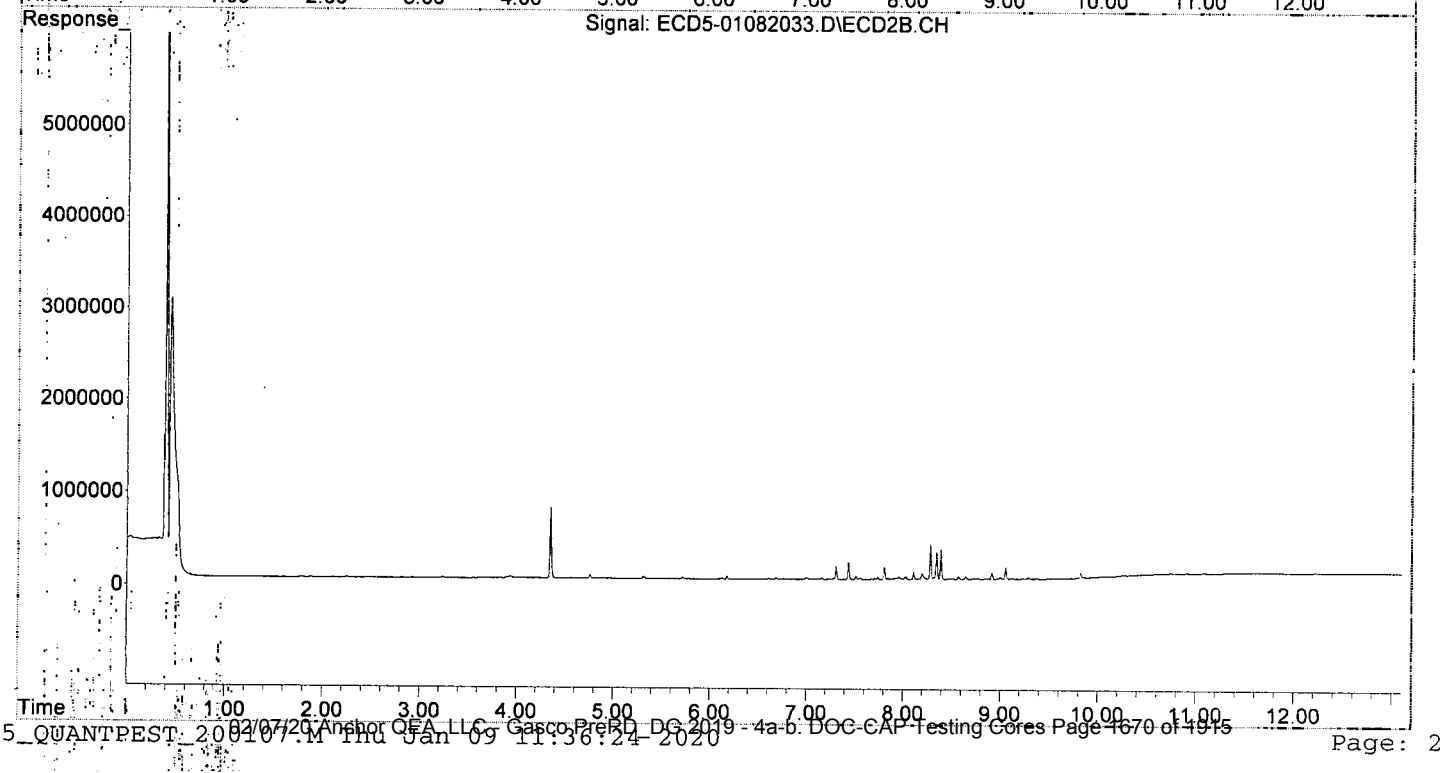
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:07
Operator : MJB
Sample : 0A08041-CALJ
Misc : A20A097, CHLOR 10 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: Jan 09 11:31:15 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:25
Operator : MJB
Sample : 0A08041-CALK
Misc : A19K307, CHLOR 50 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: Jan 09 11:31:33 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration.
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

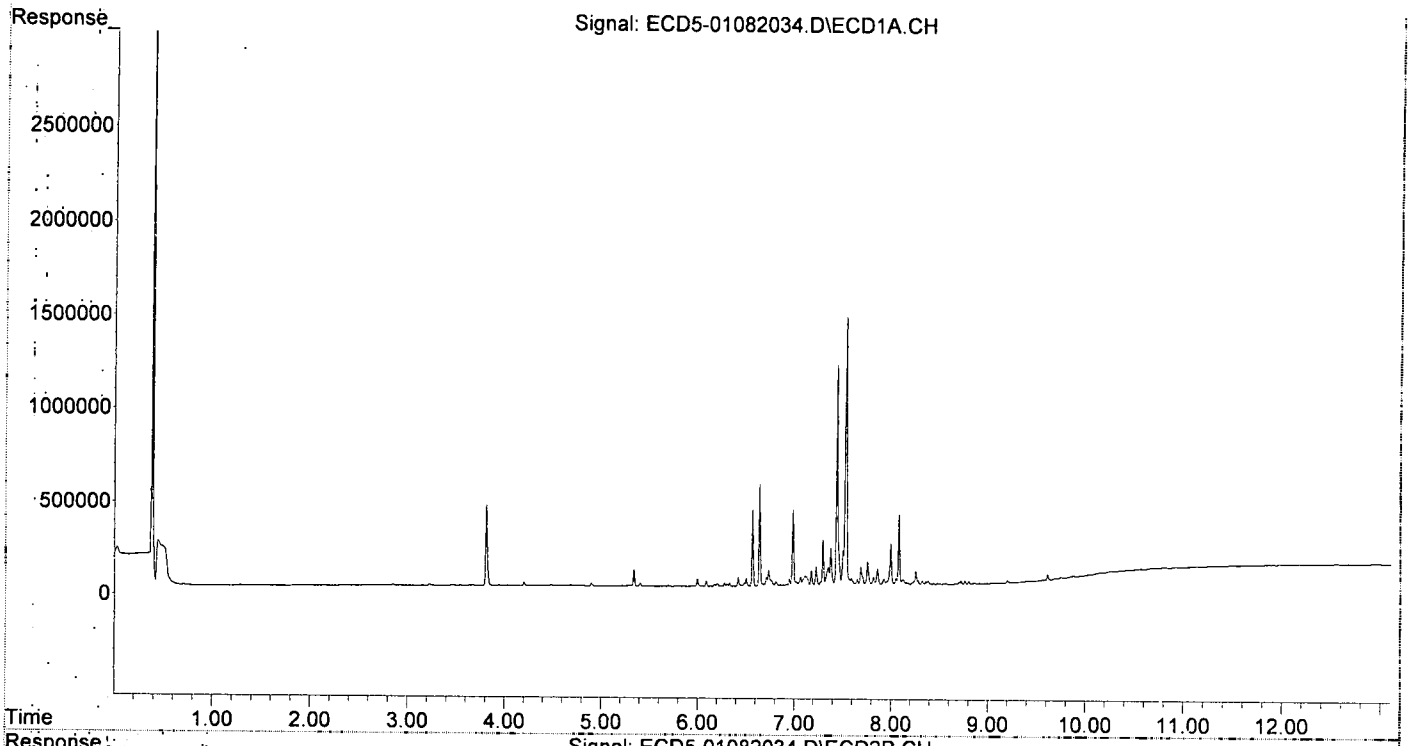
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.403	6.125	16846	31854	0.086	0.107	
22)	S DCBP (S)	9.609	10.739	30071	34846	0.045	0.196	#
	Target Compounds							
2)	a-BHC	0.000	6.761f	0	46153	N.D.	0.112	#
3)	g-BHC	6.202f	7.063	16156	23098	0.069	0.063	
4)	b-BHC	6.302	7.103	13789	14465	5931.861	0.090	#
5)	Heptachlor	6.639	7.433	547595	815015	2.410	2.299	
6)	d-BHC	6.418f	0.000	47233	0	0.217	N.D.	#
7)	Aldrin	6.884	7.704	6880	19621	0.031	0.059	#
8)	Heptachlo...	7.349	8.160	98755	50612	0.479	0.164	#
9)	trans-Chl...	7.438	8.282	1178611	1787106	5.593	5.731	
10)	cis-Chlor...	7.531	8.389	1443194	1486141	7.053	5.010	
11)	Endosulfa...	7.651	0.000	33000	0	0.170	N.D.	#
12)	4,4'-DDE	7.589	8.484	38759	50237	0.188	0.206	
13)	Dieldrin	7.818	8.644	43688	142008	0.203	0.460	#
14)	Endrin	7.996f	8.869	222422	44284	1.286	0.188	#
15)	4,4'-DDD	7.996	8.915	222422	302390	1.288	1.230	
16)	Endosulfa...	8.126	9.029	26665	34319	0.156	0.140	
17)	4,4'-DDT	8.255f	9.122	75087	36318	0.453	0.255	#
18)	Endrin Al...	8.440f	9.228f	7918	10030	0.052	0.045	
19)	Endosulfa...	8.722	9.482f	18852	7895	0.118	0.036	#
20)	Methoxychlor	8.540	0.000	6140	0	0.071	N.D.	#
21)	Endrin Ke...	8.909	9.854	3630	20411	0.019	0.082	#
23)	Hexachlor...	3.225f	0.000	9175	0	0.046	N.D.	#
24)	Hexachlor...	0.000	6.610	0	10604	N.D.	0.033	#
25)	Oxychlordane	7.294f	8.083	245741	26609	1.206	0.095	#
26)	2,4'-DDE	7.349	8.282	98755	1787106	0.693	8.486	#
27)	trans-Non...	7.531	8.345	1443194	1362209	7.119	4.430	
28)	2,4'-DDD	7.686f	8.644	98756	142008	0.776	0.770	
29)	2,4'-DDT	7.926f	8.869	32686	44284	0.223	0.136	
30)	cis-Nonac...	7.996	8.915	222422	302390	0.944	0.886	
31)	Mirex	8.660	9.854	2950	20411	6723.026	BelowCal	#
32)	Chlordane...	7.438	8.282	1178611	1787106	50.236	45.945	
33)	Chlordane...	7.531	8.389	1443194	1486141	50.075	46.300	
34)	Chlordane...	8.080	9.057	377844	498592	49.667	46.958	
35)	Chlordane...	3.810	0.000	433481	0	NoCal	N.D.	
36)	Toxaphene...	7.531f	8.644f	1443194	142008	1370.266	52.512	#
37)	Toxaphene...	7.818	8.969	43688	53529	22.465	15.371	
38)	Toxaphene...	8.126	9.007	26665	46017	2.220	5.031	#
39)	Toxaphene...	8.360	9.057	16865	498592	4.174	55.241	#
40)	Toxaphene...	8.566f	9.228f	6969	10030	2.120	1.997	
41)	Toxaphene...	8.660	0.000	2950	0	0.679	N.D.	#
42)	Toxaphene...	3.810	0.000	433481	0	NoCal	N.D.	

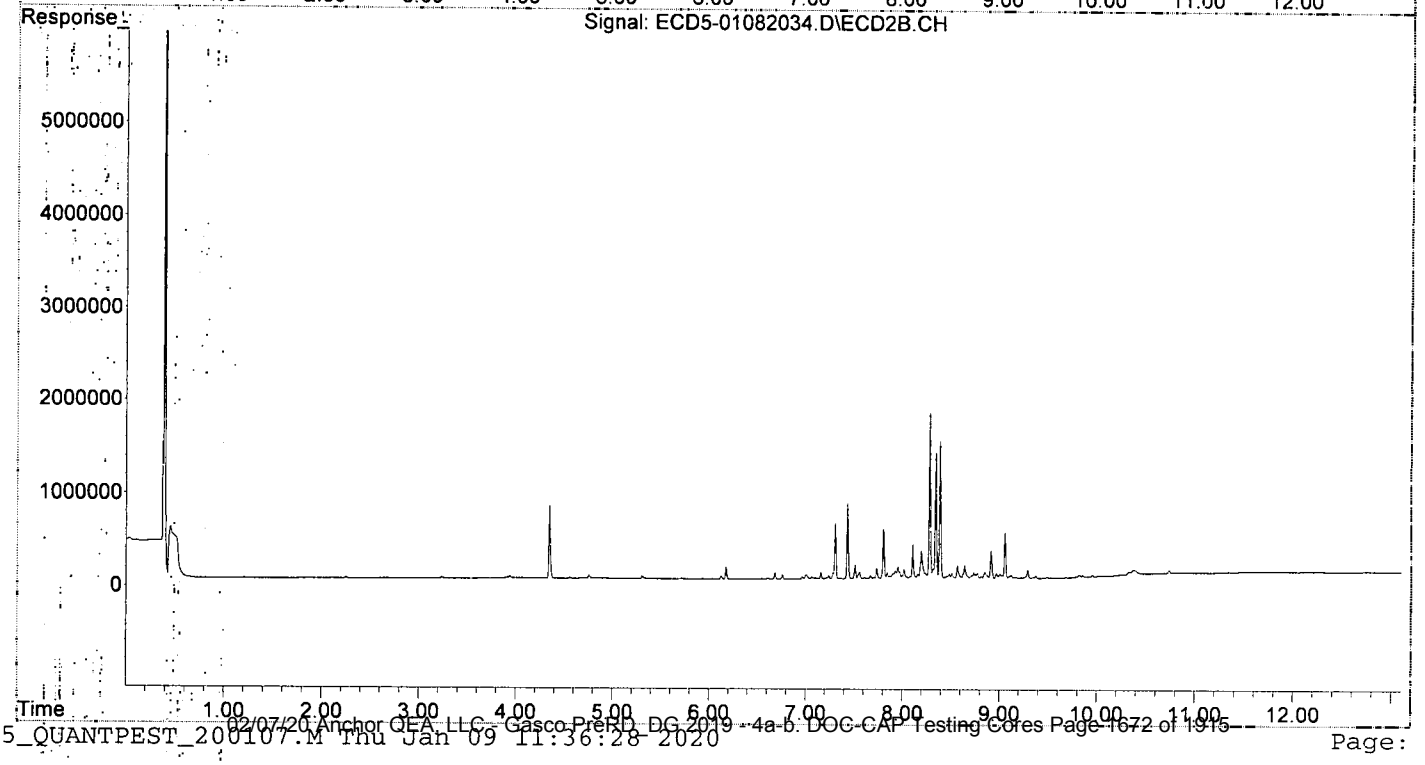
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:25
Operator : MJB
Sample : 0A08041-CALK
Misc : A19K307, CHLOR 50 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: Jan 09 11:31:33 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:42
Operator : MJB
Sample : 0A08041-CALL
Misc : A19K308, CHLOR 100 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: Jan 09 11:31:44 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

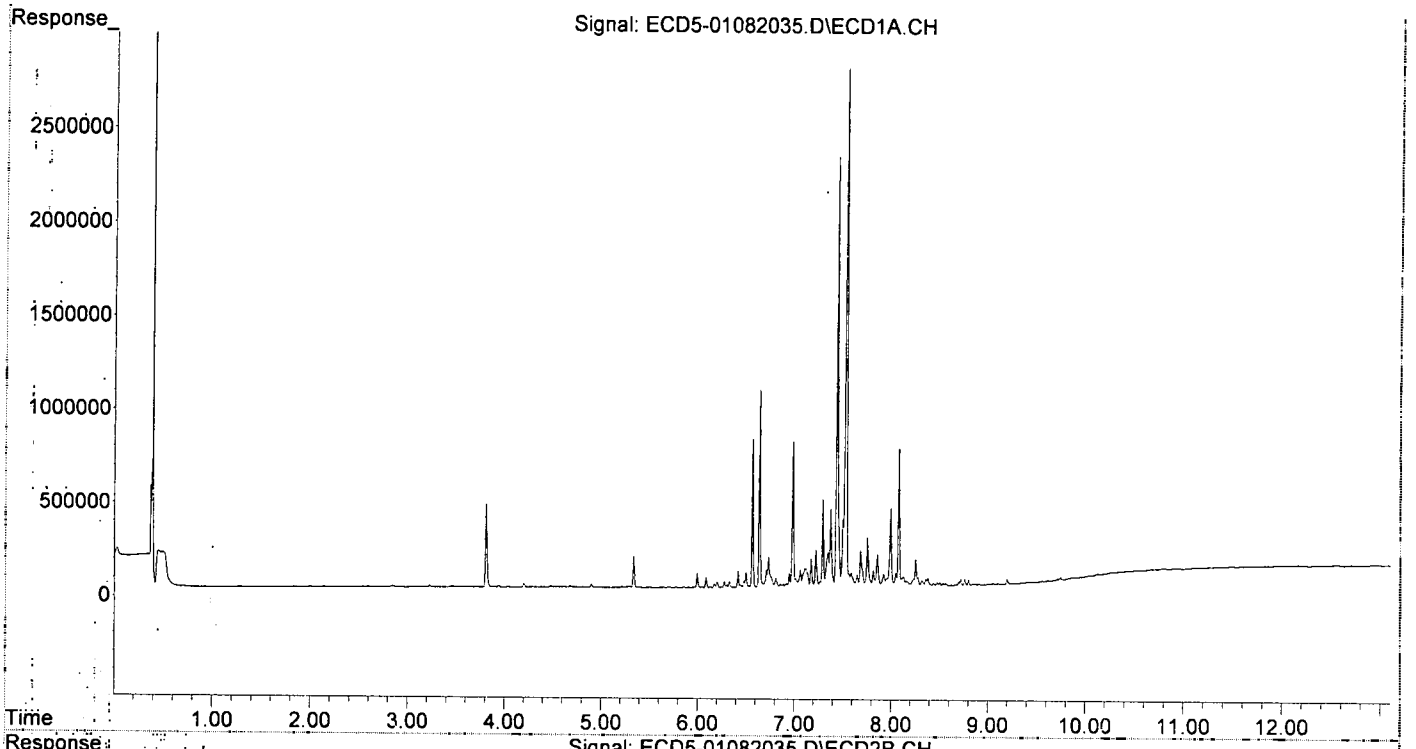
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.126	0	10378	N.D.	0.035	#
22)	S DCBP (S)	9.620	0.000	8934	0	8131.925	N.D.	#
	Target Compounds							
2)	a-BHC	0.000	6.761f	0	83361	N.D.	0.202	#
3)	g-BHC	6.202f	7.064	30271	40761	0.130	0.112	
4)	b-BHC	6.301	7.103	14589	22227	5931.853	0.138	#
5)	Heptachlor	6.640	7.433	1054122	1603167	4.639	4.522	
6)	d-BHC	6.418f	0.000	89774	0	0.412	N.D.	#
7)	Aldrin	6.884	7.704	15310	17715	0.069	0.053	
8)	Heptachlo...	7.348	8.159	183542	95220	0.890	0.309	#
9)	trans-Chl...	7.439	8.282	2294923	3516336	10.891	11.276	
10)	cis-Chlor...	7.531	8.389	2780199	2986956	13.587	10.069	
11)	Endosulfa...	7.651	8.465f	63879	54433	0.330	0.196	#
12)	4,4'-DDE	7.589	8.484	73125	89822	0.355	0.342	
13)	Dieldrin	7.818	8.644	84602	279889	0.393	0.906	#
14)	Endrin	7.997f	8.852f	416132	134340	2.405	0.572	#
15)	4,4'-DDD	7.997	8.915	416132	563461	2.410	2.292	
16)	Endosulfa...	8.129	9.030	50553	64805	0.296	0.265	
17)	4,4'-DDT	8.255f	9.122	143744	66621	0.868	0.394	#
18)	Endrin Al...	8.441f	9.228f	14674	16834	0.096	0.075	
19)	Endosulfa...	8.722	9.481f	32787	16109	0.205	0.073	#
20)	Methoxychlor	8.540	0.000	12166	0	0.140	N.D.	#
21)	Endrin Ke...	8.907	9.854	4348	33600	0.023	0.134	#
23)	Hexachlor...	3.226f	0.000	8426	0	0.042	N.D.	#
24)	Hexachlor...	0.000	6.611	0	10145	N.D.	0.032	#
25)	Oxychlordane	7.294f	8.084	465241	51277	2.465	0.183	#
26)	2,4'-DDE	7.348	8.282	183542	3516336	1.287	16.697	#
27)	trans-Non...	7.531	8.345	2780199	2671207	13.851	8.687	
28)	2,4'-DDD	7.686f	8.644	190161	279889	1.495	1.518	
29)	2,4'-DDT	7.926f	8.852	65453	134340	0.447	0.625	
30)	cis-Nonac...	7.997	8.915	416132	563461	1.766	1.652	
31)	Mirex	8.624f	9.854	3462	33600	6723.022	BelowCal	#
32)	Chlordane...	7.439	8.282	2294923	3516336	97.816	90.401	
33)	Chlordane...	7.531	8.389	2780199	2986956	96.465	93.058	
34)	Chlordane...	8.080	9.058	729916	972427	95.946	91.585	
35)	Chlordane...	3.810	0.000	439554	0	NoCal	N.D.	
36)	Toxaphene...	7.531f	8.644f	2780199	279889	2639.709	103.498	#
37)	Toxaphene...	7.818	8.970	84602	99401	43.504	28.543	
38)	Toxaphene...	8.129	9.008	50553	82791	7.936	12.210	#
39)	Toxaphene...	8.360	9.058	34008	972427	8.418	107.740	#
40)	Toxaphene...	8.566f	9.228f	12931	16834	3.933	3.352	
41)	Toxaphene...	8.624f	0.000	3462	0	0.797	N.D.	#
42)	Toxaphene...	3.810	0.000	439554	0	NoCal	N.D.	

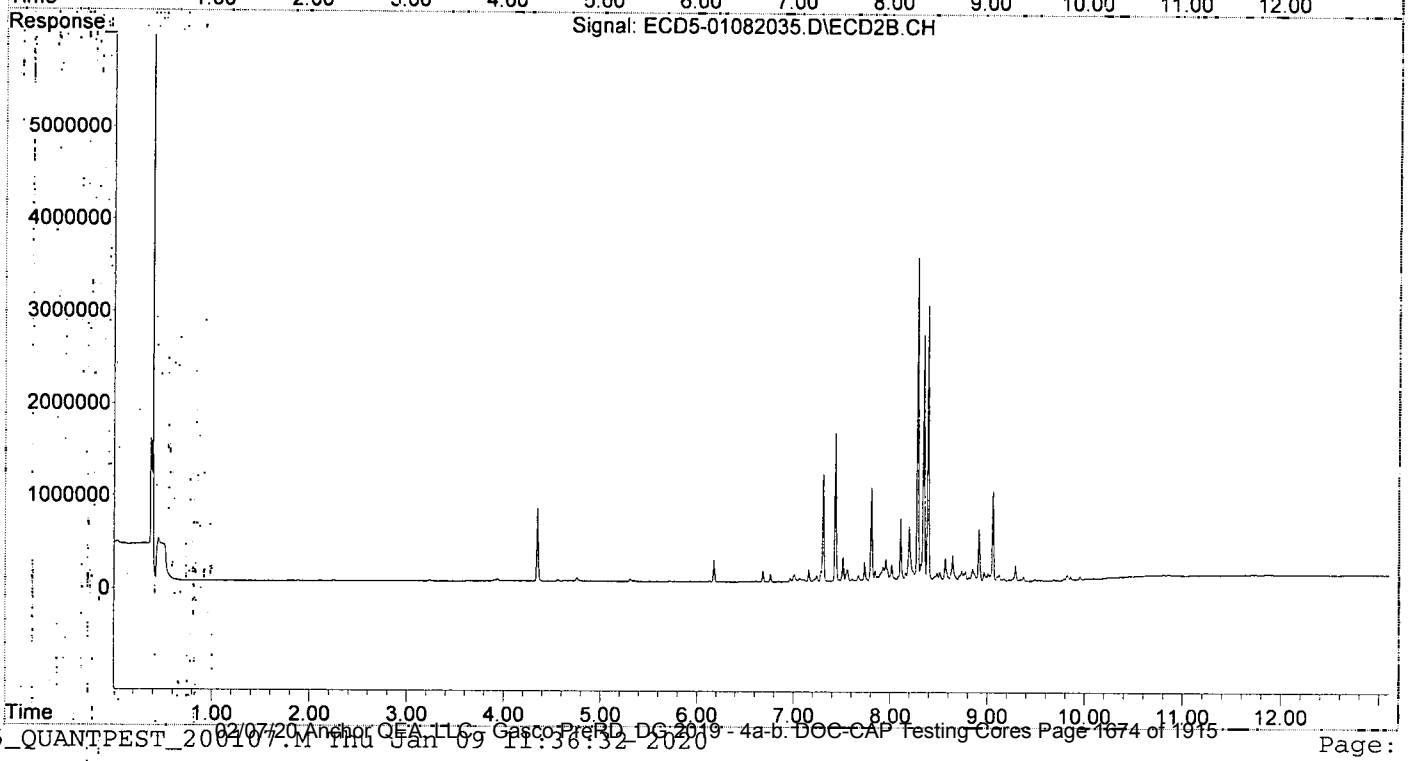
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:42
Operator : MJB
Sample : 0A08041-CALL
Misc : A19K308, CHLOR 100 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: Jan 09 11:31:44 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:59
Operator : MJB
Sample : 0A08041-CALM
Misc : A19K309, CHLOR 200 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: Jan 09 11:31:56 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

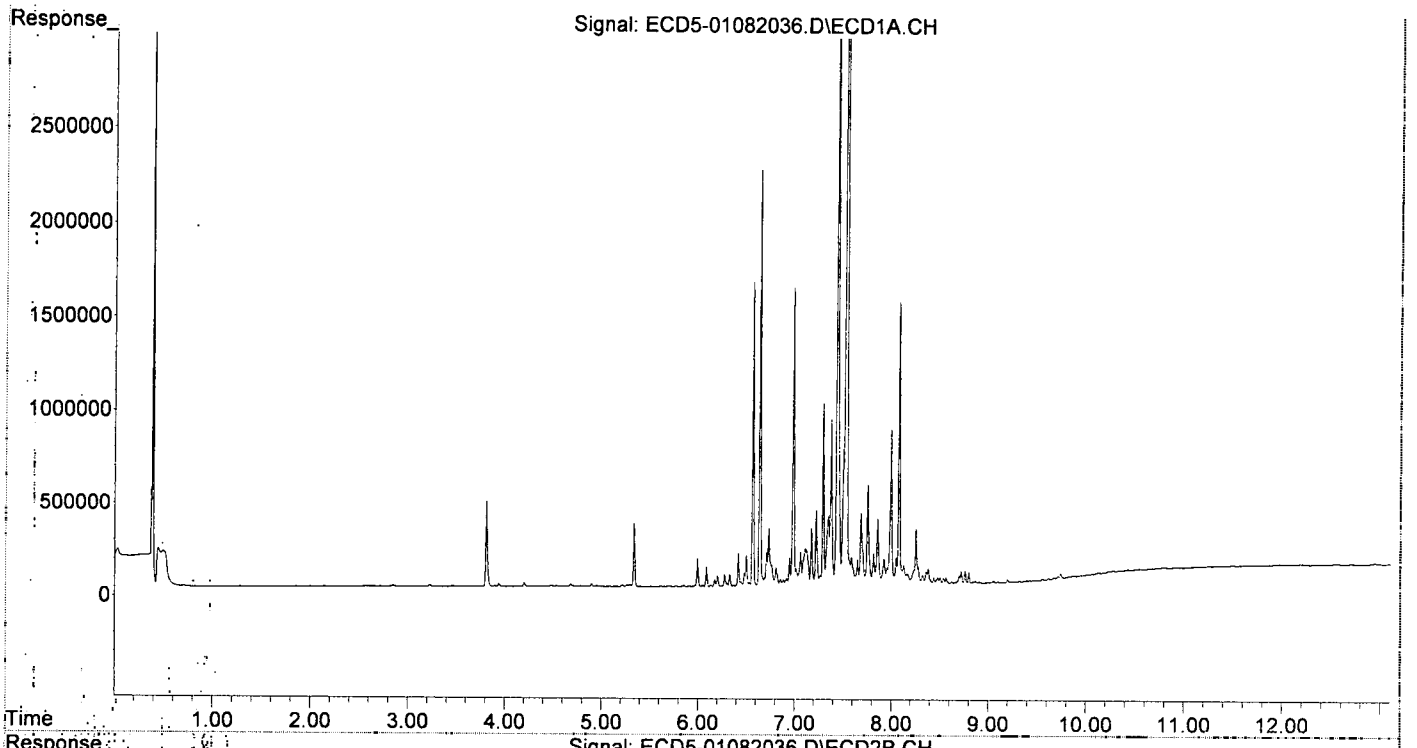
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.124	0	8765	N.D.	0.029	#
22)	S DCBP (S)	9.620	10.756	12919	2318	8131.899	0.013	#
	Target Compounds							
2)	a-BHC	5.911f	6.762f	5081	159887	0.019	0.387	#
3)	g-BHC	6.201f	7.064	56389	85762	0.241	0.235	
4)	b-BHC	6.329f	7.102	65167	46832	0.497	0.291	#
5)	Heptachlor	6.639	7.433	2226004	3388584	9.796	9.559	
6)	d-BHC	6.418f	7.362	178418	27894	0.819	0.141	#
7)	Aldrin	6.884	7.704	31975	48695	0.145	0.146	
8)	Heptachlo...	7.348	8.159	370878	202363	1.799	0.657	#
9)	trans-Chl...	7.438	8.281	4793058	7736201	22.746	24.809	
10)	cis-Chlor...	7.531	8.389	5801810	6344746	28.353	21.388	
11)	Endosulfa...	7.650	8.466f	134421	128320	0.694	0.462	
12)	4,4'-DDE	7.588	8.484	150613	193799	0.730	0.699	
13)	Dieldrin	7.818	8.644	168622	619374	0.783	2.005	#
14)	Endrin	7.997f	8.853f	836171	293651	4.833	1.250	#
15)	4,4'-DDD	7.997	8.914	836171	1185376	4.843	4.822	
16)	Endosulfa...	8.129	9.030	103123	138183	0.604	0.566	
17)	4,4'-DDT	8.255f	9.149	297526	44919	1.796	0.295	#
18)	Endrin Al...	8.440f	9.228f	31746	42213	0.207	0.189	
19)	Endosulfa...	8.723	9.481f	66481	36008	0.415	0.162	#
20)	Methoxychlor	8.540	9.590f	29143	9388	0.336	0.079	#
21)	Endrin Ke...	8.906	9.854	8782	71564	0.046	0.286	#
23)	Hexachlor...	3.226f	0.000	7900	0	0.040	N.D.	#
24)	Hexachlor...	5.775	6.611	4164	10474	BelowCal	0.033	
25)	Oxychlordane	7.294f	8.083	961252	113717	5.308	0.407	#
26)	2,4'-DDE	7.348	8.281	370878	7736201	2.601	36.736	#
27)	trans-Non...	7.531	8.345	5801810	5824881	29.036	18.943	
28)	2,4'-DDD	7.686f	8.644	385747	619374	3.032	3.358	
29)	2,4'-DDT	7.925f	8.853	137414	293651	0.938	1.488	#
30)	cis-Nonac...	7.997	8.914	836171	1185376	3.548	3.475	
31)	Mirex	8.657	9.854	8652	71564	6722.983	0.145	#
32)	Chlordane...	7.438	8.281	4793058	7736201	204.294	198.890	✓
33)	Chlordane...	7.531	8.389	5801810	6344746	201.307	197.668	✓
34)	Chlordane...	8.080	9.058	1505062	2047397	197.837	192.828	✓
35)	Chlordane...	3.810	0.000	458168	0	NoCal	N.D.	
36)	Toxaphene...	7.531f	8.644f	5801810	619374	5508.631	229.032	#
37)	Toxaphene...	7.818	8.968	168622	210960	86.710	60.576	
38)	Toxaphene...	8.129	9.009	103123	171668	20.512	29.524	#
39)	Toxaphene...	8.360	9.058	68331	2047397	16.913	226.842	#
40)	Toxaphene...	8.566f	9.228f	31865	42213	9.692	8.406	
41)	Toxaphene...	8.657	0.000	8652	0	1.993	N.D.	#
42)	Toxaphene...	3.810	0.000	458168	0	NoCal	N.D.	

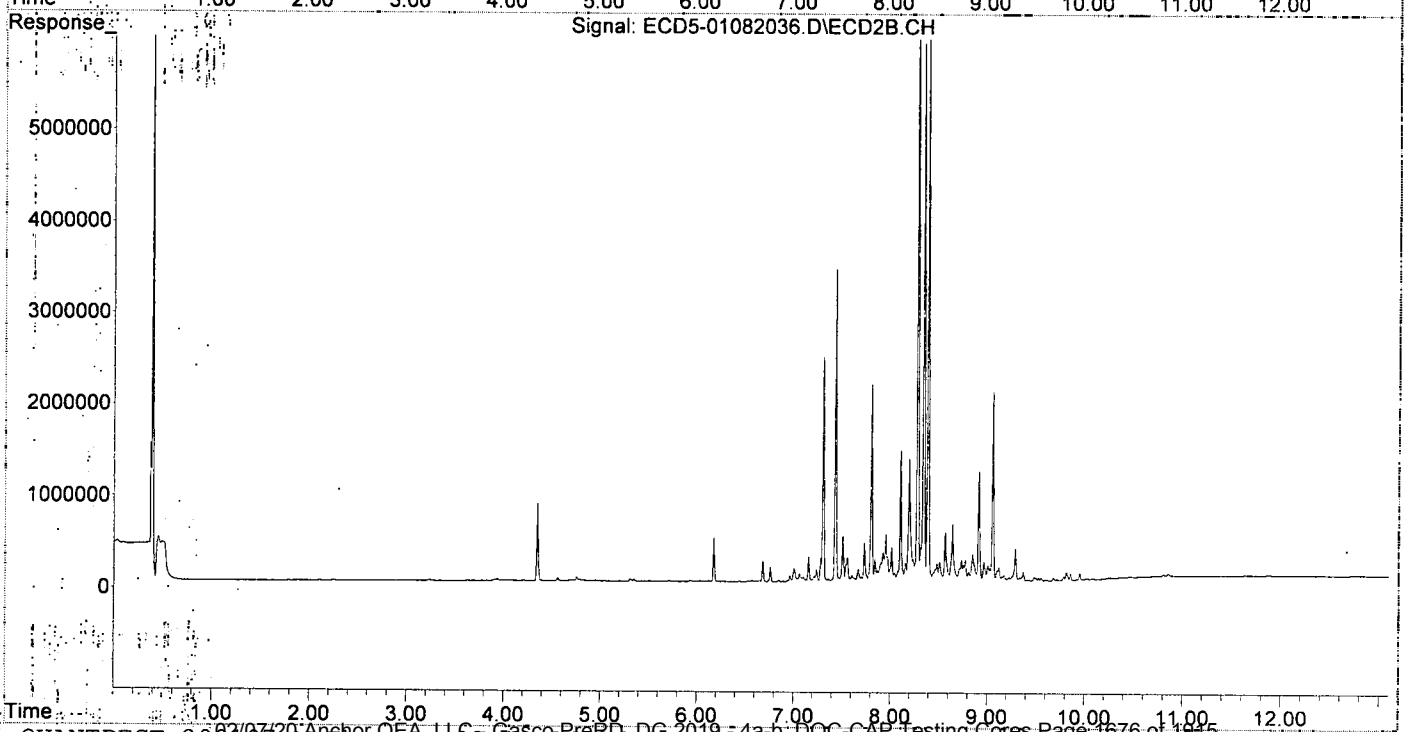
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:59
Operator : MJB
Sample : 0A08041-CALM
Misc : A19K309, CHLOR 200 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: Jan 09 11:31:56 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 22:16
Operator : MJB
Sample : 0A08041-CALN
Misc : A19K310, CHLOR 500 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: Jan 09 11:32:07 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

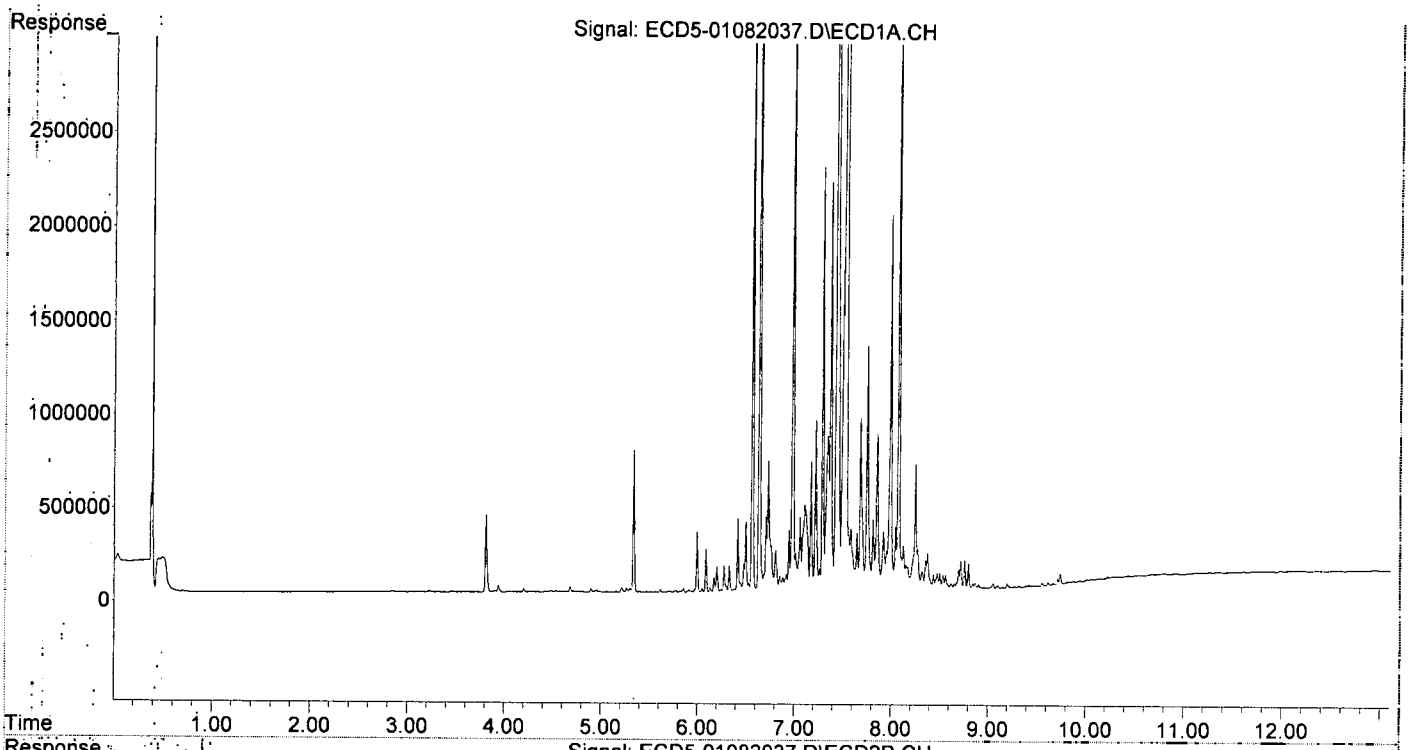
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.403	6.124	5420	8555	0.028	0.029	
22)	S DCBP (S)	9.620	10.755	23667	4289	0.003	0.024	#
	Target Compounds							
2)	a-BHC	5.910f	6.761f	12838	336901	0.049	0.816	#
3)	g-BHC	6.245	7.064	11348	176353	0.049	0.483	#
4)	b-BHC	6.328f	7.102	141046	88808	1.272	0.552	#
5)	Heptachlor	6.638	7.433	5083320	7935143	22.370	22.385	
6)	d-BHC	6.418f	7.362	395426	59766	1.815	0.236	#
7)	Aldrin	6.884	7.703	75211	103926	0.341	0.312	
8)	Heptachlo...	7.347	8.158	833474	450789	4.043	1.463	#
9)	trans-Chl...	7.437	8.282	11206289	19234034	53.181	61.681	
10)	cis-Chlor...	7.530	8.389	13908359	15819527	67.969	53.328	
11)	Endosulfa...	7.650	8.466f	304132	302200	1.569	1.088	
12)	4,4'-DDE	7.588	8.484	333708	431319	1.618	1.514	
13)	Dieldrin	7.817	8.644	381182	1518068	1.770	4.914	#
14)	Endrin	7.996f	8.852f	1992240	749318	11.515	3.189	#
15)	4,4'-DDD	7.996	8.914	1992240	2843982	11.539	11.570	
16)	Endosulfa...	8.130	9.030	235105	324102	1.378	1.327	
17)	4,4'-DDT	8.254f	9.149	670131	106323	4.045	0.577	#
18)	Endrin Al...	8.440f	9.228f	76784	99309	0.501	0.444	
19)	Endosulfa...	8.723	9.432	149201	23857	0.932	0.108	#
20)	Methoxychlor	8.539	9.621	74034	17193	0.855	0.145	#
21)	Endrin Ke...	8.906	9.854	23022	158095	0.121	0.631	#
23)	Hexachlor...	3.226f	0.000	7857	0	0.039	N.D.	#
24)	Hexachlor...	5.775	6.610	9790	10353	BelowCal	0.032	
25)	Oxychlordane	7.293f	8.083	2256772	253876	12.725	0.908	#
26)	2,4'-DDE	7.347	8.282	833474	19234034	5.845	91.334	#
27)	trans-Non...	7.530	8.345	13908359	14000556	69.573	45.532	
28)	2,4'-DDD	7.685f	8.644	920140	1518068	7.232	8.231	
29)	2,4'-DDT	7.925f	8.852	314330	749318	2.146	3.941	#
30)	cis-Nonac...	7.996	8.914	1992240	2843982	8.453	8.337	
31)	Mirex	8.657	9.854	26831	158095	6722.849	0.646	#
32)	Chlordane...	7.437	8.282	11206289	19234034	477.644	494.487	
33)	Chlordane...	7.530	8.389	13908359	15819527	482.581	492.852	
34)	Chlordane...	8.080	9.058	3625557	5010516	476.571	471.901	
35)	Chlordane...	3.810	0.000	411441	0	NoCal	N.D.	
36)	Toxaphene...	7.530	8.644f	13908359	1518068	13205.535	561.352	#
37)	Toxaphene...	7.817	8.969	381182	487291	196.015	139.923	
38)	Toxaphene...	8.130	9.009	235105	389443	52.067	71.737	
39)	Toxaphene...	8.360	9.058	157774	5010516	39.053	555.140	#
40)	Toxaphene...	8.566f	9.228f	77473	99309	23.564	19.775	
41)	Toxaphene...	8.657	9.621	26831	17193	6.179	3.062	#
42)	Toxaphene...	3.810	0.000	411441	0	NoCal	N.D.	

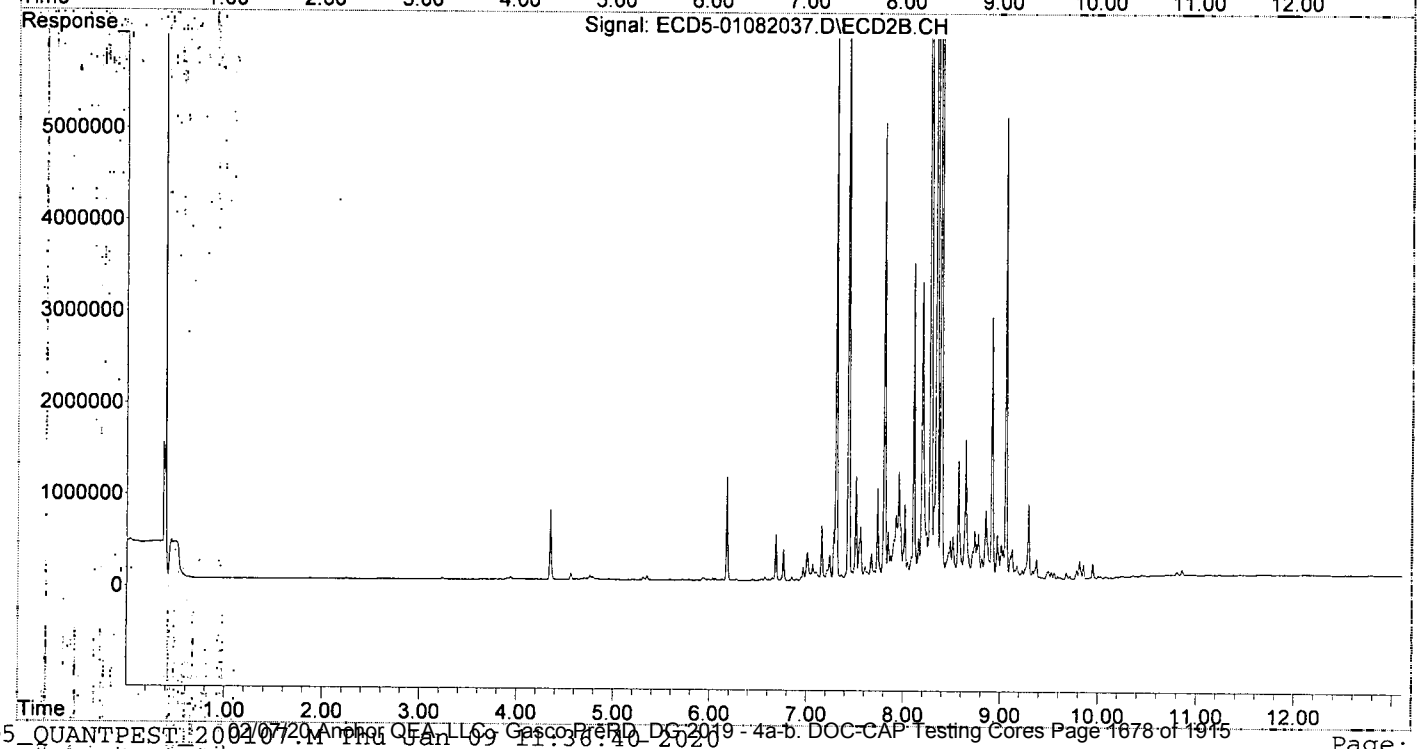
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 22:16
Operator : MJB
Sample : 0A08041-CALN
Misc : A19K310, CHLOR 500 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: Jan 09 11:32:07 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 22:33
Operator : MJB
Sample : 0A08041-CALO
Misc : A19K311, CHLOR 1000 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: Jan 09 11:32:17 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

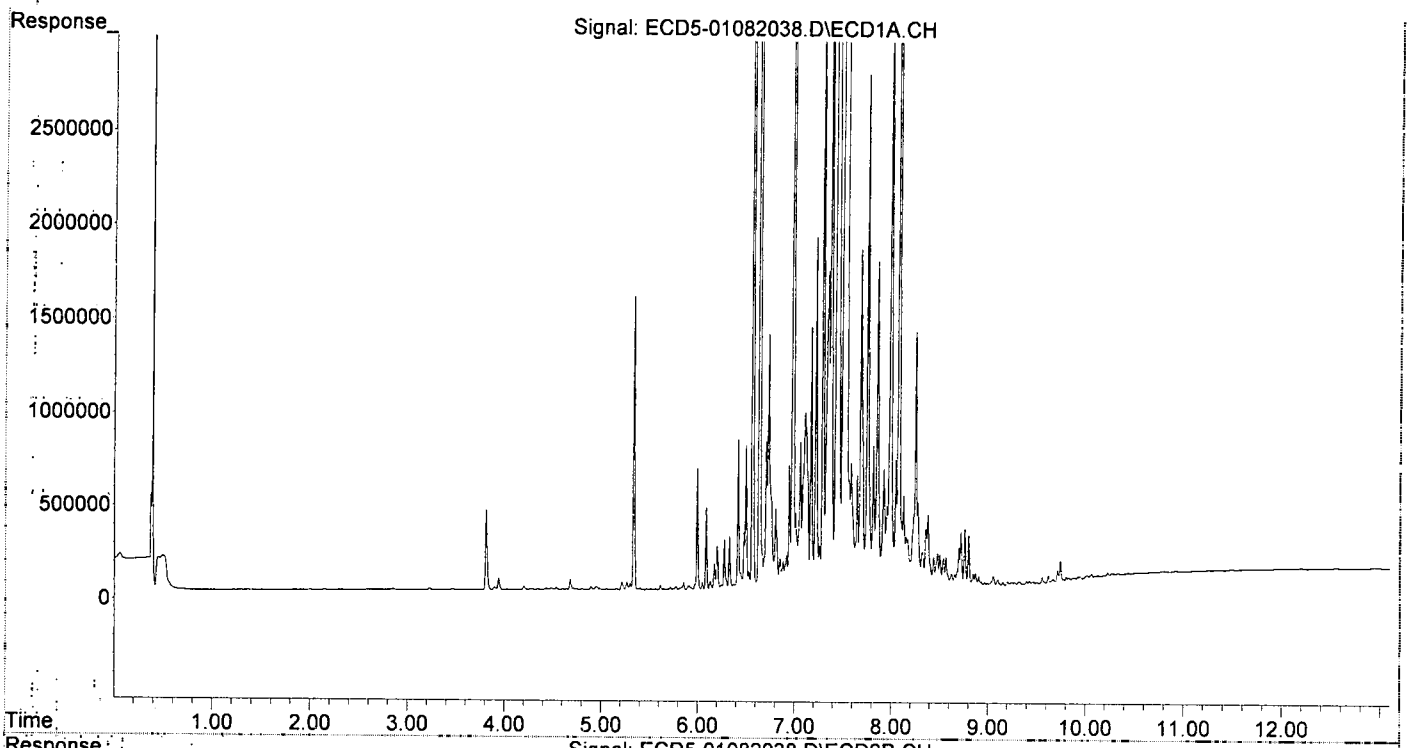
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.402	6.123	9798	12771	0.050	0.043	
22)	S	DCBP (S)	9.620	10.755	40124	12879	0.113	0.072	
		Target Compounds							
2)		a-BHC	5.910f	6.761f	21496	647692	0.082	1.568	#
3)		g-BHC	6.245	7.064	22195	335475	0.095	0.919	#
4)		b-BHC	6.328f	7.100	285005	146085	2.741	0.908	#
5)		Heptachlor	6.637	7.433	10535400	17179217	46.363	48.462	
6)		d-BHC	6.417f	7.363	795830	108547	3.653	0.381	#
7)		Aldrin	6.883	7.702	143935	184021	0.652	0.553	
8)		Heptachlo...	7.348	8.159	1702985	910754	8.261	2.957	#
9)		trans-Chl...	7.436	8.282	23306867	41815031	110.607	134.095	
10)		cis-Chlor...	7.530	8.390	28733989	33826481	140.421	114.029	
11)		Endosulfa...	7.649	8.465f	600773	632501	3.100	2.276	
12)		4,4'-DDE	7.587	8.484	662790	876502	3.215	3.036	
13)		Dieldrin	7.816	8.644	751833	3369901	3.491	10.908	#
14)		Endrin	7.996f	8.852f	4008014	1646182	23.165	7.006	#
15)		4,4'-DDD	7.996f	8.915	4008014	5868870	23.214	23.876	
16)		Endosulfa...	8.130	9.030	482837	655952	2.830	2.685	
17)		4,4'-DDT	8.254f	9.150	1366468	218307	8.249	1.092	#
18)		Endrin Al...	8.440f	9.229f	153954	208997	1.005	0.935	
19)		Endosulfa...	8.722	9.432	289883	58736	1.811	0.265	#
20)		Methoxychlor	8.539	9.622	150060	41628	1.733	0.351	#
21)		Endrin Ke...	8.906	9.854	47909	312372	0.251	1.247	#
23)		Hexachlor...	3.226f	0.000	9074	0	0.045	N.D.	#
24)		Hexachlor...	5.774	6.608	16566	12343	BelowCal	0.039	
25)		Oxychlordane	7.261	8.082	224230	504968	1.082	1.805	#
26)		2,4'-DDE	7.348	8.282	1702985	41815031	11.943	198.560	#
27)		trans-Non...	7.530	8.345	28733989	31332982	142.970	101.900	
28)		2,4'-DDD	7.685f	8.644	1800544	3369901	14.151	18.271	
29)		2,4'-DDT	7.924f	8.852	633565	1646182	4.325	8.706	#
30)		cis-Nonac...	7.996	8.915	4008014	5868870	17.005	17.204	
31)		Mirex	8.657	9.854	60242	312372	0.200	1.538	#
32)		Chlordane...	7.436	8.282	23306867	41815031	993.404	1075.021	
33)		Chlordane...	7.530	8.390	28733989	33826481	996.990	1053.853	
34)		Chlordane...	8.079	9.058	7448098	10569130	979.035	995.423	
35)		Chlordane...	3.810	0.000	423208	0	NoCal	N.D.	
36)		Toxaphene...	7.530	8.644f	28733989	3369901	27281.990	1246.124	#
37)		Toxaphene...	7.816	8.969	751833	984931	386.613	282.818	
38)		Toxaphene...	8.130	9.009	482837	837849	111.224	157.726	#
39)		Toxaphene...	8.360	9.058	308612	10569130	76.388	1171.007	#
40)		Toxaphene...	8.566f	9.229	155406	208997	47.268	41.617	
41)		Toxaphene...	8.657	9.622	60242	41628	13.873	7.415	#
42)		Toxaphene...	3.810	0.000	423208	0	NoCal	N.D.	

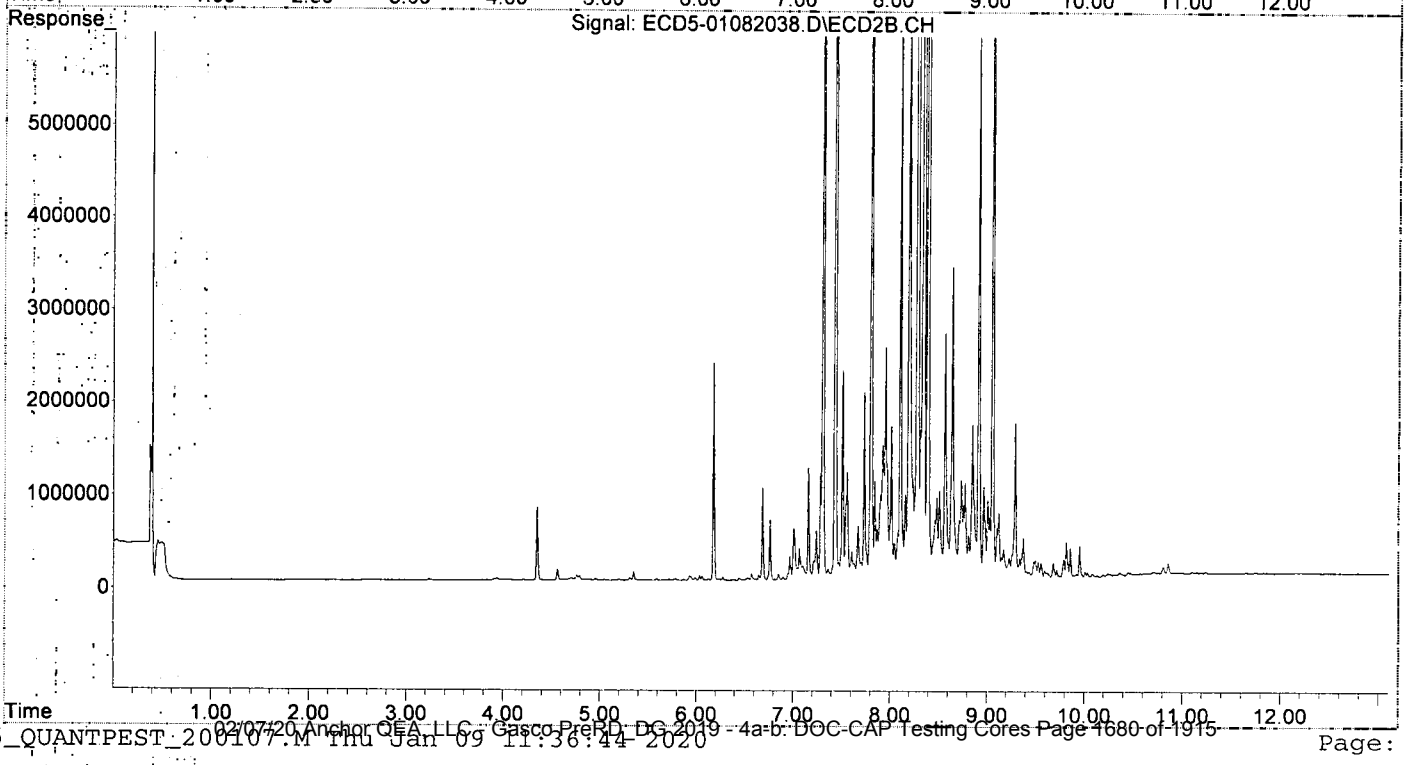
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 22:33
Operator : MJB
Sample : 0A08041-CALO
Misc : A19K311, CHLOR 1000 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: Jan 09 11:32:17 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 22:50
Operator : MJB
Sample : 0A08041-CALP
Misc : A19K306, CHLOR 2000 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: Jan 09 11:32:28 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

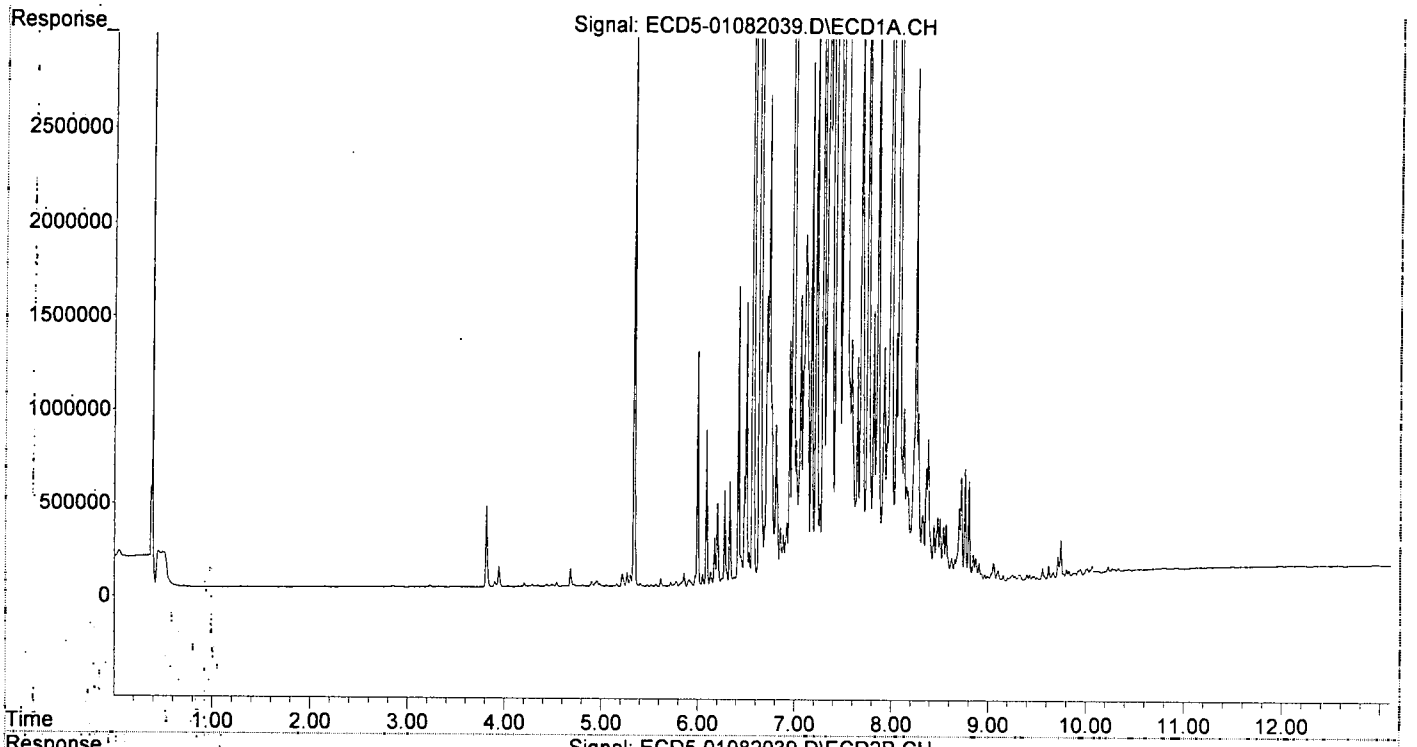
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.405	6.093f	18762	10250	0.096	0.034	#
22)	S DCBP (S)	9.622	10.757	70733	20529	0.317	0.115	#
	Target Compounds							
2)	a-BHC	5.912f	6.763f	37181	1243796	0.141	3.012	#
3)	g-BHC	6.202f	7.066	446709	623981	1.913	1.709	
4)	b-BHC	6.277f	7.101	511971	234905	5.059	1.460	#
5)	Heptachlor	6.639	7.435	21169046	36522630	93.159	103.029	
6)	d-BHC	6.419f	7.365	1596353	196886	7.328	0.643	#
7)	Aldrin	6.884	7.705	271904	337413	1.232	1.013	
8)	Heptachlo...	7.348	8.160	3311763	1797851	16.064	5.836	#
9)	trans-Chl...	7.438	8.285	45620260	88263621	216.499	283.050	
10)	cis-Chlor...	7.532	8.392	57400215	70960383	280.511	239.208	
11)	Endosulfa...	7.650	8.466f	1205884	1313552	6.222	4.727	
12)	4,4'-DDE	7.588	8.486	1308468	1763283	6.346	6.052	
13)	Dieldrin	7.818	8.645	1463073	7392199	6.793	23.928	#
14)	Endrin	7.997f	8.890	8045747	854577	46.502	3.637	#
15)	4,4'-DDD	7.997	8.916	8045747	12115047	46.600	49.287	
16)	Endosulfa...	8.131	9.031	933707	1342410	5.472	5.495	
17)	4,4'-DDT	0.000	9.151	0	440296	N.D.	2.110	#
18)	Endrin Al...	8.441f	9.230f	302898	420267	1.978	1.880	
19)	Endosulfa...	8.724	9.435	562784	134010	3.517	0.605	#
20)	Methoxychlor	8.540	9.625	298859	98601	3.451	0.831	#
21)	Endrin Ke...	8.907	9.856	94863	625998	0.497	2.500	#
23)	Hexachlor...	3.228f	0.000	9401	0	0.047	N.D.	#
24)	Hexachlor...	5.776	6.572f	27126	123312	BelowCal	0.385	
25)	Oxychlordane	7.262	8.084	431510	1016838	2.271	3.636	#
26)	2,4'-DDE	7.348	8.285	3311763	88263621	23.226	419.124	#
27)	trans-Non...	7.532	8.347	57400215	65752002	282.292	213.836	
28)	2,4'-DDD	7.686f	8.645	3641213	7392199	28.618	40.079	#
29)	2,4'-DDT	7.925f	8.854	1270102	3572195	8.671	18.671	#
30)	cis-Nonac...	7.997	8.916	8045747	12115047	34.136	35.513	
31)	Mirex	8.659	9.856	121574	625998	0.655	3.346	#
32)	Chlordane...	7.438	8.285	45620260	88263621	1944.464	2269.166	
33)	Chlordane...	7.532	8.392	57400215	70960383	1991.628	2210.747	
34)	Chlordane...	8.081	9.060	15008543	22453950	1972.838	2114.760	
35)	Chlordane...	3.812	0.000	438160	0	NoCal	N.D.	
36)	Toxaphene...	7.532f	8.645f	57400215	7392199	54499.640	2733.491	#
37)	Toxaphene...	7.818	8.971	1463073	2013867	752.353	578.272	
38)	Toxaphene...	8.131	9.011	933707	1688639	218.651	317.609	#
39)	Toxaphene...	8.382f	9.060	768519	22453950	190.226	2487.787	#
40)	Toxaphene...	8.567	9.230	308699	420267	93.893	83.686	
41)	Toxaphene...	8.659	9.625	121574	98601	27.997	17.563	
42)	Toxaphene...	3.812	0.000	438160	0	NoCal	N.D.	

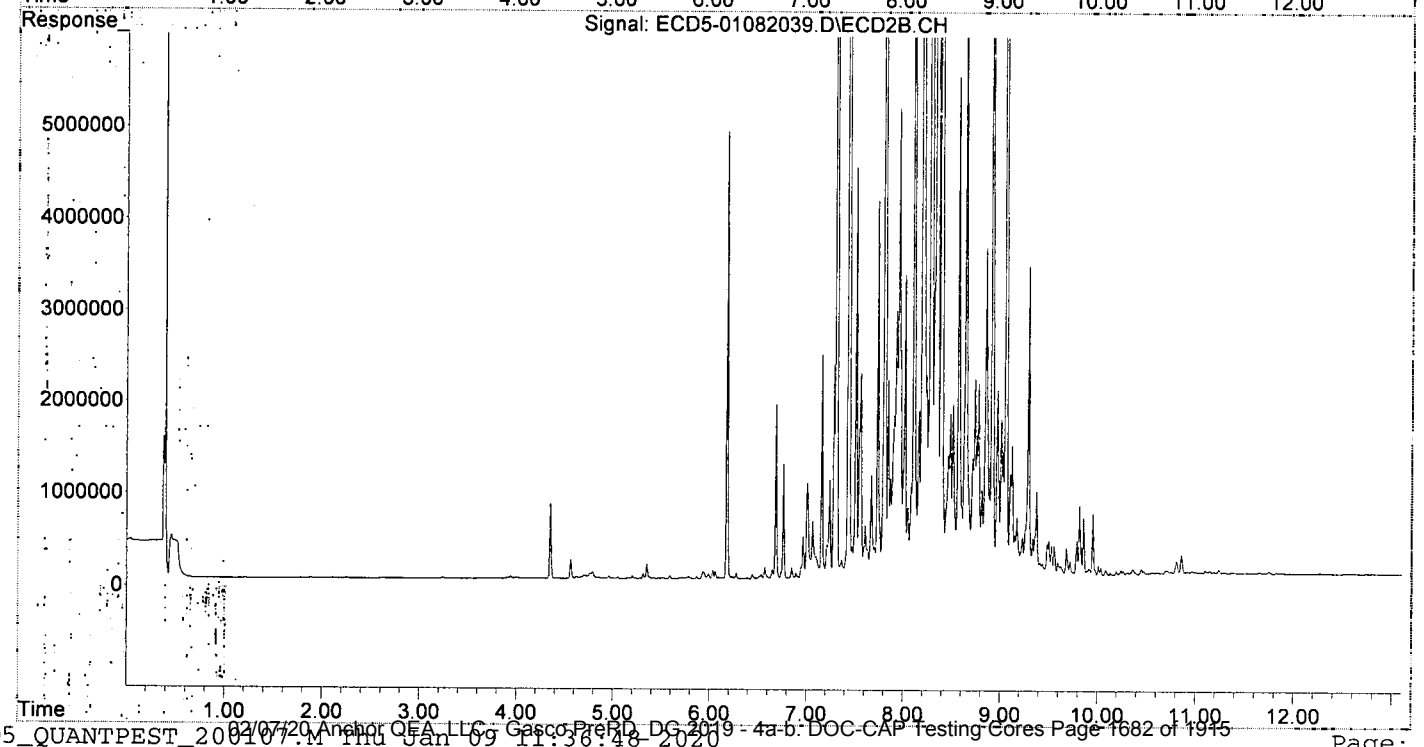
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 22:50
Operator : MJB
Sample : 0A08041-CALP
Misc : A19K306, CHLOR 2000 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: Jan 09 11:32:28 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:33:28 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

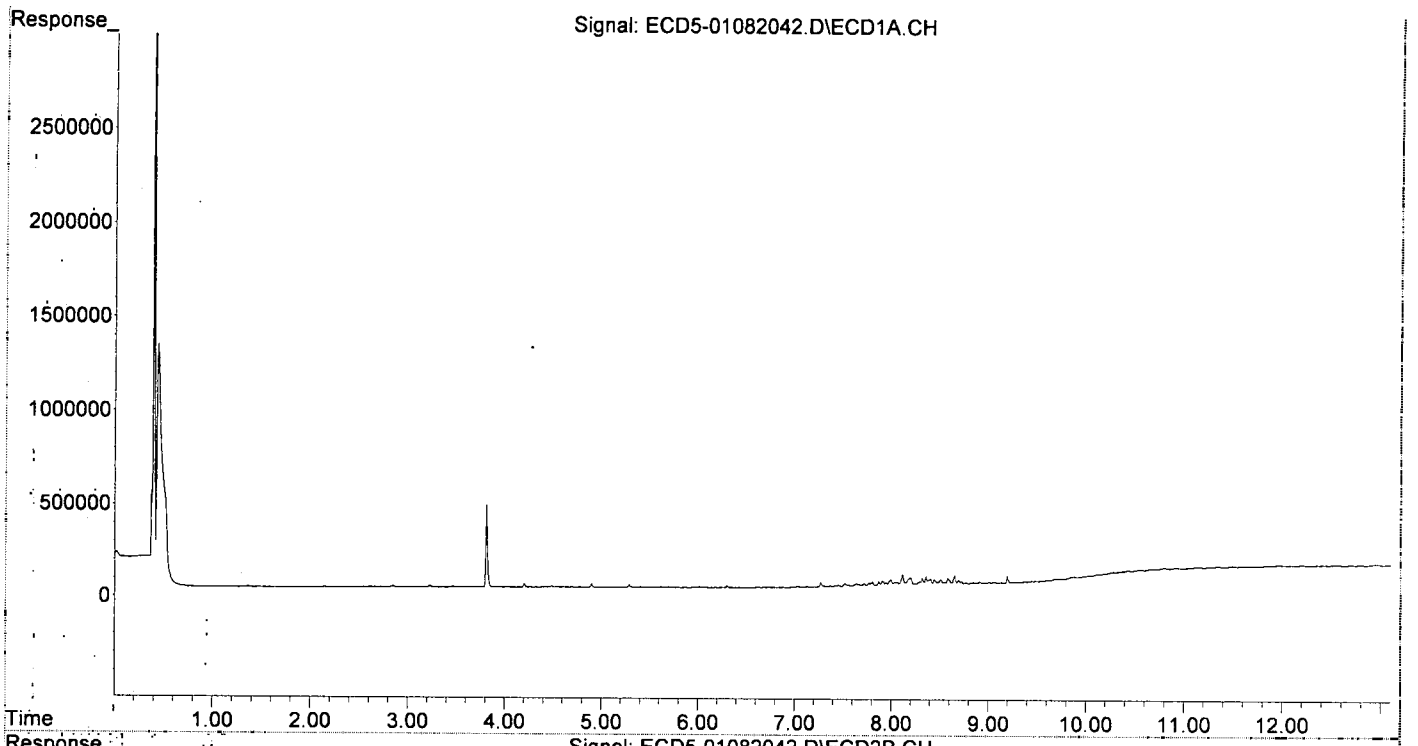
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.124	0	10629	N.D.	0.036	#
22)	S DCBP (S)	9.609	0.000	6815	0	8131.940	N.D.	#
	Target Compounds							
2)	a-BHC	5.947	0.000	3461	0	0.013	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.302	0.000	12620	0	5931.873	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...	7.367f	8.135	5219	8047	0.025	0.026	
9)	trans-Chl...	7.451	8.284	6675	15210	0.032	0.049	#
10)	cis-Chlor...	7.523	8.413f	14451	8223	0.071	0.028	#
11)	Endosulfa...	7.639	8.446	13158	13219	0.068	0.048	
12)	4,4'-DDE	7.561f	8.477	8579	14922	0.042	0.084	#
13)	Dieldrin	7.806	8.659	21367	17989	0.099	0.058	#
14)	Endrin	7.945f	8.865	16660	36793	0.096	0.157	#
15)	4,4'-DDD	8.034	8.916	16954	21078	0.098	0.086	
16)	Endosulfa...	8.118	9.004	58763	70419	0.344	0.288	
17)	4,4'-DDT	8.196	9.138	37833	22478	0.228	0.191	
18)	Endrin Al...	8.405	9.249	30288	51910	0.198	0.232	
19)	Endosulfa...	8.723	9.453	13816	19892	0.086	0.090	
20)	Methoxychlor	8.586f	9.634	33626	57037	0.388	0.481	
21)	Endrin Ke...	8.908	9.875	9140	9995	0.048	0.040	
23)	Hexachlor...	3.226f	0.000	9767	0	0.049	N.D.	#
24)	Hexachlor...	0.000	6.610	0	10990	N.D.	0.034	#
25)	Oxychlordane	7.271	8.083	23041	7291	BelowCal	0.026	
26)	2,4'-DDE	7.367f	8.263	5219	9920	0.037	0.047	
27)	trans-Non...	7.523	8.355	14451	10080	BelowCal	0.033	
28)	2,4'-DDD	7.723	8.659	13907	17989	0.109	0.098	
29)	2,4'-DDT	7.909	8.865	24195	36793	0.165	0.096	#
30)	cis-Nonac...	7.995	8.916	30542	21078	0.130	0.062	#
31)	Mirex	8.654	9.823f	47173	51078	0.103	0.026	#
32)	Chlordane...	7.451	8.284	6675	15210	0.284	0.391	
33)	Chlordane...	7.523	8.413f	14451	8223	0.501	0.256	#
34)	Chlordane...	8.058f	9.072	17437	99104	2.292	9.334	#
35)	Chlordane...	3.810	0.000	440668	0	NoCal	N.D.	
36)	Toxaphene...	7.514	8.619	12440	29639	11.812m	10.960	
37)	Toxaphene...	7.806	8.968	21367	37237	10.987	10.692	
38)	Toxaphene...	8.118	9.004	58763	70419	9.901	9.796	
39)	Toxaphene...	8.358	9.072	44260	99104	10.955	10.980	✓
40)	Toxaphene...	8.586	9.249	33626	51910	10.228	10.337	
41)	Toxaphene...	8.654	9.634	47173	57037	10.863	10.159	
42)	Toxaphene...	3.810	0.000	440668	0	NoCal	N.D.	

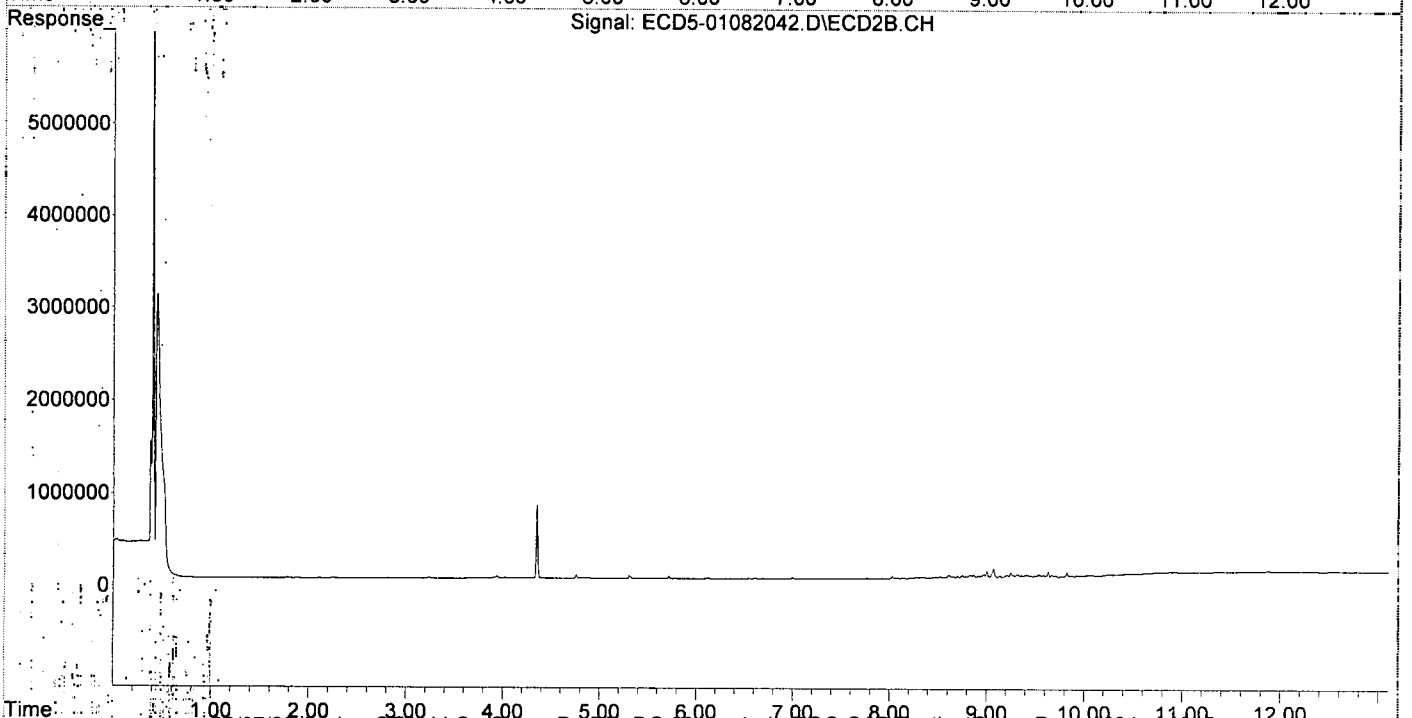
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:33:28 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

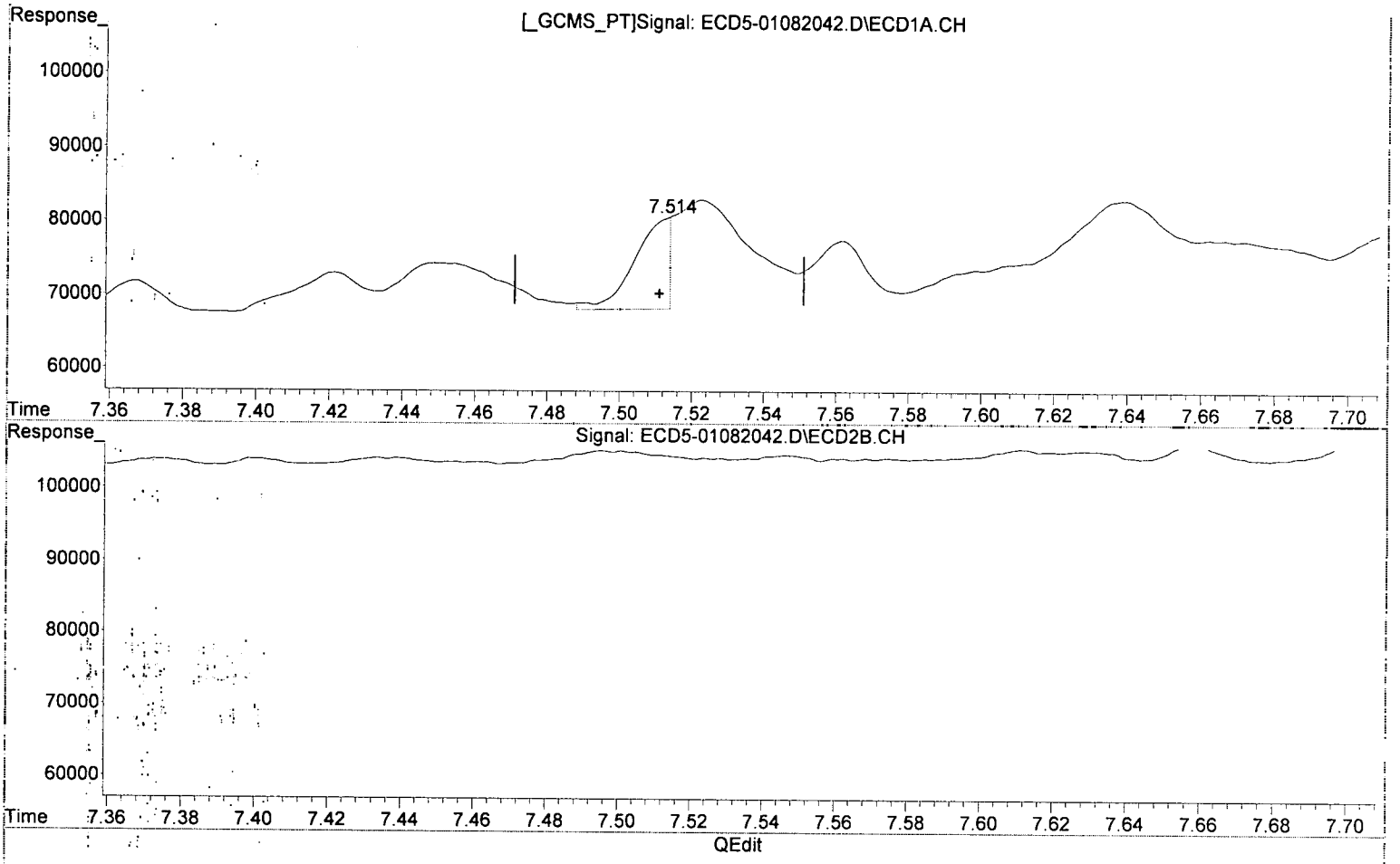




Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:32:57 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.514min 11.812 ng/mL m

response 12440

MJB 1/9/20

(36) Toxaphene (1) #2

8.619min 10.960 ng/mL

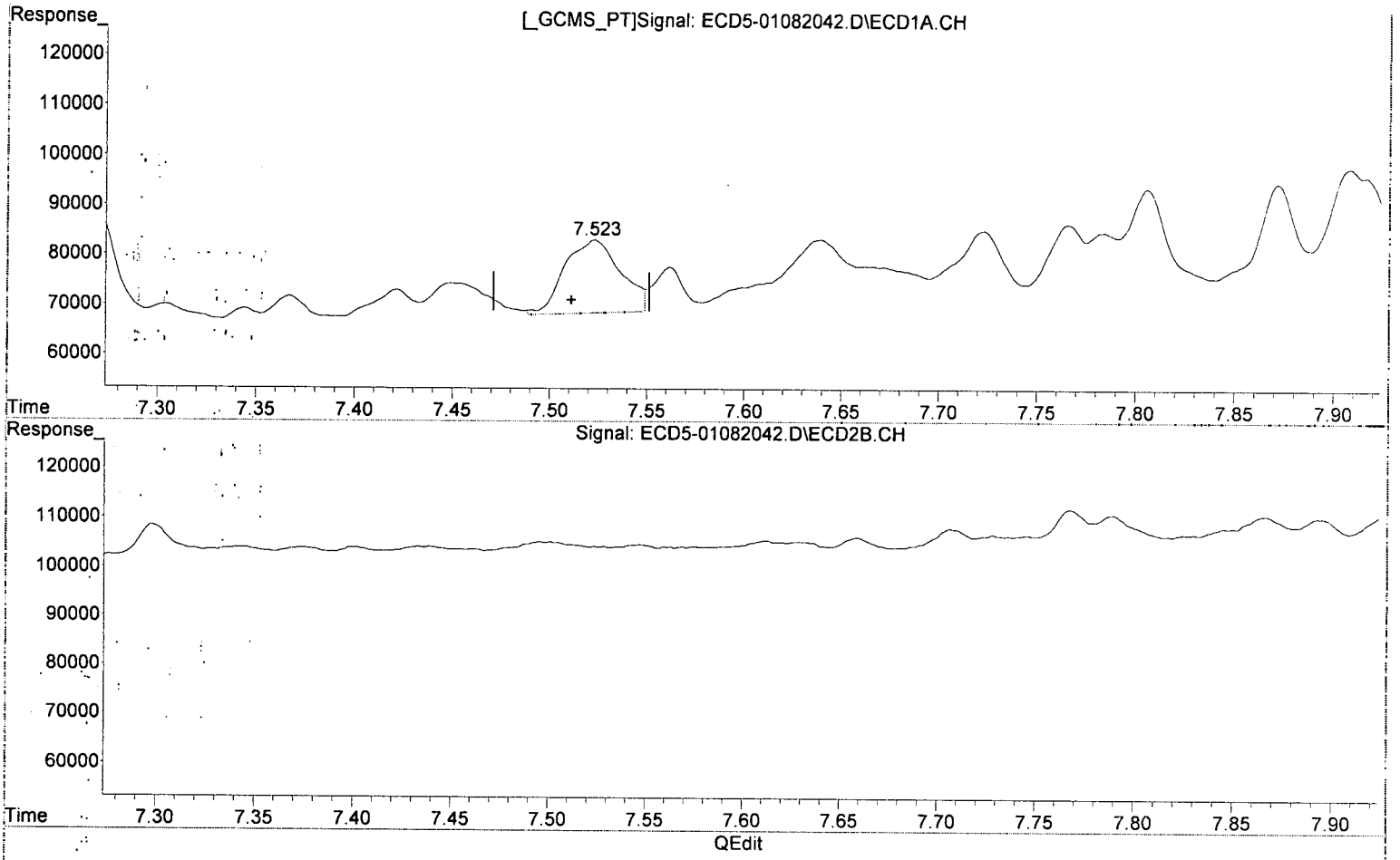
response 29639

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:32:57 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.523min 13.720 ng/mL

response 14451

MJB 1/9/20

(36) Toxaphene (1) #2

8.619min 10.960 ng/mL

response 29639

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:32:57 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJ
MJB 1/9/20

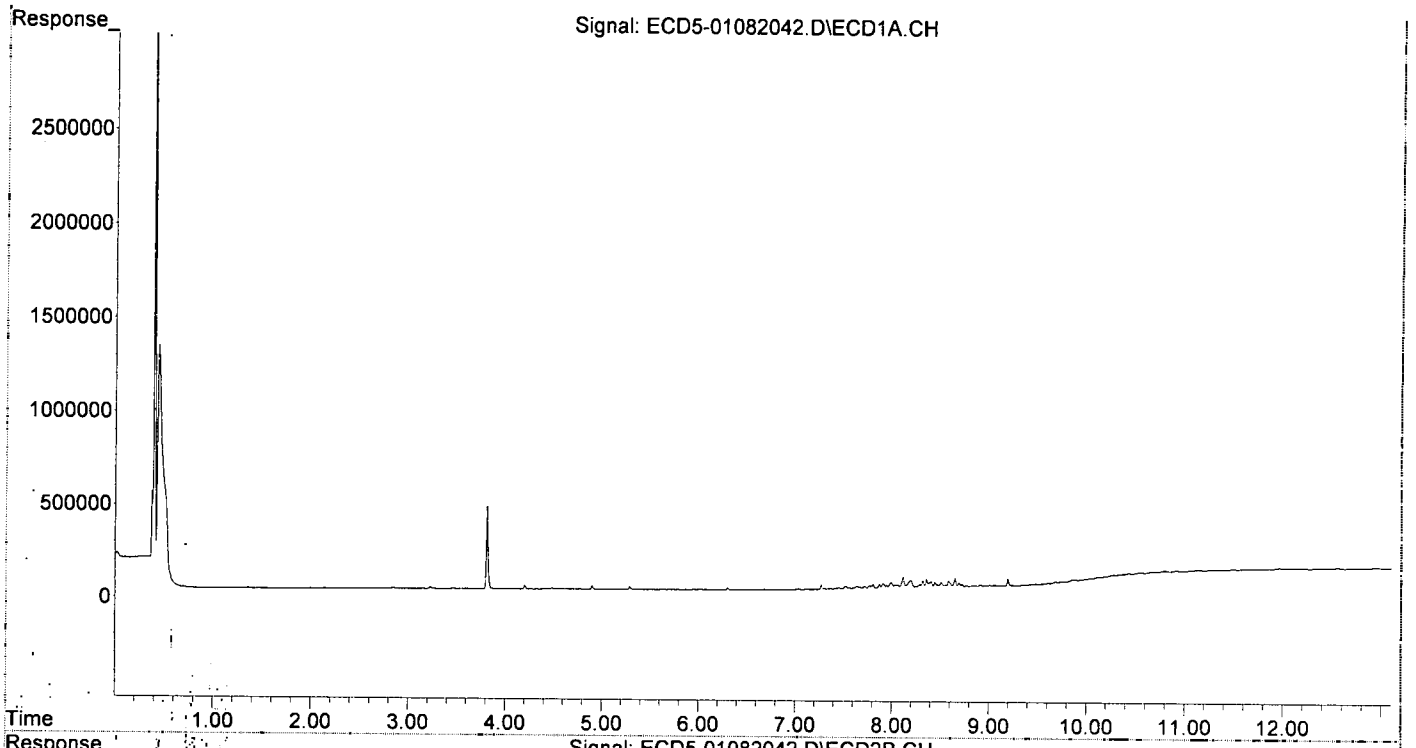
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.124	0	10629	N.D.	0.036	#
22)	S DCBP (S)	9.609	0.000	6815	0	8131.940	N.D.	#
	Target Compounds							
2)	a-BHC	5.947	0.000	3461	0	0.013	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.302	0.000	12620	0	5931.873	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...	7.367f	8.135	5219	8047	0.025	0.026	
9)	trans-Chl...	7.451	8.284	6675	15210	0.032	0.049	#
10)	cis-Chlor...	7.523	8.413f	14451	8223	0.071	0.028	#
11)	Endosulfa...	7.639	8.446	13158	13219	0.068	0.048	
12)	4,4'-DDE	7.561f	8.477	8579	14922	0.042	0.084	#
13)	Dieldrin	7.806	8.659	21367	17989	0.099	0.058	#
14)	Endrin	7.945f	8.805	16660	36793	0.096	0.157	#
15)	4,4'-DDD	8.034	8.916	16954	21078	0.098	0.086	
16)	Endosulfa...	8.118	9.004	58763	70419	0.344	0.288	
17)	4,4'-DDT	8.196	9.138	37833	22478	0.228	0.191	
18)	Endrin Al...	8.405	9.249	30288	51910	0.198	0.232	
19)	Endosulfa...	8.723	9.453	13816	19892	0.086	0.090	
20)	Methoxychlor	8.586f	9.634	33626	57037	0.388	0.481	
21)	Endrin Ke...	8.908	9.875	9140	9995	0.048	0.040	
23)	Hexachlor...	3.226f	0.000	9767	0	0.049	N.D.	#
24)	Hexachlor...	0.000	6.610	0	10990	N.D.	0.034	#
25)	Oxychlordane	7.271	8.083	23041	7291	BelowCal	0.026	
26)	2,4'-DDE	7.367f	8.263	5219	9920	0.037	0.047	
27)	trans-Non...	7.523	8.355	14451	10080	BelowCal	0.033	
28)	2,4'-DDD	7.723	8.659	13907	17989	0.109	0.098	
29)	2,4'-DDT	7.909	8.865	24195	36793	0.165	0.096	#
30)	cis-Nonac...	7.995	8.916	30542	21078	0.130	0.062	#
31)	Mirex	8.654	9.823f	47173	51078	0.103	0.026	#
32)	Chlordane...	7.451	8.284	6675	15210	0.284	0.391	
33)	Chlordane...	7.523	8.413f	14451	8223	0.501	0.256	#
34)	Chlordane...	8.058f	9.072	17437	99104	2.292	9.334	#
35)	Chlordane...	3.810	0.000	440668	0	NoCal	N.D.	
36)	Toxaphene...	7.523	8.619	14451	29639	13.720	10.960	
37)	Toxaphene...	7.806	8.968	21367	37237	10.987	10.692	
38)	Toxaphene...	8.118	9.004	58763	70419	9.901	9.796	
39)	Toxaphene...	8.358	9.072	44260	99104	10.955	10.980	
40)	Toxaphene...	8.586	9.249	33626	51910	10.228	10.337	
41)	Toxaphene...	8.654	9.634	47173	57037	10.863	10.159	
42)	Toxaphene...	3.810	0.000	440668	0	NoCal	N.D.	

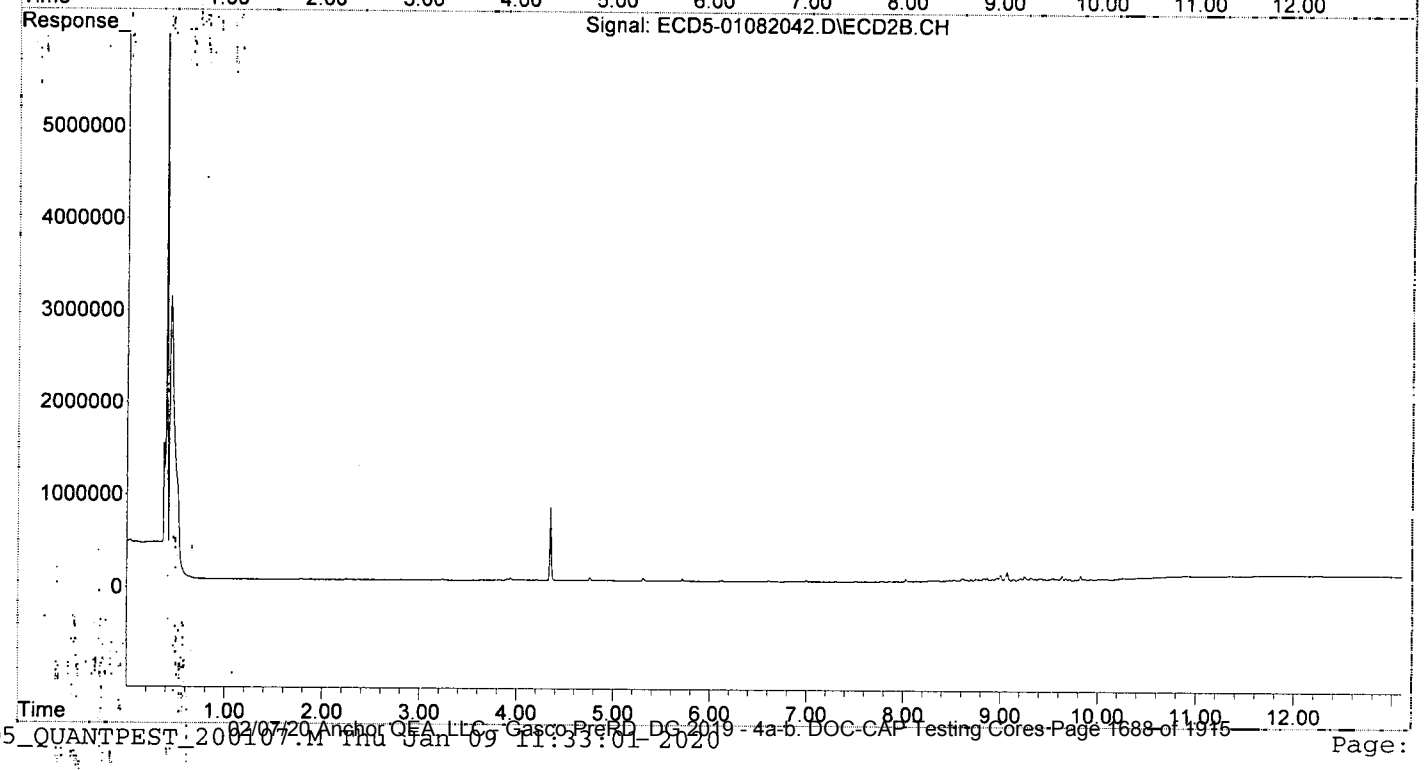
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:32:57 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:58
Operator : MJB
Sample : 0A08041-CALR
Misc : A19J417, TOX 50 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: Jan 09 11:34:03 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

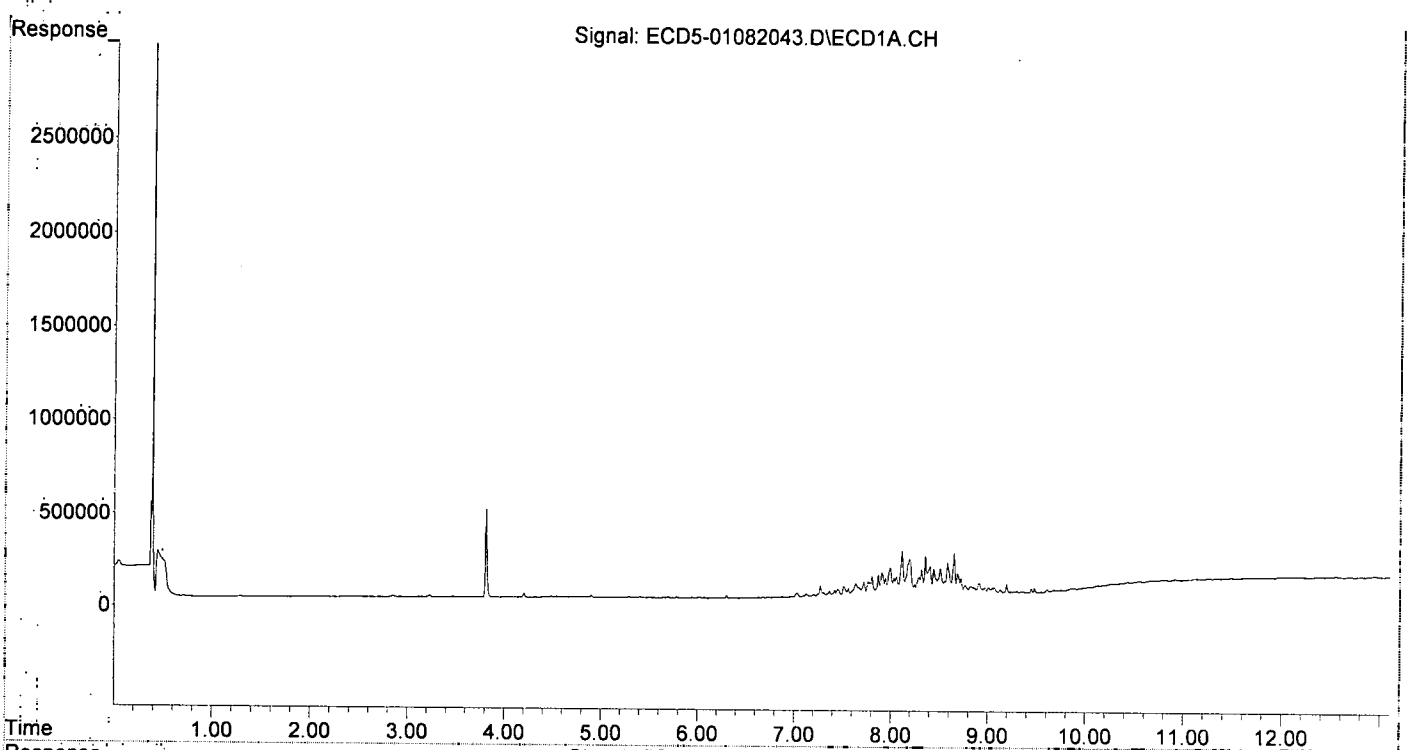
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.403	6.125	4956	18487	0.025	0.062	#
22)	S DCBP (S)	9.608	10.740	15430	13649	8131.882	0.077	#
	Target Compounds							
2)	a-BHC	5.945	0.000	4448	0	0.017	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.299	0.000	14109	0	5931.858	N.D.	#
5)	Heptachlor	6.637	0.000	2680	0	0.012	N.D.	#
6)	d-BHC	0.000	7.394f	0	6876	N.D.	0.078	#
7)	Aldrin	6.878	7.706	4224	17228	0.019	0.052	#
8)	Heptachlo...	7.366f	8.134	30277	46441	0.147	0.151	
9)	trans-Chl...	7.453	8.262f	38731	53450	0.184	0.171	
10)	cis-Chlor...	7.512f	8.413f	54826	53475	0.268	0.180	
11)	Endosulfa...	7.639	8.446	68993	69495	0.356	0.250	
12)	4,4'-DDE	7.561f	8.477	45498	78224	0.221	0.302	
13)	Dieldrin	7.805	8.659	106490	90092	0.494	0.292	#
14)	Endrin	7.945f	8.865	94051	179102	0.544	0.762	#
15)	4,4'-DDD	8.033	8.916	93357	109578	0.541	0.446	
16)	Endosulfa...	8.117	9.005	237969	285157	1.395	1.167	
17)	4,4'-DDT	8.196	9.137	192154	112855	1.160	0.607	#
18)	Endrin Al...	8.405	9.249	153760	244237	1.004	1.092	
19)	Endosulfa...	8.723	9.453	84184	107759	0.526	0.486	
20)	Methoxychlor	8.586f	9.634	169348	279398	1.955	2.355	
21)	Endrin Ke...	8.907	9.856	57105	30499	0.299	0.122	#
23)	Hexachlor...	3.226f	3.815	9354	6744	0.047	0.017	#
24)	Hexachlor...	5.785	6.608	5505	12862	BelowCal	0.040	
25)	Oxychlordane	7.271	8.082	60504	40121	0.143	0.143	
26)	2,4'-DDE	7.366f	8.262	30277	53450	0.212	0.254	
27)	trans-Non...	7.512	8.355	54826	54464	0.120	0.177	#
28)	2,4'-DDD	7.723	8.659	76945	90092	0.605	0.488	
29)	2,4'-DDT	7.909	8.865	124749	179102	0.852	0.868	
30)	cis-Nonac...	7.995	8.916	149342	109578	0.634	0.321	#
31)	Mirex	8.654	9.856	225107	30499	1.423	BelowCal	#
32)	Chlordane...	7.453	8.262	38731	53450	1.651	1.374	
33)	Chlordane...	7.512	8.413f	54826	53475	1.902	1.666	
34)	Chlordane...	8.058f	9.073	99499	435032	13.079	40.972	#
35)	Chlordane...	3.810	3.815	473784	6744	NoCal	NoCal	
36)	Toxaphene...	7.512	8.618	54826	140732	52.056	52.040	
37)	Toxaphene...	7.805	8.968	106490	174093	54.760	49.990	
38)	Toxaphene...	8.117	9.005	237969	285157	52.751	51.560	
39)	Toxaphene...	8.358	9.073	207485	435032	51.357	48.199	
40)	Toxaphene...	8.586	9.249	169348	244237	51.508	48.634	
41)	Toxaphene...	8.654	9.634	225107	279398	51.840	49.767	
42)	Toxaphene...	3.810	3.815	473784	6744	NoCal	NoCal	

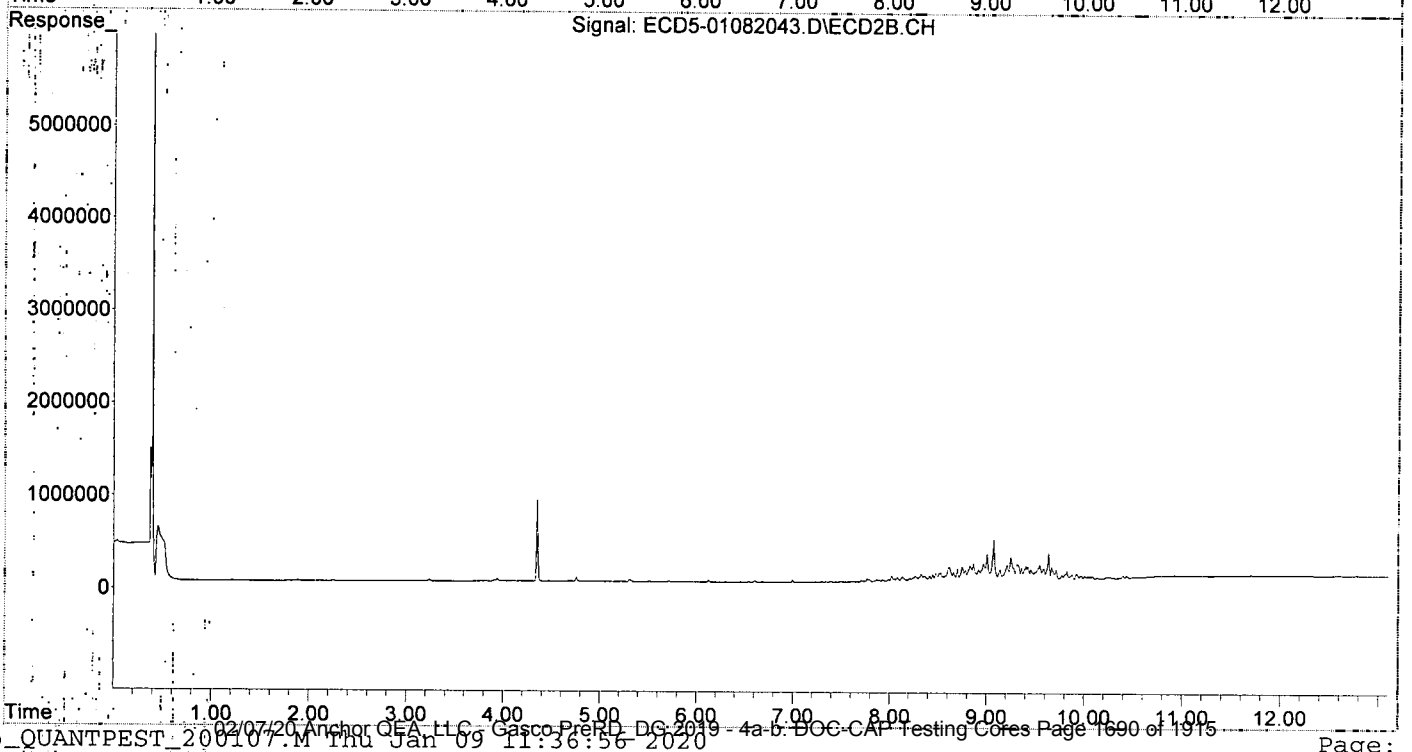
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:58
Operator : MJB
Sample : 0A08041-CALR
Misc : A19J417, TOX 50 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: Jan 09 11:34:03 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 0:15
Operator : MJB
Sample : 0A08041-CALS
Misc : A19J418, TOX 100 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: Jan 09 11:34:14 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

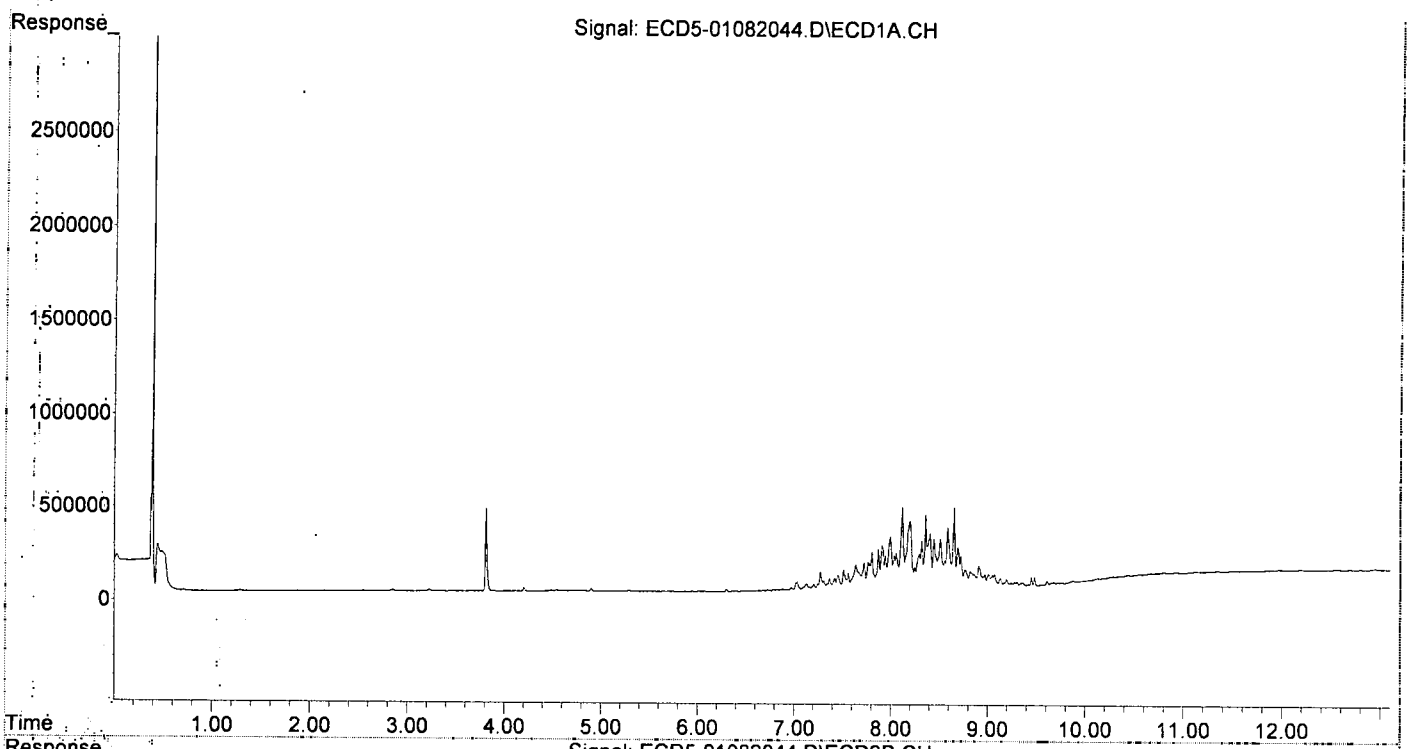
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.126	0	8106	N.D.	0.027	#
22)	S DCBP (S)	9.608	10.741	20760	14805	8131.846	0.083	#
	Target Compounds							
2)	a-BHC	5.945	0.000	4256	0	0.016	N.D.	#
3)	g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	b-BHC	6.299	0.000	14047	0	5931.859	N.D.	#
5)	Heptachlor	6.637	7.400f	4439	7279	0.020	0.021	
6)	d-BHC	6.472f	7.400f	3119	7279	0.014	0.079	#
7)	Aldrin	6.879	7.707	9410	22138	0.043	0.066	#
8)	Heptachlo...	7.366f	8.135	60918	85649	0.295	0.278	
9)	trans-Chl...	7.454	8.262f	76453	98390	0.363	0.316	
10)	cis-Chlor...	7.511f	8.413f	104733	102933	0.512	0.347	
11)	Endosulfa...	7.638	8.446	130286	127365	0.672	0.458	
12)	4,4'-DDE	7.561f	8.477	87855	143399	0.426	0.526	
13)	Dieldrin	7.805	8.659	197183	167470	0.916	0.542	#
14)	Endrin	7.945f	8.865	178491	330092	1.032	1.405	
15)	4,4'-DDD	8.033	8.918	176992	198023	1.025	0.806	
16)	Endosulfa...	8.117	9.006	433935	528362	2.543	2.163	
17)	4,4'-DDT	8.197	9.138	361054	213221	2.179	1.069	#
18)	Endrin Al...	8.405	9.250	291406	465078	1.903	2.080	
19)	Endosulfa...	8.723	9.454	161890	205588	1.012	0.927	
20)	Methoxychlor	8.586f	9.634	321308	522567	3.710	4.405	
21)	Endrin Ke...	8.907	9.875f	109946	96053	0.576	0.384	
23)	Hexachlor...	3.226f	3.814	8764	5943	0.044	0.015	#
24)	Hexachlor...	0.000	6.610	0	10986	N.D.	0.034	#
25)	Oxychlordane	7.272	8.084	96647	77711	0.351	0.278	
26)	2,4'-DDE	7.366f	8.262	60918	98390	0.427	0.467	
27)	trans-Non...	7.511	8.357	104733	103623	0.372	0.337	
28)	2,4'-DDD	7.723	8.659	143433	167470	1.127	0.908	
29)	2,4'-DDT	7.909	8.865	230670	330092	1.575	1.685	
30)	cis-Nonac...	7.994	8.918	276275	198023	1.172	0.580	#
31)	Mirex	8.654	9.875f	426816	96053	2.919	0.287	#
32)	Chlordane...	7.454	8.262	76453	98390	3.259	2.530	
33)	Chlordane...	7.511	8.413f	104733	102933	3.634	3.207	
34)	Chlordane...	8.057f	9.073	187839	848142	24.691	79.880	#
35)	Chlordane...	3.810	3.814	438290	5943	NoCal	NoCal	
36)	Toxaphene...	7.511	8.619	104733	261214	99.440	96.592	
37)	Toxaphene...	7.805	8.969	197183	329715	101.397	94.676	
38)	Toxaphene...	8.117	9.006	433935	528362	99.554	98.509	
39)	Toxaphene...	8.359	9.073	392871	848142	97.244	93.970	
40)	Toxaphene...	8.586	9.250	321308	465078	97.728	92.609	
41)	Toxaphene...	8.654	9.634	426816	522567	98.291	93.080	
42)	Toxaphene...	3.810	3.814	438290	5943	NoCal	NoCal	

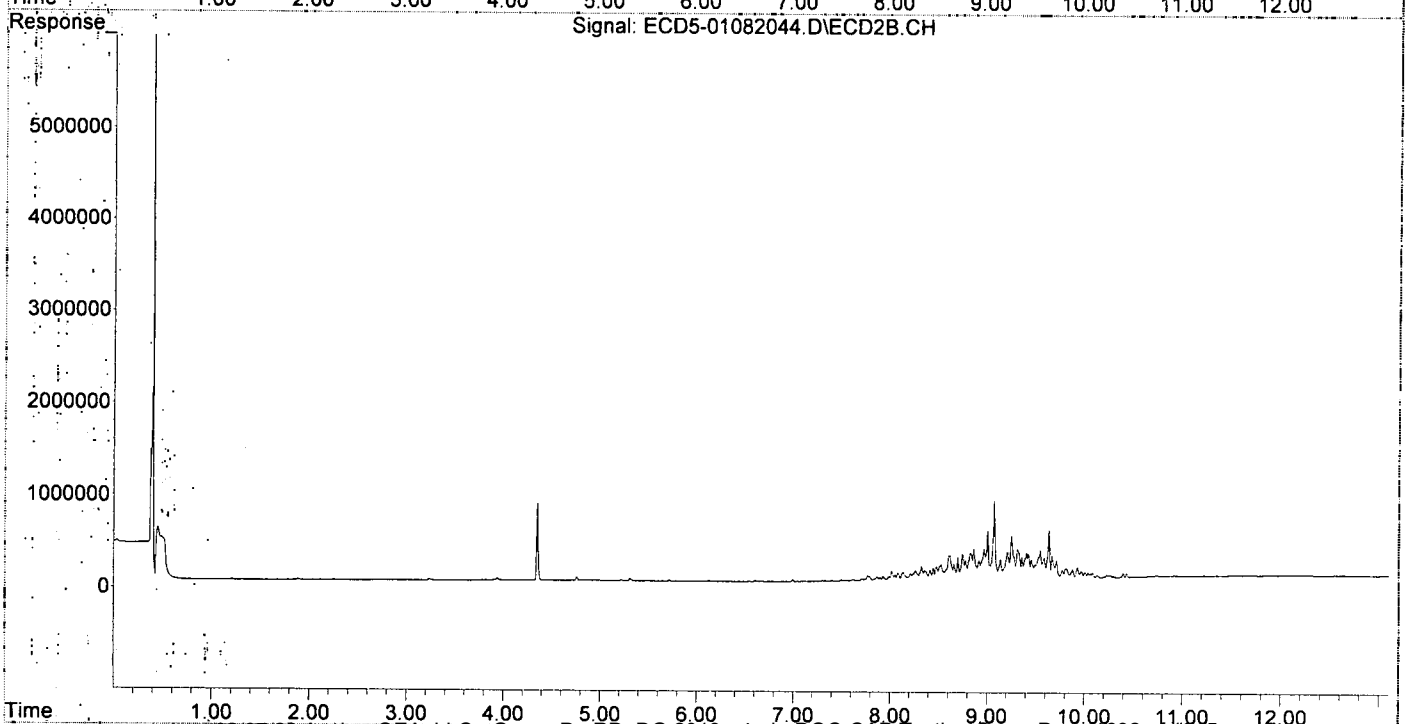
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 0:15
Operator : MJB
Sample : 0A08041-CALS
Misc : A19J418, TOX 100 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: Jan 09 11:34:14 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 0:32
Operator : MJB
Sample : 0A08041-CALT
Misc : A19J419, TOX 200 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: Jan 09 11:34:29 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

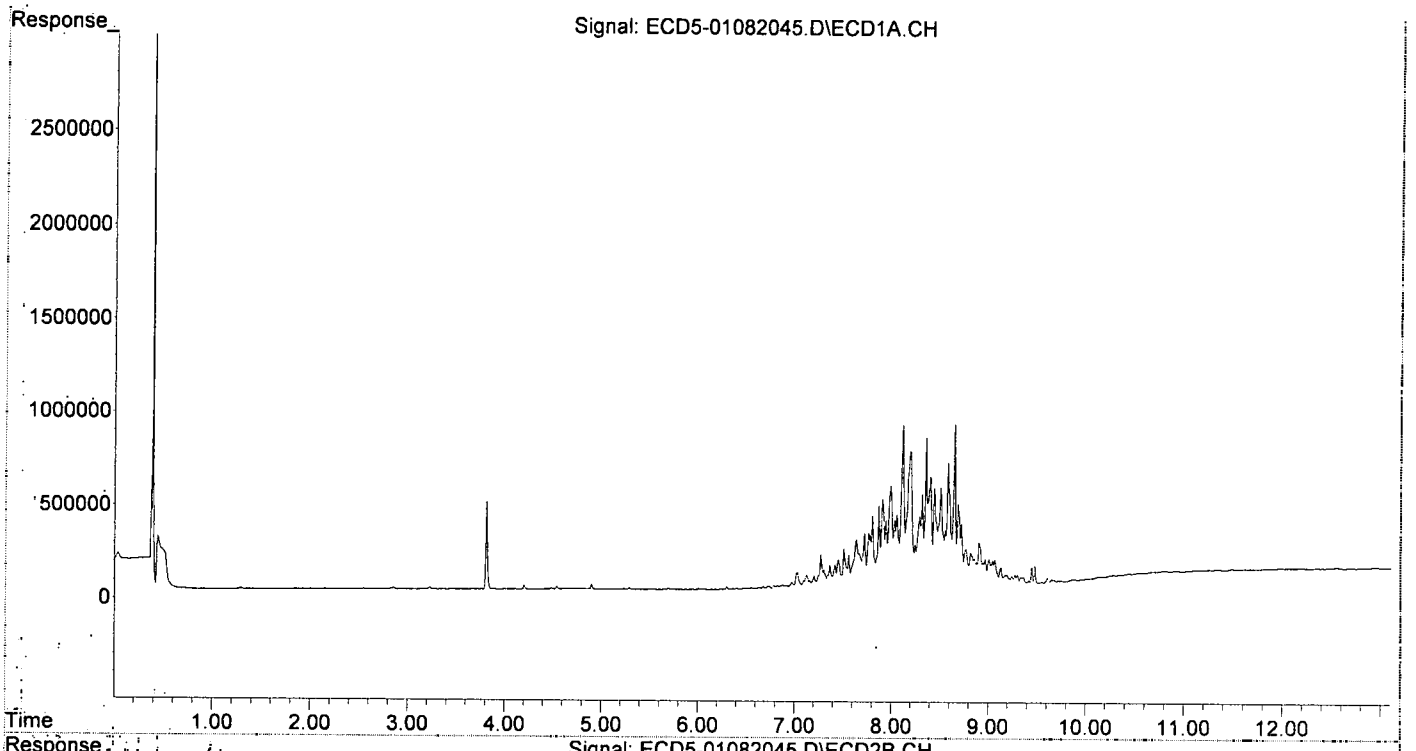
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.126	0	13896	N.D.	0.047	#
22)	S DCBP (S)	9.606	10.739	25272	19008	0.013	0.107	#
	Target Compounds							
2)	a-BHC	5.945	0.000	5360	0	0.020	N.D.	#
3)	g-BHC	6.234	7.043	3329	4622	0.014	0.013	
4)	b-BHC	6.299	7.108	15844	8082	5931.840	0.050	#
5)	Heptachlor	6.638	7.438	8500	6202	0.037	0.017	#
6)	d-BHC	6.472f	7.402f	5212	11332	0.024	0.091	#
7)	Aldrin	6.878	7.709	20493	34233	0.093	0.103	
8)	Heptachlo...	7.366f	8.134	119705	169749	0.581	0.551	
9)	trans-Chl...	7.453	8.262f	149190	200771	0.708	0.644	
10)	cis-Chlor...	7.511f	8.413f	206853	209041	1.011	0.705	
11)	Endosulfa...	7.638	8.446	256038	256404	1.321	0.923	
12)	4,4'-DDE	7.561f	8.477	173165	286308	0.840	1.016	
13)	Dieldrin	7.805	8.659	382017	334326	1.774	1.082	
14)	Endrin	7.945f	8.865	355839	682951	2.057	2.907	#
15)	4,4'-DDD	8.033	8.918	355791	411161	2.061	1.673	
16)	Endosulfa...	8.117	9.006	864754	1076876	5.068	4.408	
17)	4,4'-DDT	8.196	9.138	722209	438860	4.360	2.103	#
18)	Endrin Al...	8.404	9.250	588881	985020	3.846	4.405	
19)	Endosulfa...	8.722	9.454	326495	429108	2.040	1.936	
20)	Methoxychlor	8.586f	9.634	655616	1071997	7.570	9.036	
21)	Endrin Ke...	8.907	9.875f	225853	208324	1.183	0.832	
23)	Hexachlor...	3.227f	0.000	10049	0	0.050	N.D.	#
24)	Hexachlor...	0.000	6.609	0	11407	N.D.	0.036	#
25)	Oxychlordane	7.273	8.084	177787	150553	0.816	0.538	
26)	2,4'-DDE	7.366f	8.262	119705	200771	0.839	0.953	
27)	trans-Non...	7.511	8.356	206853	209284	0.887	0.681	
28)	2,4'-DDD	7.723	8.659	287006	334326	2.256	1.813	
29)	2,4'-DDT	7.909	8.865	470166	682951	3.210	3.585	
30)	cis-Nonac...	7.994	8.918	540540	411161	2.293	1.205	#
31)	Mirex	8.653	9.875f	851655	208324	6.073	0.937	#
32)	Chlordane...	7.453	8.262	149190	200771	6.359	5.162	
33)	Chlordane...	7.511	8.413f	206853	209041	7.177	6.513	
34)	Chlordane...	8.057f	9.073	383346	1691190	50.390	159.280	#
35)	Chlordane...	3.811	0.000	469257	0	NoCal	N.D.	
36)	Toxaphene...	7.511	8.619	206853	527041	196.400	194.889	
37)	Toxaphene...	7.805	8.968	382017	671993	196.444	192.960	
38)	Toxaphene...	8.117	9.006	864754	1076876	202.242	203.068	
39)	Toxaphene...	8.358	9.073	791104	1691190	195.816	187.375	✓
40)	Toxaphene...	8.586	9.250	655616	985020	199.410	196.143	
41)	Toxaphene...	8.653	9.634	851655	1071997	196.127	190.945	
42)	Toxaphene...	3.811	0.000	469257	0	NoCal	N.D.	

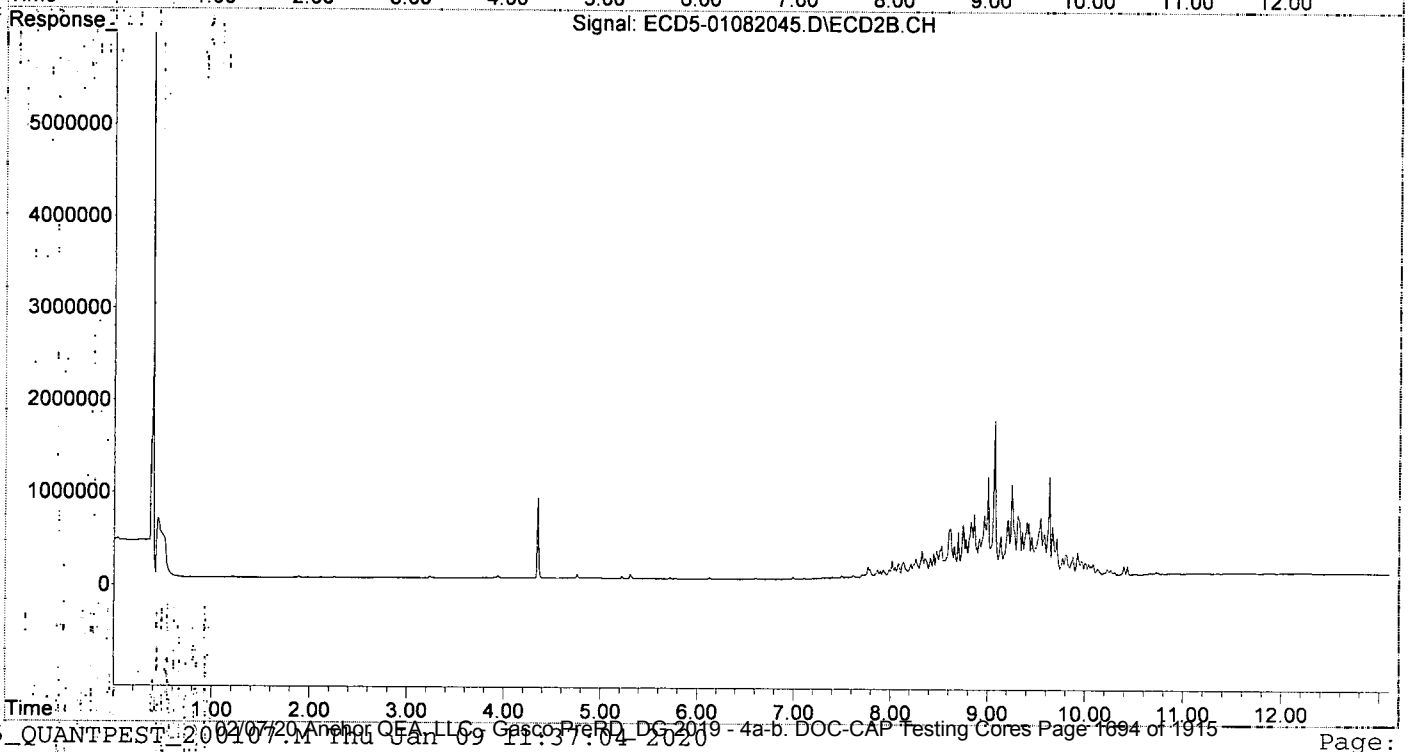
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 0:32
Operator : MJB
Sample : 0A08041-CALT
Misc : A19J419, TOX 200 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: Jan 09 11:34:29 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 0:50
Operator : MJB
Sample : 0A08041-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 40 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 11:34:42 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

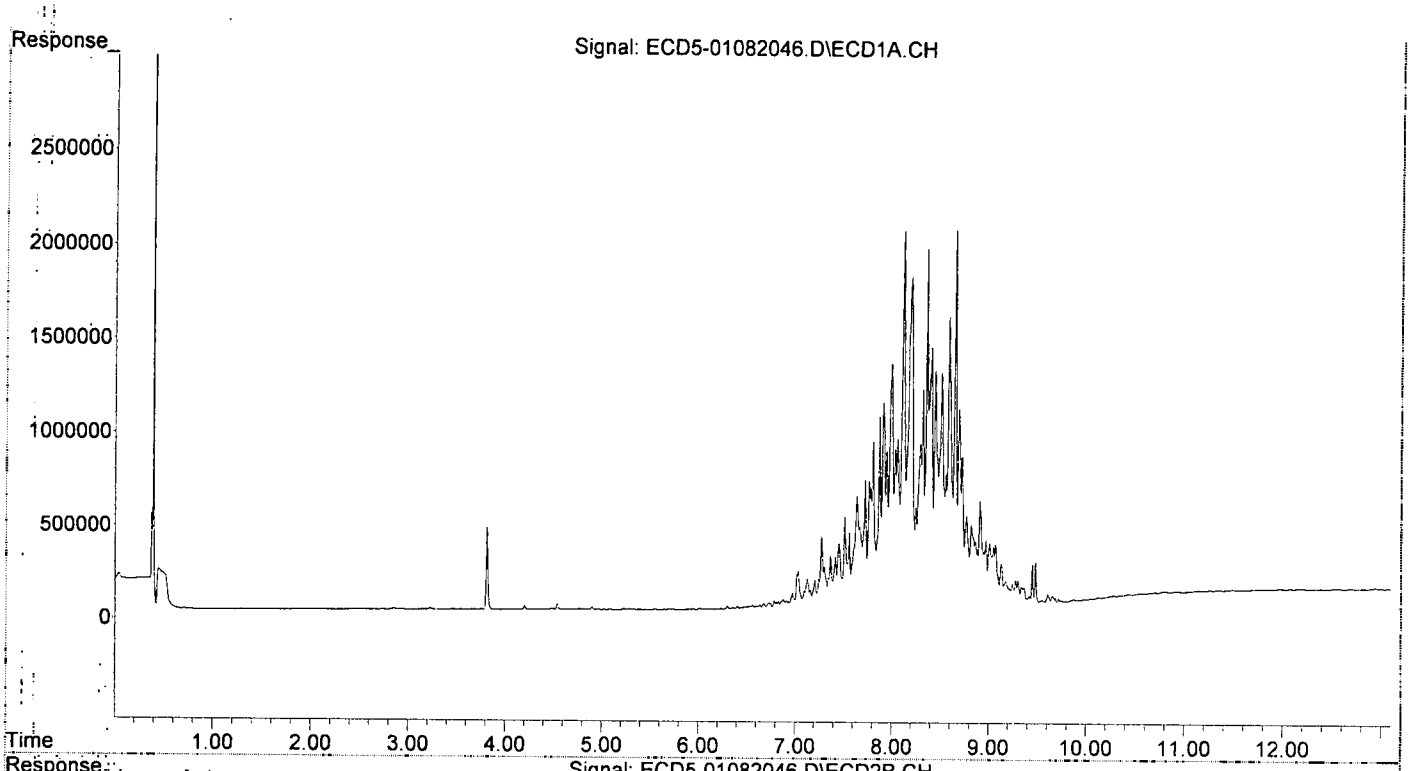
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	0.000	6.129	0	7804	N.D.	0.026	#
22)	S DCBP (S)	9.606	10.721f	44055	55400	0.139	0.311	#
	Target Compounds							
2)	a-BHC	5.946	6.735	6193	6032	0.024	0.015	
3)	g-BHC	6.236	7.046	2957	14791	0.013	0.041	#
4)	b-BHC	6.300	7.108	16971	20876	0.006	0.130	#
5)	Heptachlor	6.639	7.437	16984	32563	0.075	0.092	
6)	d-BHC	6.439	7.373	7193	24755	0.033	0.131	#
7)	Aldrin	6.880	7.727f	45255	91537	0.205	0.275	
8)	Heptachlo...	7.367f	8.135	271381	400897	1.316	1.301	
9)	trans-Chl...	7.453	8.262f	338887	469423	1.608	1.505	
10)	cis-Chlor...	7.511f	8.413f	479175	489431	2.342	1.650	
11)	Endosulfa...	7.639	8.446	593579	597367	3.063	2.150	
12)	4,4'-DDE	7.561f	8.477	393792	654626	1.910	2.278	
13)	Dieldrin	7.805	8.659	883414	789058	4.102	2.554	
14)	Endrin	7.944f	8.865	832925	1611975	4.814	6.860	#
15)	4,4'-DDD	8.033	8.917	839321	1005541	4.861	4.091	
16)	Endosulfa...	8.117	9.006	1995985	2635386	11.699	10.788	
17)	4,4'-DDT	8.196	9.138	1749906	1090152	10.563	5.068	#
18)	Endrin Al...	8.404	9.249	1392184	2386520	9.093	10.673	
19)	Endosulfa...	8.723	9.453	792604	1091537	4.953	4.924	
20)	Methoxychlor	8.556	9.634	694113	2631287	8.014	22.178	#
21)	Endrin Ke...	8.908	9.875	544417	538507	2.851	2.150	
23)	Hexachlor...	3.226f	0.000	8479	0	0.043	N.D.	#
24)	Hexachlor...	0.000	6.611	0	10085	N.D.	0.032	#
25)	Oxychlordane	7.274	8.084	380573	355581	1.979	1.271	
26)	2,4'-DDE	7.367f	8.262	271381	469423	1.903	2.229	
27)	trans-Non...	7.511	8.357	479175	487144	2.260	1.584	
28)	2,4'-DDD	7.723	8.659	674807	789058	5.304	4.278	
29)	2,4'-DDT	7.909	8.865	1092106	1611975	7.456	8.526	
30)	cis-Nonac...	7.994	8.917	1307739	1005541	5.548	2.948	#
31)	Mirex	8.653	9.875f	1981771	538507	14.478	2.843	#
32)	Chlordane...	7.453	8.262	338887	469423	14.444	12.068	
33)	Chlordane...	7.511	8.413f	479175	489431	16.626	15.248	
34)	Chlordane...	8.057f	9.072	896286	4280691	117.815	403.164	#
35)	Chlordane...	3.810	0.000	441054	0	NoCal	N.D.	
36)	Toxaphene...	7.511	8.619	479175	1253802	454.961	463.631	
37)	Toxaphene...	7.805	8.969	883414	1627963	454.276	467.462	
38)	Toxaphene...	8.117	9.006	1995985	2635386	470.554	490.821	
39)	Toxaphene...	8.358	9.072	1900476	4280691	470.411	474.279	
40)	Toxaphene...	8.586	9.249	1539706	2386520	468.312	475.218	
41)	Toxaphene...	8.653	9.634	1981771	2631287	456.381	468.687	
42)	Toxaphene...	3.810	0.000	441054	0	NoCal	N.D.	

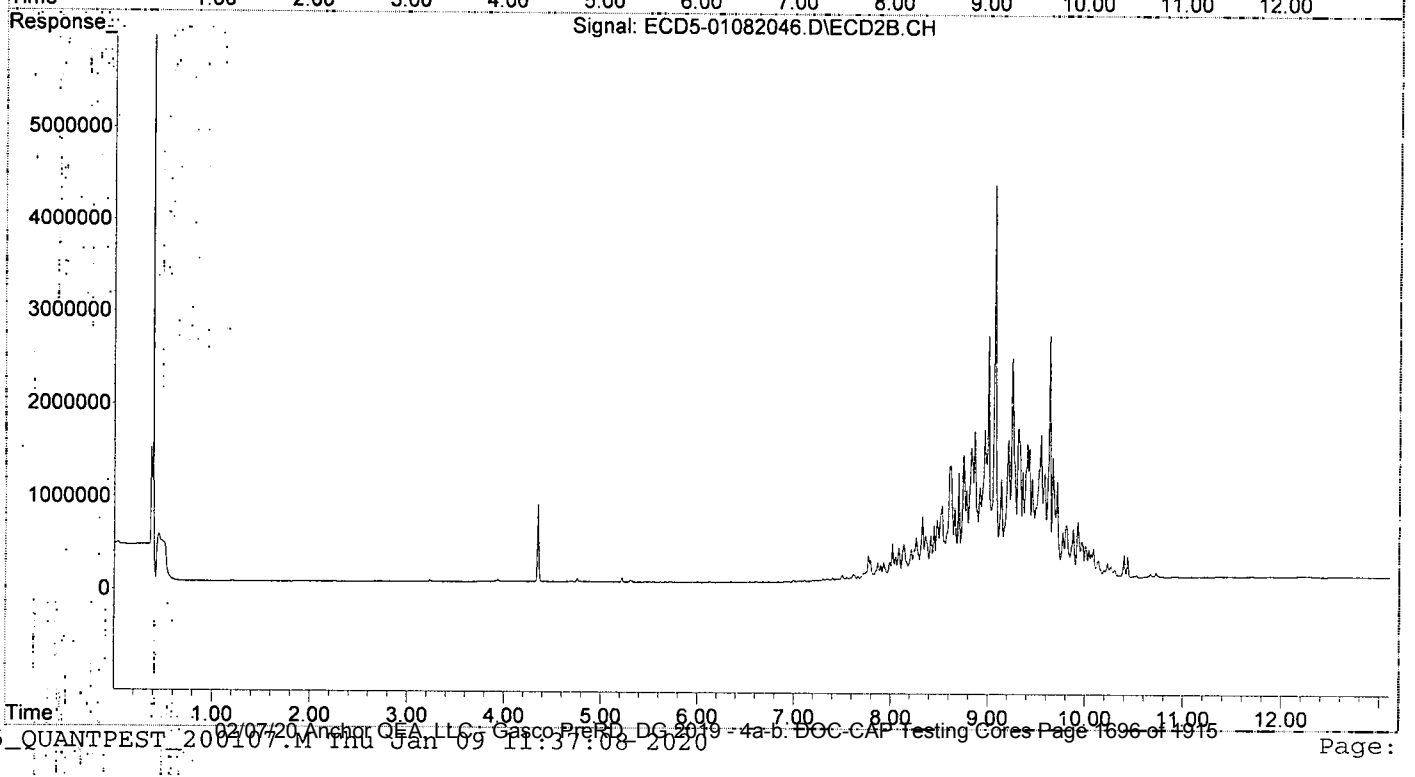
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 0:50
Operator : MJB
Sample : 0A08041-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 40 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 11:34:42 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 1:07
Operator : MJB
Sample : 0A08041-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 11:34:54 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

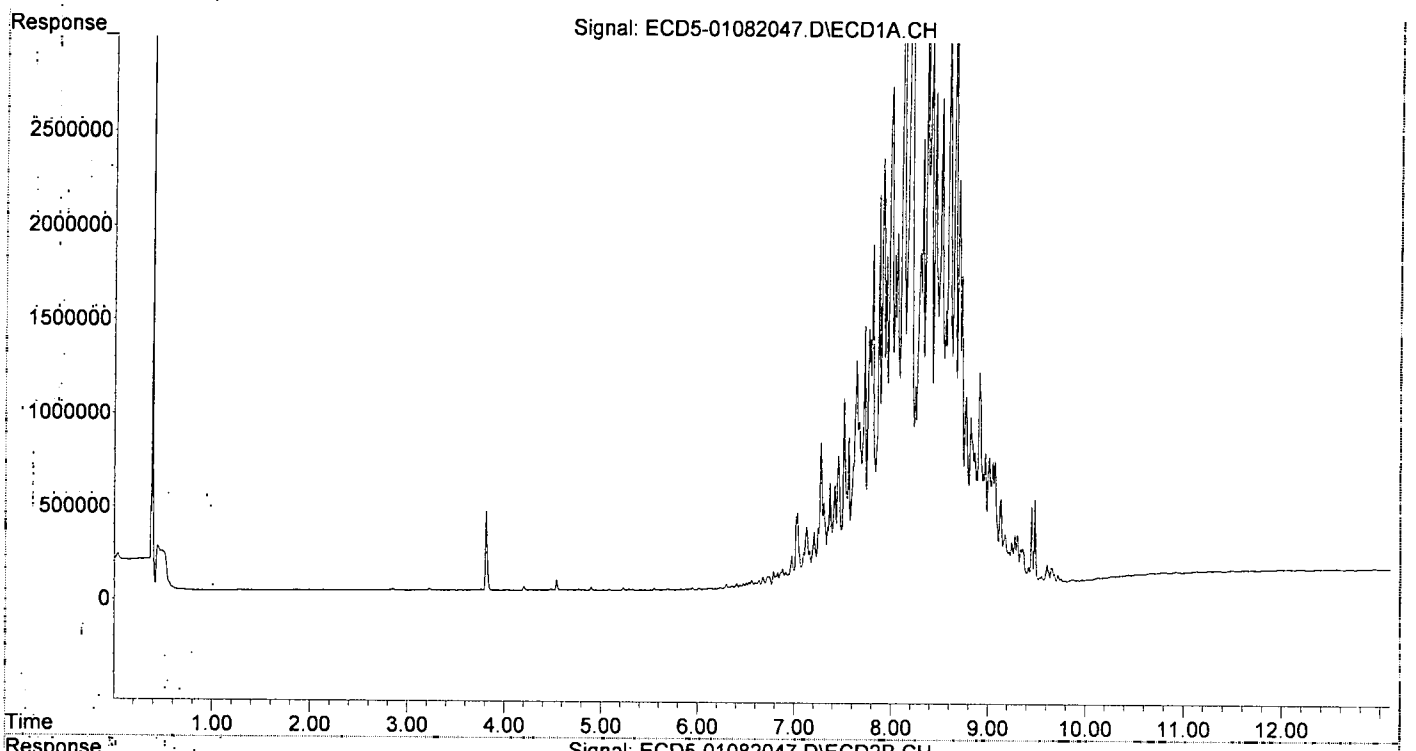
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.126	0	13047	N.D.	0.044	#
22)	S	DCBP (S)	9.606	10.722f	95692	121145	0.484	0.681	#
		Target Compounds							
2)		a-BHC	5.944	6.734	11109	14015	0.042	0.034	
3)		g-BHC	6.236	7.045	9004	40492	0.039	0.111	#
4)		b-BHC	6.298	7.107	25729	49440	0.095	0.307	#
5)		Heptachlor	6.637	7.436	42305	81211	0.186	0.229	
6)		d-BHC	6.438	7.372	22094	66016	0.101	0.254	#
7)		Aldrin	6.879	7.727f	103392	193690	0.469	0.582	
8)		Heptachlo...	7.367f	8.134	557310	830095	2.703	2.695	
9)		trans-Chl...	7.454	8.261f	707627	1011385	3.358	3.243	
10)		cis-Chlor...	7.511f	8.412f	998436	1028397	4.879	3.467	
11)		Endosulfa...	7.638	8.445	1217140	1264131	6.280	4.549	
12)		4,4'-DDE	7.560f	8.475	802655	1377731	3.893	4.743	
13)		Dieldrin	7.804	8.658	1834370	1616816	8.517	5.234	
14)		Endrin	7.992f	8.864	2666080	3528992	15.409	15.019	
15)		4,4'-DDD	8.032	8.918	1772227	2155338	10.265	8.768	
16)		Endosulfa...	8.116	9.006	4209954	5617496	24.675	22.994	
17)		4,4'-DDT	8.197	9.137	3669550	2330535	22.151	10.634	#
18)		Endrin Al...	8.404	9.249	2941624	5120001	19.212	22.898	
19)		Endosulfa...	8.722	9.453	1652825	2284792	10.328	10.307	
20)		Methoxychlor	8.556	9.634	1470218	5832985	16.975	49.165	#
21)		Endrin Ke...	8.907	9.875f	1124761	1183656	5.890	4.726	
23)		Hexachlor...	3.225f	0.000	9925	0	0.050	N.D.	#
24)		Hexachlor...	0.000	6.610	0	13117	N.D.	0.041	#
25)		Oxychlordane	7.273	8.083	779241	764569	4.265	2.734	
26)		2,4'-DDE	7.367f	8.261	557310	1011385	3.908	4.803	
27)		trans-Non...	7.511	8.356	998436	1030447	4.878	3.351	
28)		2,4'-DDD	7.722	8.658	1400046	1616816	11.004	8.766	
29)		2,4'-DDT	7.908	8.864	2261371	3528992	15.438	18.452	
30)		cis-Nonac...	7.992	8.918	2666080	2155338	11.312	6.318	#
31)		Mirex	8.652	9.875f	4202272	1183656	31.054	6.544	#
32)		Chlordane...	7.454	8.261f	707627	1011385	30.161	26.002	
33)		Chlordane...	7.511	8.412f	998436	1028397	34.643	32.039	
34)		Chlordane...	8.056f	9.073	1893624	9024517	248.912	849.948	#
35)		Chlordane...	3.810	0.000	422216	0	NoCal	N.D.	
36)		Toxaphene...	7.511	8.618	998436	2637347	947.982	975.239	
37)		Toxaphene...	7.804	8.968	1834370	3517411	943.284	1010.008	
38)		Toxaphene...	8.116	9.006	4209954	5617496	990.266	1008.062	
39)		Toxaphene...	8.358	9.073	3974783	9024517	983.848	999.872	
40)		Toxaphene...	8.586	9.249	3276318	5120001	996.514	1019.524	
41)		Toxaphene...	8.652	9.634	4202272	5832985	967.739	1038.976	
42)		Toxaphene...	3.810	0.000	422216	0	NoCal	N.D.	

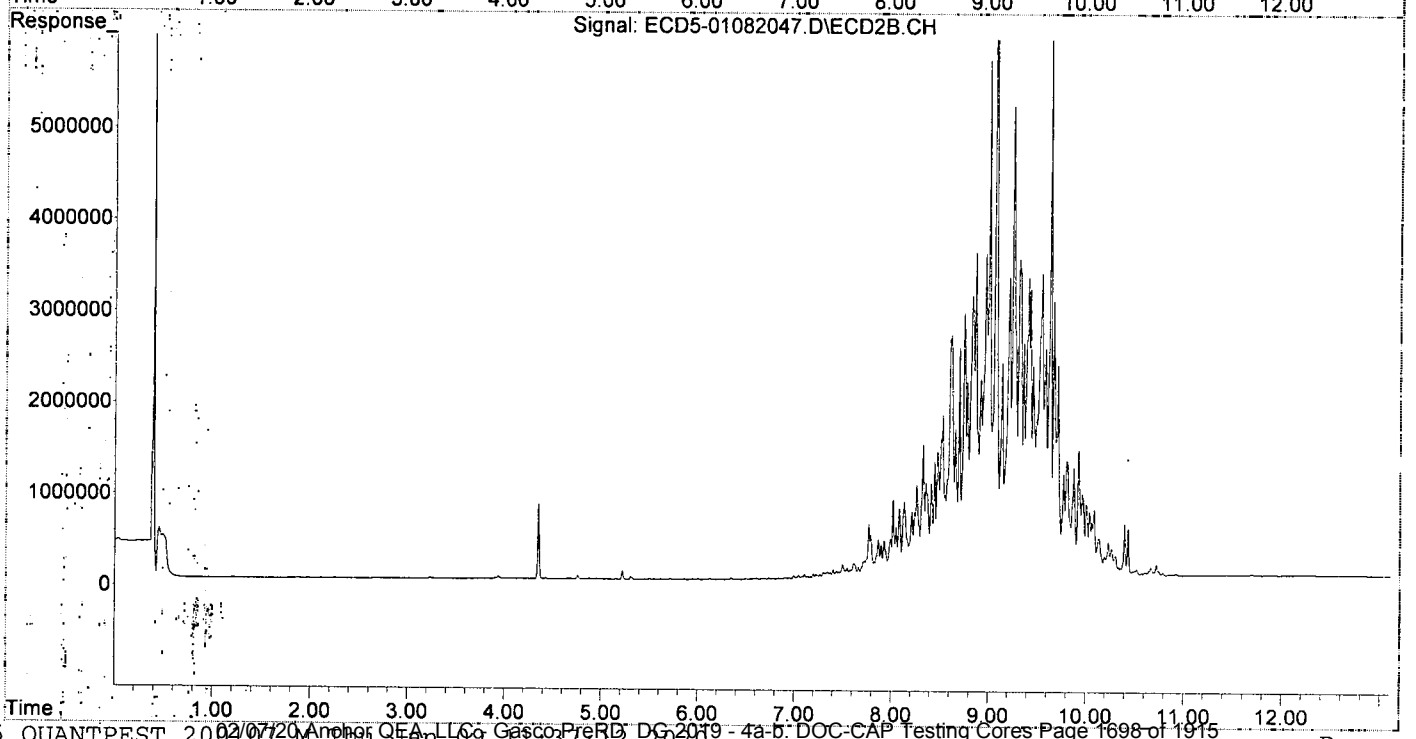
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 1:07
Operator : MJB
Sample : 0A08041-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 11:34:54 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 1:24
Operator : MJB
Sample : 0A08041-CALW
Misc : A19J416, TOX 2000 ppb
ALS Vial : 42 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 11:35:07 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

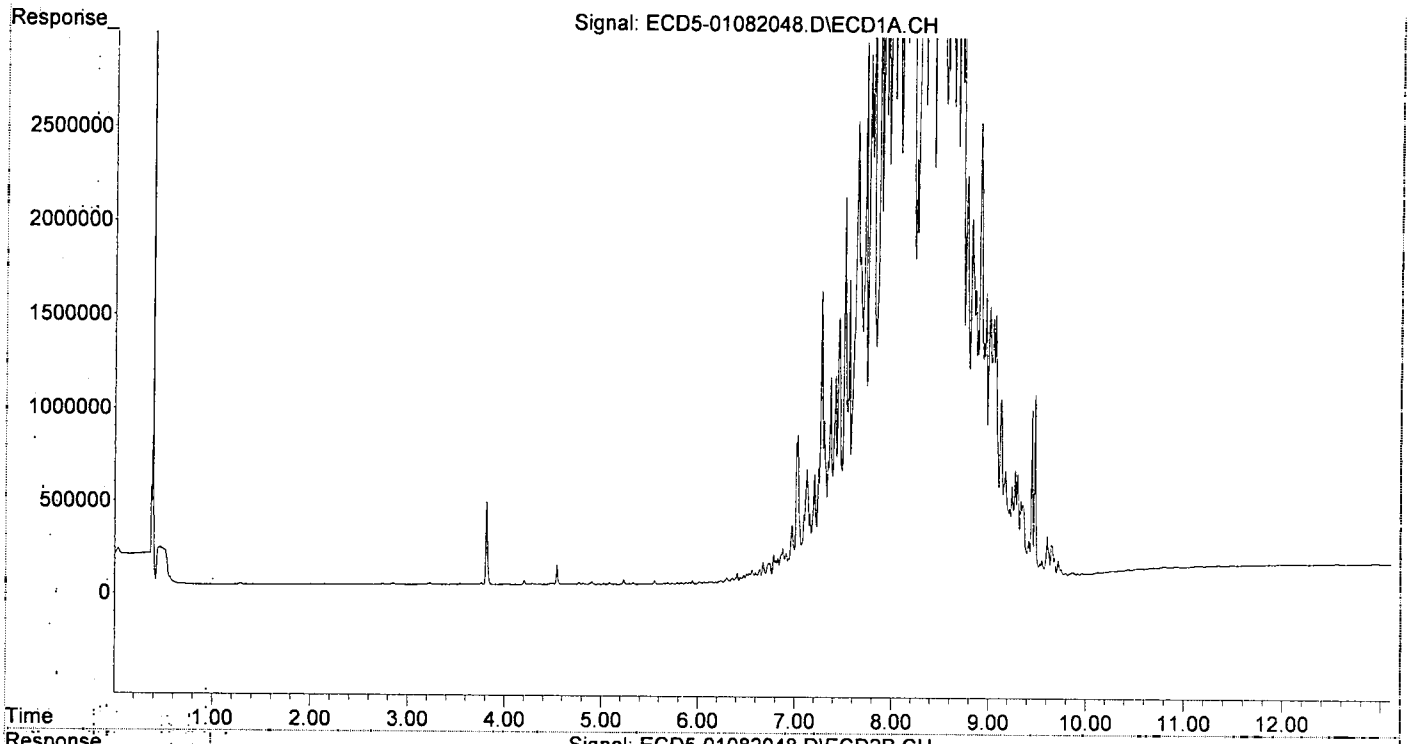
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.122	0	8337	N.D.	0.028	#
22)	S	DCBP (S)	9.604	10.720f	210895	271602	1.254	1.526	
		Target Compounds							
2)		a-BHC	5.942	6.733	18262	25451	0.069	0.062	
3)		g-BHC	6.233	7.044	13706	57200	0.059	0.157	#
4)		b-BHC	6.295	7.107	30266	89465	0.141	0.556	#
5)		Heptachlor	6.638	7.435	69077	134683	0.304	0.380	
6)		d-BHC	6.437	7.371	30544	100930	0.140	0.358	#
7)		Aldrin	6.877	7.726f	178785	356770	0.810	1.071	
8)		Heptachlo...	7.365f	8.133	1094958	1648597	5.311	5.352	
9)		trans-Chl...	7.451	8.261f	1414627	2017677	6.713	6.470	
10)		cis-Chlor...	7.558f	8.411	1611078	2099671	7.873	7.078	
11)		Endosulfa...	7.636	8.444	2462674	2550745	12.707	9.179	
12)		4,4'-DDE	7.558f	8.474	1611078	2822174	7.814	9.623	
13)		Dieldrin	7.803	8.658	3726169	3299618	17.301	10.681	
14)		Endrin	7.991f	8.863	5584779	7569912	32.279	32.217	
15)		4,4'-DDD	8.031	8.917	3635045	4516982	21.054	18.376	
16)		Endosulfa...	8.115	9.005	8745207	11973110	51.256	49.010	
17)		4,4'-DDT	8.195f	9.136	7437975	5062502	44.899	22.541	#
18)		Endrin Al...	8.402	9.249	6078340	11218014	39.699	50.169	
19)		Endosulfa...	8.721	9.453	3549340	5027515	22.178	22.680	
20)		Methoxychlor	8.555	9.633	3078150	12652600	35.541	106.645	#
21)		Endrin Ke...	8.906	9.874	2424035	2592440	12.693	10.352	
23)		Hexachlor...	3.226f	3.814	8179	7869	0.041	0.020	#
24)		Hexachlor...	5.785	6.596	8236	22464	BelowCal	0.070	
25)		Oxychlordane	7.271	8.082	1549062	1430330	8.675	5.114	#
26)		2,4'-DDE	7.365f	8.261	1094958	2017677	7.679	9.581	
27)		trans-Non...	7.509	8.355	2042518	2068875	10.138	6.728	
28)		2,4'-DDD	7.721	8.658	2872671	3299618	22.578	17.890	
29)		2,4'-DDT	7.907	8.863	4627961	7569912	31.595	38.324	
30)		cis-Nonac...	7.991	8.917	5584779	4516982	23.695	13.241	#
31)		Mirex	8.651	9.874f	8969660	2592440	66.924	14.525	#
32)		Chlordane...	7.451	8.261f	1414627	2017677	60.295	51.872	
33)		Chlordane...	7.509f	8.411f	2042518	2099671	70.870	65.415	
34)		Chlordane...	8.055f	9.072	3914408	20090728	514.540	1892.187	#
35)		Chlordane...	3.810	3.814	450030	7869	NoCal	NoCal	
36)		Toxaphene...	7.509	8.617	2042518	5518631	1939.304	2040.682	
37)		Toxaphene...	7.803	8.967	3726169	7483834	1916.099	2148.947	
38)		Toxaphene...	8.115	9.005	8745207	11973110	2033.552	1998.126	
39)		Toxaphene...	8.356	9.072	8089085	20090728	2002.230	2225.953	
40)		Toxaphene...	8.585	9.249	6836043	11218014	2079.229	2233.795	
41)		Toxaphene...	8.651	9.633	8969660	12652600	2065.619	2253.691	
42)		Toxaphene...	3.810	3.814	450030	7869	NoCal	NoCal	

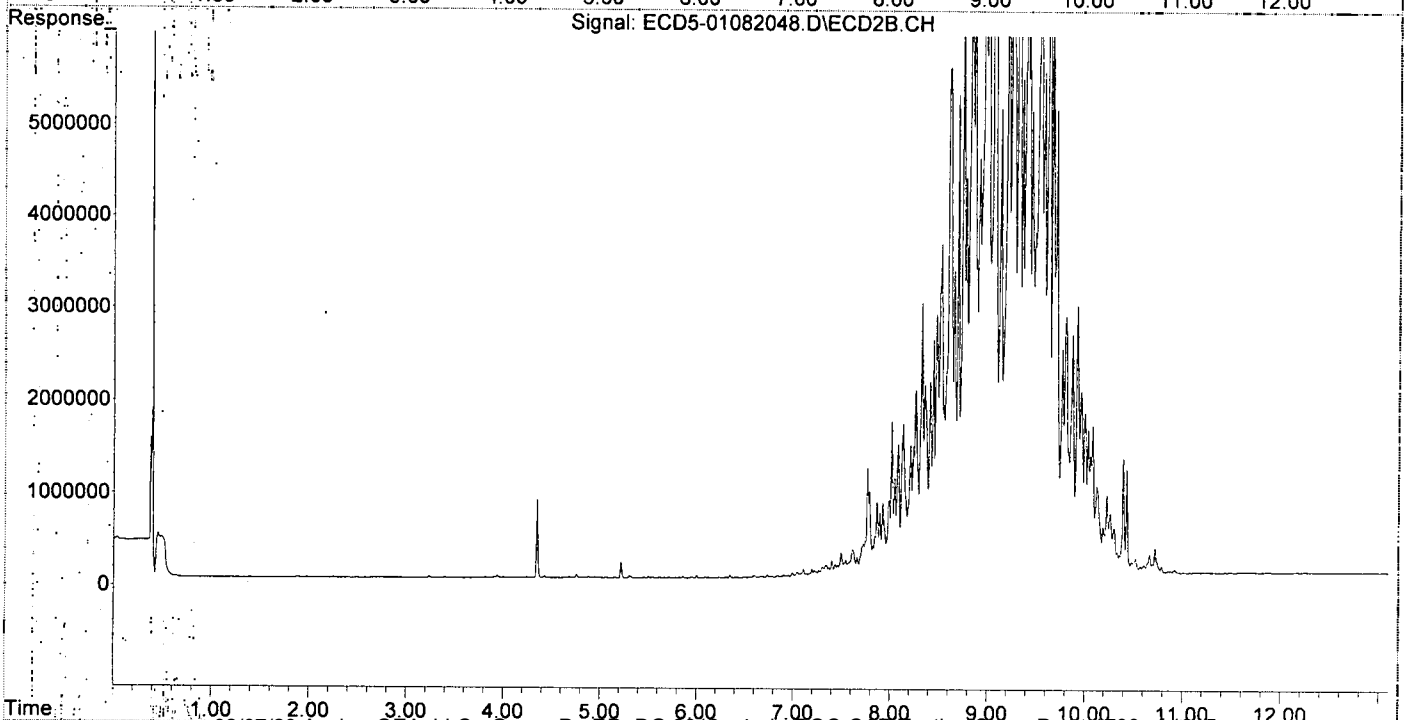
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2020-01\0A08041\REQUANT\
Data File : ECD5-01082048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 1:24
Operator : MJB
Sample : 0A08041-CALW
Misc : A19J416, TOX 2000 ppb
ALS Vial : 42 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 11:35:07 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:11:29 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Sequence Name: C:\msdchem\4\sequence\0A08041.s
Comment: Pesticides
Operator: MJB
Data Path: C:\MSDCHEM\4\DATA\2020-01\0A08041\
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		ECD5-01082001
	Method		ECD5_AQUPEST_160111
2)	Sample	1	Hexane
	Datafile		ECD5-01082002
	Method		ECD5_AQUPEST_160111
3)	Sample	2	0A08041-BKD1
	Datafile		ECD5-01082003
	Method		ECD5_AQUPEST_160111
4)	Sample	3	0A08041-CCV1
	Datafile		ECD5-01082004
	Method		ECD5_AQUPEST_160111
5)	Sample	1	Hexane
	Datafile		ECD5-01082005
	Method		ECD5_AQUPEST_160111
6)	Sample	1	Hexane
	Datafile		ECD5-01082006
	Method		ECD5_AQUPEST_160111
7)	Sample	2	0A08041-BKD2
	Datafile		ECD5-01082007
	Method		ECD5_AQUPEST_160111
8)	Sample	3	0A08041-CCV2
	Datafile		ECD5-01082008
	Method		ECD5_AQUPEST_160111
9)	Sample	4	0A08041-CCV3
	Datafile		ECD5-01082009
	Method		ECD5_AQUPEST_160111
10)	Sample	7	0A08041-ICB1
	Datafile		ECD5-01082010
	Method		ECD5_AQUPEST_160111
11)	Sample	8	0A08041-CAL1
	Datafile		ECD5-01082011
	Method		ECD5_AQUPEST_160111
12)	Sample	9	0A08041-CAL2
	Datafile		ECD5-01082012
	Method		ECD5_AQUPEST_160111
13)	Sample	10	0A08041-CAL3
	Datafile		ECD5-01082013
	Method		ECD5_AQUPEST_160111
14)	Sample	11	0A08041-CAL4
	Datafile		ECD5-01082014
	Method		ECD5_AQUPEST_160111
15)	Sample	12	0A08041-CAL5
	Datafile		ECD5-01082015
	Method		ECD5_AQUPEST_160111
16)	Sample	13	0A08041-CAL6
	Datafile		ECD5-01082016
	Method		ECD5_AQUPEST_160111
17)	Sample	14	0A08041-CAL7
	Datafile		ECD5-01082017
	Method		ECD5_AQUPEST_160111
18)	Sample	15	0A08041-CAL8
	Datafile		ECD5-01082018
	Method		ECD5_AQUPEST_160111
19)	Sample	16	0A08041-CAL9
	Datafile		ECD5-01082019
	Method		ECD5_AQUPEST_160111
20)	Sample	1	0A08041-IBL1

Not Entered. CCV failed.

Replaced guard column. MJB 1/9/20

Not Entered.

Datafile		ECD5-01082020
Method		ECD5_AQUPEST_160111
21) Sample	17	0A08041-ICV1
Datafile		ECD5-01082021
Method		ECD5_AQUPEST_160111
22) Sample	18	0A08041-CALA
Datafile		ECD5-01082022
Method		ECD5_AQUPEST_160111
23) Sample	19	0A08041-CALB
Datafile		ECD5-01082023
Method		ECD5_AQUPEST_160111
24) Sample	20	0A08041-CALC
Datafile		ECD5-01082024
Method		ECD5_AQUPEST_160111
25) Sample	21	0A08041-CALD
Datafile		ECD5-01082025
Method		ECD5_AQUPEST_160111
26) Sample	22	0A08041-CALE
Datafile		ECD5-01082026
Method		ECD5_AQUPEST_160111
27) Sample	23	0A08041-CALF
Datafile		ECD5-01082027
Method		ECD5_AQUPEST_160111
28) Sample	24	0A08041-CALG
Datafile		ECD5-01082028
Method		ECD5_AQUPEST_160111
29) Sample	25	0A08041-CALH
Datafile		ECD5-01082029
Method		ECD5_AQUPEST_160111
30) Sample	26	0A08041-CALI
Datafile		ECD5-01082030
Method		ECD5_AQUPEST_160111
31) Sample	1	0A08041-IBL2
Datafile		ECD5-01082031
Method		ECD5_AQUPEST_160111
32) Sample	27	0A08041-ICV2
Datafile		ECD5-01082032
Method		ECD5_AQUPEST_160111
33) Sample	28	0A08041-CALJ
Datafile		ECD5-01082033
Method		ECD5_AQUPEST_160111
34) Sample	29	0A08041-CALK
Datafile		ECD5-01082034
Method		ECD5_AQUPEST_160111
35) Sample	30	0A08041-CALL
Datafile		ECD5-01082035
Method		ECD5_AQUPEST_160111
36) Sample	31	0A08041-CALM
Datafile		ECD5-01082036
Method		ECD5_AQUPEST_160111
37) Sample	32	0A08041-CALN
Datafile		ECD5-01082037
Method		ECD5_AQUPEST_160111
38) Sample	33	0A08041-CALO
Datafile		ECD5-01082038
Method		ECD5_AQUPEST_160111
39) Sample	34	0A08041-CALP
Datafile		ECD5-01082039
Method		ECD5_AQUPEST_160111
40) Sample	1	0A08041-IBL3
Datafile		ECD5-01082040
Method		ECD5_AQUPEST_160111
41) Sample	35	0A08041-ICV3
Datafile		ECD5-01082041
Method		ECD5_AQUPEST_160111
42) Sample	36	0A08041-CALQ
Datafile		ECD5-01082042
Method		ECD5_AQUPEST_160111
43) Sample	37	0A08041-CALR
Datafile		ECD5-01082043
Method		ECD5_AQUPEST_160111

Sequence Name: C:\msdchem\4\sequence\0A08041.s

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	38	0A08041-CALS		
	Datafile		ECD5-01082044		
	Method			ECD5_AQUPEST_160111	
45)	Sample	39	0A08041-CALT		
	Datafile		ECD5-01082045		
	Method			ECD5_AQUPEST_160111	
46)	Sample	40	0A08041-CALU		
	Datafile		ECD5-01082046		
	Method			ECD5_AQUPEST_160111	
47)	Sample	41	0A08041-CALV		
	Datafile		ECD5-01082047		
	Method			ECD5_AQUPEST_160111	
48)	Sample	42	0A08041-CALW		
	Datafile		ECD5-01082048		
	Method			ECD5_AQUPEST_160111	
49)	Sample	1	0A08041-IBL4		
	Datafile		ECD5-01082049		
	Method			ECD5_AQUPEST_160111	
50)	Sample	43	0A08041-ICV4		
	Datafile		ECD5-01082050		
	Method			ECD5_AQUPEST_160111	

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0A08041 BKD2
Data File: ECD5-01082007.D

First Column Area Counts		Percent Breakdown	
DDE	694215		
DDD	2585201		
DDT	157269365	**2.04**	**PASS**
Endrin	86077062	**4.85**	**PASS**
Endrin Aldehyde	1367276		
Endrin Ketone	3024431		

Second Column Area Counts		Percent Breakdown	
DDE	1173559		
DDD	6068732		
DDT	223202763	**3.14**	**PASS**
Endrin	118030441	**5.35**	**PASS**
Endrin Aldehyde	2741749		
Endrin Ketone	3932905		

Breakdown must be less than 15% to accept sample data.

HR 1/6/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2020-01\0A08041\
Data File : ECD5-01082007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 13:35
Operator : MJB
Sample : 0A08041-BKD2
Misc : A20A019
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: Jan 08 17:07:19 2020
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_200107.M
Quant Title : Pesticides
QLast Update : Wed Jan 08 14:21:31 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	7.600	694215	NoCal	ng/mL
2)	Endrin	7.973	86077062	NoCal	ng/mL
3)	4,4'-DDD	8.021	2585201	NoCal	ng/mL
4)	4,4'-DDT	8.220	157269365	NoCal	ng/mL
5)	Endrin Aldehyde	8.420	1367276	NoCal	ng/mL
6)	Endrin Ketone	8.917	3024431	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.497	1173559	NoCal	ng/mL
9)	Endrin [2C]	8.879	118030441	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.914	6068732	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.263	2741749	NoCal	ng/mL
12)	4,4'-DDT [2C]	9.143	223202763	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.859	3932905	NoCal	ng/mL

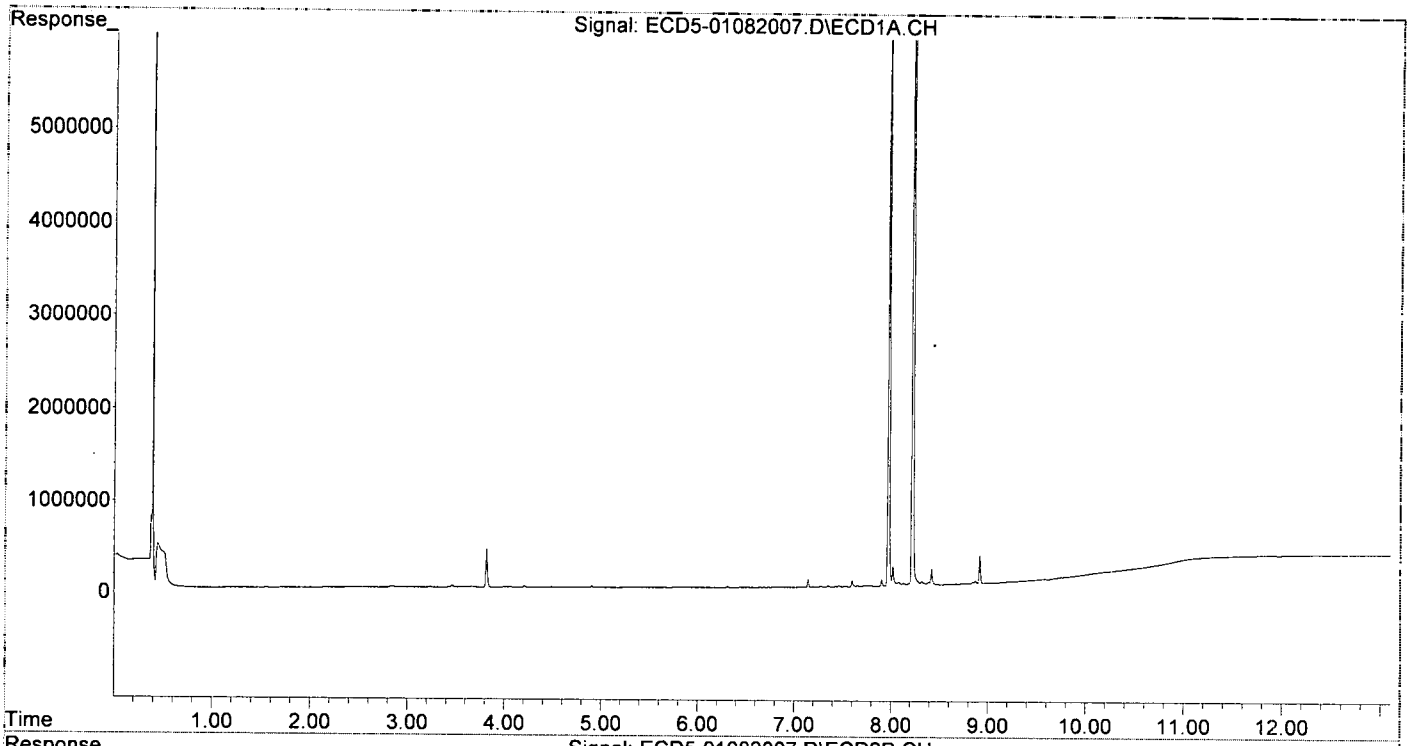
(f)=RT Delta > 1/2 Window (m)=manual int.

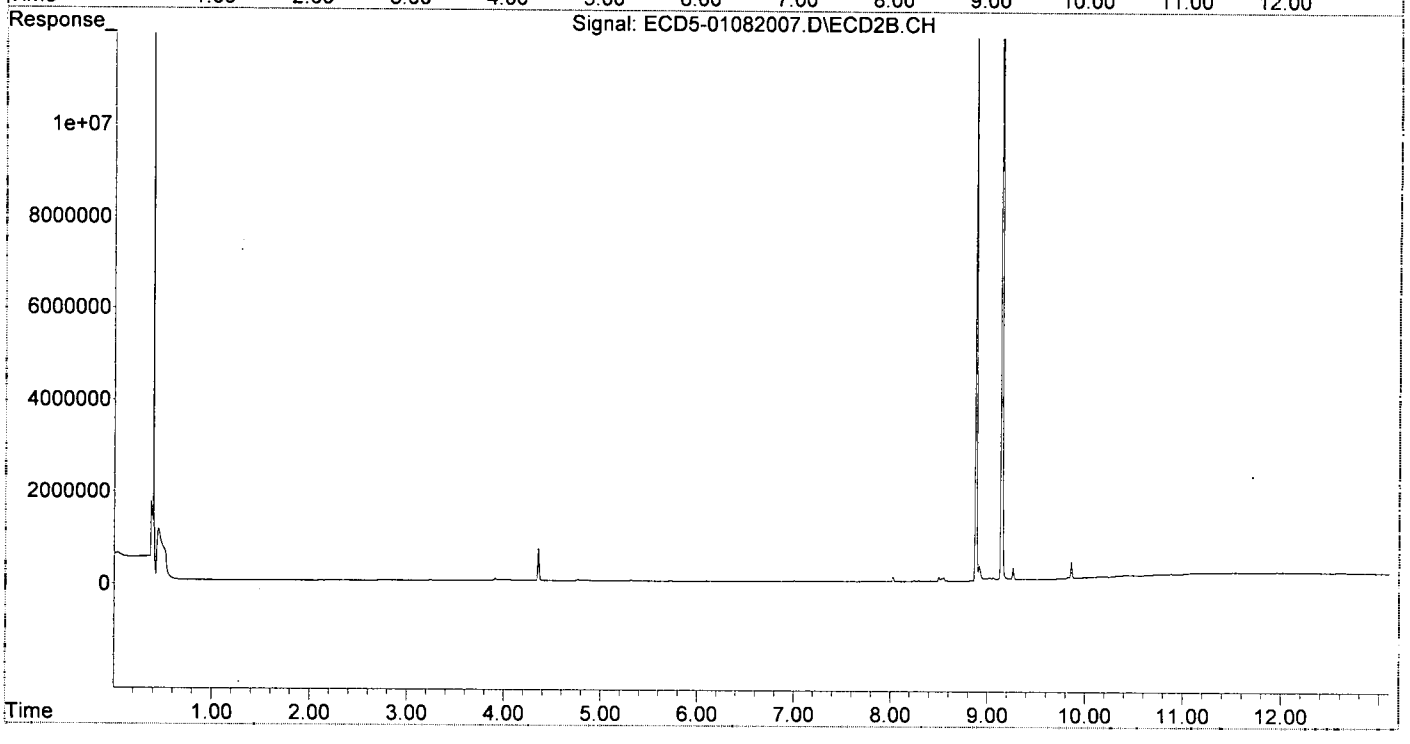
MJB 1/8/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2020-01\0A08041\
Data File : ECD5-01082007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 13:35
Operator : MJB
Sample : 0A08041-BKD2
Misc : A20A019
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: Jan 08 17:07:19 2020
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK_200107.M
Quant Title : Pesticides
QLast Update : Wed Jan 08 14:21:31 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:50
Operator : MJB
Sample : 0A08041-CAL1
Misc : A20A094, AB 0.5 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: Jan 08 17:12:57 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/8/20

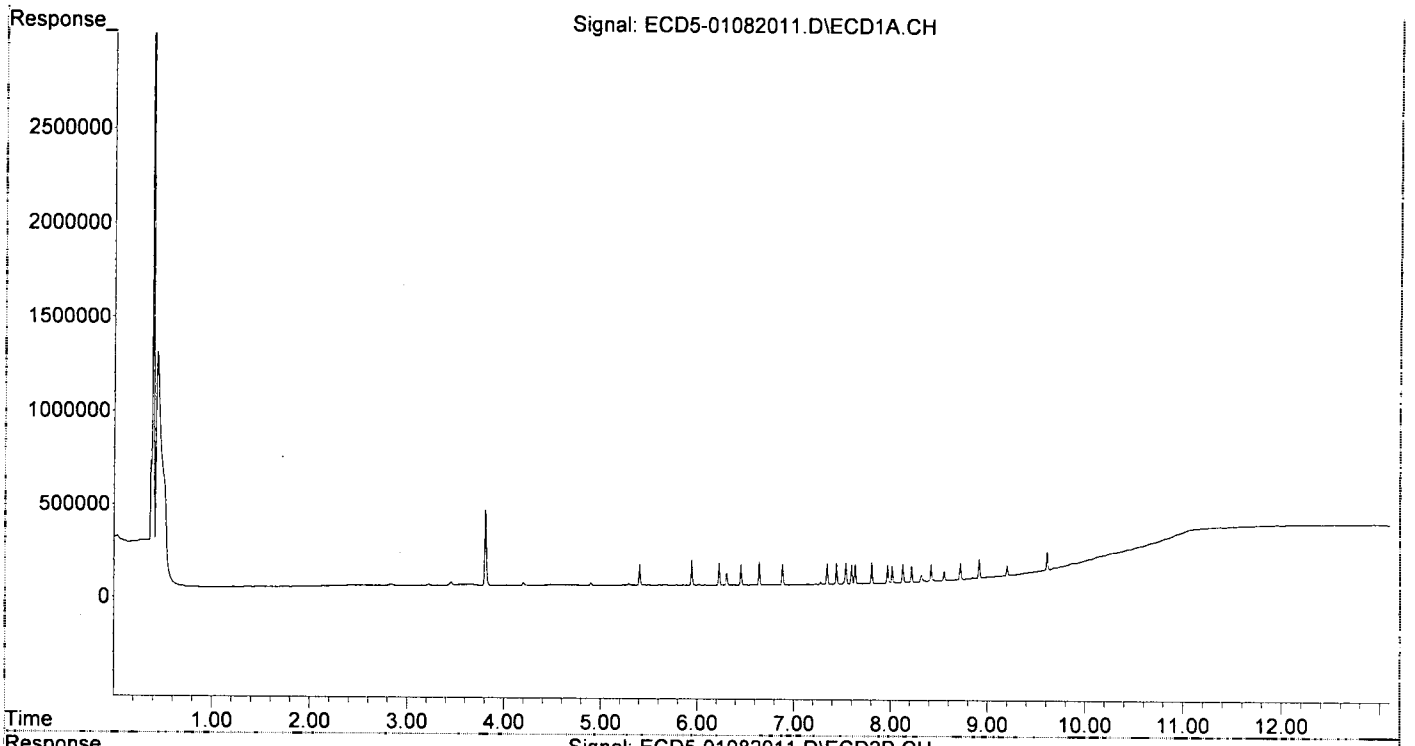
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.402	6.123	112863	158219	0.633	0.533
22) S	DCBP (S)	9.611	10.741	96104	101208	0.512	0.594
	Target Compounds						
2)	a-BHC	5.942	6.731	133246	185876	0.555	0.467
3)	g-BHC	6.225	7.051	120283	175442	0.591	0.518
4)	b-BHC	6.302	7.113	65009	92509	0.917	0.668
5)	Heptachlor	6.640	7.432	122190	183474	0.665	0.613
6)	d-BHC	6.451	7.371	111153	153966	0.773	0.504
7)	Aldrin	6.882	7.702	113031	161218	0.595	0.520
8)	Heptachlo...	7.343	8.141	112198	158898	0.624	0.555
9)	trans-Chl...	7.440	8.282	112737	169582	0.625	0.581
10)	cis-Chlor...	7.537	8.390	112650	150400	0.492	0.536
11)	Endosulfa...	7.633	8.442	104610	140878	0.595	0.536
12)	4,4'-DDE	7.596	8.489	102992	139141	0.670	0.493
13)	Dieldrin	7.805	8.643	111857	147653	0.570	0.497
14)	Endrin	7.970	8.873	93909	120788	0.615	0.540
15)	4,4'-DDD	8.017	8.907	86424	113285	0.549	0.393
16)	Endosulfa...	8.126	9.020	99640	122597	0.652	0.518
17)	4,4'-DDT	8.216	9.137	84911	103096	0.901	0.929
18)	Endrin Al...	8.417	9.257	87242	118008	0.730	0.601
19)	Endosulfa...	8.719	9.449	88205	112283	0.363	0.309
20)	Methoxychlor	8.553	9.615	48528	60619	1.079	0.962
21)	Endrin Ke...	8.913	9.854	99629	120422	0.394	0.374
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

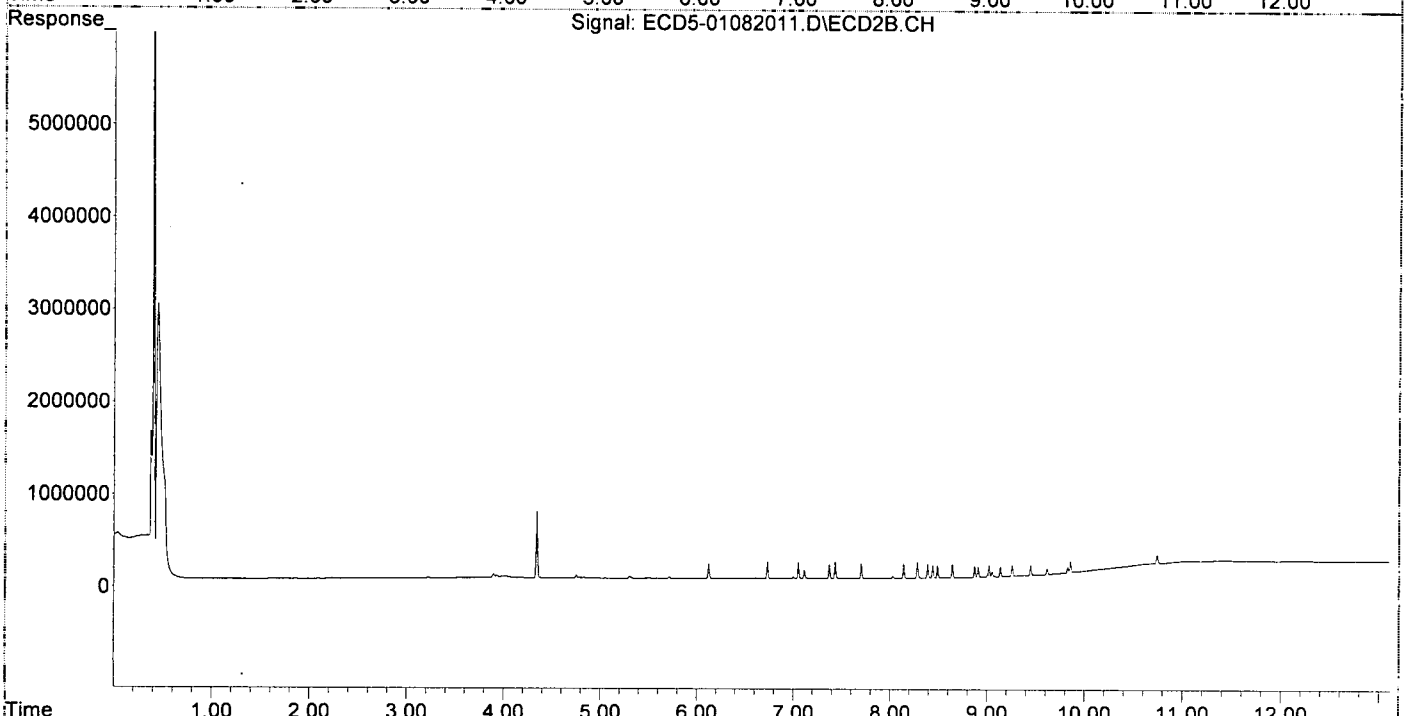
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 14:50
Operator : MJB
Sample : 0A08041-CAL1
Misc : A20A094, AB 0.5 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: Jan 08 17:12:57 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:07
Operator : MJB
Sample : 0A08041-CAL2
Misc : A20A095, AB 1 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: Jan 08 17:13:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/8/20

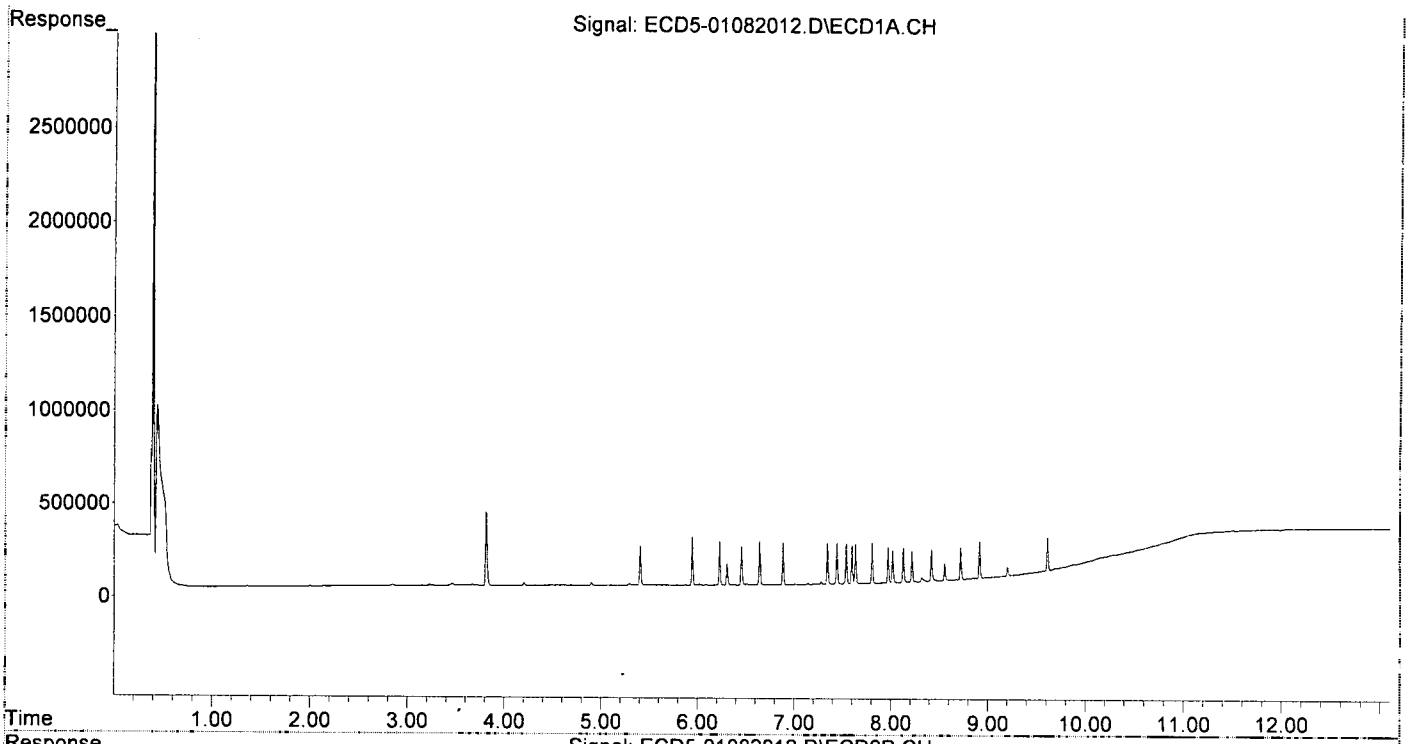
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.404	6.128	211254	311231	1.184	1.048
22) S	DCBP (S)	9.612	10.743	176609	194428	1.121	1.142
	Target Compounds						
2)	a-BHC	5.944	6.735	256973	379209	1.070	0.953
3)	g-BHC	6.227	7.055	234366	343398	1.152	1.014
4)	b-BHC	6.304	7.117	114282	172988	1.612	1.248
5)	Heptachlor	6.642	7.436	233856	337319	1.272	1.127
6)	d-BHC	6.453	7.375	208419	310209	1.478	1.061
7)	Aldrin	6.883	7.705	224047	314514	1.180	1.014
8)	Heptachlo...	7.344	8.144	218282	296140	1.215	1.034
9)	trans-Chl...	7.441	8.285	218441	302694	1.212	1.038
10)	cis-Chlor...	7.538	8.393	212625	292944	1.096	1.044
11)	Endosulfa...	7.634	8.445	208482	271809	1.186	1.034
12)	4,4'-DDE	7.597	8.492	201598	277811	1.312	1.040
13)	Dieldrin	7.806	8.646	218083	291554	1.111	0.982
14)	Endrin	7.971	8.876	188900	230377	1.236	1.087
15)	4,4'-DDD	8.018	8.910	170626	228024	1.254	0.952
16)	Endosulfa...	8.128	9.023	182518	234291	1.195	0.990
17)	4,4'-DDT	8.217	9.139	163203	203174	1.757	1.617
18)	Endrin Al...	8.418	9.260	168637	234689	1.411	1.196
19)	Endosulfa...	8.720	9.451	168846	210935	0.959	0.828
20)	Methoxychlor	8.554	9.618	89885	117569	1.940	1.739
21)	Endrin Ke...	8.914	9.856	194086	227922	0.991	0.893
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

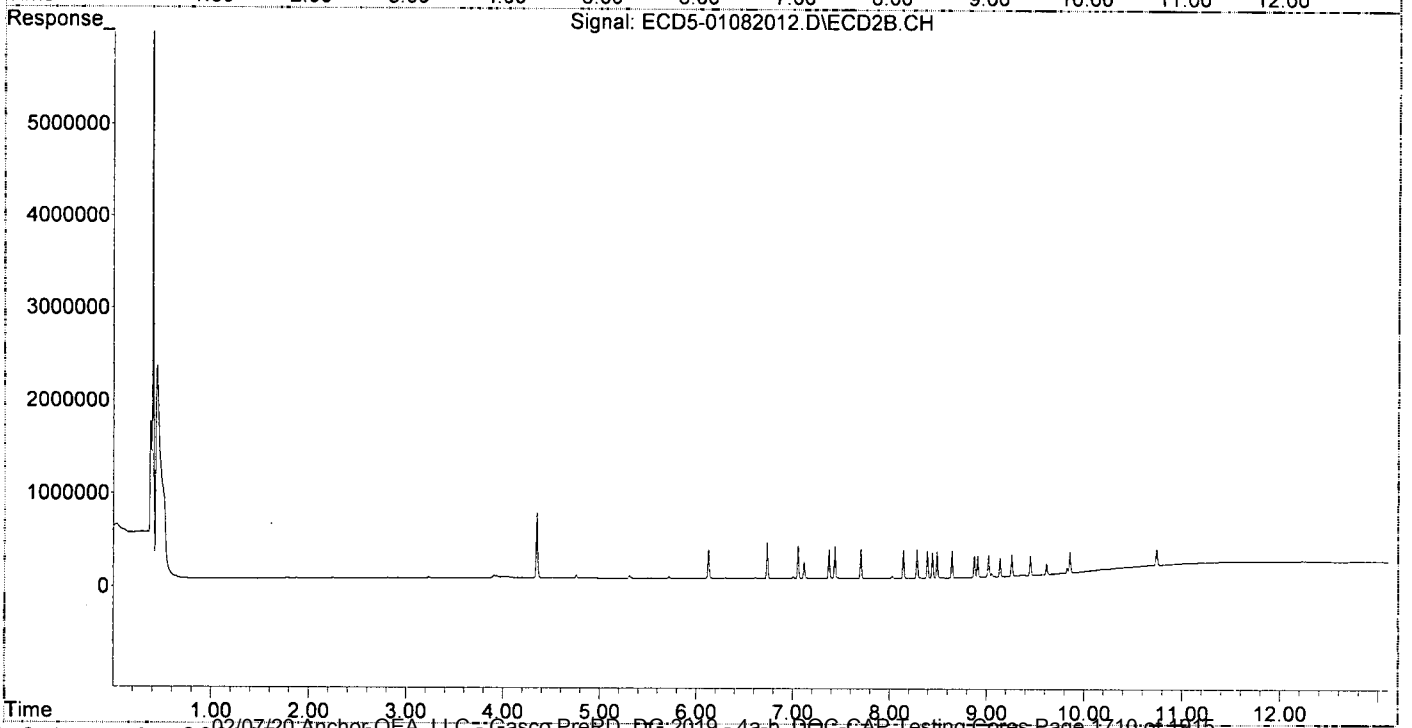
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:07
Operator : MJB
Sample : 0A08041-CAL2
Misc : A20A095, AB 1 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: Jan 08 17:13:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:24
Operator : MJB
Sample : 0A08041-CAL3
Misc : A19K128, AB 2 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: Jan 08 17:14:17 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/8/20

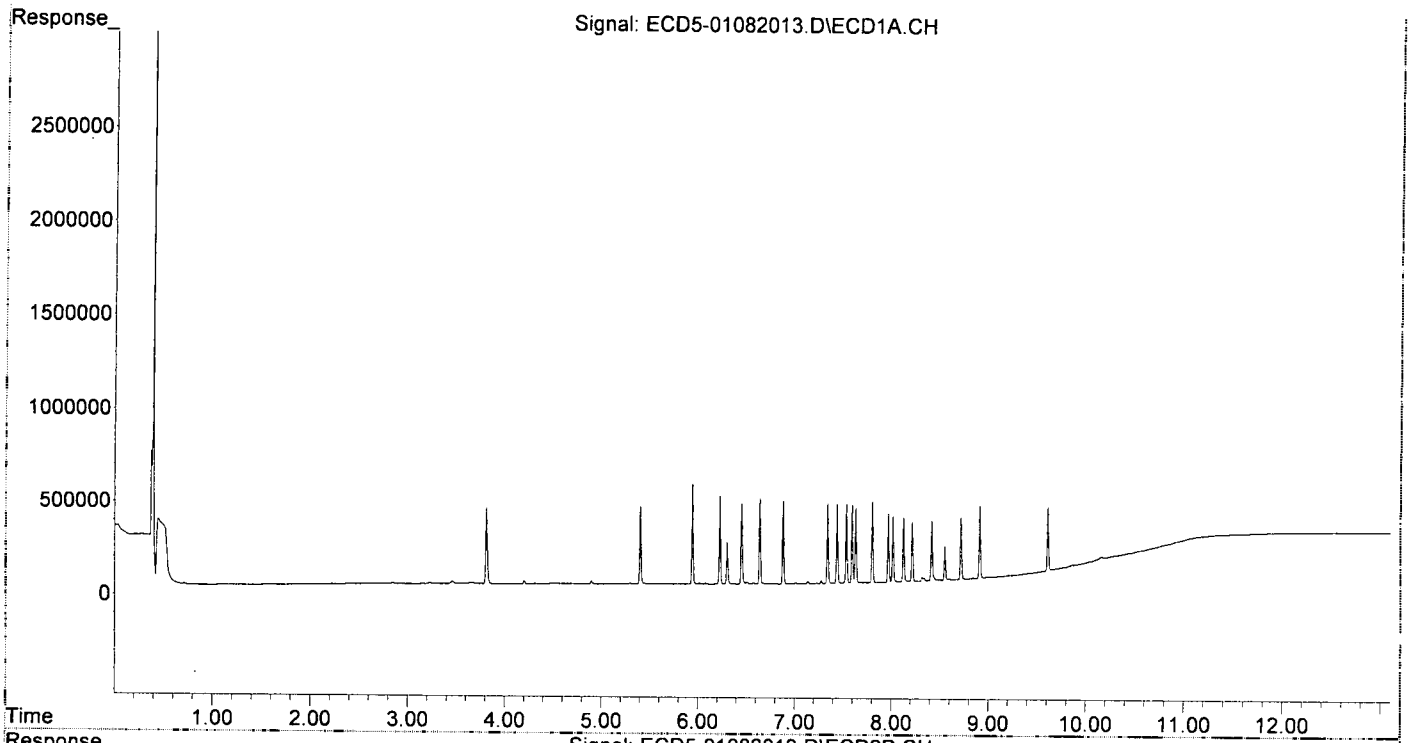
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.402	6.126	415516	589045	2.330	1.984
22)	S	DCBP (S)	9.609	10.743	340423	355105	2.358	2.085
		Target Compounds						
2)		a-BHC	5.942	6.734	537497	767270	2.239	1.928
3)		g-BHC	6.225	7.053	471506	677169	2.319	2.000
4)		b-BHC	6.301	7.115	220797	320899	3.114	2.316
5)		Heptachlor	6.639	7.434	456995	655441	2.486	2.191
6)		d-BHC	6.451	7.373	432587	603549	3.094	2.103
7)		Aldrin	6.881	7.703	440039	629279	2.317	2.028
8)		Heptachlo...	7.341	8.141	427014	586030	2.377	2.046
9)		trans-Chl...	7.439	8.283	425200	579921	2.358	1.988
10)		cis-Chlor...	7.535	8.390	422427	574813	2.361	2.048
11)		Endosulfa...	7.632	8.443	400706	526399	2.280	2.003
12)		4,4'-DDE	7.594	8.491	411765	541435	2.680	2.076
13)		Dieldrin	7.803	8.644	434619	580943	2.214	1.956
14)		Endrin	7.968	8.873	366871	456874	2.401	2.215
15)		4,4'-DDD	8.016	8.908	350808	453406	2.756	2.046
16)		Endosulfa...	8.125	9.020	347787	461782	2.276	1.951
17)		4,4'-DDT	8.215	9.137	319688	408673	3.454	3.021
18)		Endrin Al...	8.415	9.257	322362	453653	2.697	2.311
19)		Endosulfa...	8.718	9.448	330471	410957	2.153	1.879
20)		Methoxychlor	8.552	9.616	177451	224516	3.753	3.189
21)		Endrin Ke...	8.911	9.855	383553	459705	2.185	2.008
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

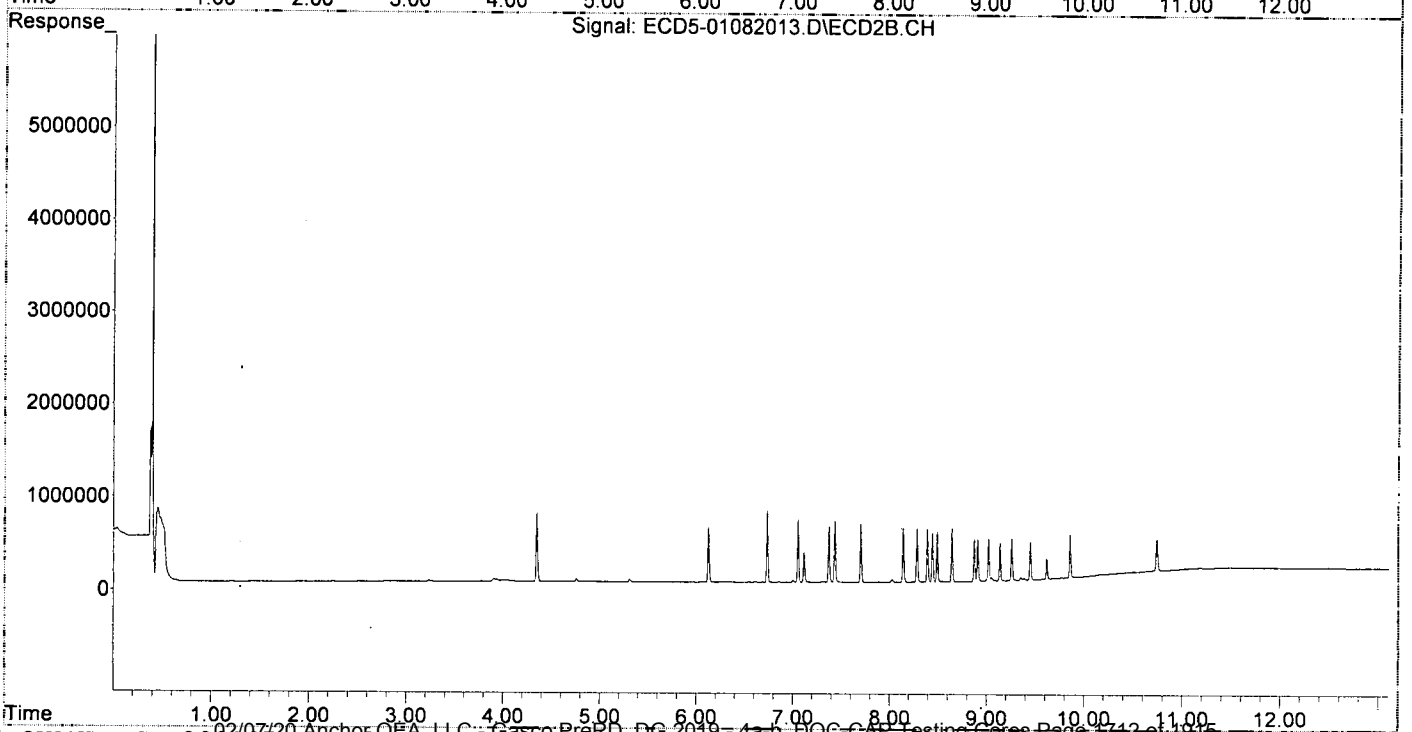
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:24
Operator : MJB
Sample : 0A08041-CAL3
Misc : A19K128, AB 2 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: Jan 08 17:14:17 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:41
Operator : MJB
Sample : 0A08041-CAL4
Misc : A19K130, AB 5 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: Jan 08 17:15:03 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/8/20

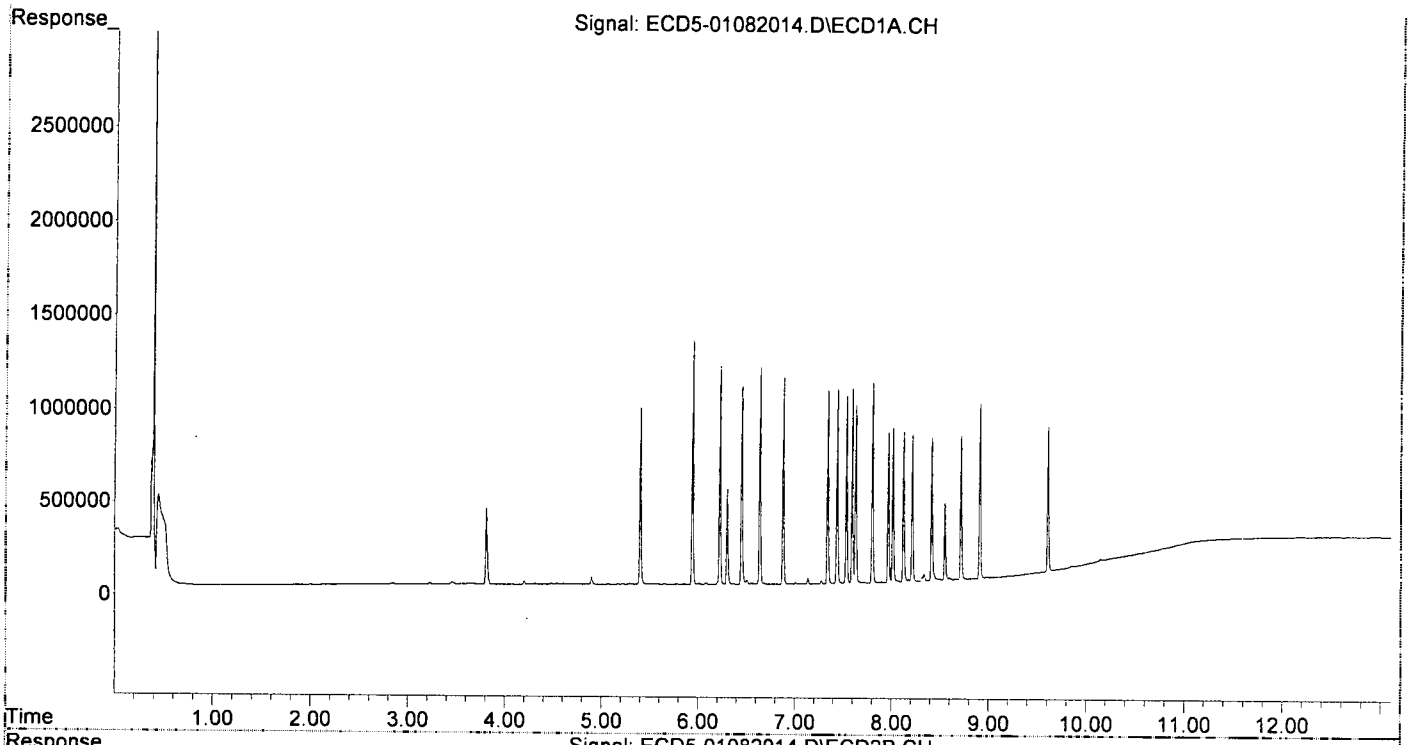
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.402	6.125	950074	1376103	5.326	4.635
22)	S	DCBP (S)	9.610	10.741	775613	834483	5.640	4.901
		Target Compounds						
2)		a-BHC	5.941	6.732	1306500	1977180	5.442	4.968
3)		g-BHC	6.224	7.052	1166721	1723036	5.737	5.088
4)		b-BHC	6.301	7.114	509830	782957	7.191	5.650
5)		Heptachlor	6.638	7.433	1163113	1661120	6.326	5.552
6)		d-BHC	6.450	7.372	1063446	1616218	7.586	5.669
7)		Aldrin	6.880	7.702	1111711	1579995	5.855	5.092
8)		Heptachlo...	7.341	8.141	1035468	1479273	5.763	5.165
9)		trans-Chl...	7.439	8.282	1044033	1455802	5.791	4.991
10)		cis-Chlor...	7.535	8.390	1008295	1373040	5.885	4.892
11)		Endosulfa...	7.631	8.442	958781	1296862	5.456	4.934
12)		4,4'-DDE	7.594	8.490	1040350	1423065	6.771	5.513
13)		Dieldrin	7.803	8.644	1070134	1422623	5.452	4.789
14)		Endrin	7.968	8.874	807889	1044563	5.288	5.121
15)		4,4'-DDD	8.016	8.908	829598	1143673	6.717	5.371
16)		Endosulfa...	8.125	9.020	804988	1119541	5.269	4.729
17)		4,4'-DDT	8.215	9.137	789969	1027268	8.447	7.174
18)		Endrin Al...	8.415	9.258	766938	1047866	6.416	5.338
19)		Endosulfa...	8.718	9.449	770166	1024703	5.388	5.077
20)		Methoxychlor	8.552	9.615	413384	532720	8.569	7.309
21)		Endrin Ke...	8.912	9.854	939876	1162953	5.678	5.362
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

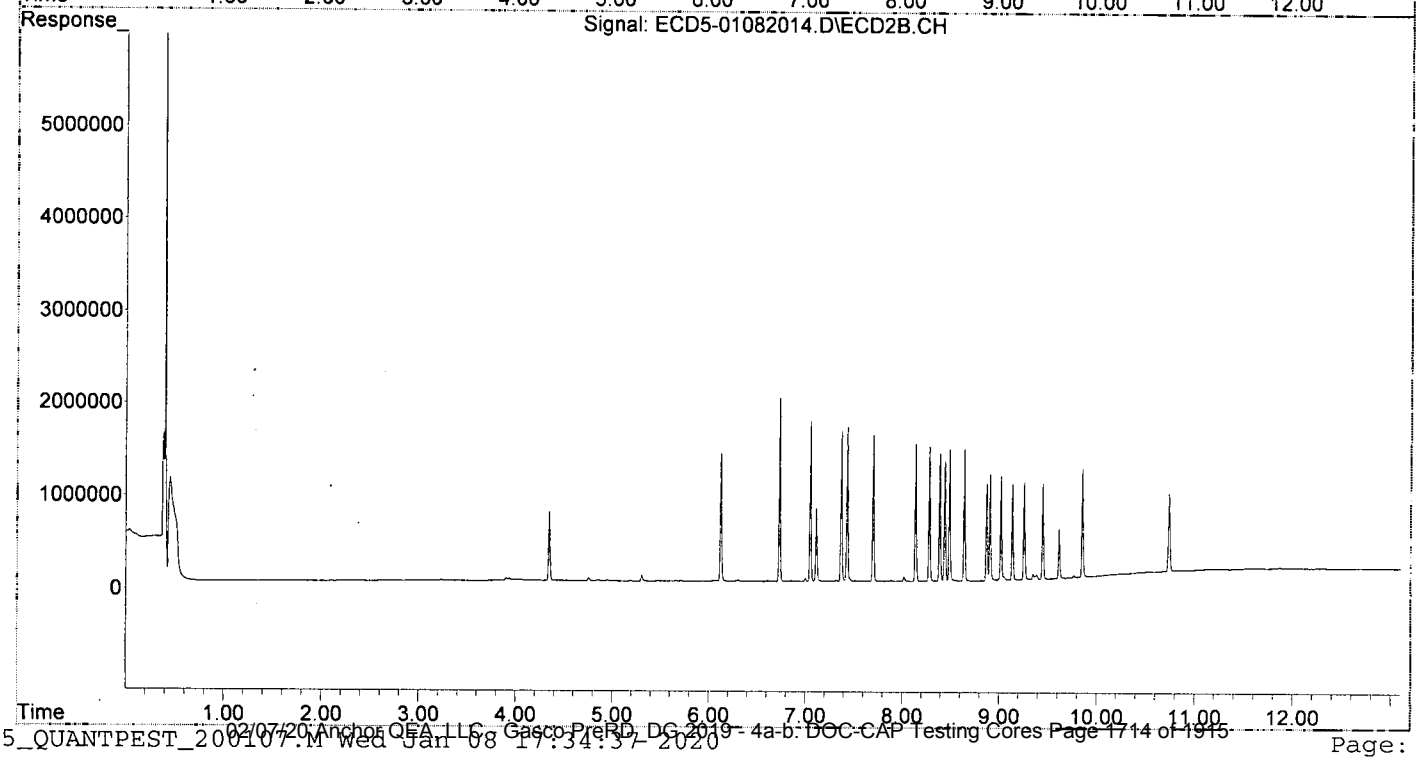
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:41
Operator : MJB
Sample : 0A08041-CAL4
Misc : A19K130, AB 5 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: Jan 08 17:15:03 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:58
Operator : MJB
Sample : 0A08041-CAL5
Misc : A19K131, AB 10 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: Jan 08 17:15:39 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/8/20

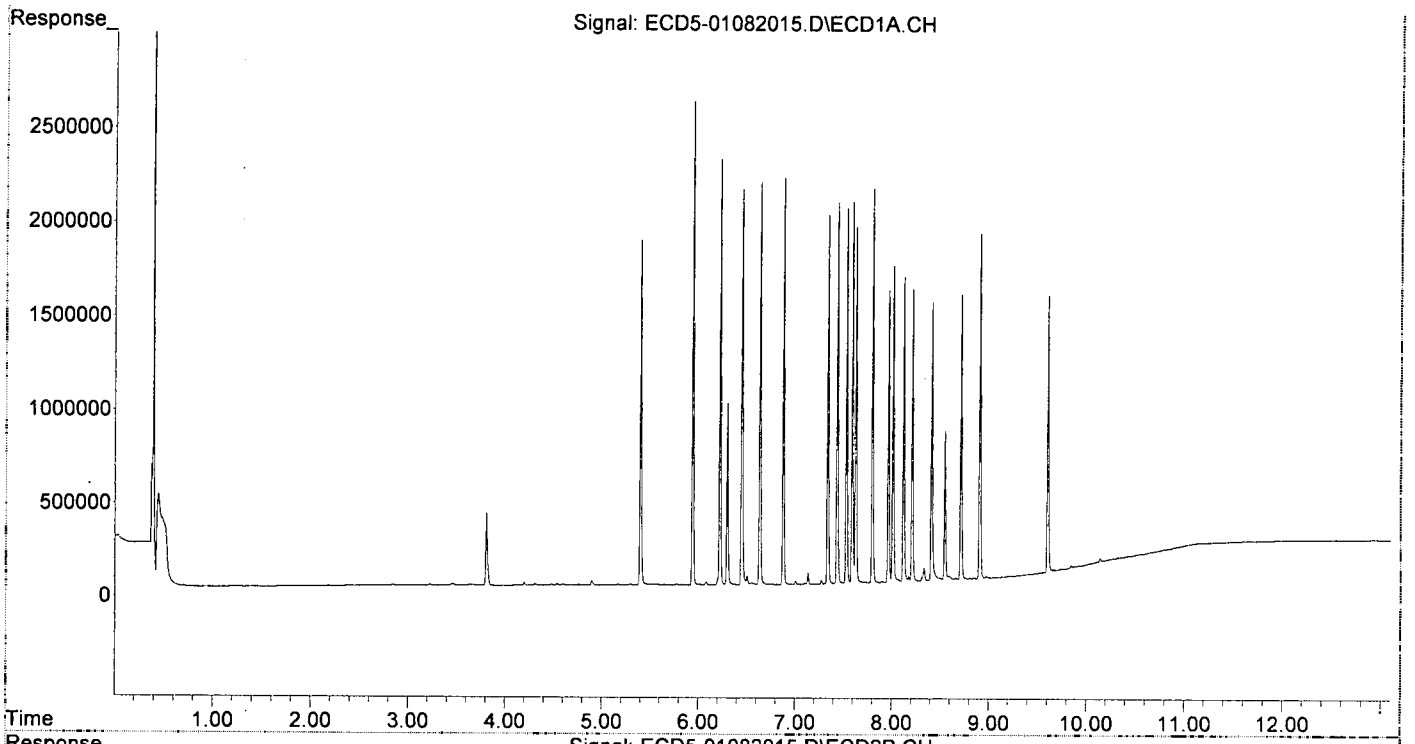
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.402	6.126	1840383	2696320	10.318	9.083
22)	S	DCBP (S)	9.608	10.739	1477683	1586829	10.920	9.319
		Target Compounds						
2)		a-BHC	5.942	6.733	2577924	3955799	10.738	9.941
3)		g-BHC	6.224	7.053	2268745	3502209	11.156	10.343
4)		b-BHC	6.301	7.114	961397	1480627	13.559	10.684
5)		Heptachlor	6.638	7.433	2147477	3263335	11.680	10.907
6)		d-BHC	6.450	7.372	2076601	3263098	14.634	11.366
7)		Aldrin	6.880	7.702	2163245	3173256	11.392	10.227
8)		Heptachlo...	7.341	8.140	1956671	2879584	10.891	10.055
9)		trans-Chl...	7.438	8.282	2032056	2933717	11.271	10.058
10)		cis-Chlor...	7.534	8.389	1994276	2847805	11.782	10.147
11)		Endosulfa...	7.631	8.441	1890427	2609537	10.757	9.928
12)		4,4'-DDE	7.594	8.489	2021392	2826462	13.157	10.894
13)		Dieldrin	7.803	8.643	2096792	2906015	10.683	9.783
14)		Endrin	7.968	8.873	1559818	2003395	10.209	9.799
15)		4,4'-DDD	8.015	8.907	1682077	2301063	13.657	10.857
16)		Endosulfa...	8.125	9.019	1622090	2276288	10.617	9.615
17)		4,4'-DDT	8.214	9.136	1545752	2023340	16.165	13.647
18)		Endrin Al...	8.415	9.256	1482366	2117172	12.401	10.785
19)		Endosulfa...	8.717	9.447	1505195	2032510	10.762	10.253
20)		Methoxychlor	8.551	9.614	785011	1038753	15.965	13.893
21)		Endrin Ke...	8.910	9.853	1825019	2330210	11.197	10.836
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

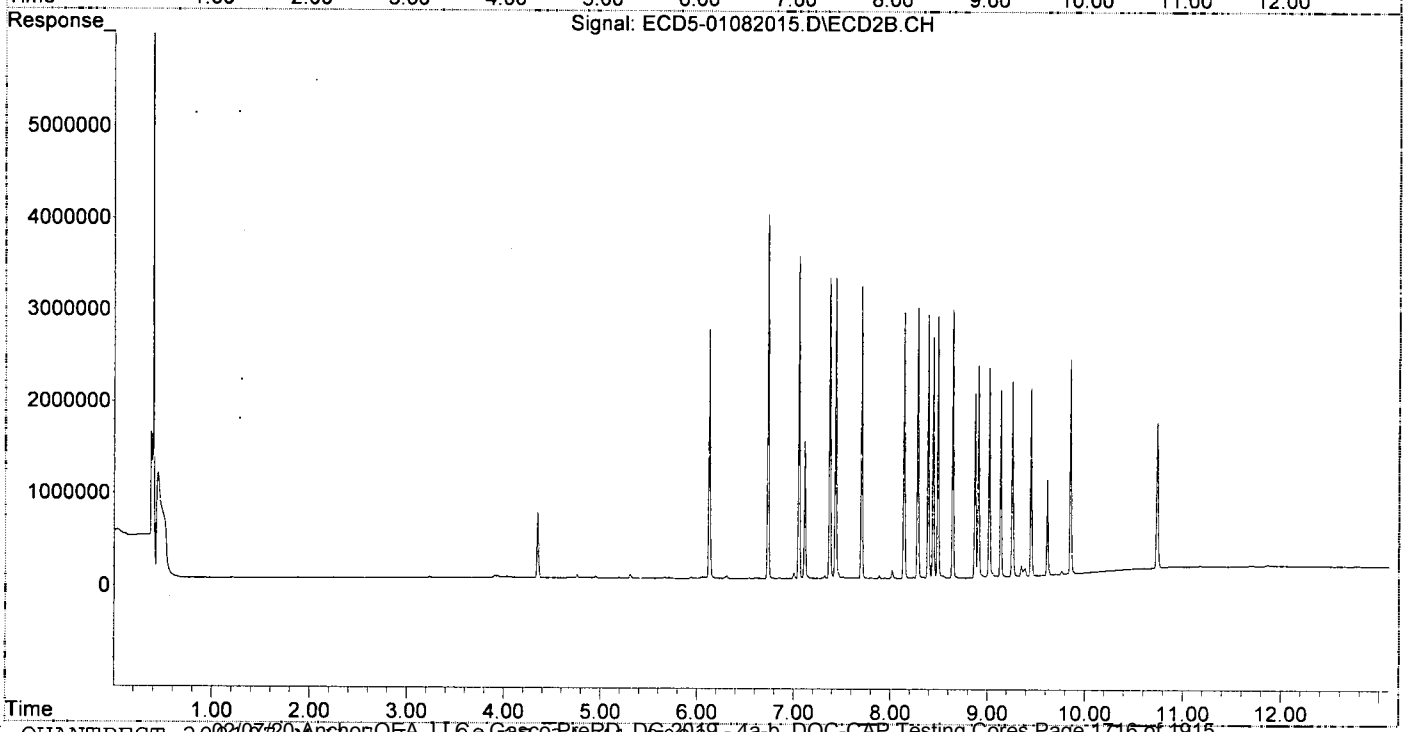
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 15:58
Operator : MJB
Sample : 0A08041-CAL5
Misc : A19K131, AB 10 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: Jan 08 17:15:39 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 16:16
Operator : MJB
Sample : 0A08041-CAL6
Misc : A19K132, AB 25 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: Jan 08 17:16:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/8/20

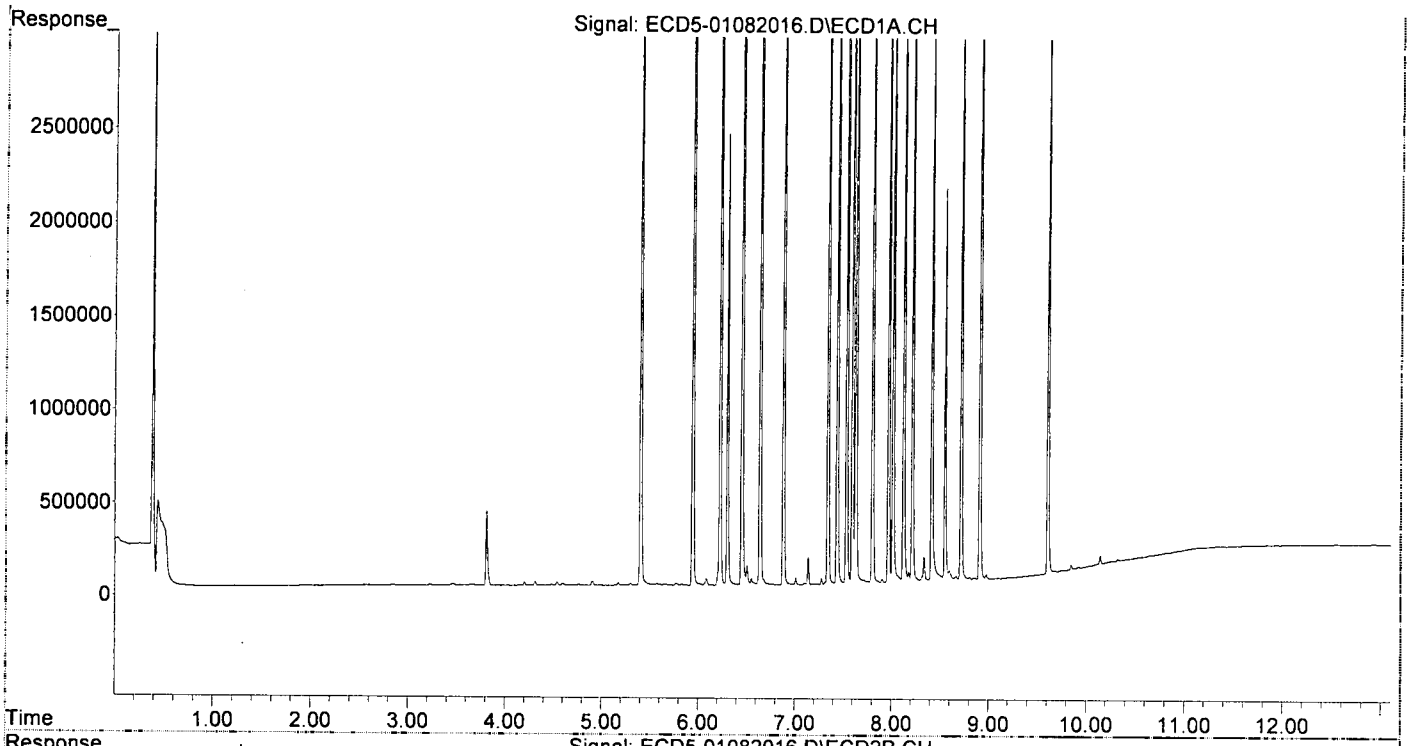
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.403	6.127	4644520	7248704	26.039	24.417
22)	S	DCBP (S)	9.609	10.741	3649221	4087662	27.139	24.006
		Target Compounds						
2)		a-BHC	5.943	6.735	6708027	10415470	27.943	26.173
3)		g-BHC	6.226	7.054	5763650	9109081	28.342	26.901
4)		b-BHC	6.302	7.115	2412054	3735653	34.019	26.956
5)		Heptachlor	6.640	7.435	5435552	8726365	29.564	29.167
6)		d-BHC	6.452	7.374	5473600	9124505	36.967	30.715
7)		Aldrin	6.882	7.704	5637637	8363357	29.689	26.954
8)		Heptachlo...	7.342	8.142	5116716	7570159	28.479	26.434
9)		trans-Chl...	7.439	8.283	5203493	7709066	28.862	26.429
10)		cis-Chlor...	7.535	8.391	5032396	7320817	29.702	26.085
11)		Endosulfa...	7.632	8.443	4772332	6856889	27.155	26.088
12)		4,4'-DDE	7.595	8.491	5211626	7706129	33.922	28.840
13)		Dieldrin	7.804	8.645	5425309	7861083	27.640	26.464
14)		Endrin	7.968	8.874	4355756	5981930	28.510	28.439
15)		4,4'-DDD	8.016	8.909	4392393	6163457	34.856	28.442
16)		Endosulfa...	8.126	9.021	4183901	6151164	27.383	25.982
17)		4,4'-DDT	8.215	9.138	4195442	5749572	40.824	35.924
18)		Endrin Al...	8.416	9.258	3592714	5279915	30.055	26.897
19)		Endosulfa...	8.718	9.449	3934236	5454073	28.218	27.172
20)		Methoxychlor	8.552	9.616	2096804	2923508	40.465	36.746
21)		Endrin Ke...	8.912	9.854	4735111	6356172	29.010	28.902
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

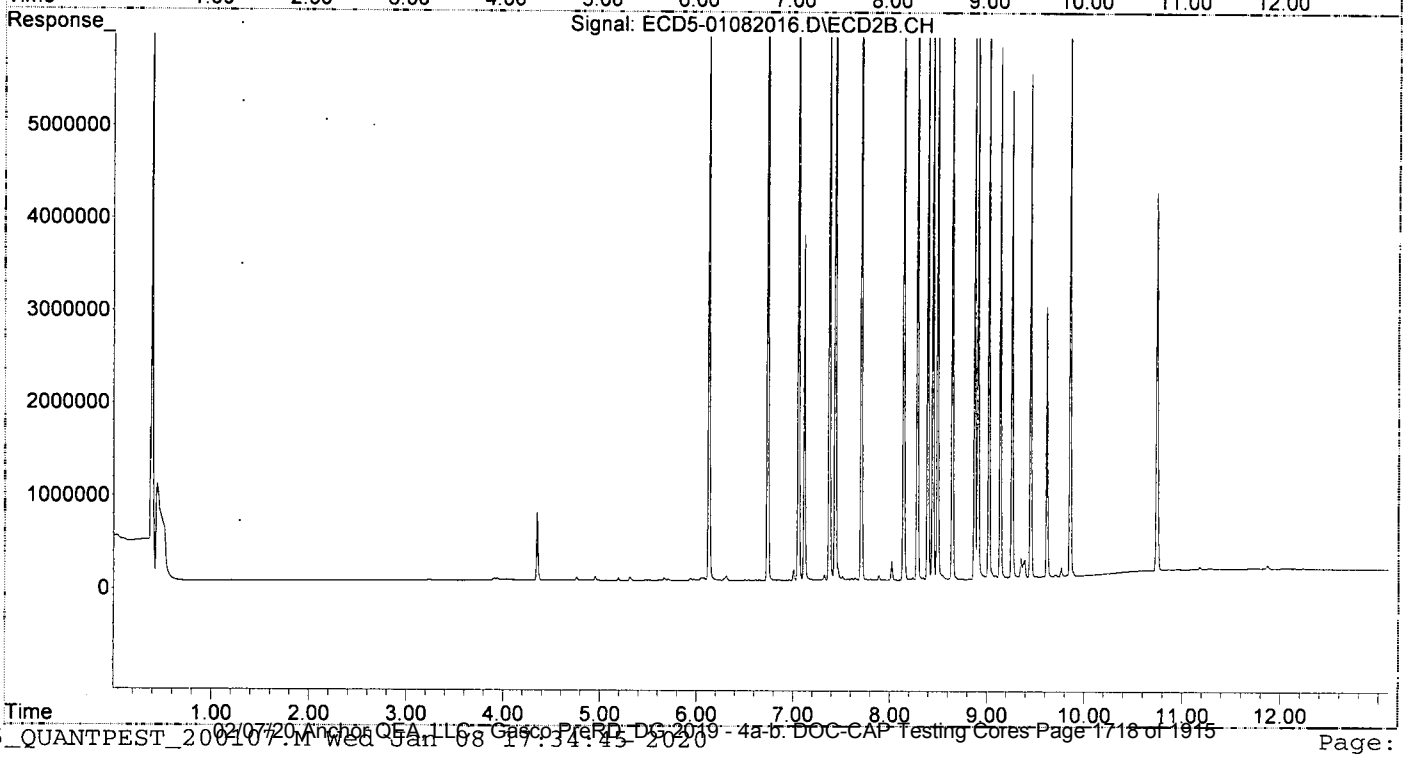
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 16:16
Operator : MJB
Sample : 0A08041-CAL6
Misc : A19K132, AB 25 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: Jan 08 17:16:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 16:33
Operator : MJB
Sample : 0A08041-CAL7
Misc : A19K133, AB 50 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: Jan 08 17:11:26 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

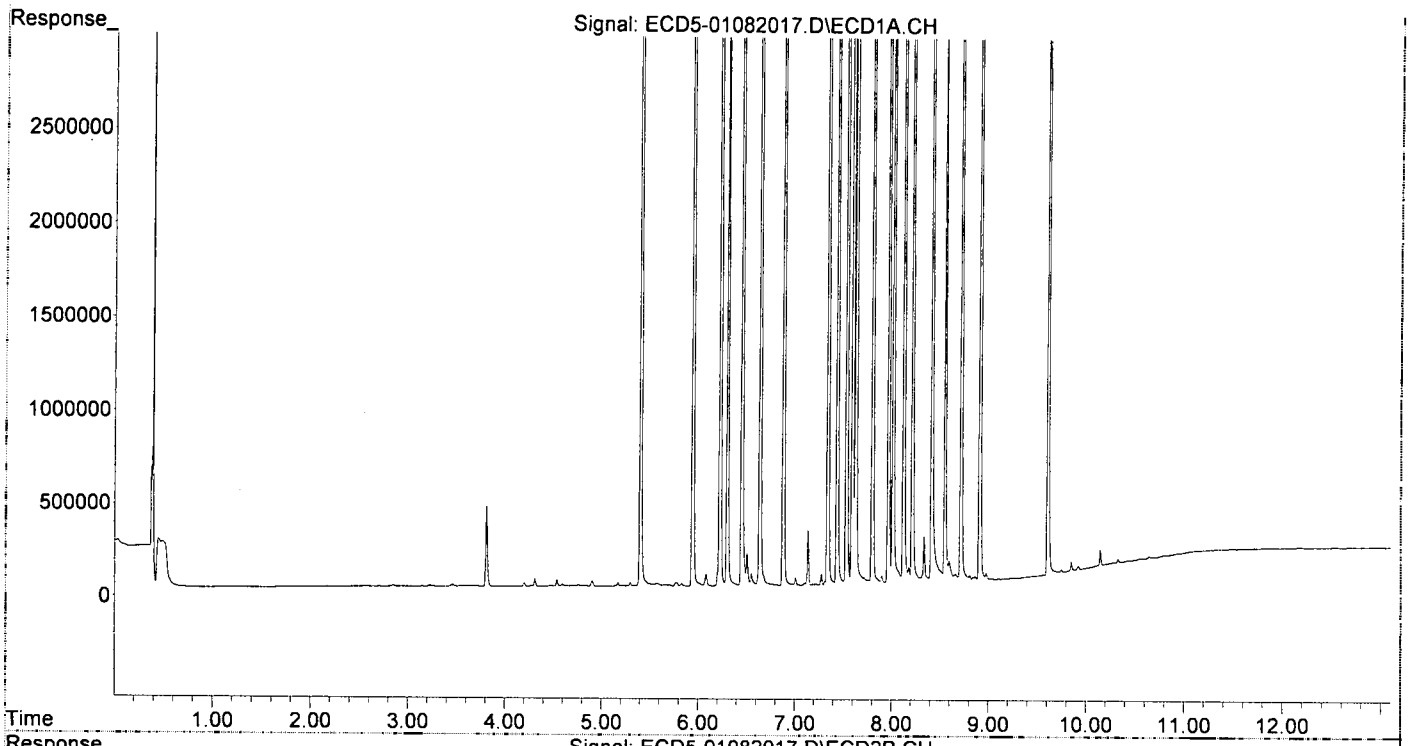
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	5.404	6.128	9333732	14973503	52.328	50.438
22)	S	DCBP (S)	9.610	10.743	7324286	8356479	54.215	49.075
		Target Compounds						
2)		a-BHC	5.944	6.736	13216845	22089318	55.056	55.508
3)		g-BHC	6.226	7.055	11708116	19348411	57.573	57.139
4)		b-BHC	6.302	7.116	4896621	7821870	69.062	56.442
5)		Heptachlor	6.640	7.436	11436571	18476010	62.203	61.754
6)		d-BHC	6.452	7.375	11429030	18657508	72.302	59.637
7)		Aldrin	6.882	7.705	11087840	17419751	58.391	56.142
8)		Heptachlo...	7.342	8.143	9998611	15668568	55.652	54.712
9)		trans-Chl...	7.438	8.284	10533023	15828140	58.423	54.264
10)		cis-Chlor...	7.535	8.392	9997532	15222666	58.218	54.241
11)		Endosulfa...	7.631	8.444	9321509	14247679	53.041	54.207
12)		4,4'-DDE	7.595	8.492	10548305	16343004	68.657	58.168
13)		Dieldrin	7.804	8.646	10540242	16218456	53.700	54.599
14)		Endrin	7.969	8.875	8377116	11897358	54.830	54.213
15)		4,4'-DDD	8.016	8.910	8716356	13105625	66.362	57.695
16)		Endosulfa...	8.126	9.022	8170502	12207870	53.476	51.564
17)		4,4'-DDT	8.215	9.139	8824873	12576988	77.695	71.115
18)		Endrin Al...	8.416	9.259	7206121	10910333	60.283	55.580
19)		Endosulfa...	8.718	9.450	7989432	11599024	56.402	55.415
20)		Methoxychlor	8.552	9.616	4344332	6115403	77.959	70.938
21)		Endrin Ke...	8.912	9.855	9580043	12905122	57.630	56.045
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

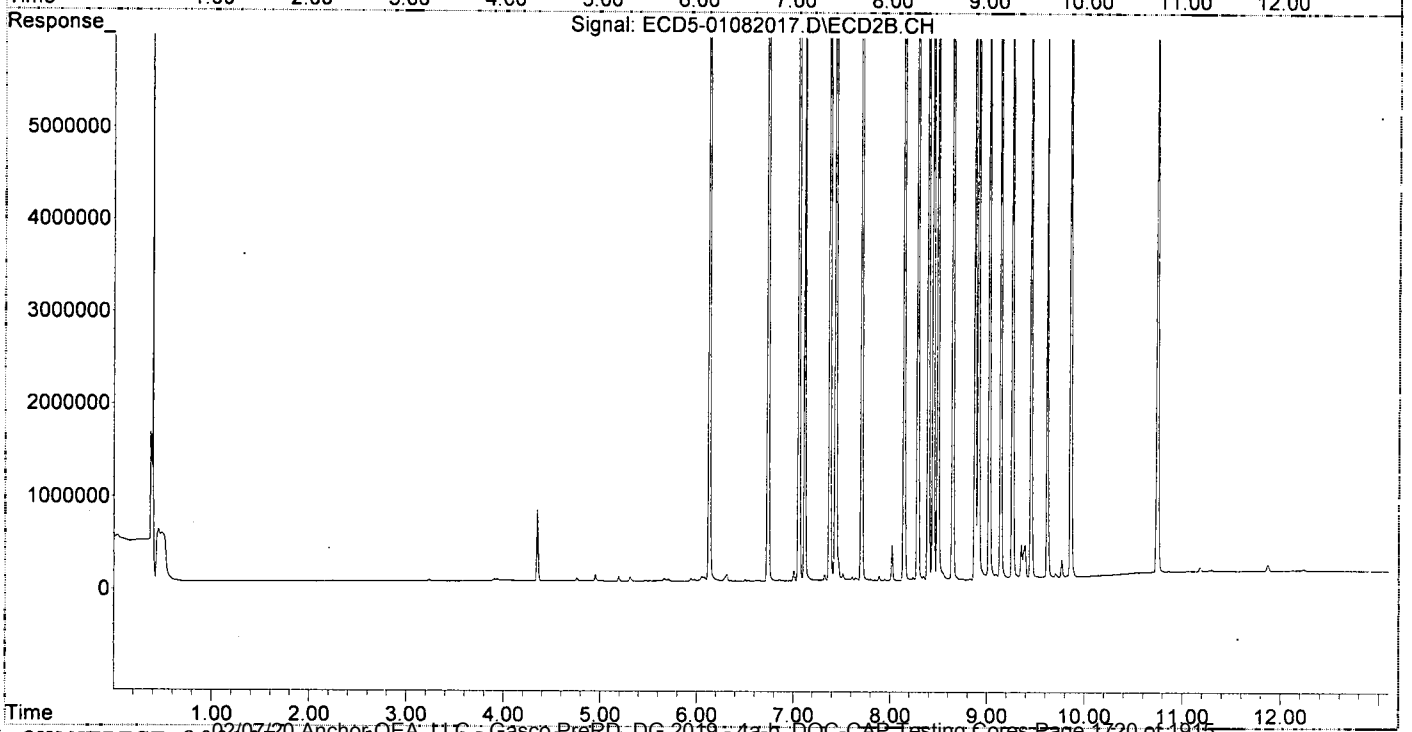
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 16:33
Operator : MJB
Sample : 0A08041-CAL7
Misc : A19K133, AB 50 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: Jan 08 17:11:26 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Dec 18 11:44:50 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 16:50
Operator : MJB
Sample : 0A08041-CAL8
Misc : A19K134, AB 100 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: Jan 08 17:16:56 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

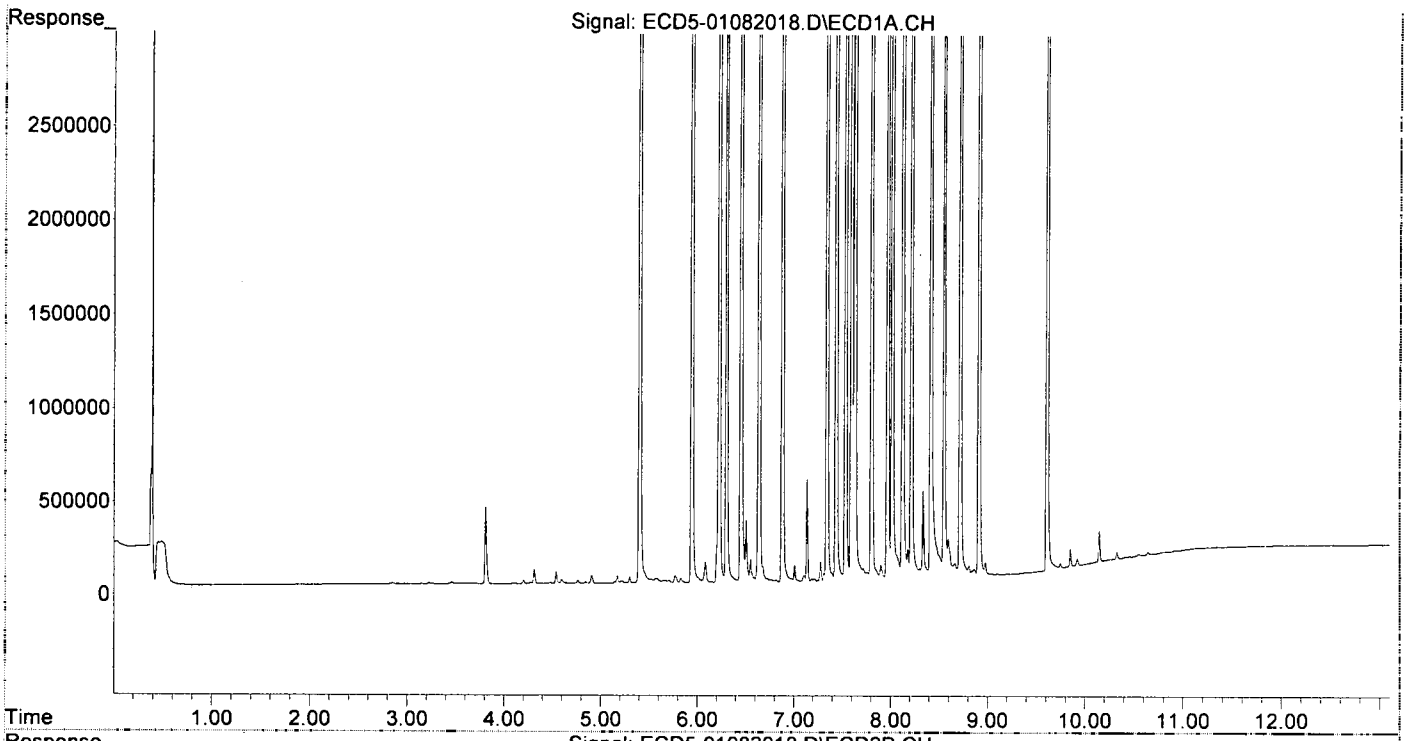
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	5.402	6.126	18608009	30726323	104.323	103.502
22) S	DCBP (S)	9.609	10.740	14736356	18325862	107.476	107.622
	Target Compounds						
2)	a-BHC	5.942	6.734	26761777	46009925	111.478	115.619
3)	g-BHC	6.225	7.054	23719186	40108652	116.636	118.448
4)	b-BHC	6.301	7.114	9778496	15872194	137.915	114.532
5)	Heptachlor	6.638	7.434	22525924	39120687	122.517	130.756
6)	d-BHC	6.450	7.373	22559943	39888976	129.417	115.993
7)	Aldrin	6.879	7.703	21827668	36118456	114.949	116.406
8)	Heptachlo...	7.340	8.141	19866372	32905611	110.575	114.901
9)	trans-Chl...	7.436	8.282	20684116	32788413	114.727	112.408
10)	cis-Chlor...	7.533	8.390	19622551	31325513	111.066	111.618
11)	Endosulfa...	7.630	8.442	18668180	29837370	106.225	113.519
12)	4,4'-DDE	7.593	8.491	20981322	34240158	136.564	111.741
13)	Dieldrin	7.802	8.644	21752074	34067227	110.821	114.686
14)	Endrin	7.967	8.873	16990601	25511288	111.208	106.990
15)	4,4'-DDD	8.015	8.908	17753200	27404752	125.287	110.962
16)	Endosulfa...	8.124	9.020	16571029	26285916	108.457	111.028
17)	4,4'-DDT	8.214	9.138	17230392	27045966	132.772	131.755
18)	Endrin Al...	8.414	9.257	14322834	23088226	119.818	117.618
19)	Endosulfa...	8.716	9.448	15517798	24531265	105.955	108.178
20)	Methoxychlor	8.550	9.615	8765747	13401490	140.843	135.844
21)	Endrin Ke...	8.910	9.854	19103565	28057636	110.632	111.181
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

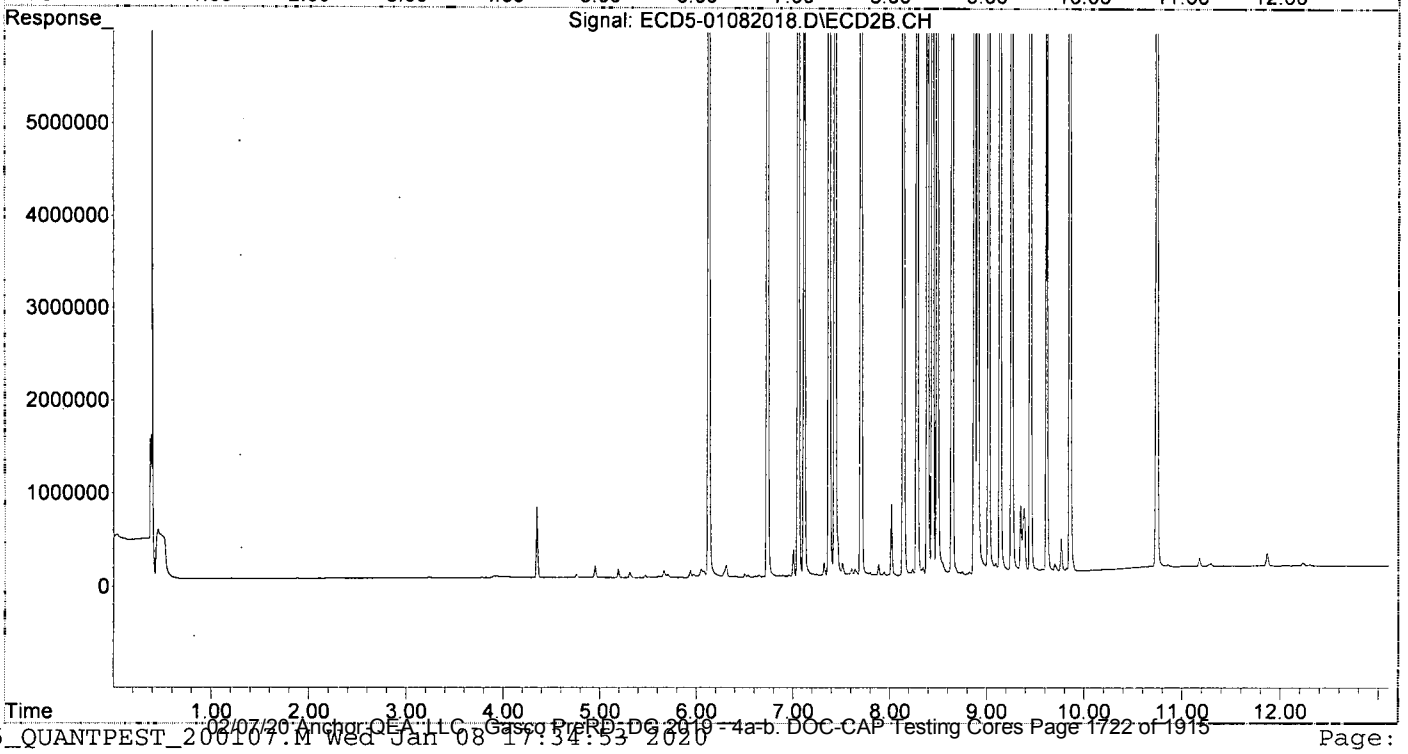
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 16:50
Operator : MJB
Sample : 0A08041-CAL8
Misc : A19K134, AB 100 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: Jan 08 17:16:56 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:07
Operator : MJB
Sample : 0A08041-CAL9
Misc : A19K126, AB 200 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: Jan 08 17:23:52 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/8/20

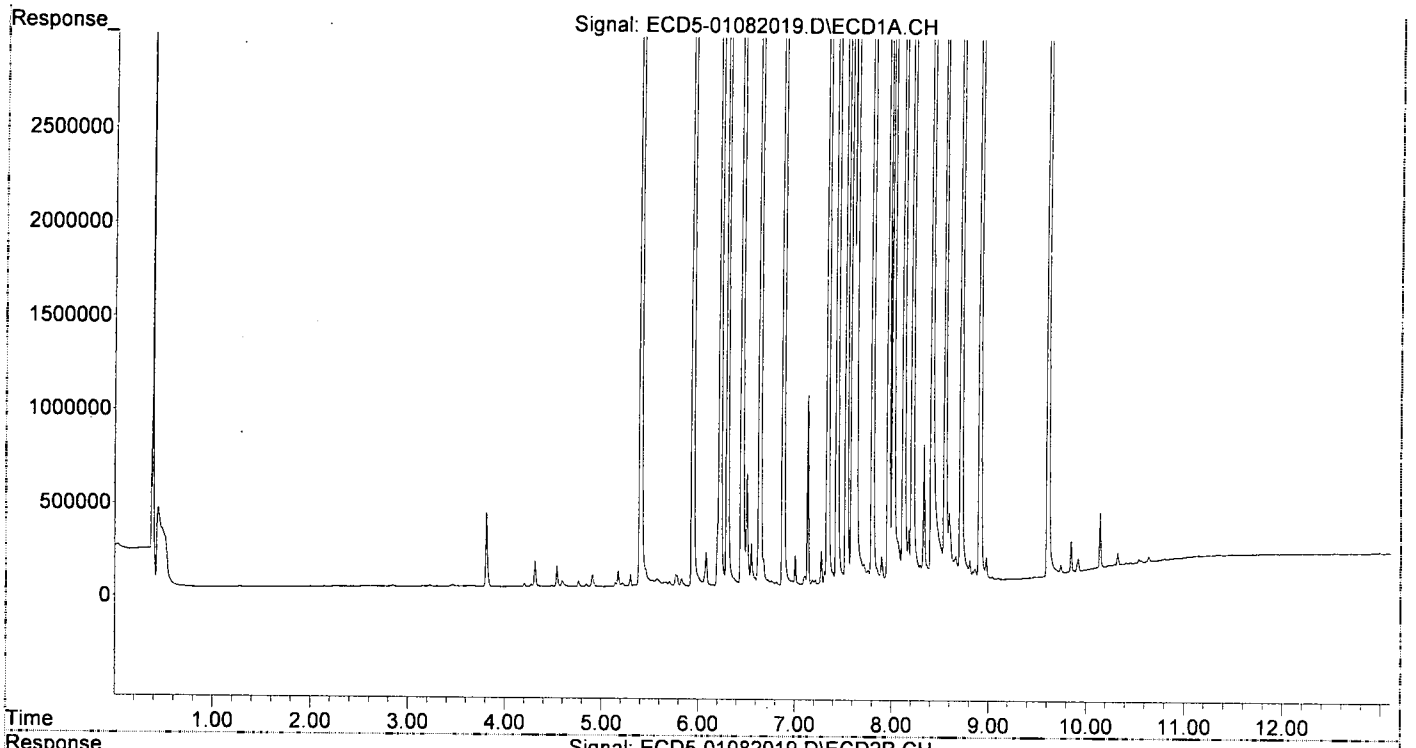
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	5.402	6.127	36004194	63805007	201.851	214.927
22)	S DCBP (S)	9.608	10.740	29522105	37530513	208.911	220.404
	Target Compounds						
2)	a-BHC	5.942	6.735	51378594	94490351	214.020	237.445
3)	g-BHC	6.225	7.055	45740727	81152836	224.925	239.658
4)	b-BHC	6.300	7.114	18885723	32003158	266.363	230.932
5)	Heptachlor	6.637	7.434	43921584	78012422	238.886	260.746
6)	d-BHC	6.450	7.373	44016986	79563682	219.966	203.005
7)	Aldrin	6.878	7.703	42282992	73697118	222.671	237.518
8)	Heptachlo...	7.339	8.141	38629005	67266896	215.007	234.884
9)	trans-Chl...	7.435	8.282	40459355	67463571	224.413	231.285
10)	cis-Chlor...	7.532	8.390	38789603	63748867	208.402	227.148
11)	Endosulfa...	7.629	8.442	36273958	61251233	206.404	233.036
12)	4,4'-DDE	7.592	8.491	40550794	70133432	263.939	200.970
13)	Dieldrin	7.801	8.643	42048253	69685127	214.224	234.591
14)	Endrin	7.966	8.874	33554398	54542107	219.622	200.376
15)	4,4'-DDD	8.014	8.909	34664444	57884644	218.948	205.031
16)	Endosulfa...	8.123	9.020	32037931	56742124	209.687	239.671
17)	4,4'-DDT	8.213	9.138	33779701	56160769	218.109	225.532
18)	Endrin Al...	8.414	9.257	28205265	46664440	235.952	237.722
19)	Endosulfa...	8.716	9.449	30589878	50080530	196.514	195.472
20)	Methoxychlor	8.549	9.614	16842837	27125539	234.271	231.850
21)	Endrin Ke...	8.911	9.854	38218148	59346864	206.833	204.485
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

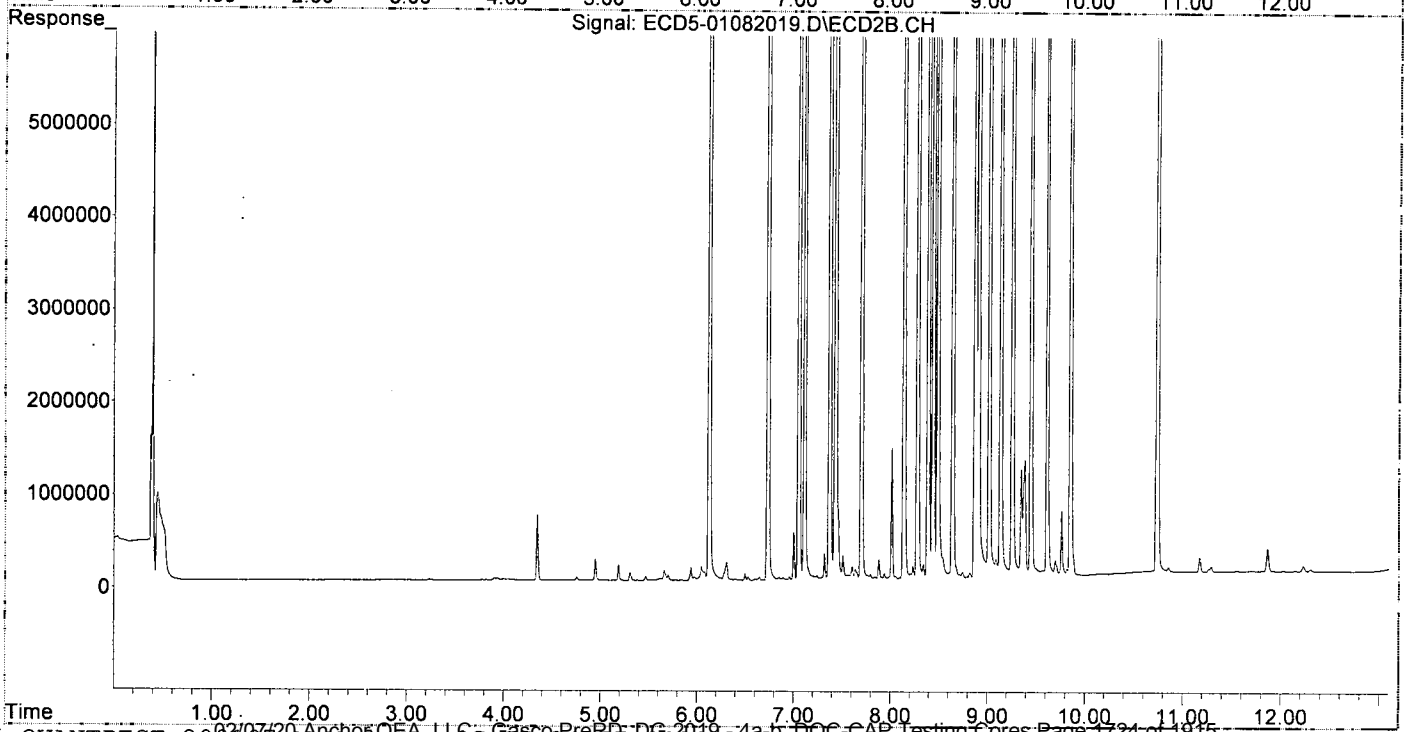
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:07
Operator : MJB
Sample : 0A08041-CAL9
Misc : A19K126, AB 200 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: Jan 08 17:23:52 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:11:43 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:59
Operator : MJB
Sample : 0A08041-CALA
Misc : A20A096, 9-42 0.5 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: Jan 09 10:49:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

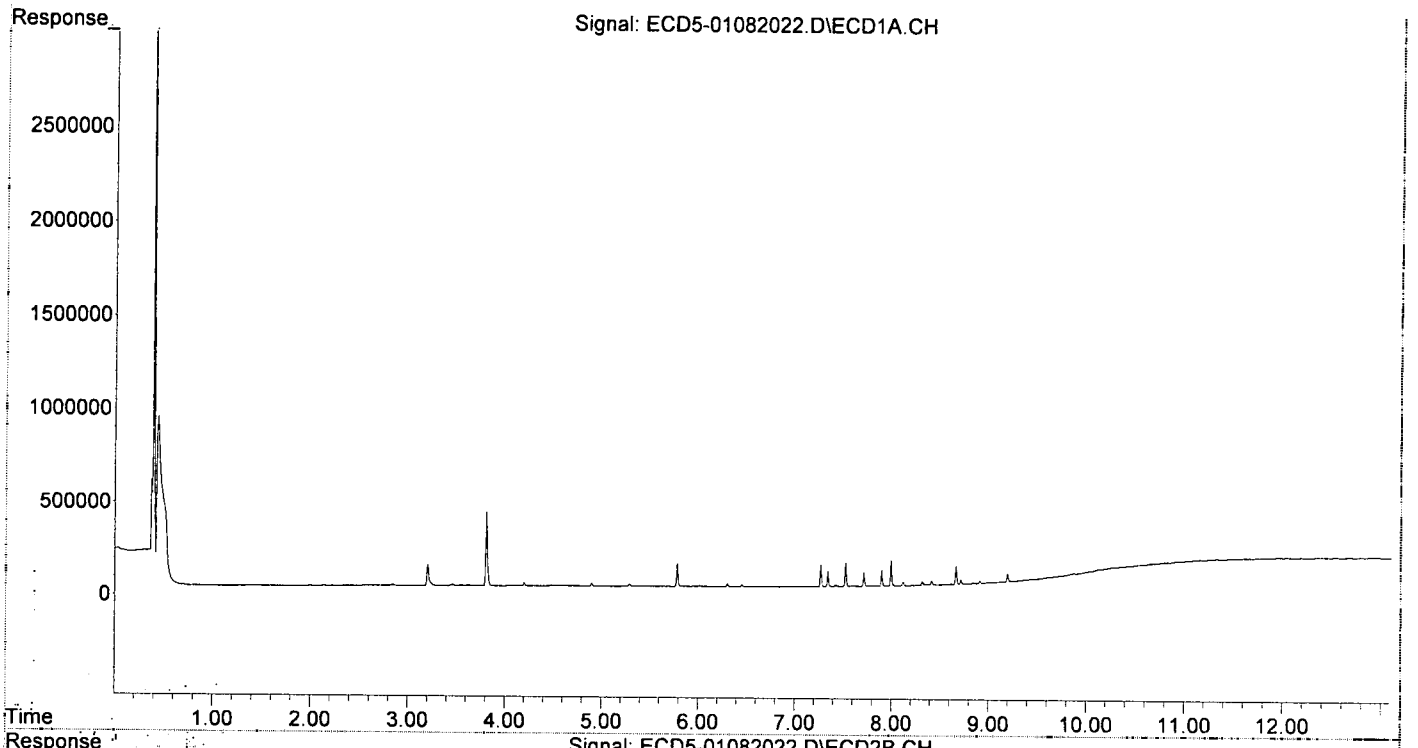
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.203	3.812	111441	211151	0.527	0.583
24)		Hexachlor...	5.783	6.595	122709	175732	0.603	0.600
25)		Oxychlordane	7.270	8.069	118861	156922	0.647	0.620
26)		2,4'-DDE	7.343	8.268	81726	115006	0.758	0.605
27)		trans-Non...	7.527	8.345	126746	167484	0.705	0.594
28)		2,4'-DDD	7.716	8.643	71868	101849	0.731	0.601
29)		2,4'-DDT	7.899	8.870	83331	108578	0.861	0.733
30)		cis-Nonac...	7.997	8.913	134243	177850	0.652	0.555
31)		Mirex	8.667	9.851	96444	127755	0.565	0.472
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

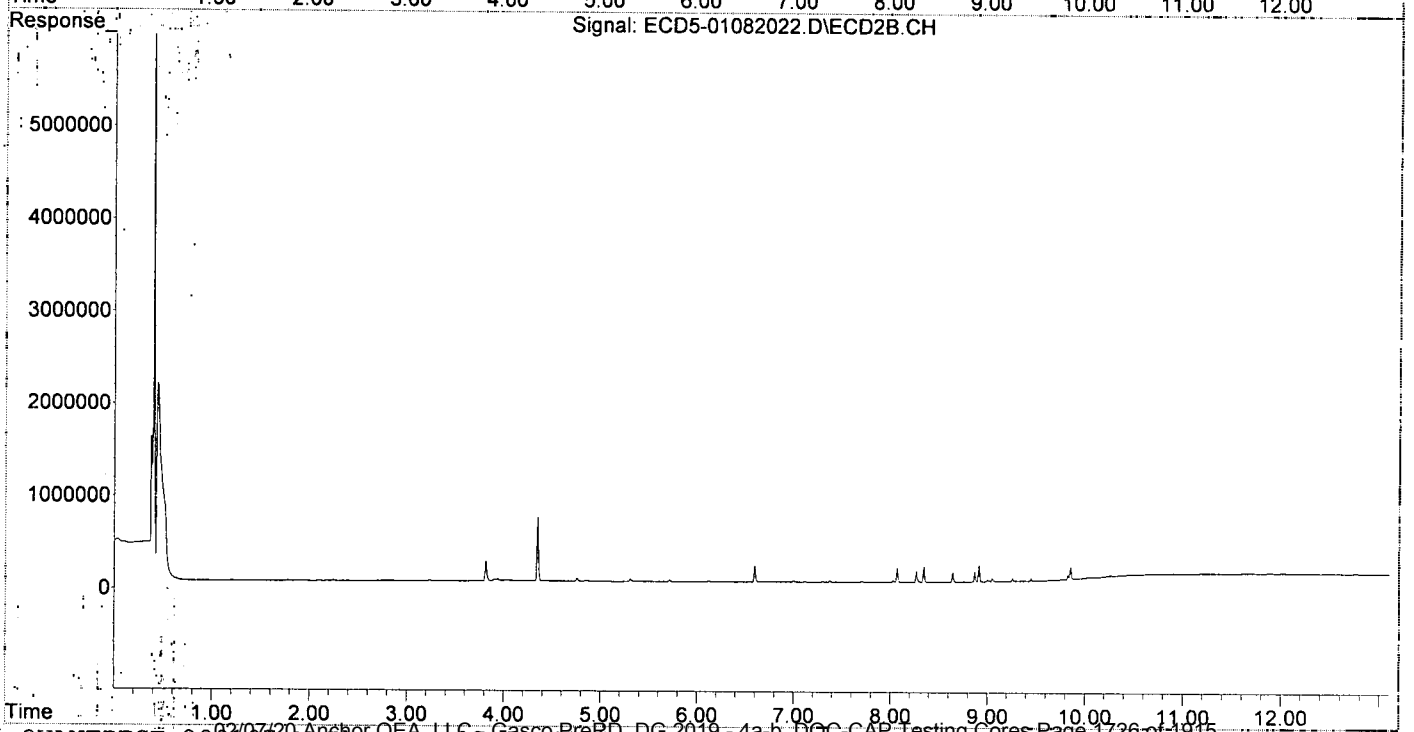
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 17:59
Operator : MJB
Sample : 0A08041-CALA
Misc : A20A096, 9-42 0.5 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: Jan 09 10:49:36 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 18:16
Operator : MJB
Sample : 0A08041-CALB
Misc : A19K263, 9-42 1 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: Jan 09 10:50:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

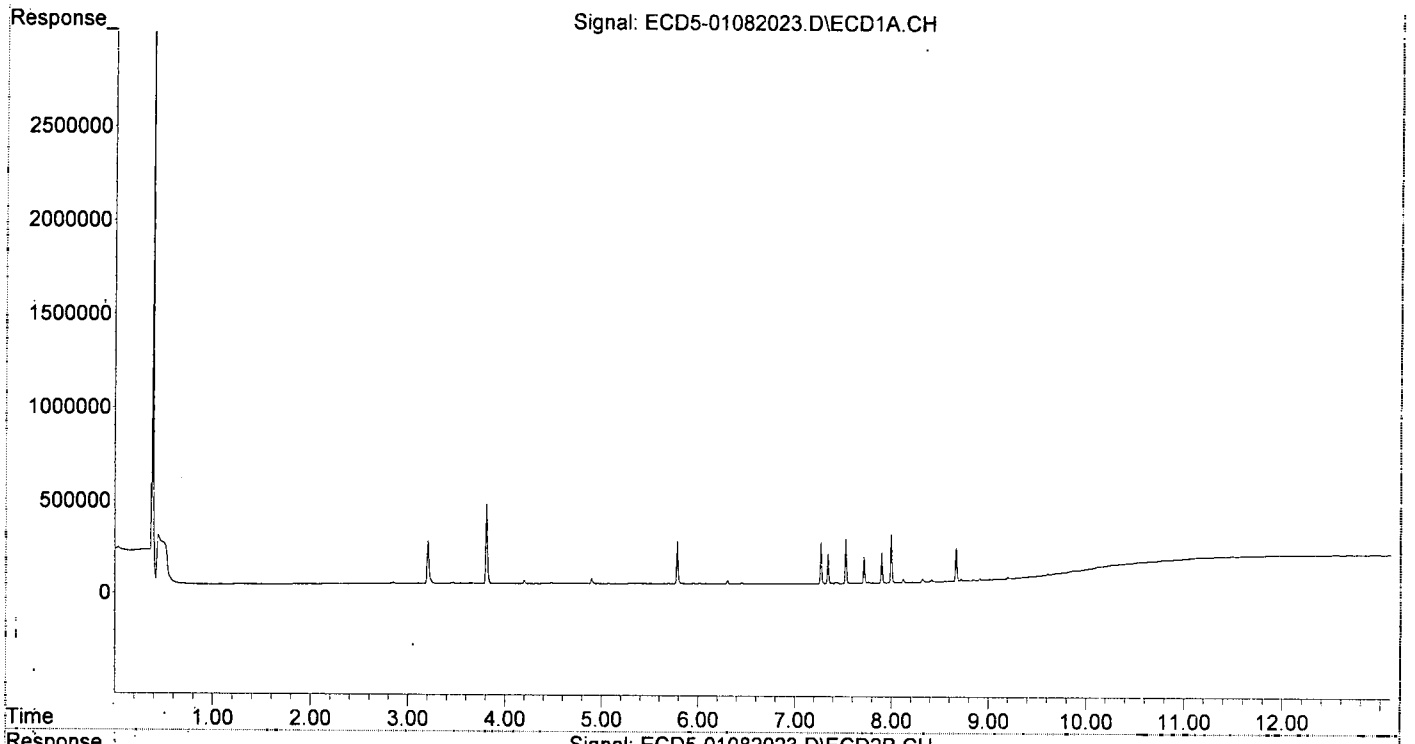
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.204	3.812	233620	433391	1.290	1.197
24)		Hexachlor...	5.783	6.595	233462	346466	1.321	1.182
25)		Oxychlordane	7.271	8.070	223883	298417	1.388	1.180
26)		2,4'-DDE	7.343	8.269	161136	220925	1.494	1.162
27)		trans-Non...	7.527	8.345	240849	328300	1.340	1.164
28)		2,4'-DDD	7.716	8.644	143303	193608	1.457	1.142
29)		2,4'-DDT	7.900	8.871	162358	215626	1.678	1.544
30)		cis-Nonac...	7.997	8.914	263651	344851	1.280	1.077
31)		Mirex	8.667	9.851	181371	237397	1.288	1.199
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

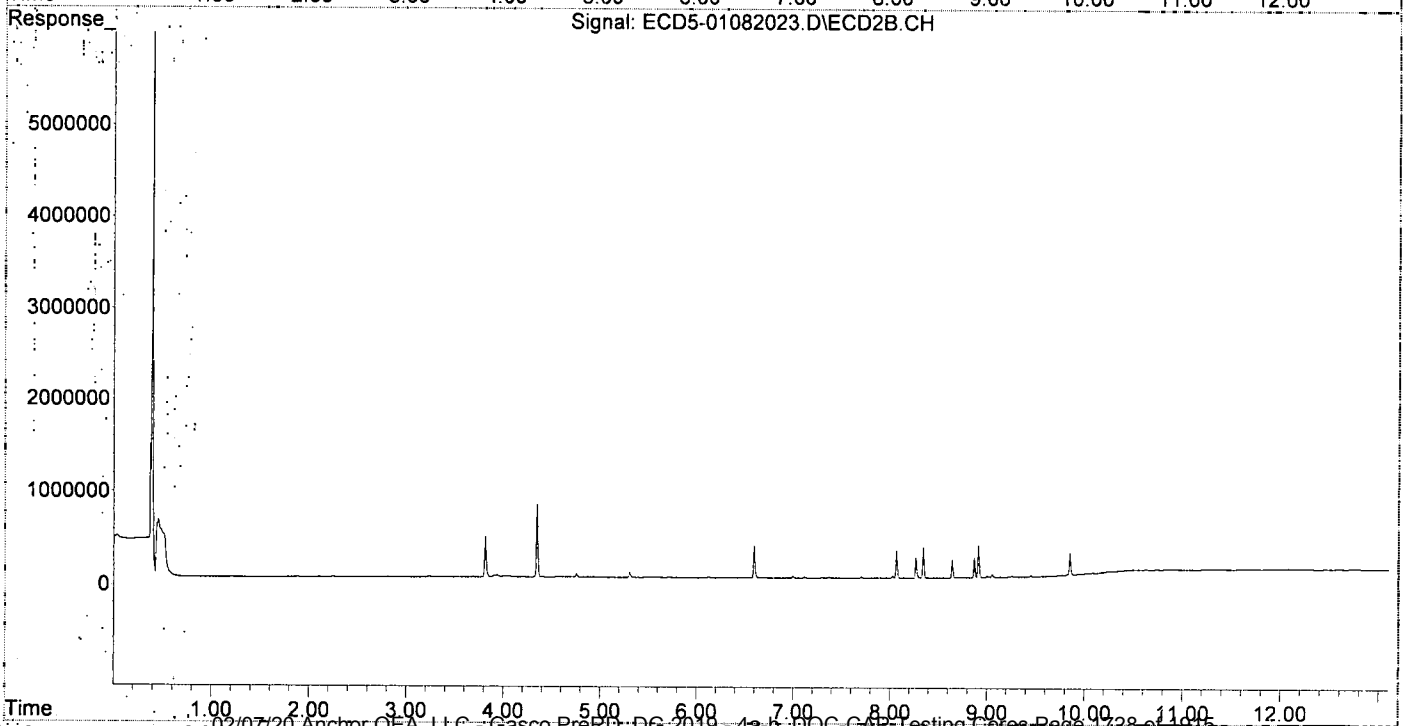
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 18:16
Operator : MJB
Sample : 0A08041-CALB
Misc : A19K263, 9-42 1 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: Jan 09 10:50:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 18:33
Operator : MJB
Sample : 0A08041-CALC
Misc : A19K264, 9-42 2 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: Jan 09 10:50:54 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MP 1/9/20

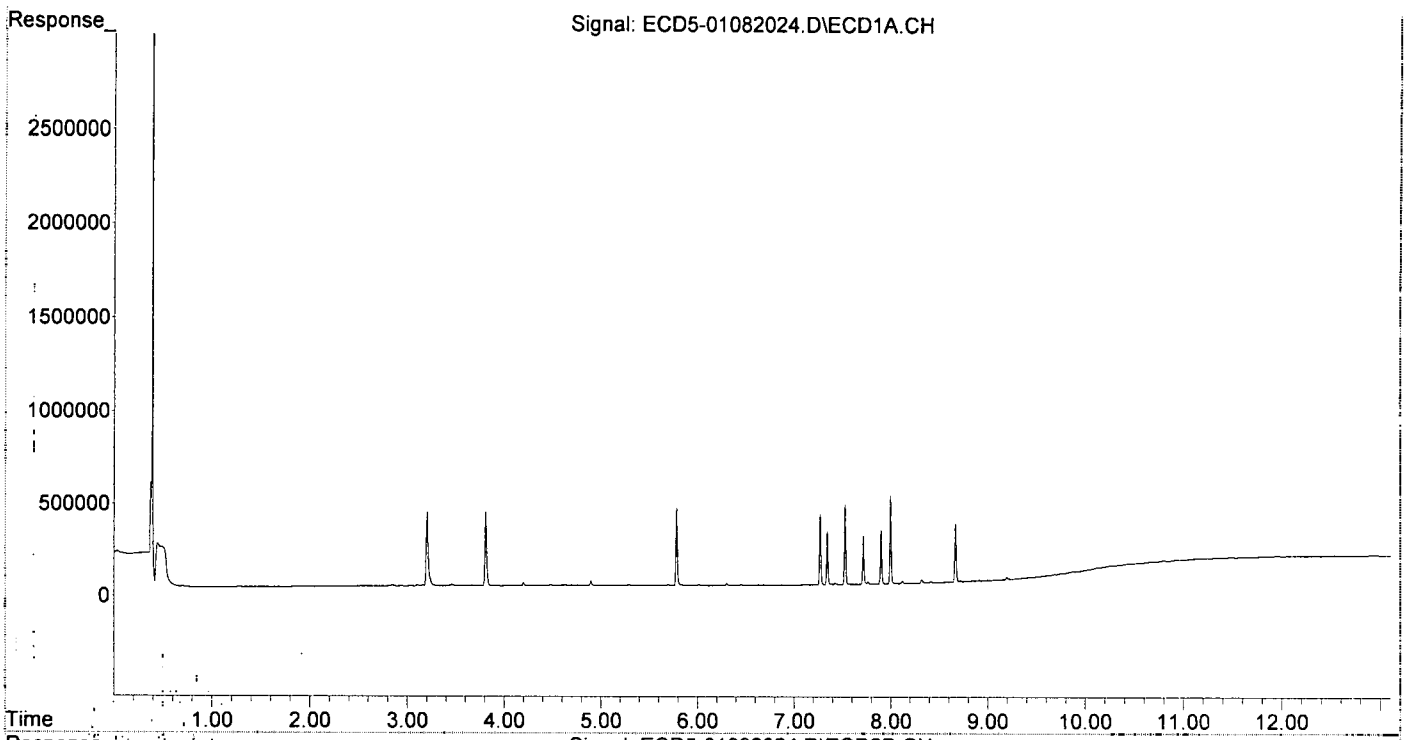
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.204	3.812	399253	769290	2.325	2.124
24)		Hexachlor...	5.783	6.595	418552	608347	2.518	2.076
25)		Oxychlordane	7.270	8.070	376867	529184	2.467	2.092
26)		2,4'-DDE	7.343	8.269	286330	399650	2.656	2.101
27)		trans-Non...	7.527	8.345	424879	574207	2.364	2.035
28)		2,4'-DDD	7.716	8.644	258533	345575	2.629	2.038
29)		2,4'-DDT	7.899	8.871	289368	367900	2.991	2.692
30)		cis-Nonac...	7.997	8.914	471473	627227	2.290	1.959
31)		Mirex	8.667	9.851	308615	390163	2.371	2.209
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

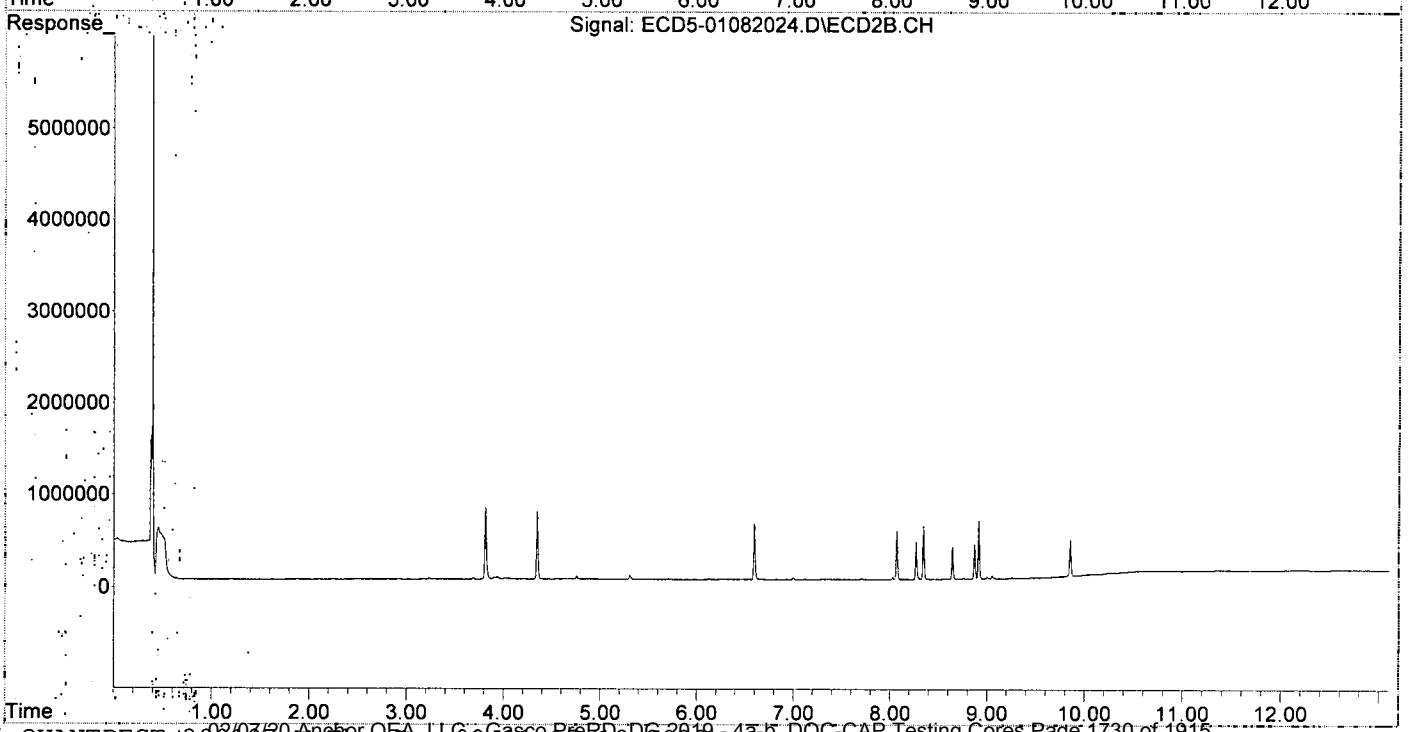
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 18:33
Operator : MJB
Sample : 0A08041-CALC
Misc : A19K264, 9-42 2 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: Jan 09 10:50:54 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 18:51
Operator : MJB
Sample : 0A08041-CALD
Misc : A19K265, 9-42 5 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: Jan 09 10:51:42 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

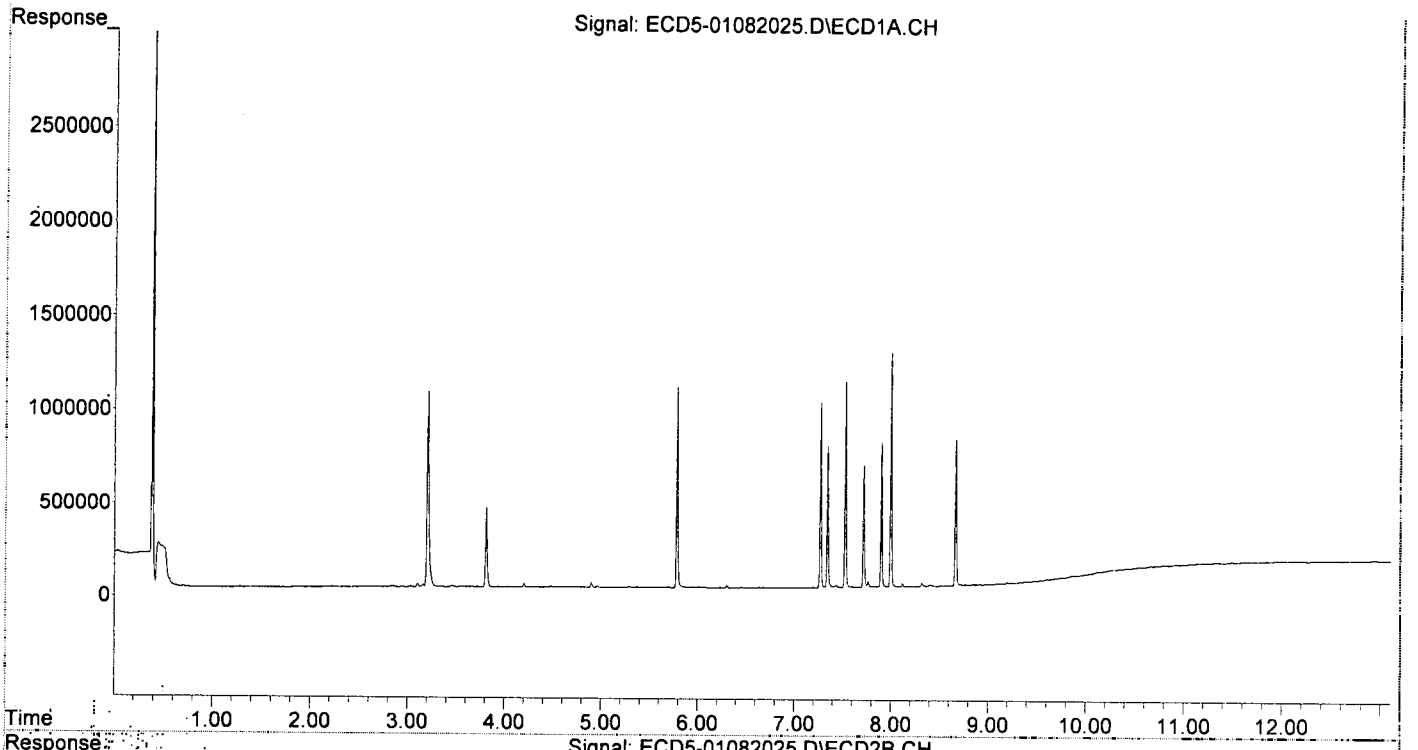
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.204	3.812	1045541	2029333	6.355	5.603
24)	Hexachlor...	5.783	6.595	1068601	1591805	6.695	5.432
25)	Oxychlordane	7.269	8.069	992877	1413459	6.791	5.587
26)	2,4'-DDE	7.342	8.269	750391	1064459	6.960	5.597
27)	trans-Non...	7.526	8.345	1102633	1536268	6.134	5.445
28)	2,4'-DDD	7.715	8.643	654513	924181	6.657	5.451
29)	2,4'-DDT	7.899	8.870	769647	1030344	7.954	7.619
30)	cis-Nonac...	7.996	8.913	1247247	1678168	6.057	5.241
31)	Mirex	8.666	9.850	779540	1002877	6.374	6.236
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

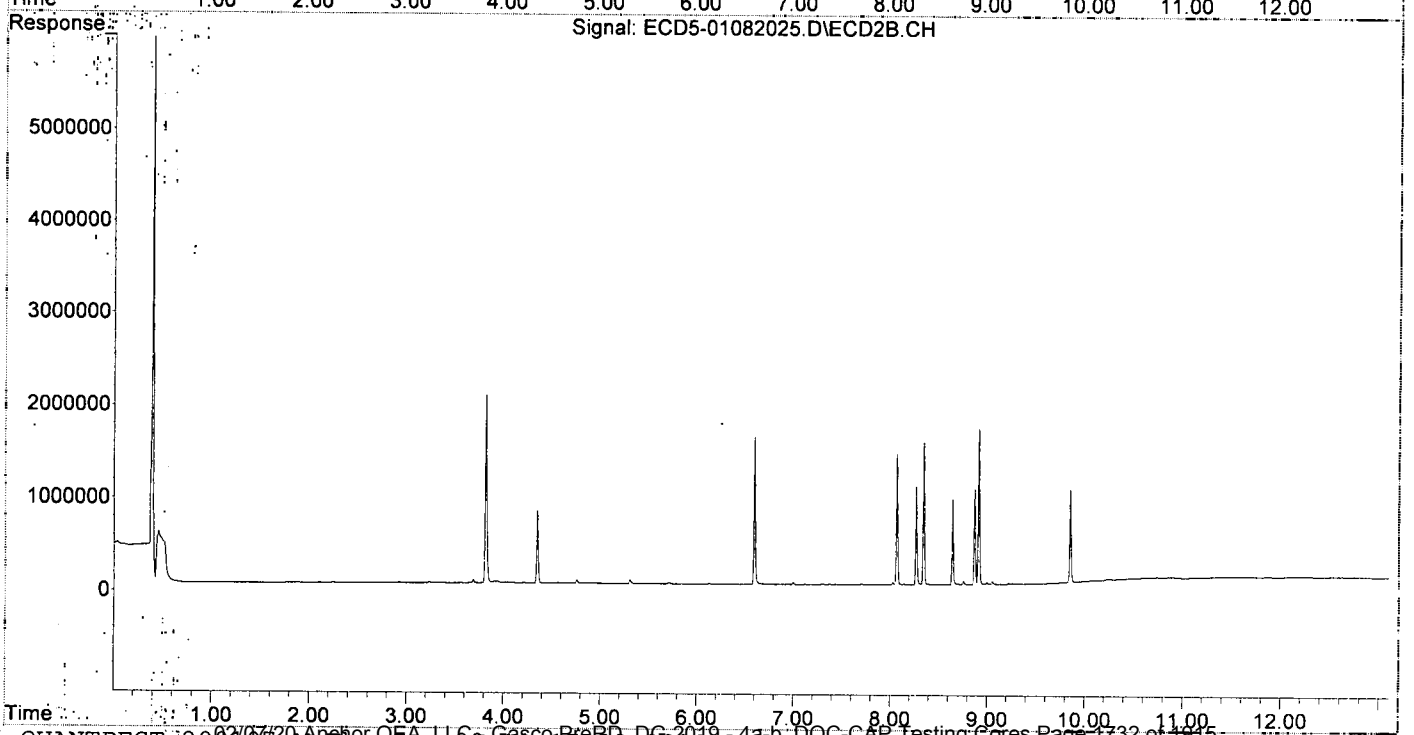
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 18:51
Operator : MJB
Sample : 0A08041-CALD
Misc : A19K265, 9-42 5 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: Jan 09 10:51:42 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:08
Operator : MJB
Sample : 0A08041-CALE
Misc : A19K266, 9-42 10 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: Jan 09 10:52:20 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

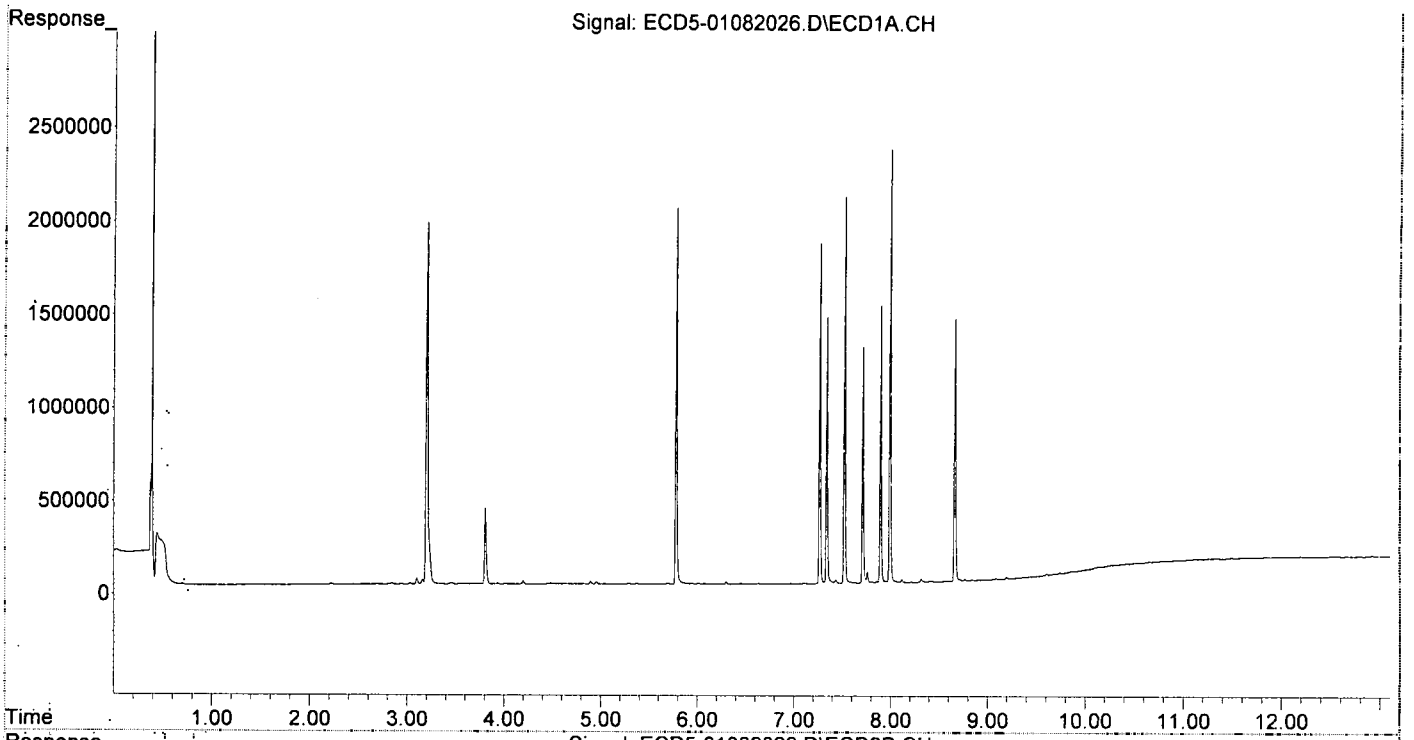
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.204	3.812	1945769	3803037	11.951	10.500
24)	Hexachlor...	5.782	6.594	2009121	3000124	12.672	10.239
25)	Oxychlordane	7.269	8.069	1829348	2670941	12.616	10.557
26)	2,4'-DDE	7.342	8.268	1426392	2004027	13.229	10.538
27)	trans-Non...	7.525	8.344	2076481	2924036	11.552	10.364
28)	2,4'-DDD	7.715	8.642	1263326	1737598	12.849	10.249
29)	2,4'-DDT	7.898	8.870	1485096	1992196	15.348	14.581
30)	cis-Nonac...	7.995	8.912	2325112	3312382	11.291	10.344
31)	Mirex	8.665	9.849	1404908	1814573	11.680	11.513
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

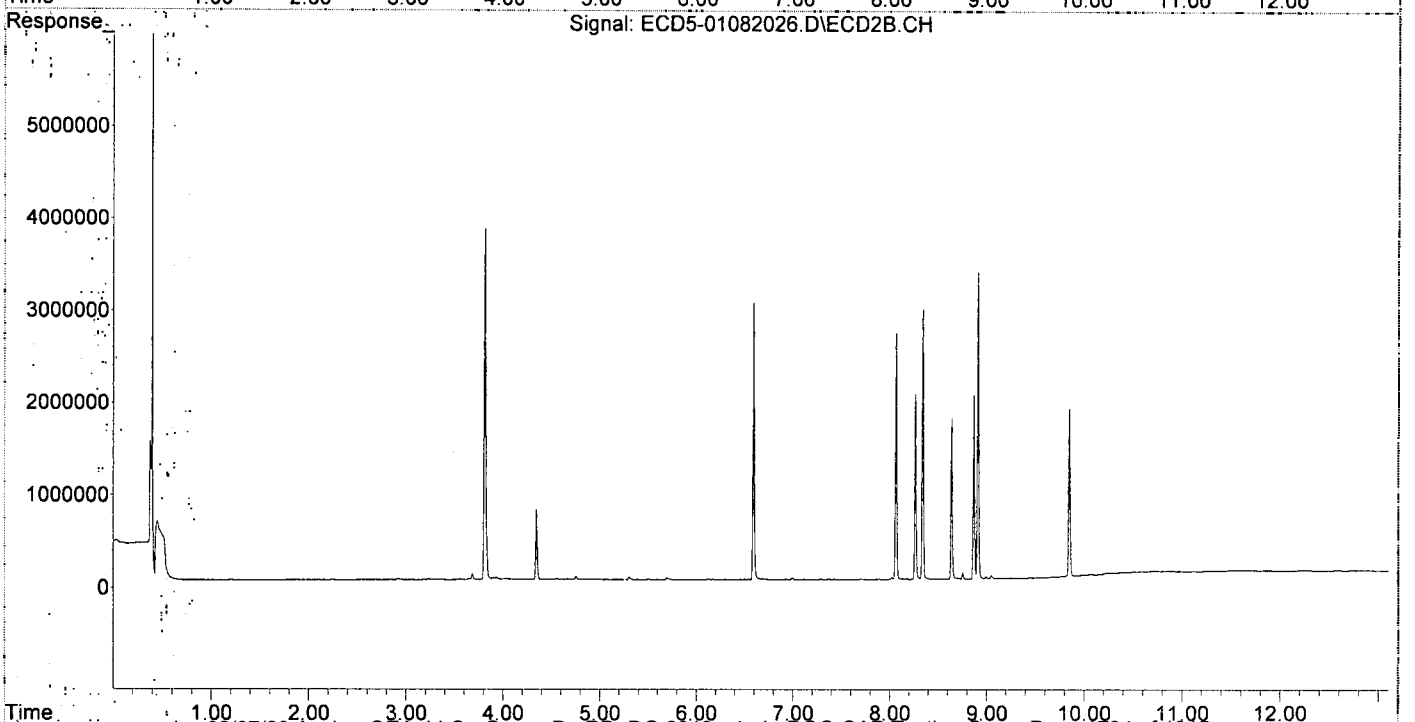
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:08
Operator : MJB
Sample : 0A08041-CALE
Misc : A19K266, 9-42 10 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: Jan 09 10:52:20 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:25
Operator : MJB
Sample : 0A08041-CALF
Misc : A19J407, 9-42 25 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: Jan 09 10:53:01 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

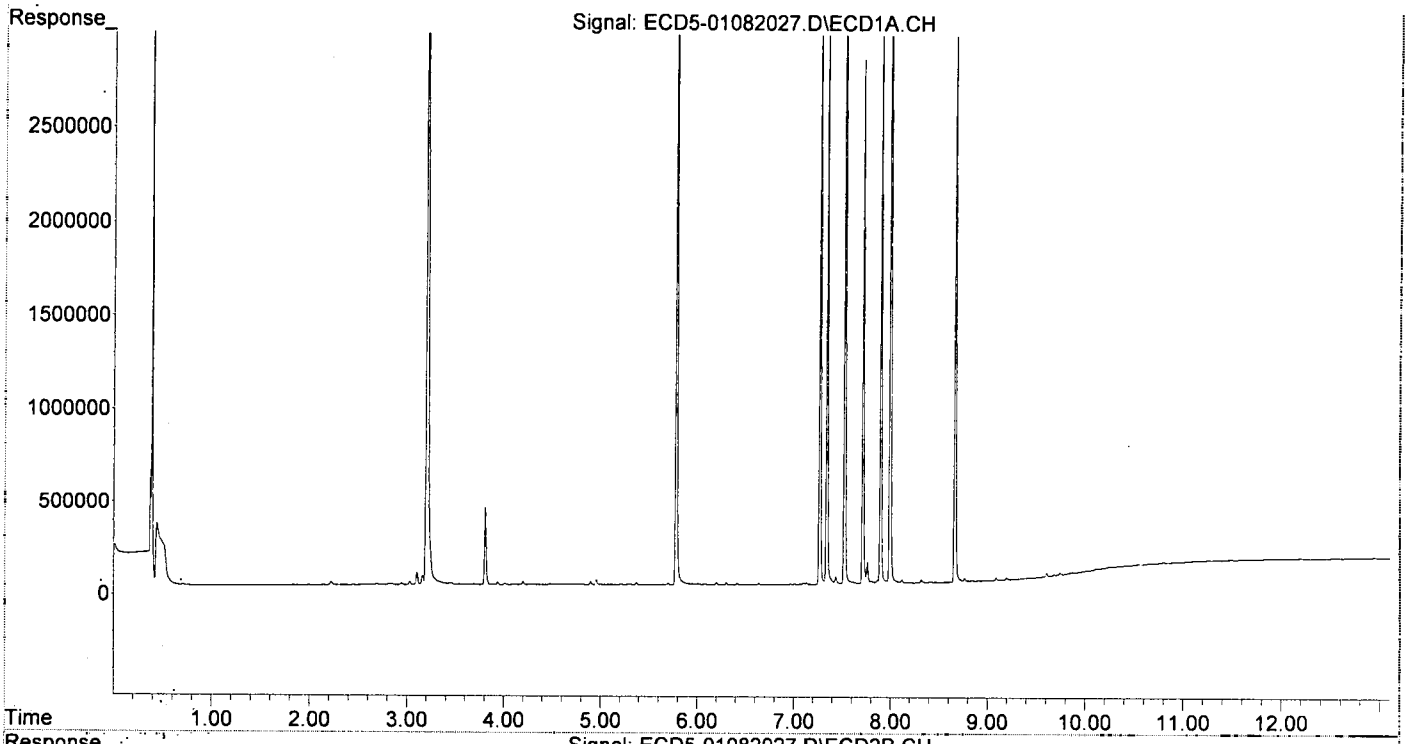
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.204	3.812	4597497	9313071	28.326	25.713
24)	Hexachlor...	5.782	6.594	4493137	7094857	28.091	24.213
25)	Oxychlordane	7.269	8.068	4098780	6058612	28.153	23.947
26)	2,4'-DDE	7.342	8.267	3149574	4686277	29.211	24.641
27)	trans-Non...	7.525	8.344	4606719	6806494	25.628	24.126
28)	2,4'-DDD	7.714	8.642	2775117	4001030	28.224	23.600
29)	2,4'-DDT	7.898	8.870	3121710	4507962	32.262	31.851
30)	cis-Nonac...	7.996	8.912	5230489	7616878	25.400	23.787
31)	Mirex	8.665	9.850	3051838	4062388	25.597	25.799
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

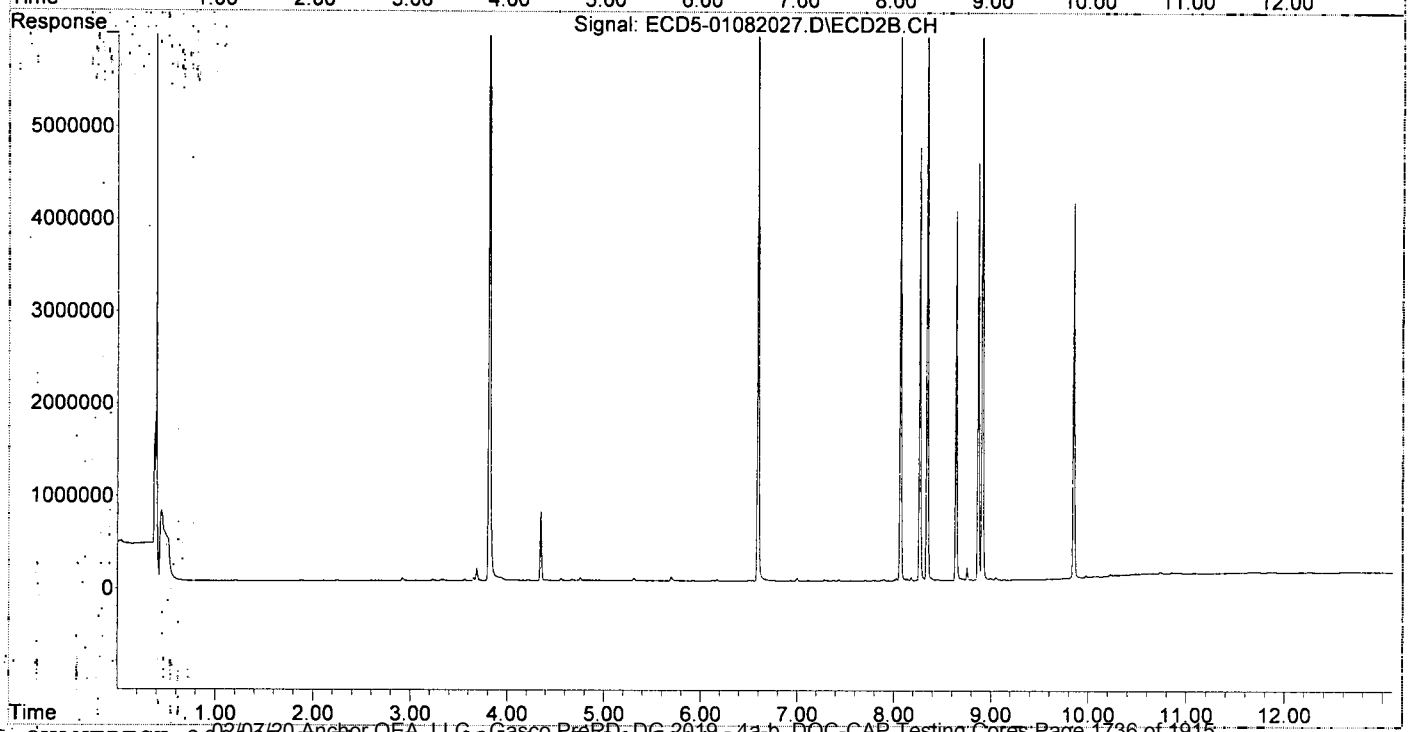
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:25
Operator : MJB
Sample : 0A08041-CALF
Misc : A19J407, 9-42 25 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: Jan 09 10:53:01 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:42
Operator : MJB
Sample : 0A08041-CALG
Misc : A19J408, 9-42 50 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: Jan 09 10:48:30 2020
Quant Method: R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:25:24 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MP 1/9/20

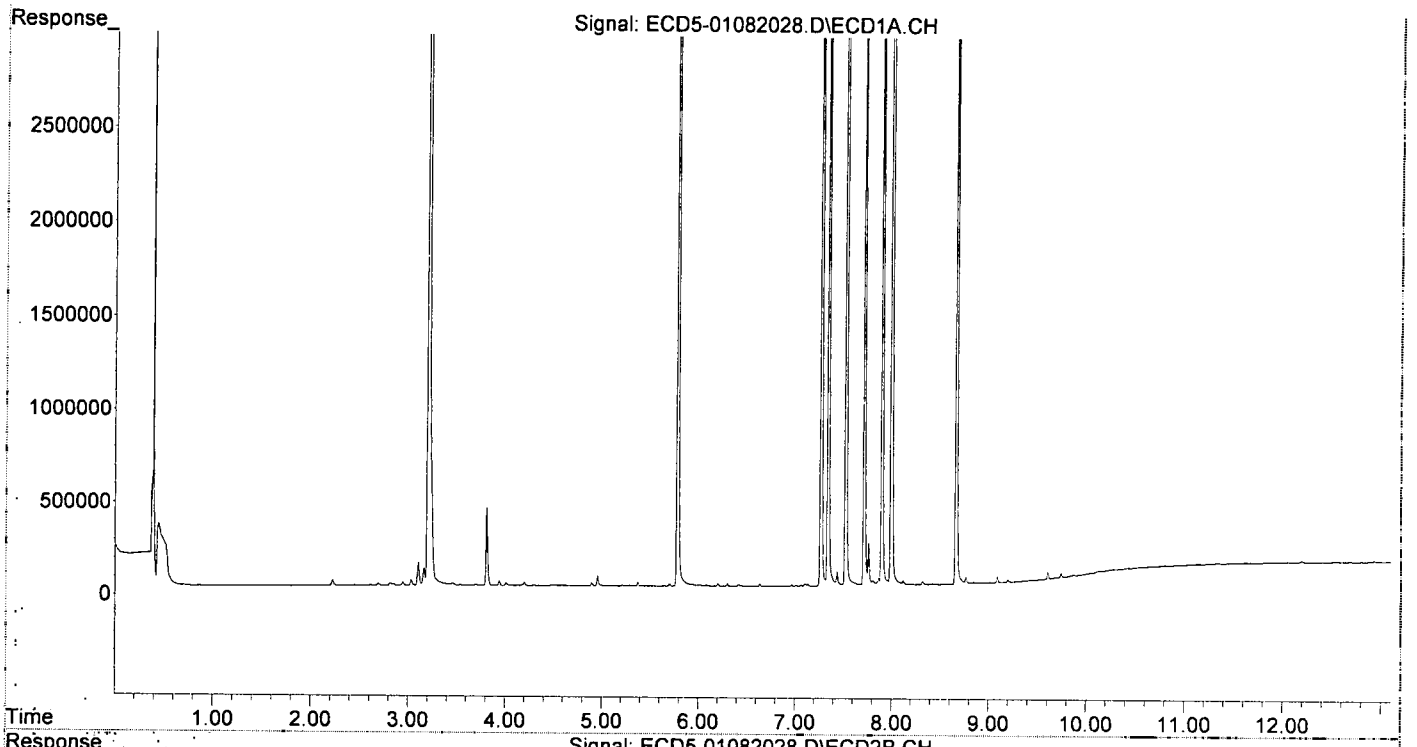
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	3.205	3.813	9074096	18914087	55.606	52.221
24)		Hexachlor...	5.783	6.594	9072972	14722842	55.268	50.245
25)		Oxychlordane	7.269	8.069	8215656	12801082	55.423	50.598
26)		2,4'-DDE	7.342	8.268	6308999	9671234	58.514	50.853
27)		trans-Non...	7.525	8.344	9587997	14237107	53.340	50.464
28)		2,4'-DDD	7.715	8.643	5793992	8525916	58.927	50.289
29)		2,4'-DDT	7.898	8.870	6696394	9539513	69.206	63.156
30)		cis-Nonac...	7.996	8.913	10691936	16481609	51.923	51.471
31)		Mirex	8.664	9.849	6228349	8711340	52.219	53.974
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

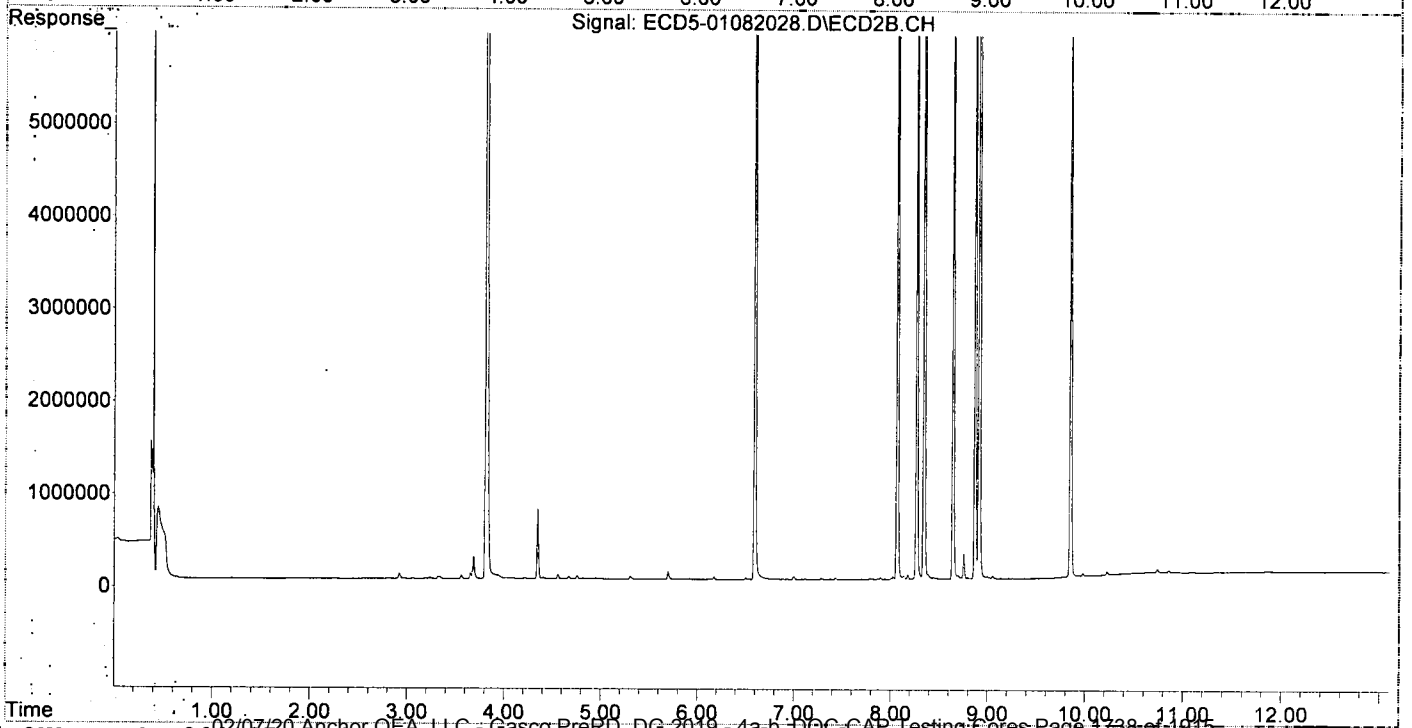
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:42
Operator : MJB
Sample : 0A08041-CALG
Misc : A19J408, 9-42 50 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: Jan 09 10:48:30 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Wed Jan 08 17:25:24 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:59
Operator : MJB
Sample : 0A08041-CALH
Misc : A19J409, 9-42 100 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: Jan 09 10:53:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJF 1/9/20

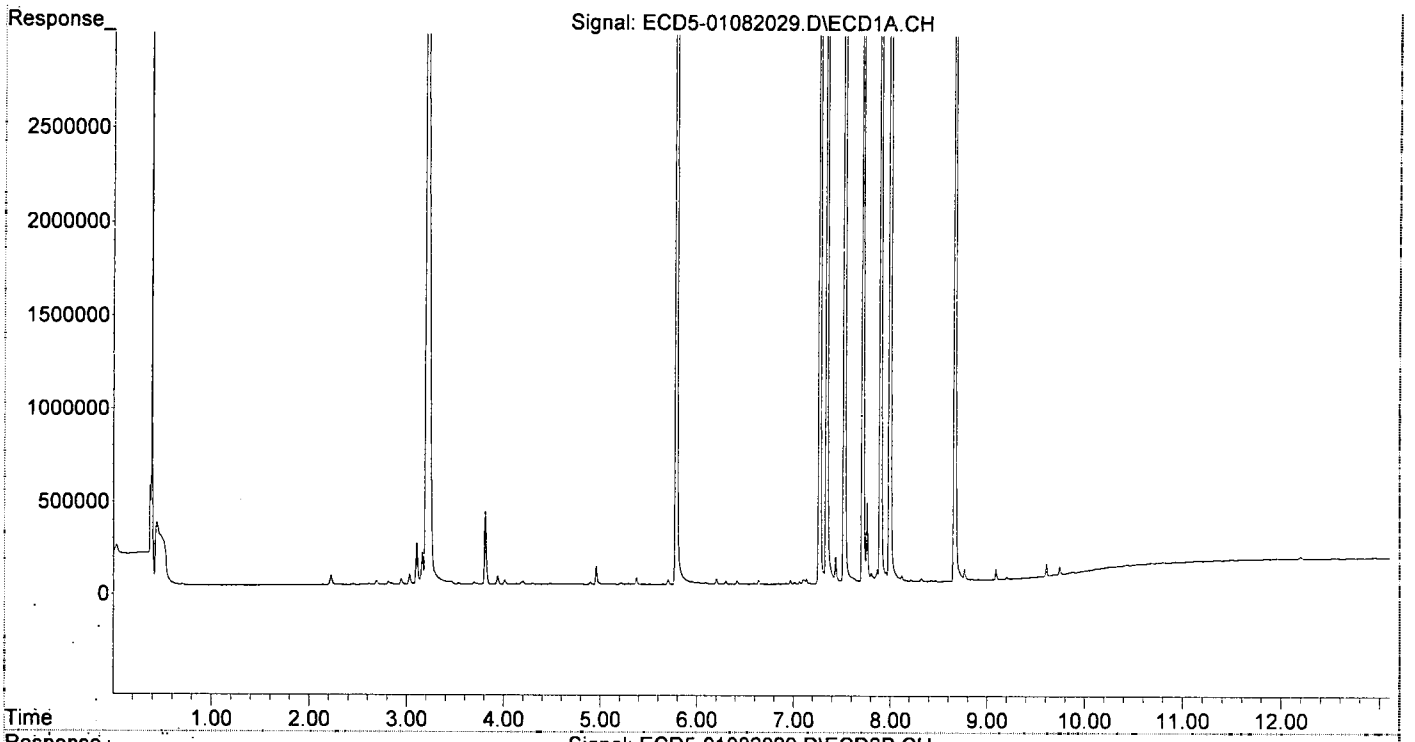
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.206	3.815	17394566	38229851	105.161	105.551
24)	Hexachlor...	5.784	6.596	18585378	32205210	107.439	109.908
25)	Oxychlordane	7.268	8.069	16805225	27140079	109.028	107.274
26)	2,4'-DDE	7.342	8.268	12901574	20763038	119.659	109.177
27)	trans-Non...	7.525	8.345	19039022	30738362	105.918	108.953
28)	2,4'-DDD	7.714	8.643	11692511	18437918	118.918	108.755
29)	2,4'-DDT	7.898	8.871	13018738	21210506	134.546	124.733
30)	cis-Nonac...	7.995	8.914	21489716	34383242	104.359	107.378
31)	Mirex	8.665	9.850	12402281	18148608	103.158	106.532
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

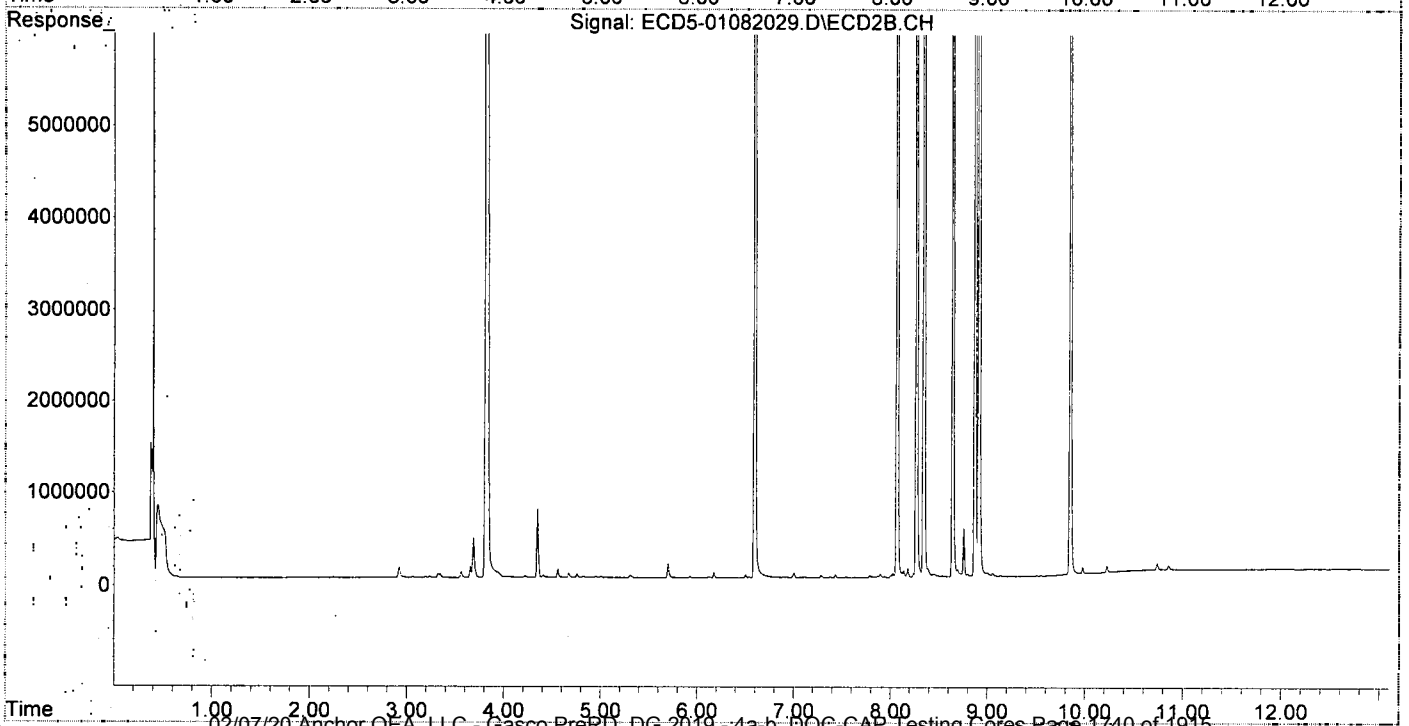
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 19:59
Operator : MJB
Sample : 0A08041-CALH
Misc : A19J409, 9-42 100 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: Jan 09 10:53:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 20:16
Operator : MJB
Sample : 0A08041-CALI
Misc : A19K262, 9-42 200 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: Jan 09 10:54:22 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

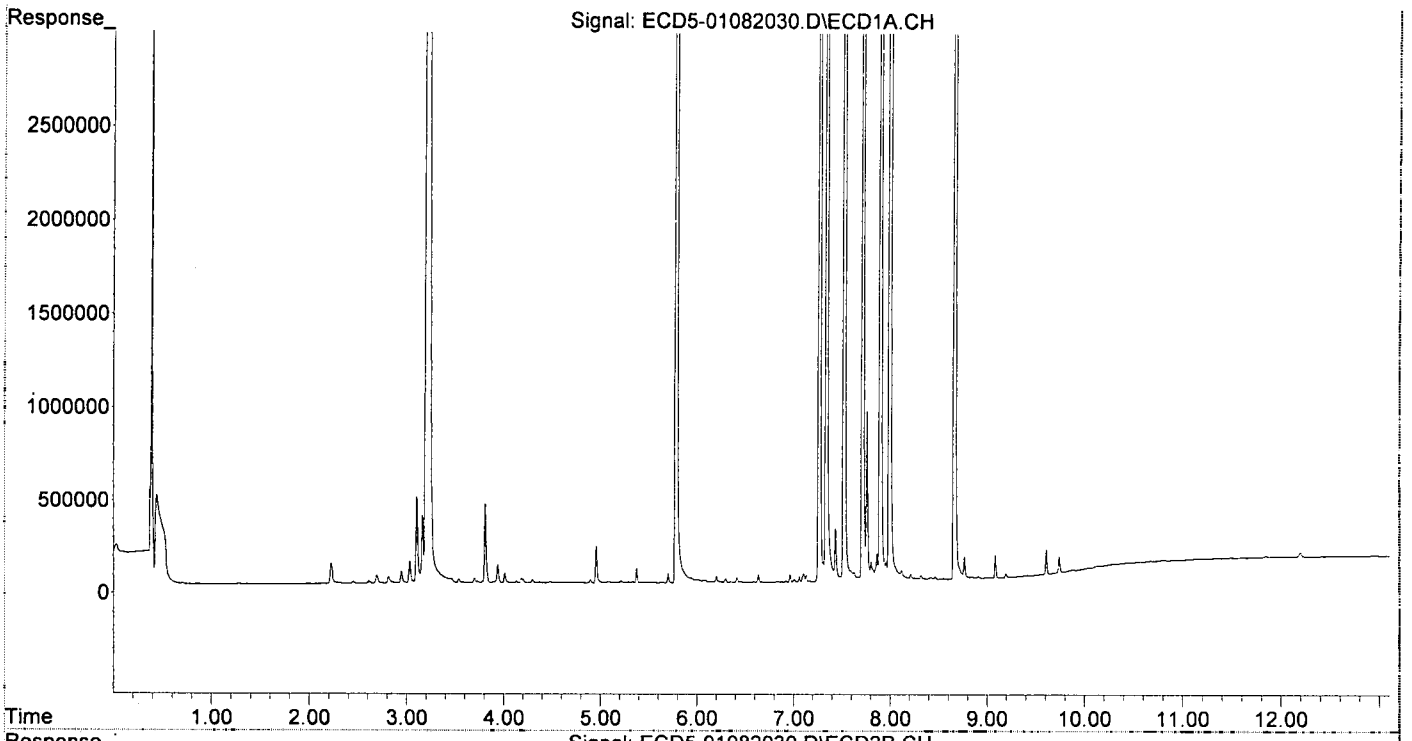
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	3.207	3.816	39175750	89386875	228.590	246.793
24)	Hexachlor...	5.785	6.596	40170217	72028476	210.537	245.814
25)	Oxychlordane	7.268	8.070	37392659	64166951	223.707	253.627
26)	2,4'-DDE	7.341	8.269	28334770	48551140	262.798	255.292
27)	trans-Non...	7.524	8.345	42021101	70596801	233.773	250.232
28)	2,4'-DDD	7.714	8.644	25551013	43266219	259.864	255.202
29)	2,4'-DDT	7.898	8.871	30632011	51802491	316.576	248.573
30)	cis-Nonac...	7.995	8.914	46693209	82216113	226.753	256.758
31)	Mirex	8.664	9.851	27850544	43923618	226.322	228.660
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

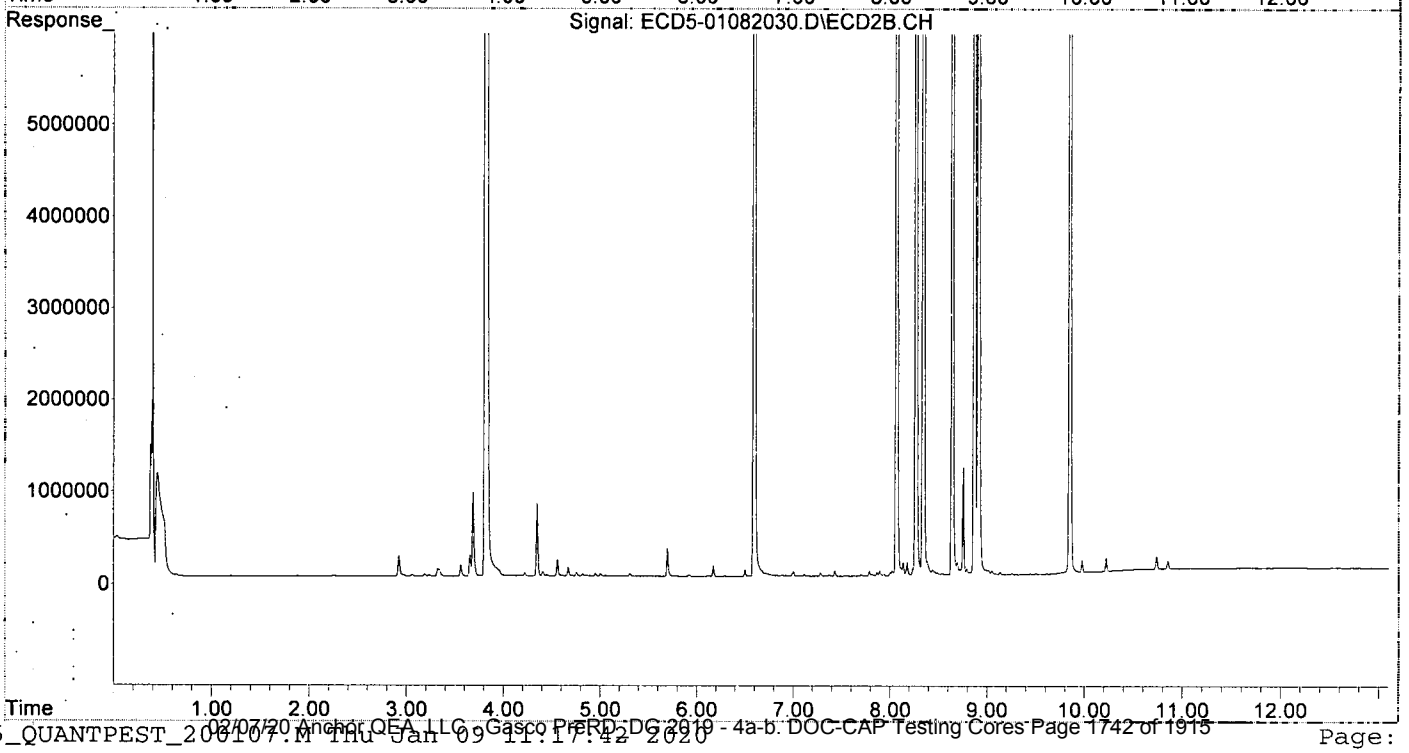
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 20:16
Operator : MJB
Sample : 0A08041-CALI
Misc : A19K262, 9-42 200 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: Jan 09 10:54:22 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:07
Operator : MJB
Sample : 0A08041-CALJ
Misc : A20A097, CHLOR 10 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: Jan 09 10:56:50 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 1/9/20

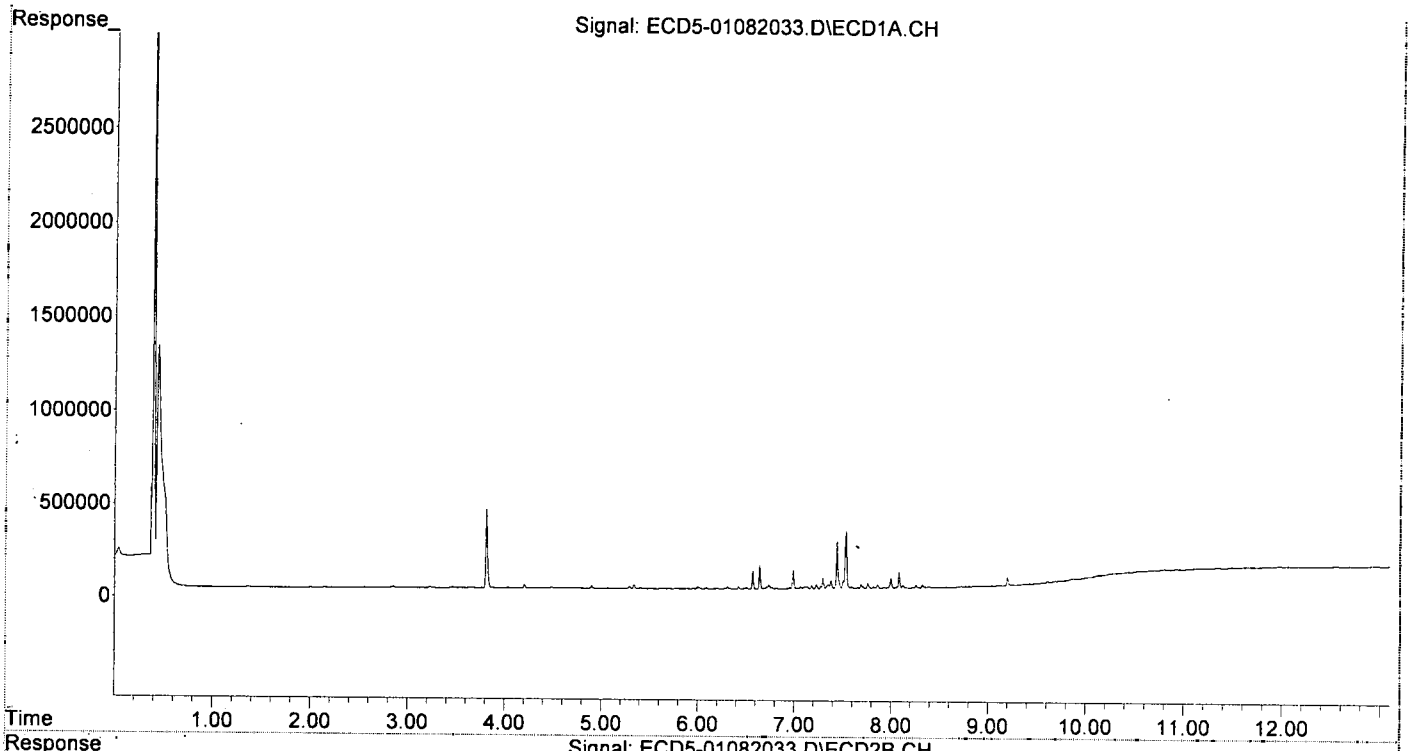
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.440	8.283	252150	382772	13.197	11.271
33)	Chlordane...	7.533	8.391	308195	324236	13.680	11.224
34)	Chlordane...	8.082	9.059	86683	125739	15.186	2.515 #
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

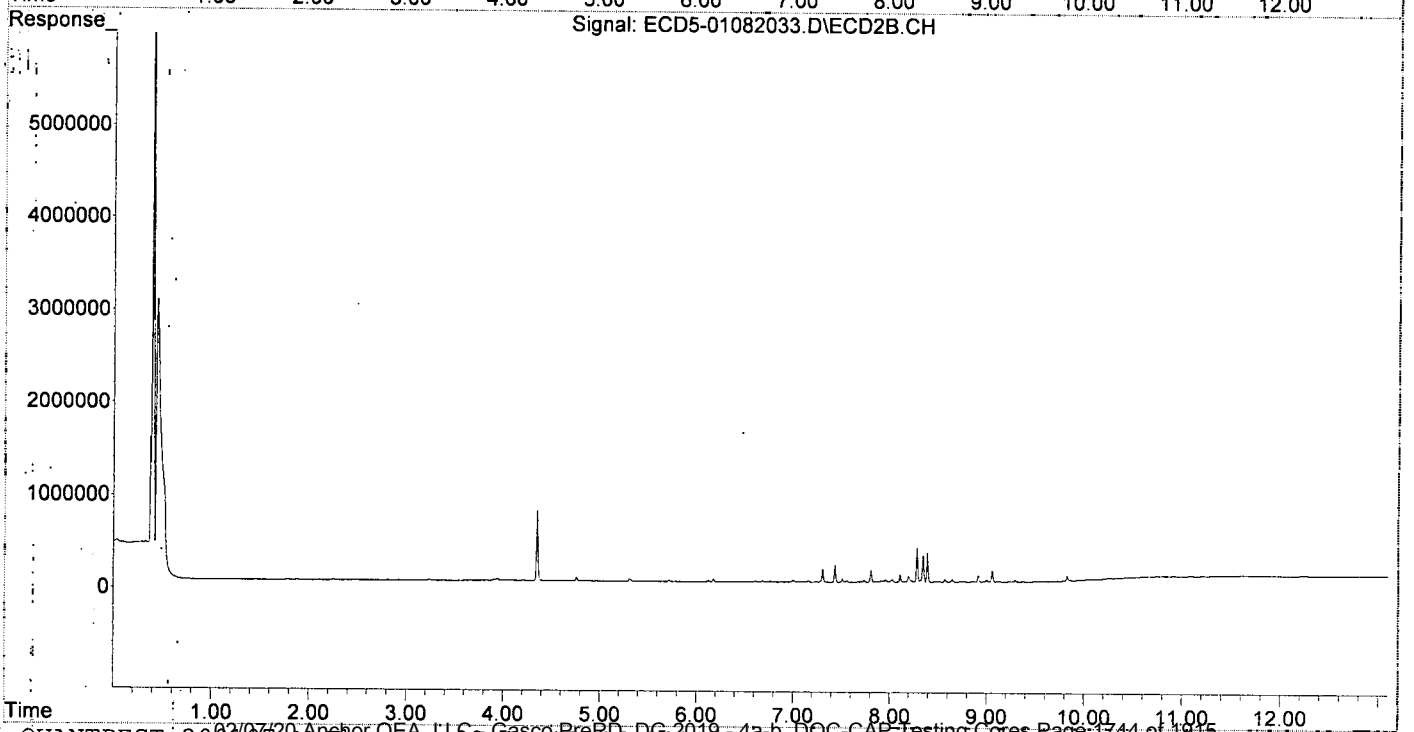
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:07
Operator : MJB
Sample : 0A08041-CALJ
Misc : A20A097, CHLOR 10 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: Jan 09 10:56:50 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:25
Operator : MJB
Sample : 0A08041-CALK
Misc : A19K307, CHLOR 50 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: Jan 09 10:57:35 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MB 1/9/20

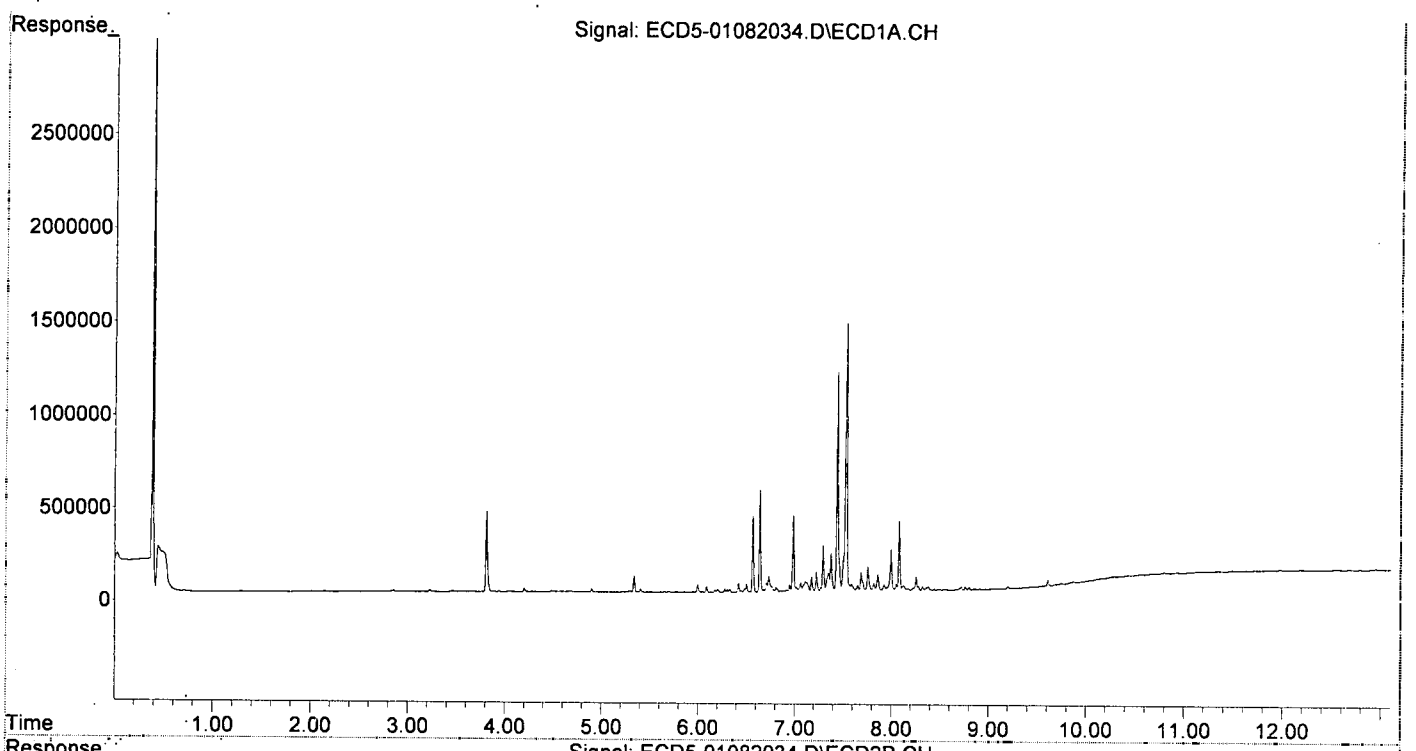
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.438	8.282	1178611	1787106	61.686	52.624
33)	Chlordane...	7.531	8.389	1443194	1486141	64.061	51.447
34)	Chlordane...	8.080	9.057	377844	498592	66.195	50.592
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

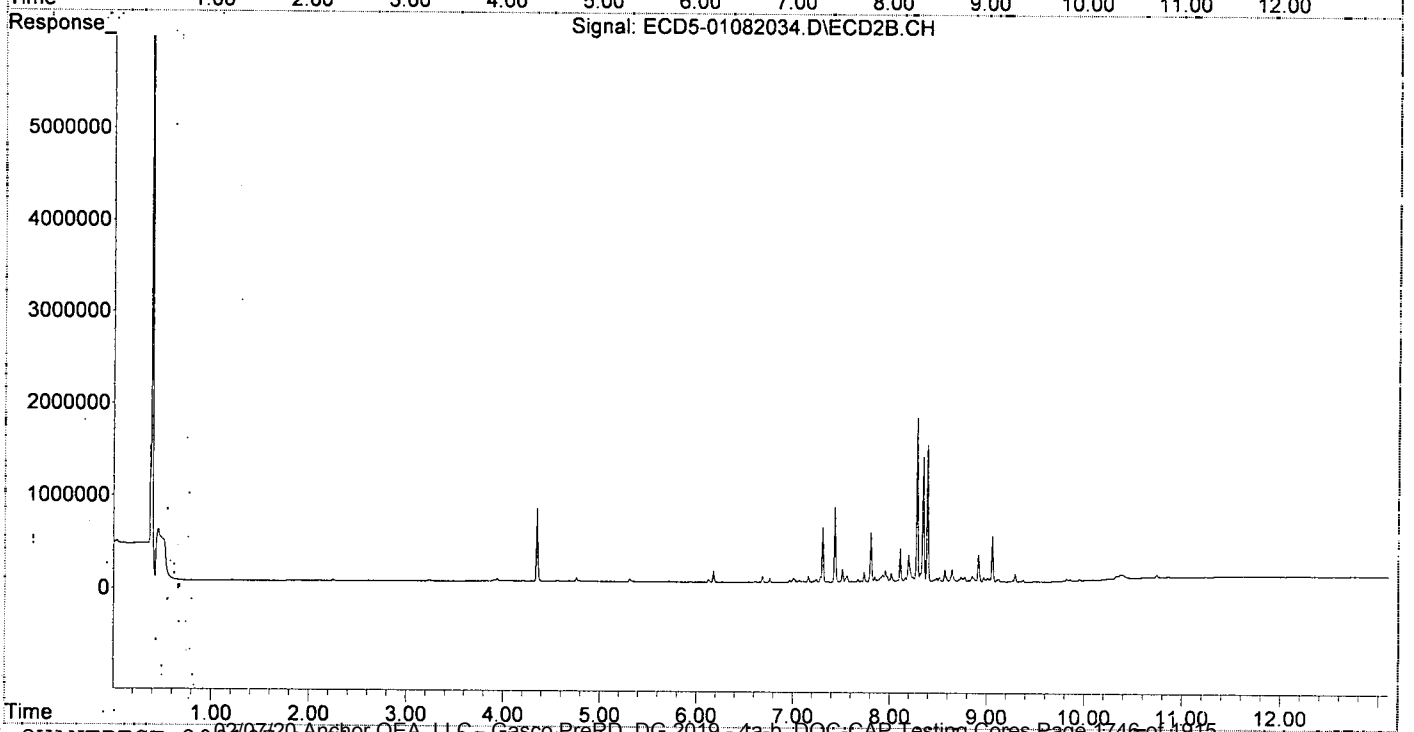
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:25
Operator : MJB
Sample : 0A08041-CALK
Misc : A19K307, CHLOR 50 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: Jan 09 10:57:35 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:42
Operator : MJB
Sample : 0A08041-CALL
Misc : A19K308, CHLOR 100 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: Jan 09 10:58:11 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

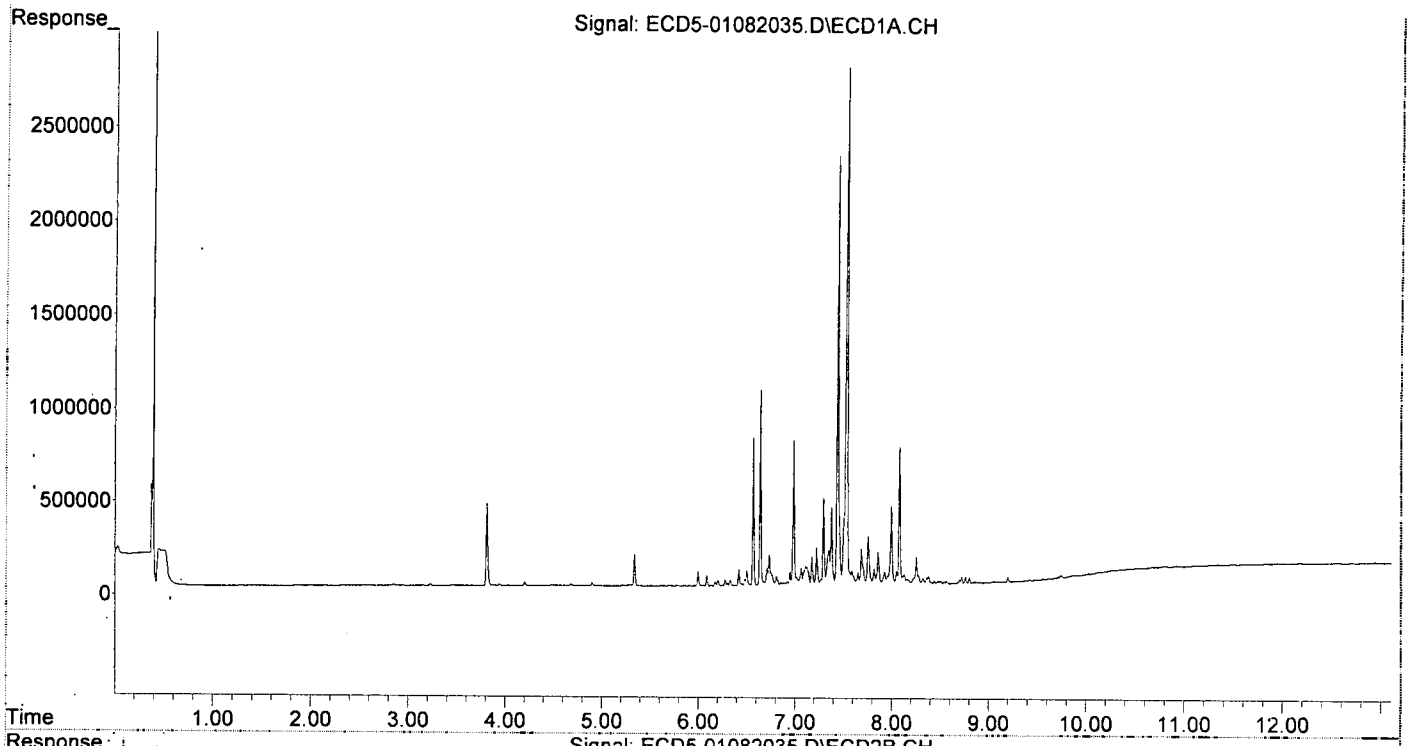
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.439	8.282	2294923	3516336	120.111	103.543
33)	Chlordane...	7.531	8.389	2780199	2986956	123.408	103.402
34)	Chlordane...	8.080	9.058	729916	972427	127.875	111.196
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

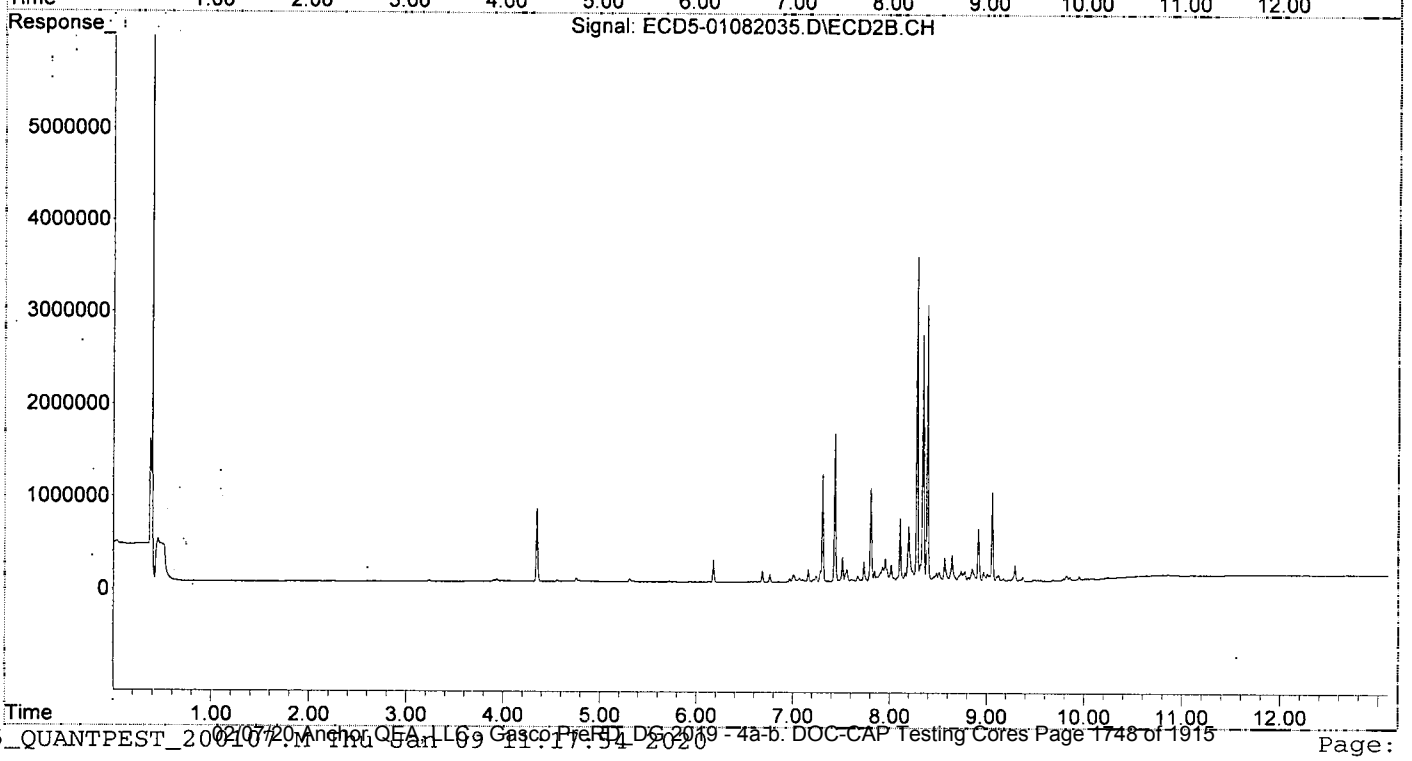
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:42
Operator : MJB
Sample : 0A08041-CALL
Misc : A19K308, CHLOR 100 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: Jan 09 10:58:11 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:59
Operator : MJB
Sample : 0A08041-CALM
Misc : A19K309, CHLOR 200 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: Jan 09 10:58:49 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

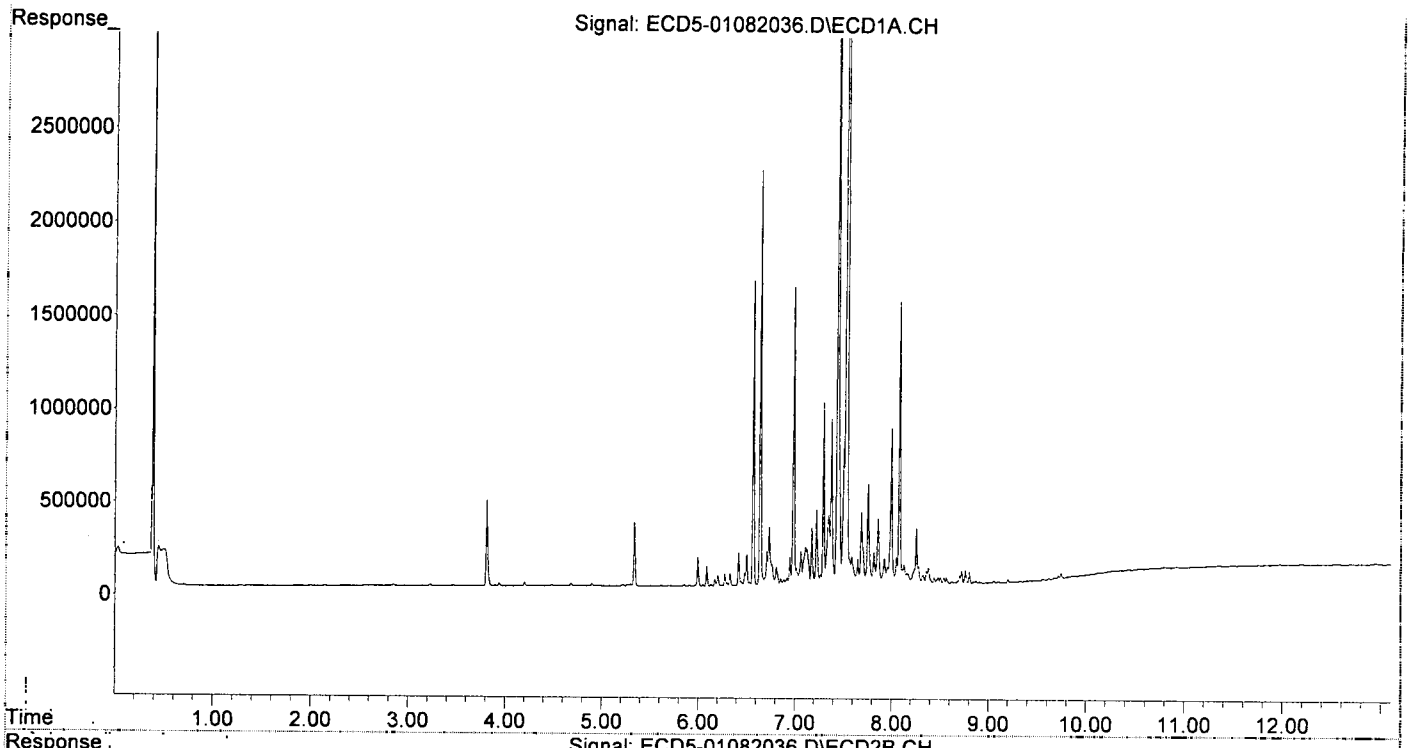
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.438	8.281	4793058	7736201	250.857	227.803
33)	Chlordane...	7.531	8.389	5801810	6344746	257.533	219.641
34)	Chlordane...	8.080	9.058	1505062	2047397	263.675	246.714
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

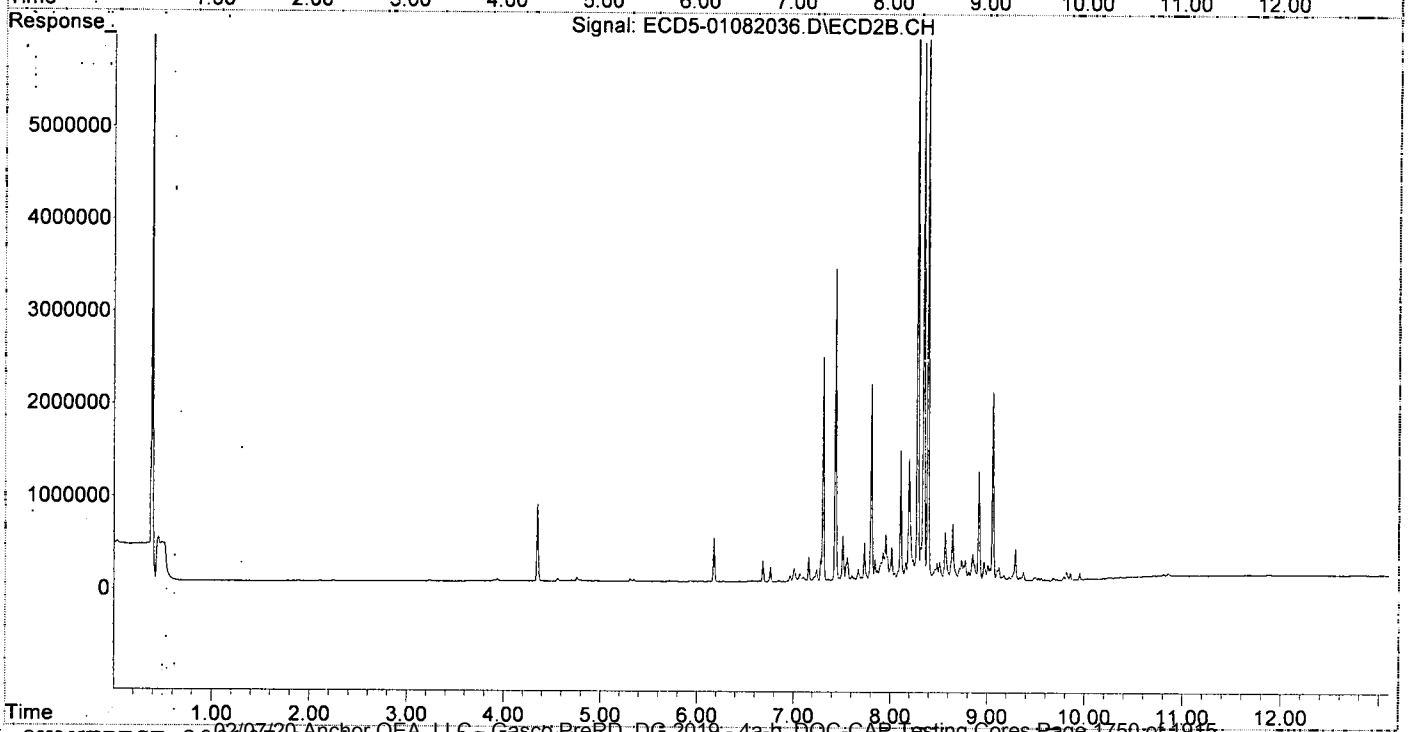
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 21:59
Operator : MJB
Sample : 0A08041-CALM
Misc : A19K309, CHLOR 200 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: Jan 09 10:58:49 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 22:16
Operator : MJB
Sample : 0A08041-CALN
Misc : A19K310, CHLOR 500 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: Jan 09 10:55:39 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

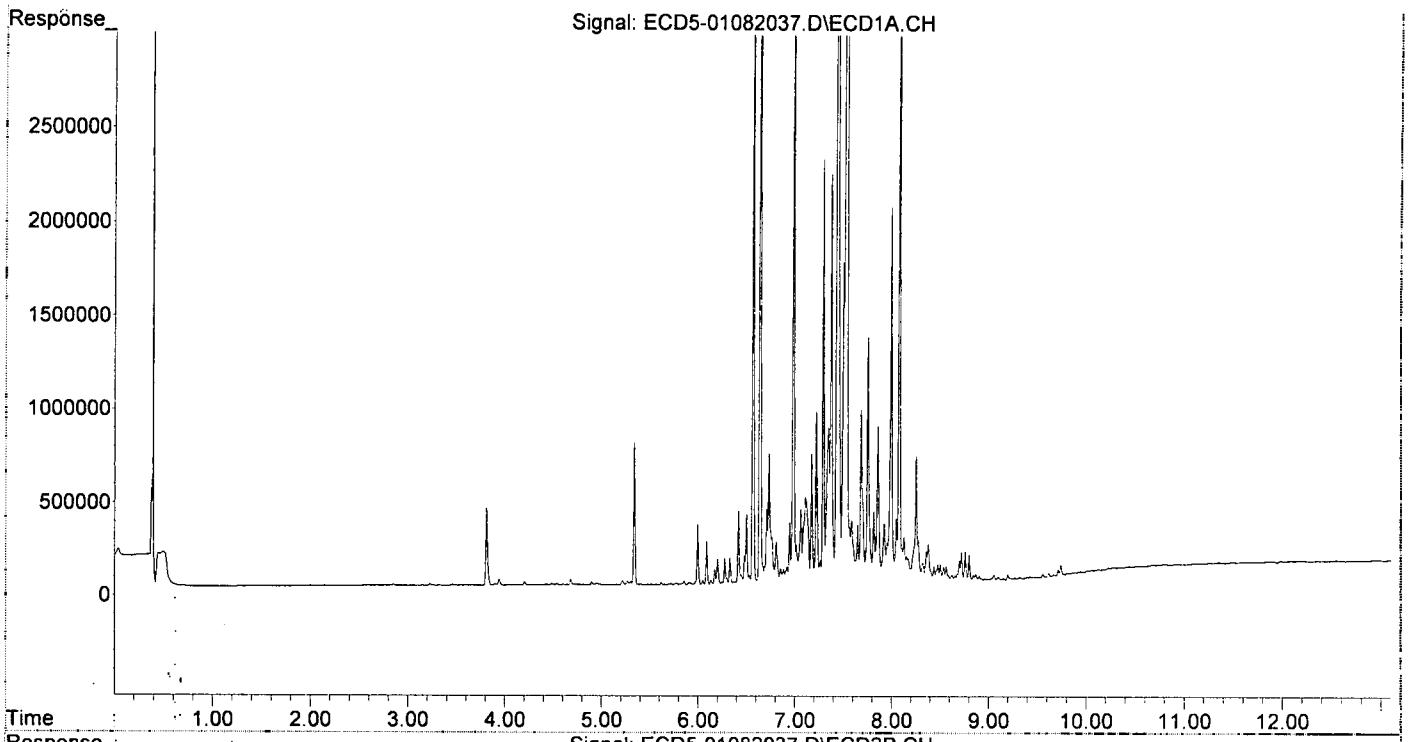
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.437	8.282	11206289	19234034	586.509	566.373
33)	Chlordane...	7.530	8.389	13908359	15819527	617.369	547.638
34)	Chlordane...	8.080	9.058	3625557	5010516	635.168	607.184
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

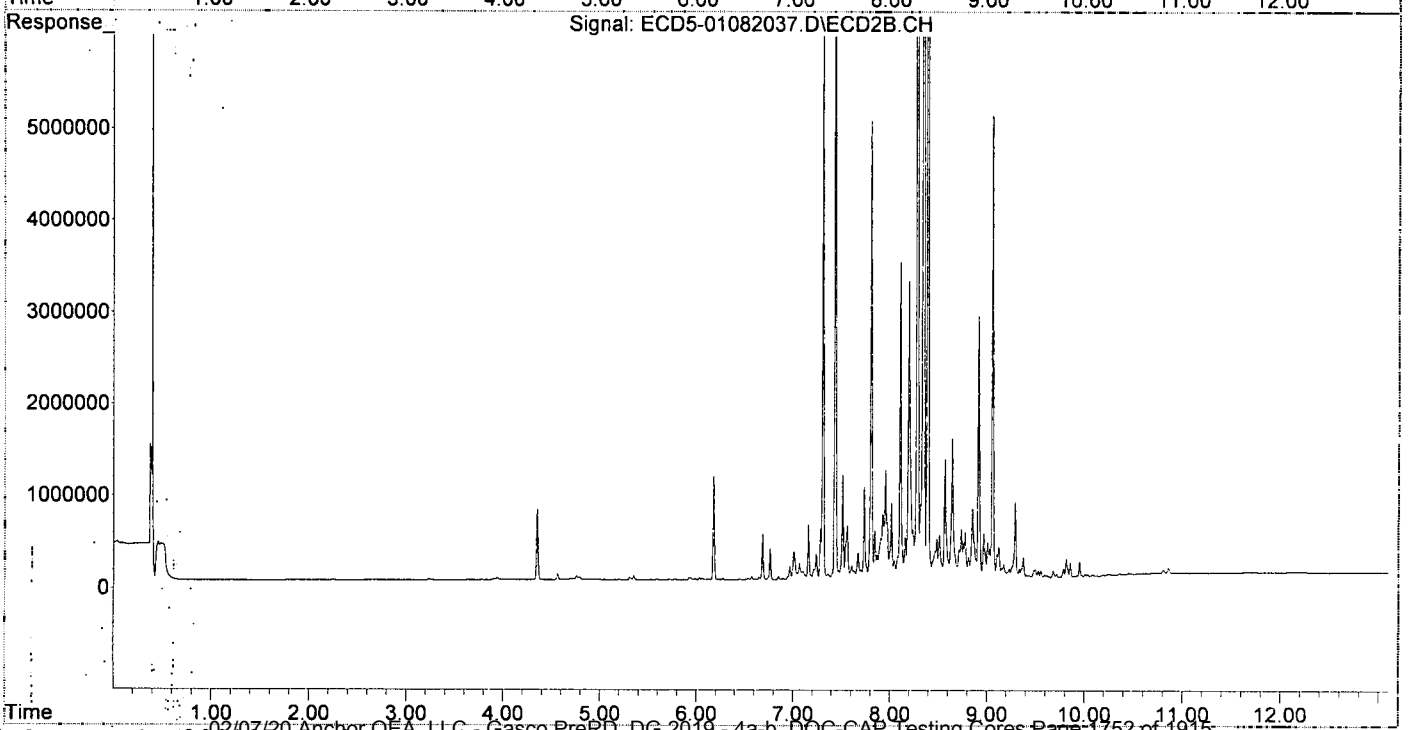
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 22:16
Operator : MJB
Sample : 0A08041-CALN
Misc : A19K310, CHLOR 500 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: Jan 09 10:55:39 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:48:41 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 22:33
Operator : MJB
Sample : 0A08041-CALO
Misc : CA19K311, CHLOR 1000 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: Jan 09 10:59:33 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

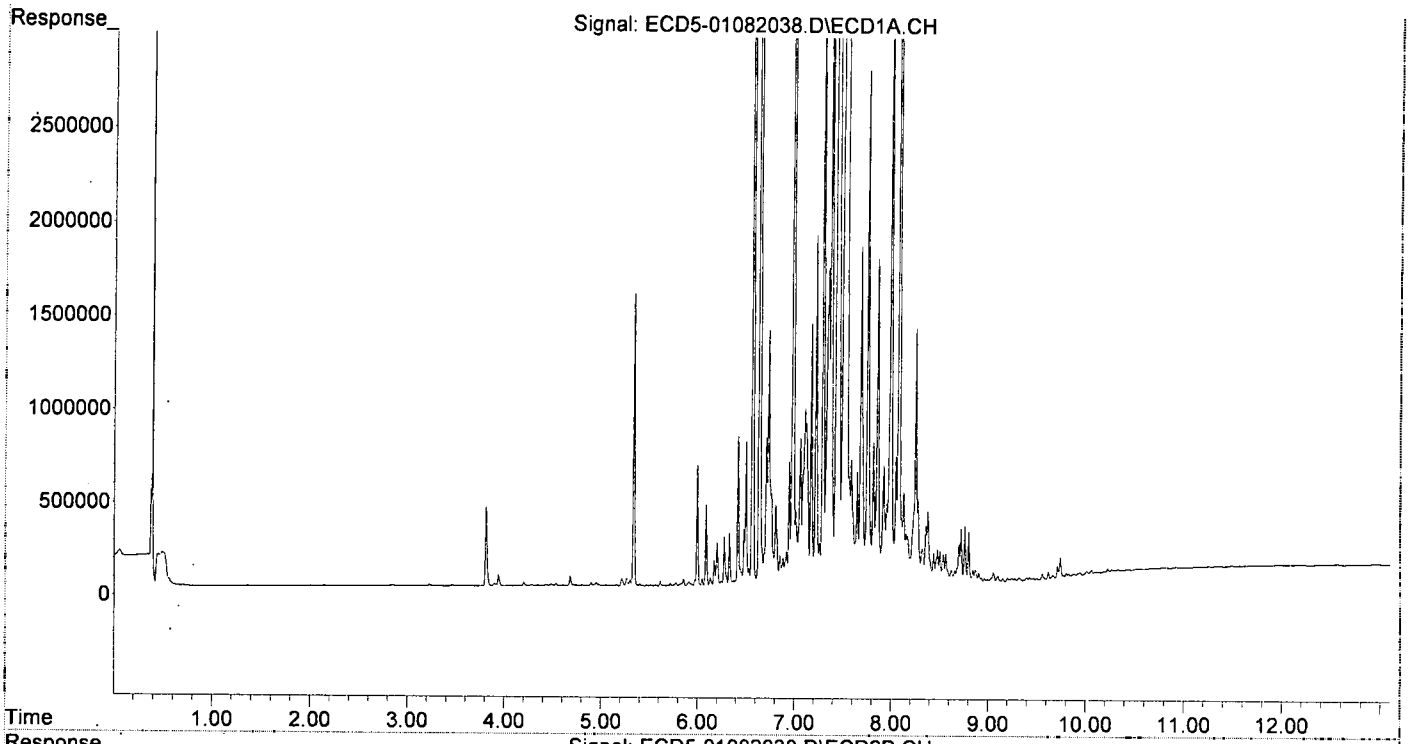
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.436	8.282	23306867	41815031	1219.823	1231.302
33)	Chlordane...	7.530	8.390	28733989	33826481	1275.454	1171.000
34)	Chlordane...	8.079	9.058	7448098	10569130	1304.847	1239.129
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

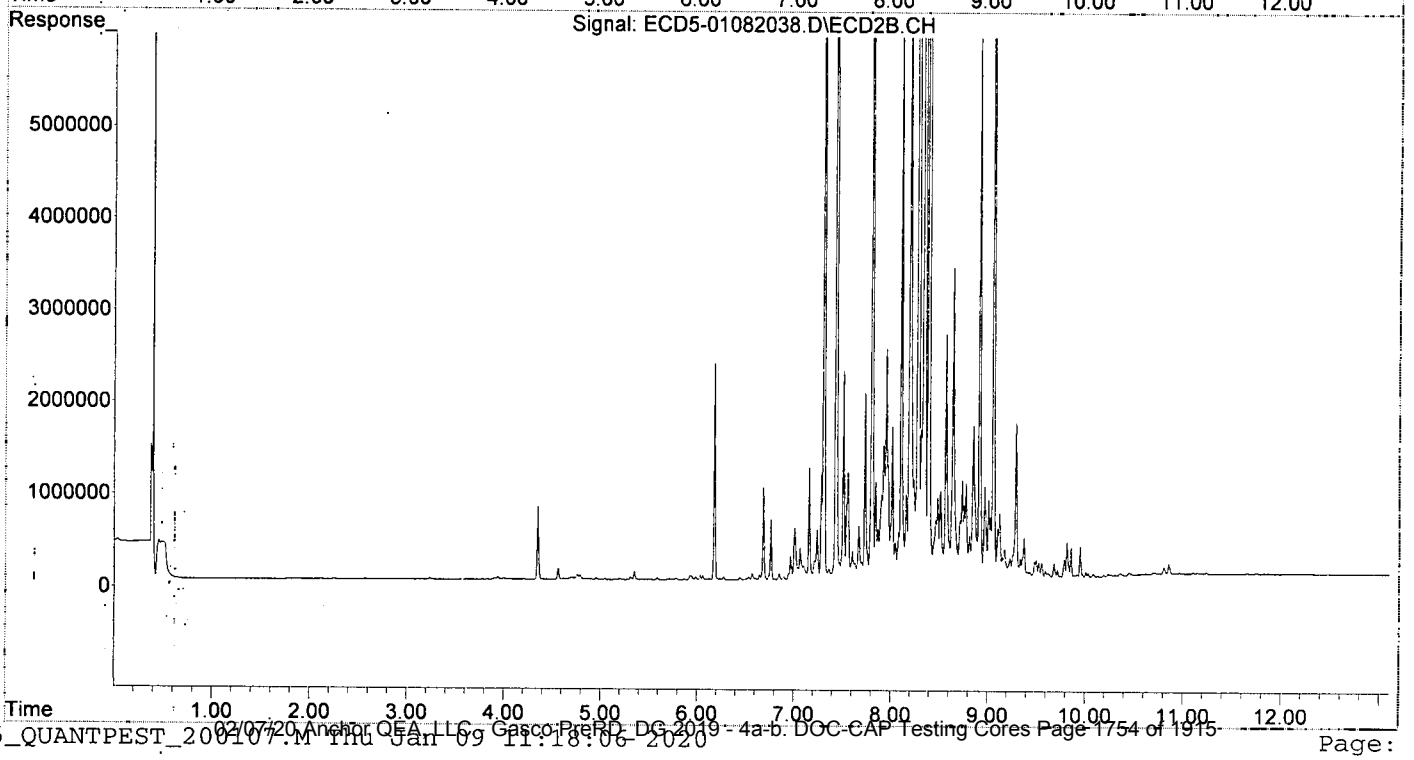
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 22:33
Operator : MJB
Sample : 0A08041-CALO
Misc : A19K311, CHLOR 1000 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: Jan 09 10:59:33 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 22:50
Operator : MJB
Sample : 0A08041-CALP
Misc : A19K306, CHLOR 2000 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: Jan 09 11:00:12 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

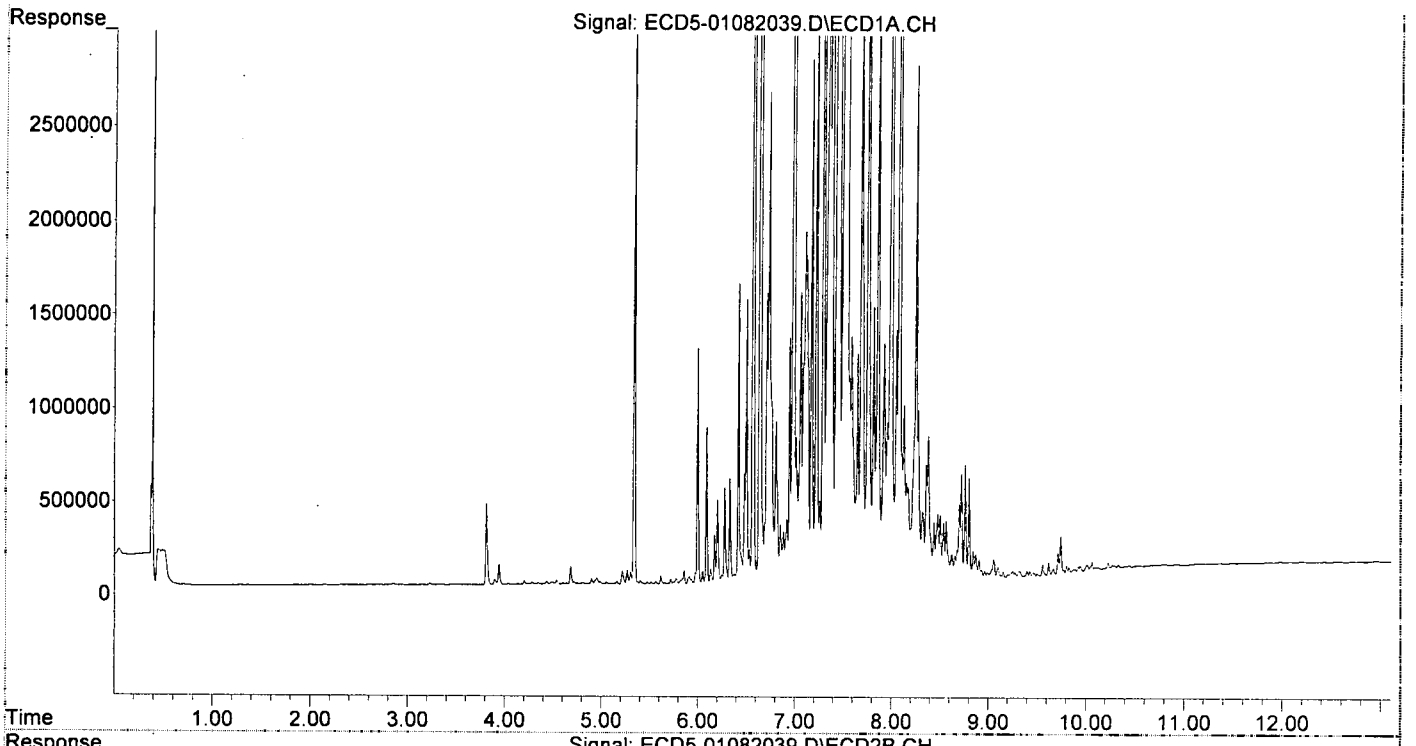
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.438	8.285	45620260	88263621	2387.651	2599.045
33)	Chlordane...	7.532	8.392	57400215	70960383	2547.901	2456.495
34)	Chlordane...	8.081	9.060	15008543	22453950	2629.376	2444.230
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

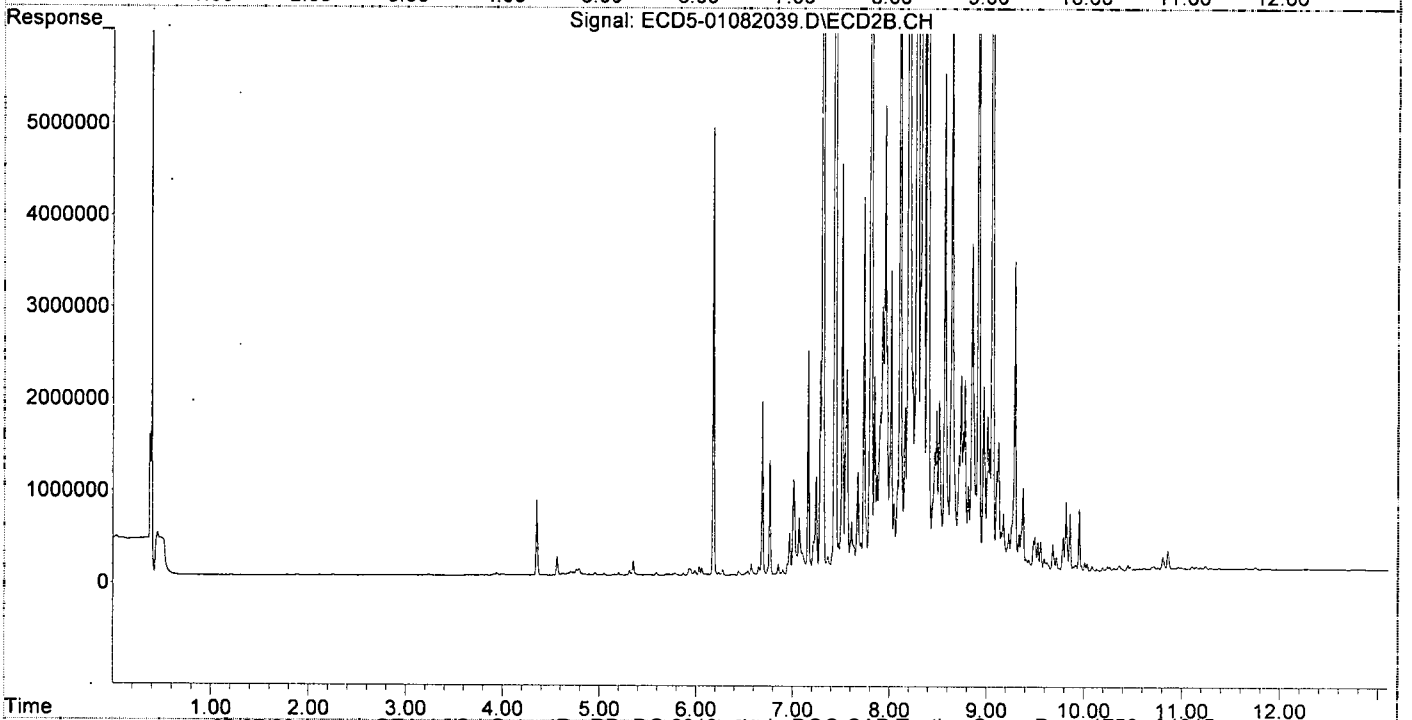
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 22:50
Operator : MJB
Sample : 0A08041-CALP
Misc : A19K306, CHLOR 2000 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: Jan 09 11:00:12 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:03:52 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

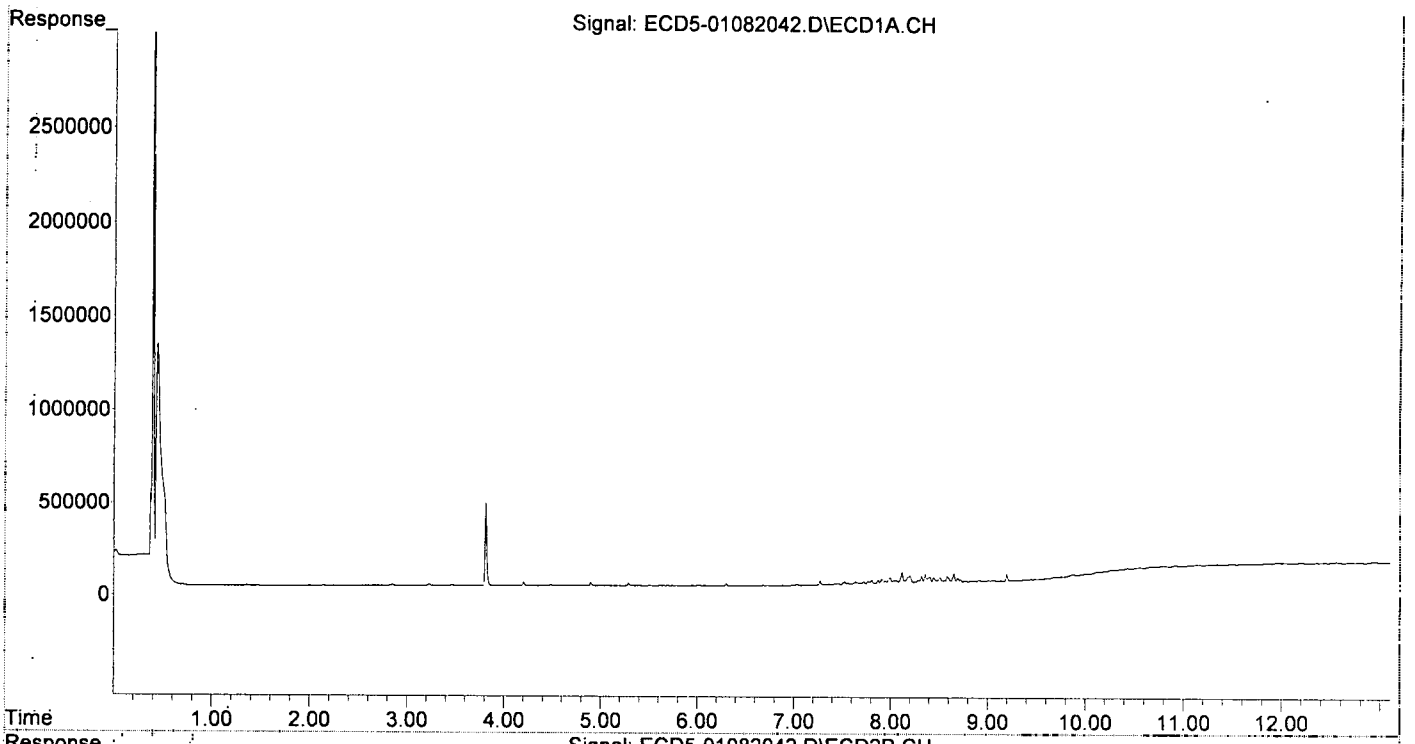
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.513	8.619	12164	29639	11.777m	12.527
37)	Toxaphene...	7.806	8.968	21367	37237	9.752	12.572
38)	Toxaphene...	8.118	9.004	58763	70419	15.060	14.531
39)	Toxaphene...	8.358	9.072	44260	99104	7.718	5.700
40)	Toxaphene...	8.586	9.249	33626	51910	13.272	9.659
41)	Toxaphene...	8.654	9.634	47173	57037	13.871	12.438
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

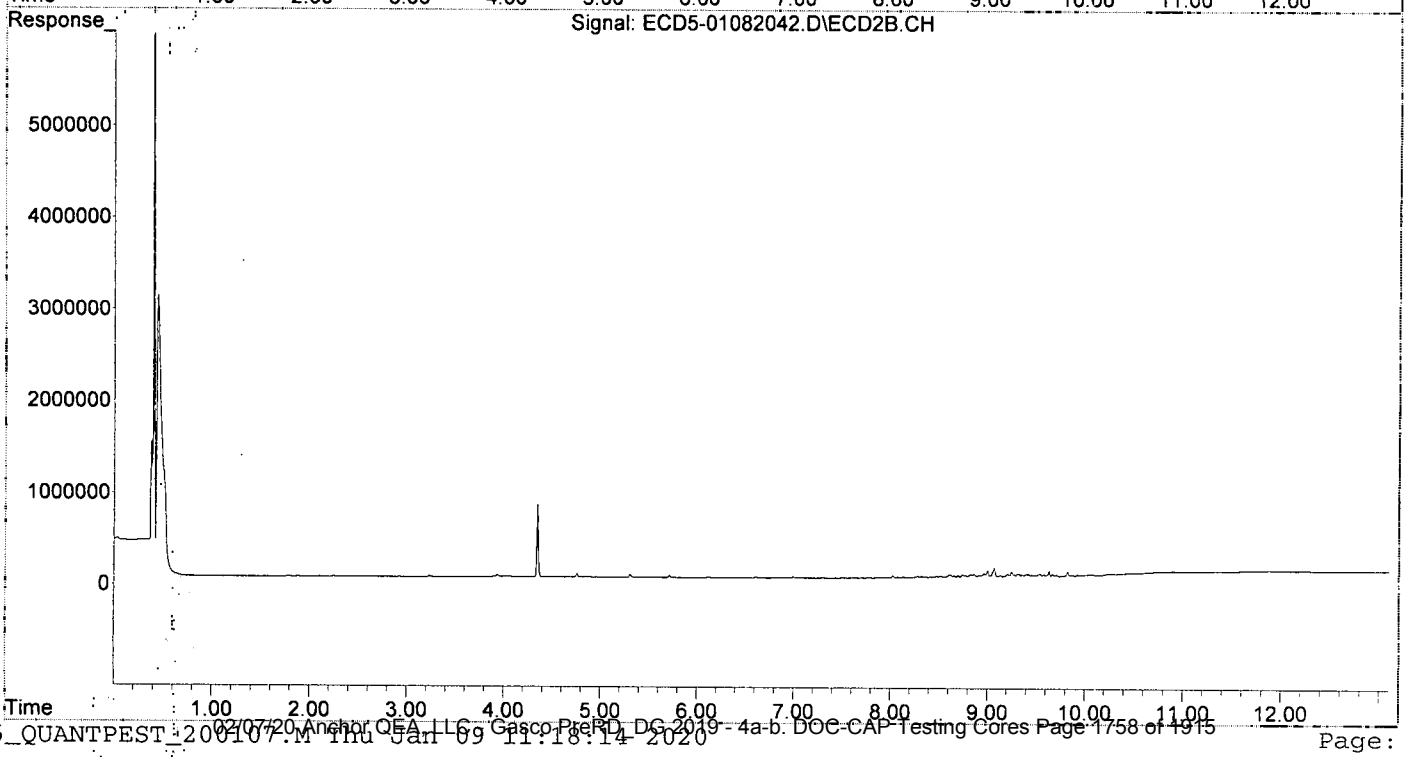
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:03:52 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

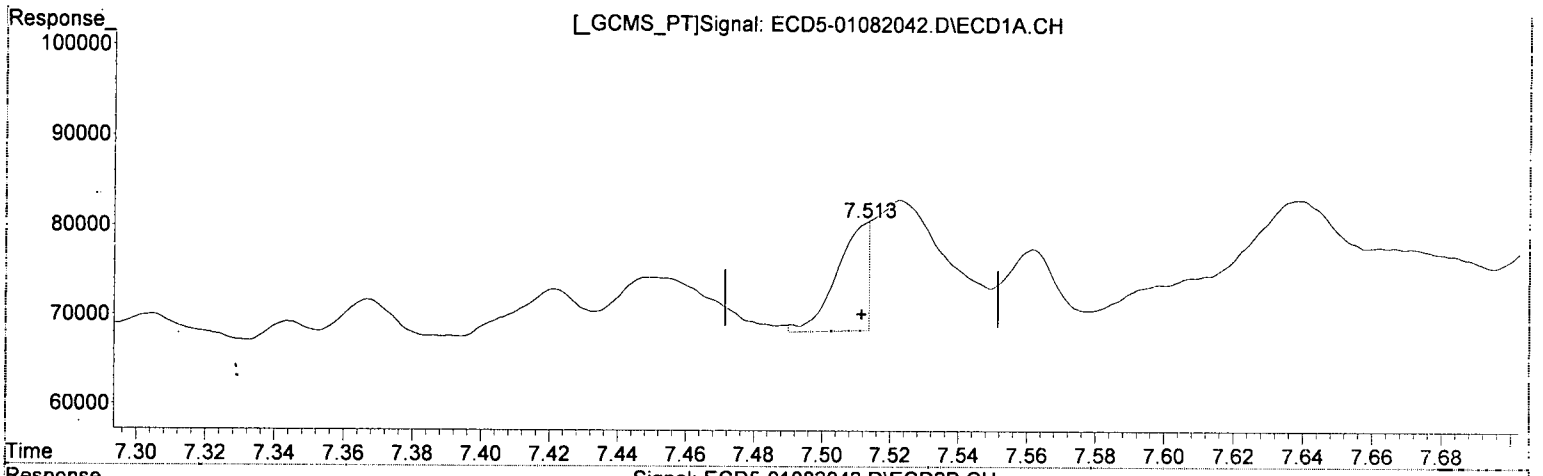


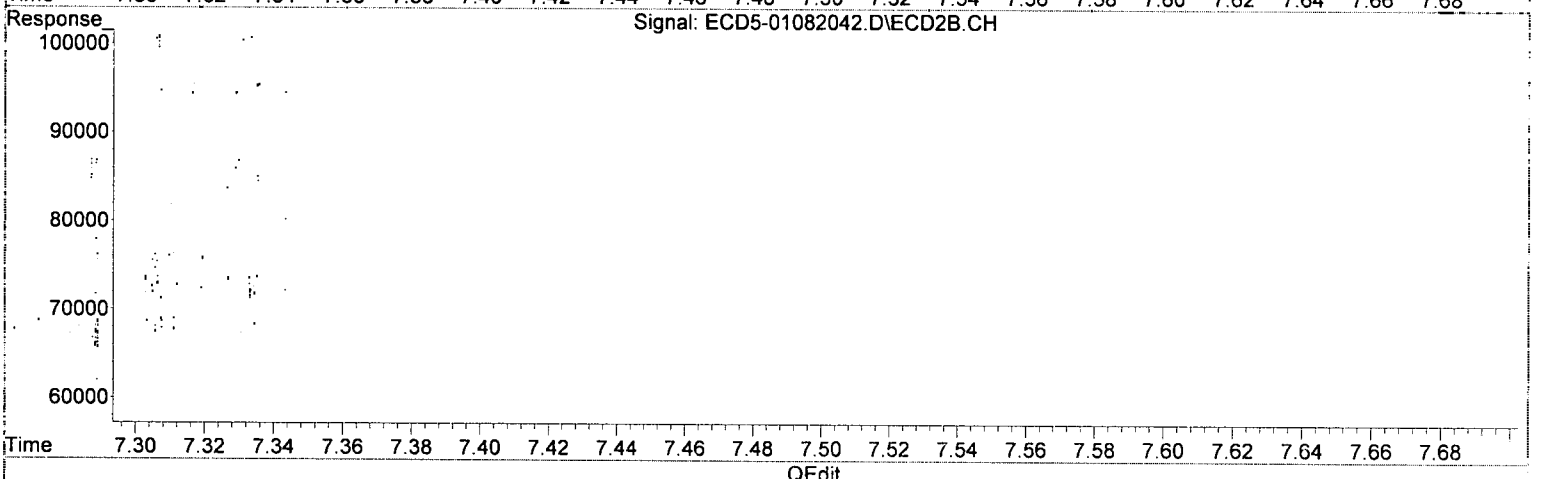


Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:02:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





QEdit

(36) Toxaphene (1)

7.513min 11.777 ng/mL (m)

response 12164

MJP 1/9/20

(36) Toxaphene (1) #2

8.619min 12.527 ng/mL

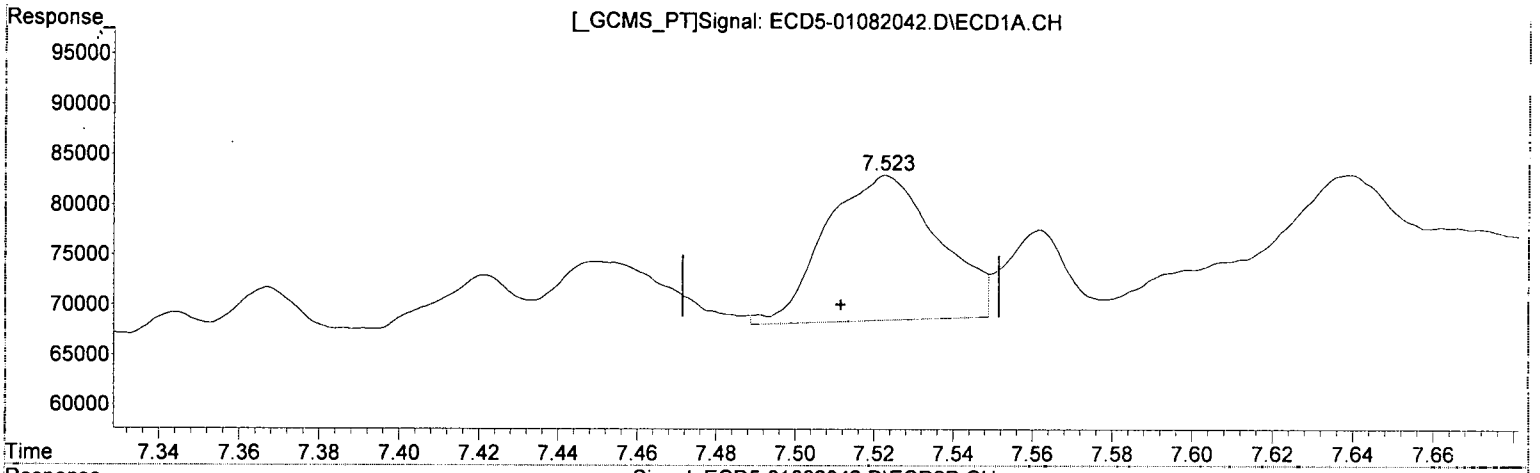
response 29639

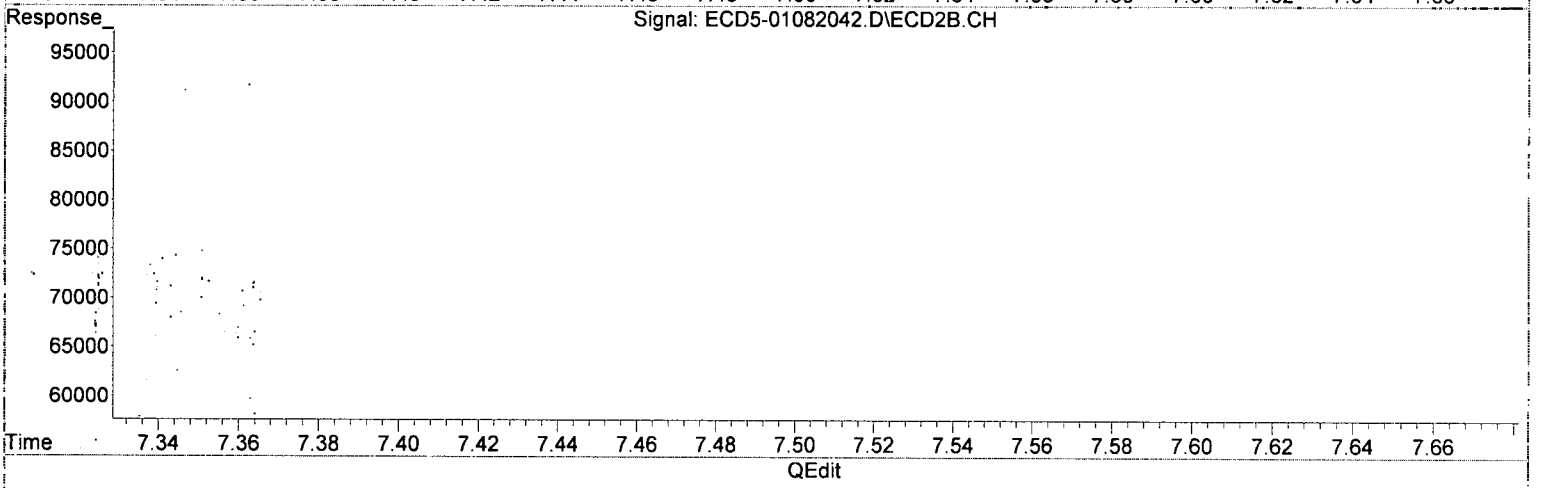
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:02:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





(36) Toxaphene (1)

7.523min 14.554 ng/mL

response 14451

MJB 1/9/20

(36) Toxaphene (1) #2

8.619min 12.527 ng/mL

response 29639

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:02:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

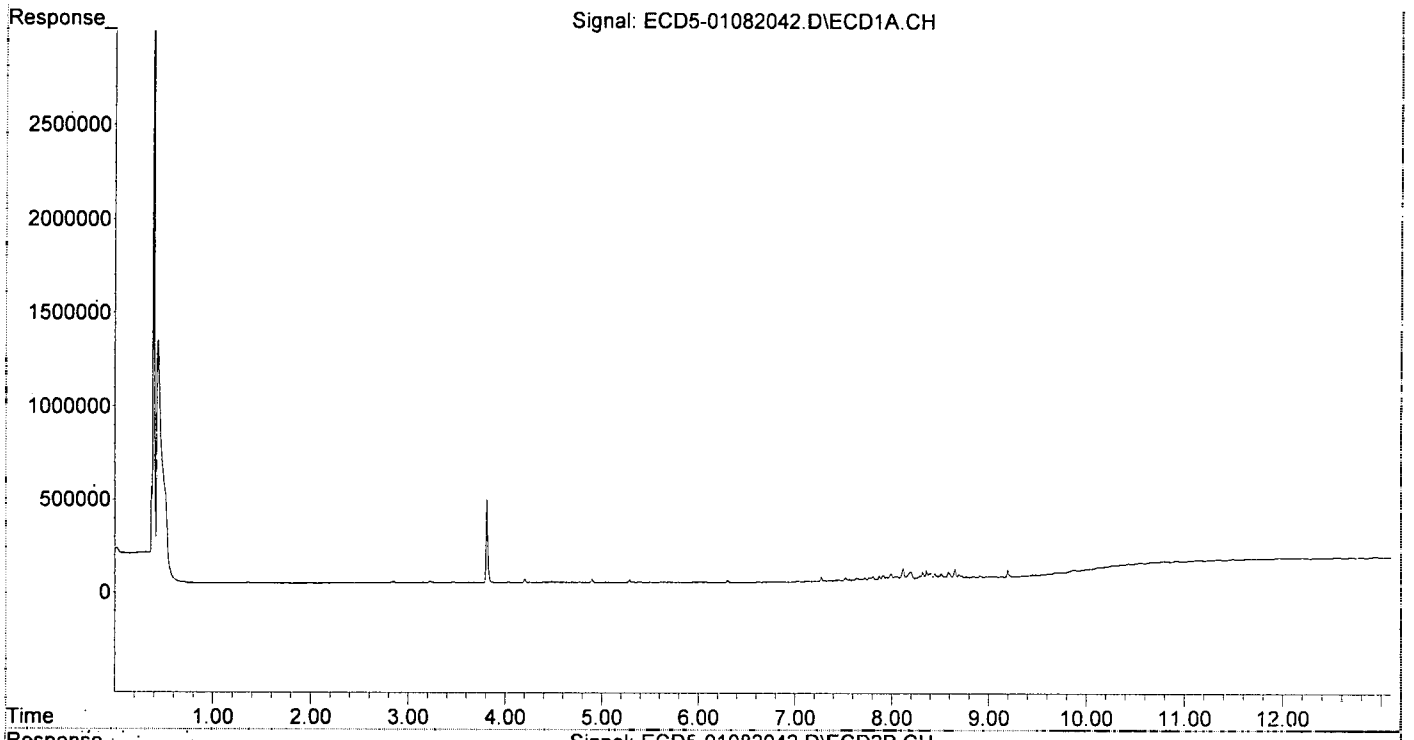
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.523	8.619	14451	29639	14.554	12.527
37)		Toxaphene...	7.806	8.968	21367	37237	9.752	12.572
38)		Toxaphene...	8.118	9.004	58763	70419	15.060	14.531
39)		Toxaphene...	8.358	9.072	44260	99104	7.718	5.700
40)		Toxaphene...	8.586	9.249	33626	51910	13.272	9.659
41)		Toxaphene...	8.654	9.634	47173	57037	13.871	12.438
42)		Toxaphene...	3.810	0.000	440668	0	NoCal	N.D.

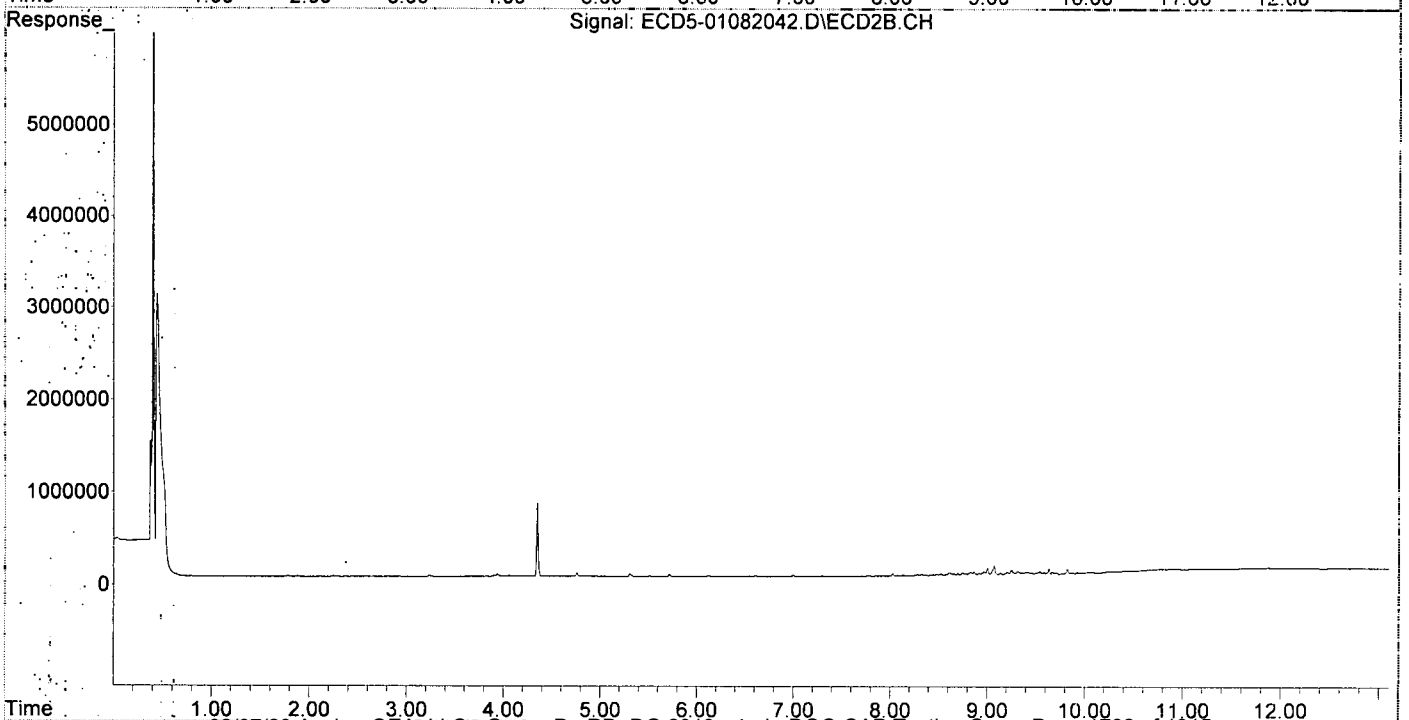
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:41
Operator : MJB
Sample : 0A08041-CALQ
Misc : A20A098, TOX 10 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: Jan 09 11:02:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:58
Operator : MJB
Sample : 0A08041-CALR
Misc : A19J417, TOX 50 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: Jan 09 11:04:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

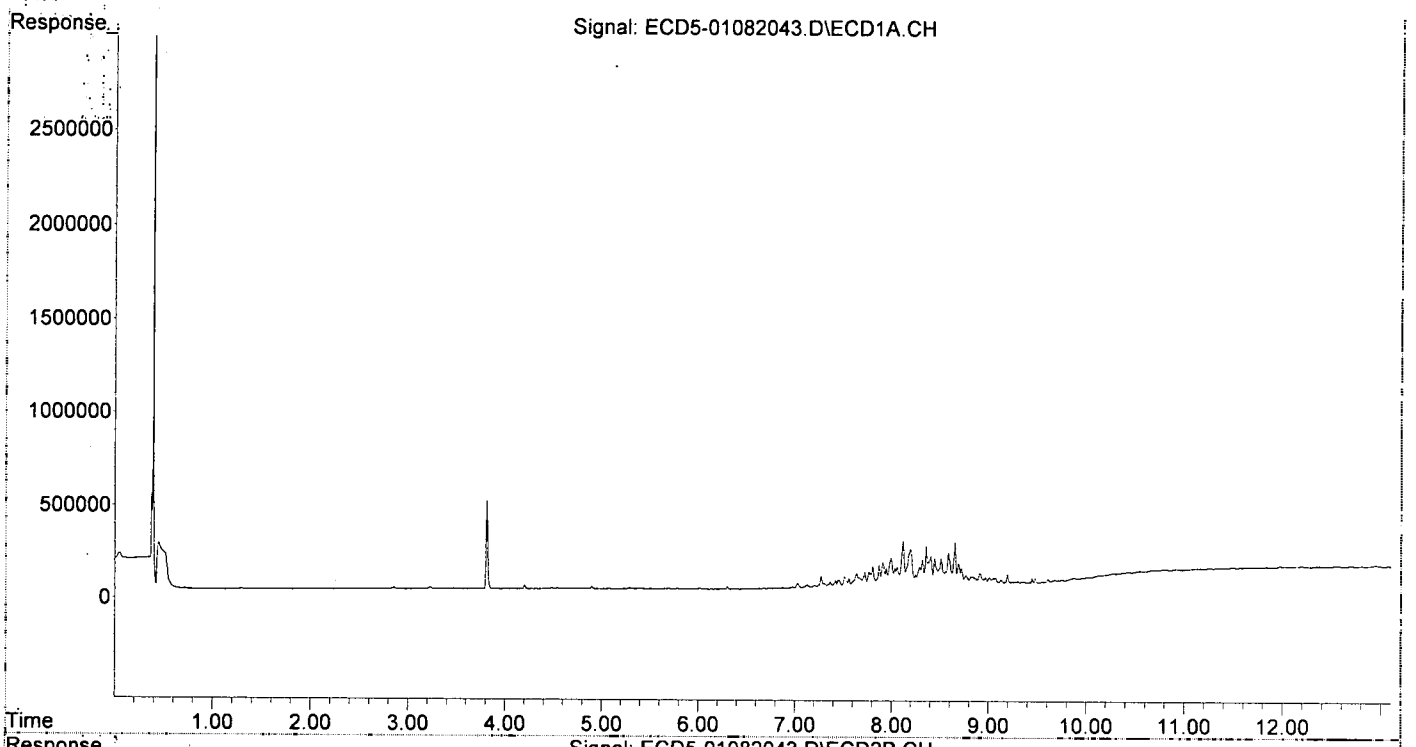
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.512	8.618	54826	140732	63.545	59.480
37)	Toxaphene...	7.805	8.968	106490	174093	63.115	58.779
38)	Toxaphene...	8.117	9.005	237969	285157	70.211	58.843
39)	Toxaphene...	8.358	9.073	207485	435032	59.746	54.114
40)	Toxaphene...	8.586	9.249	169348	244237	66.841	57.573
41)	Toxaphene...	8.654	9.634	225107	279398	66.194	60.928
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

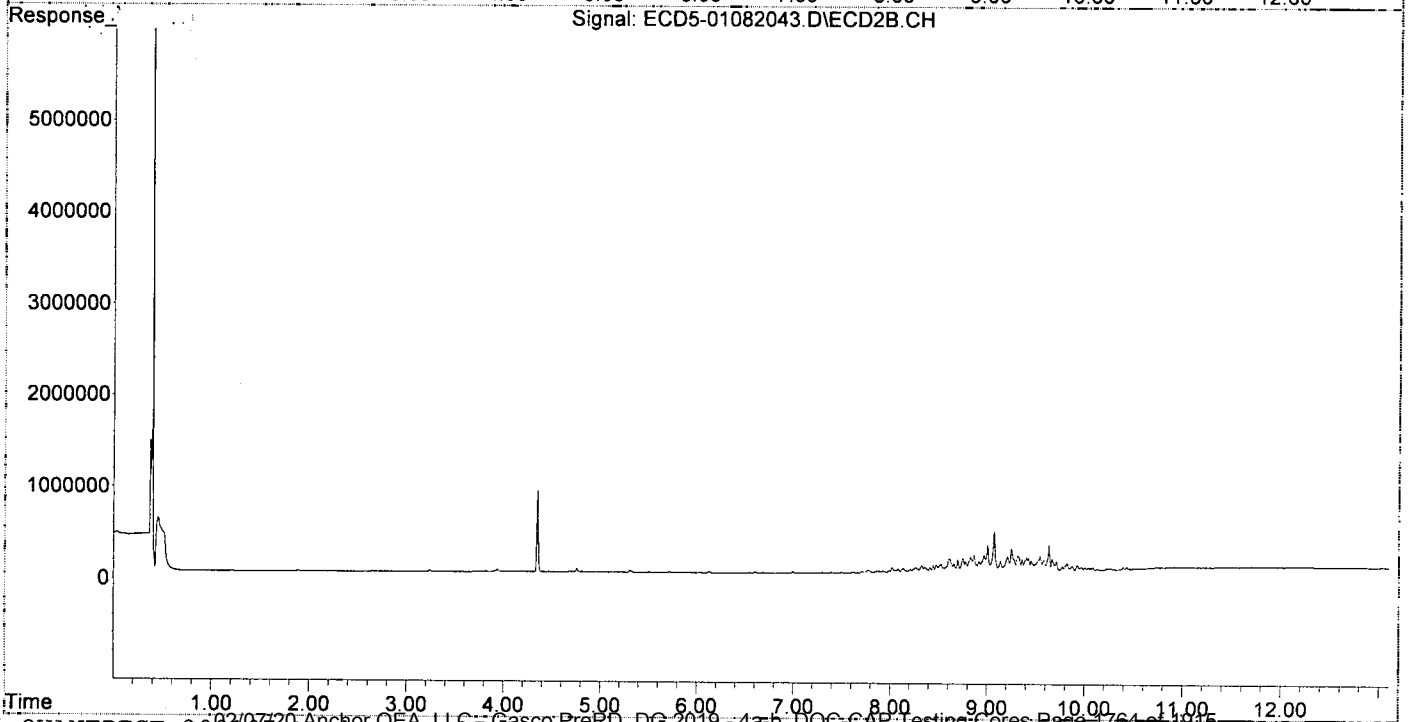
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 Jan 2020 23:58
Operator : MJB
Sample : 0A08041-CALR
Misc : A19J417, TOX 50 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: Jan 09 11:04:40 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 0:15
Operator : MJB
Sample : 0A08041-CALS
Misc : A19J418, TOX 100 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: Jan 09 11:05:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

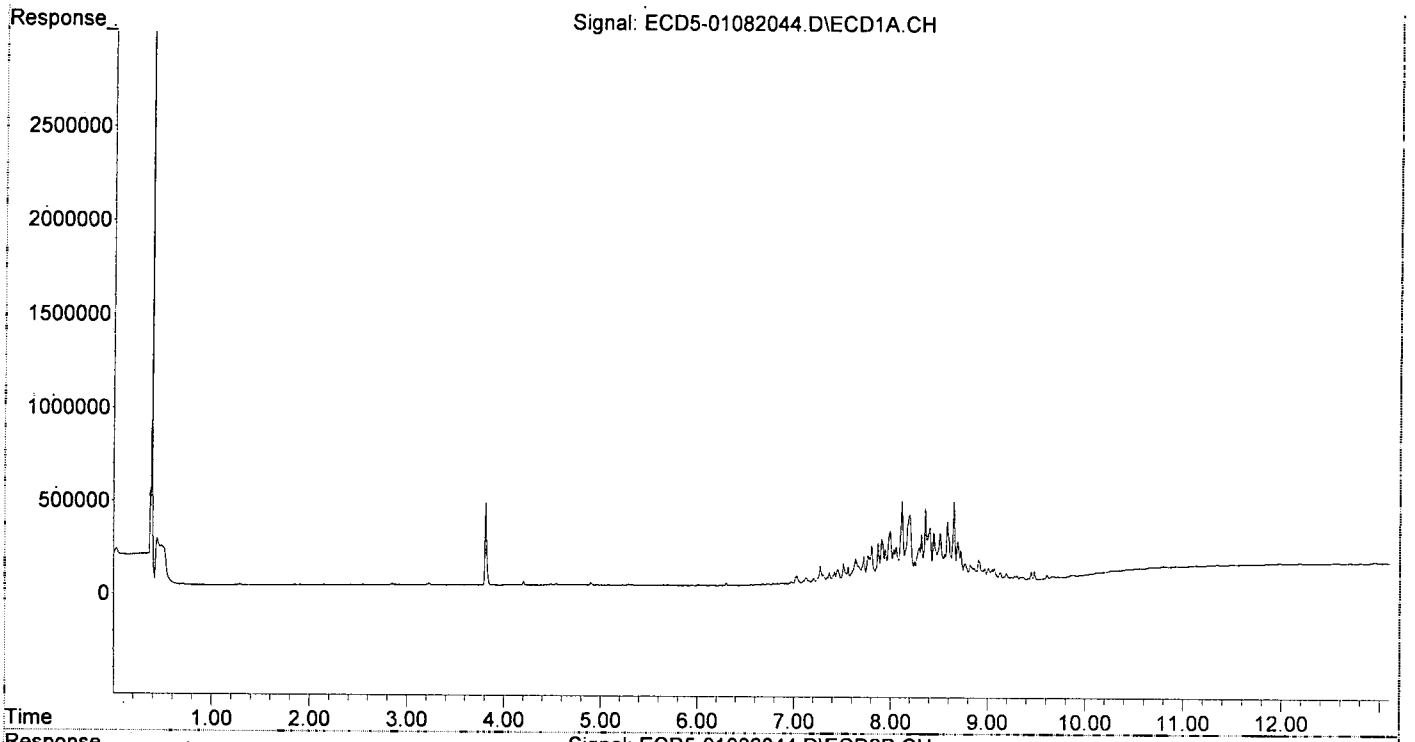
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.511	8.619	104733	261214	123.977	110.401
37)		Toxaphene...	7.805	8.969	197183	329715	120.048	111.321
38)		Toxaphene...	8.117	9.006	433935	528362	130.122	109.028
39)		Toxaphene...	8.359	9.073	392871	848142	118.511	112.911
40)		Toxaphene...	8.586	9.250	321308	465078	126.818	112.129
41)		Toxaphene...	8.654	9.634	426816	522567	125.507	113.956
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

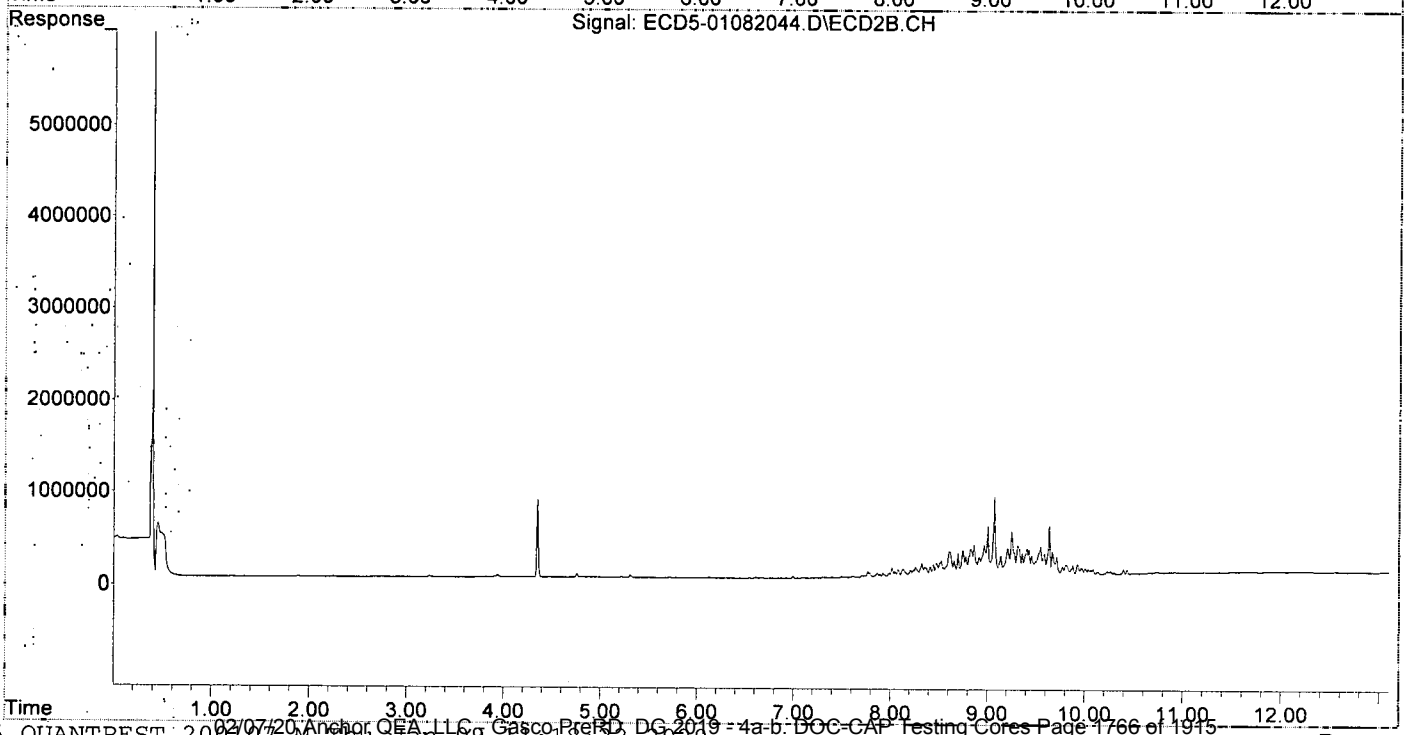
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 0:15
Operator : MJB
Sample : 0A08041-CALS
Misc : A19J418, TOX 100 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: Jan 09 11:05:16 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 0:32
Operator : MJB
Sample : 0A08041-CALT
Misc : A19J419, TOX 200 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: Jan 09 11:05:56 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJE 1/9/20

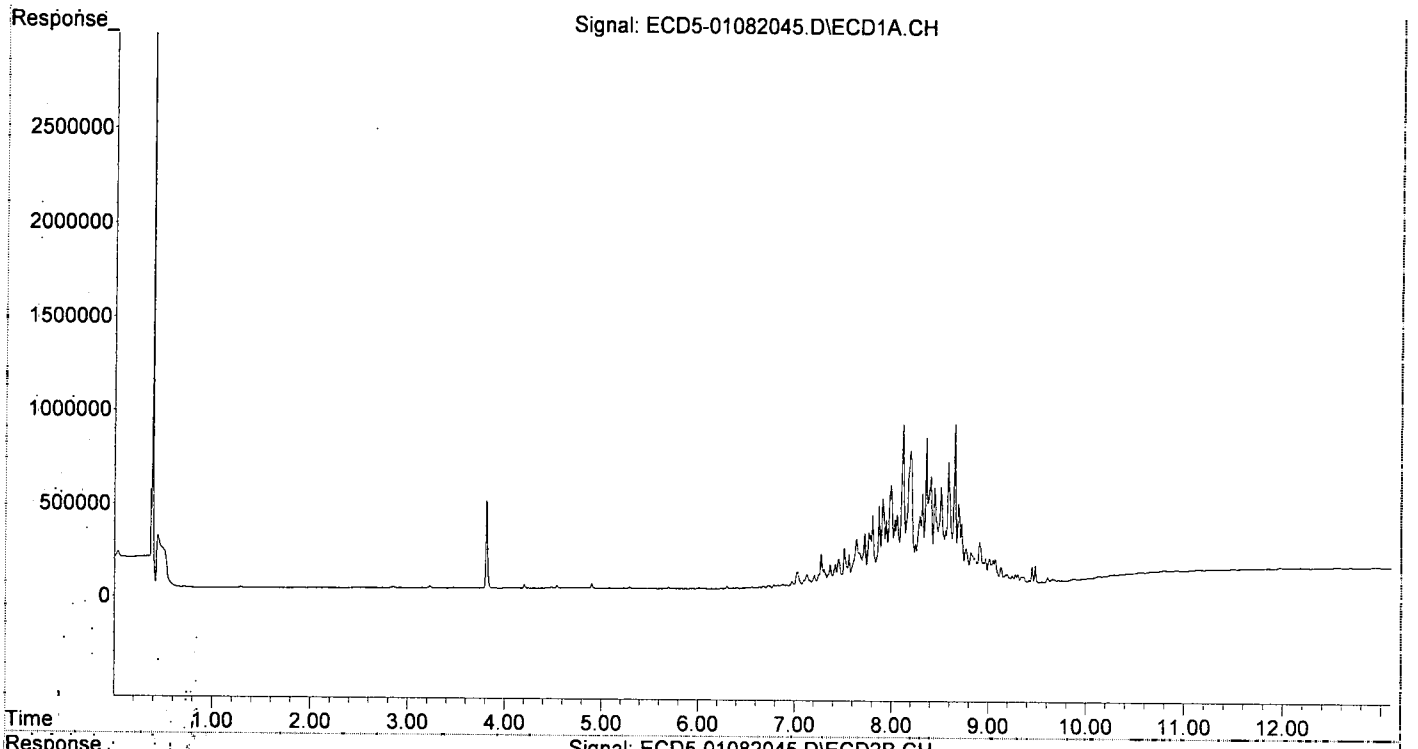
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.511	8.619	206853	527041	247.218	222.751
37)		Toxaphene...	7.805	8.968	382017	671993	236.335	226.884
38)		Toxaphene...	8.117	9.006	864754	1076876	260.412	222.215
39)		Toxaphene...	8.358	9.073	791104	1691190	243.603	230.495
40)		Toxaphene...	8.586	9.250	655616	985020	258.768	238.691
41)		Toxaphene...	8.653	9.634	851655	1071997	250.433	233.770
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

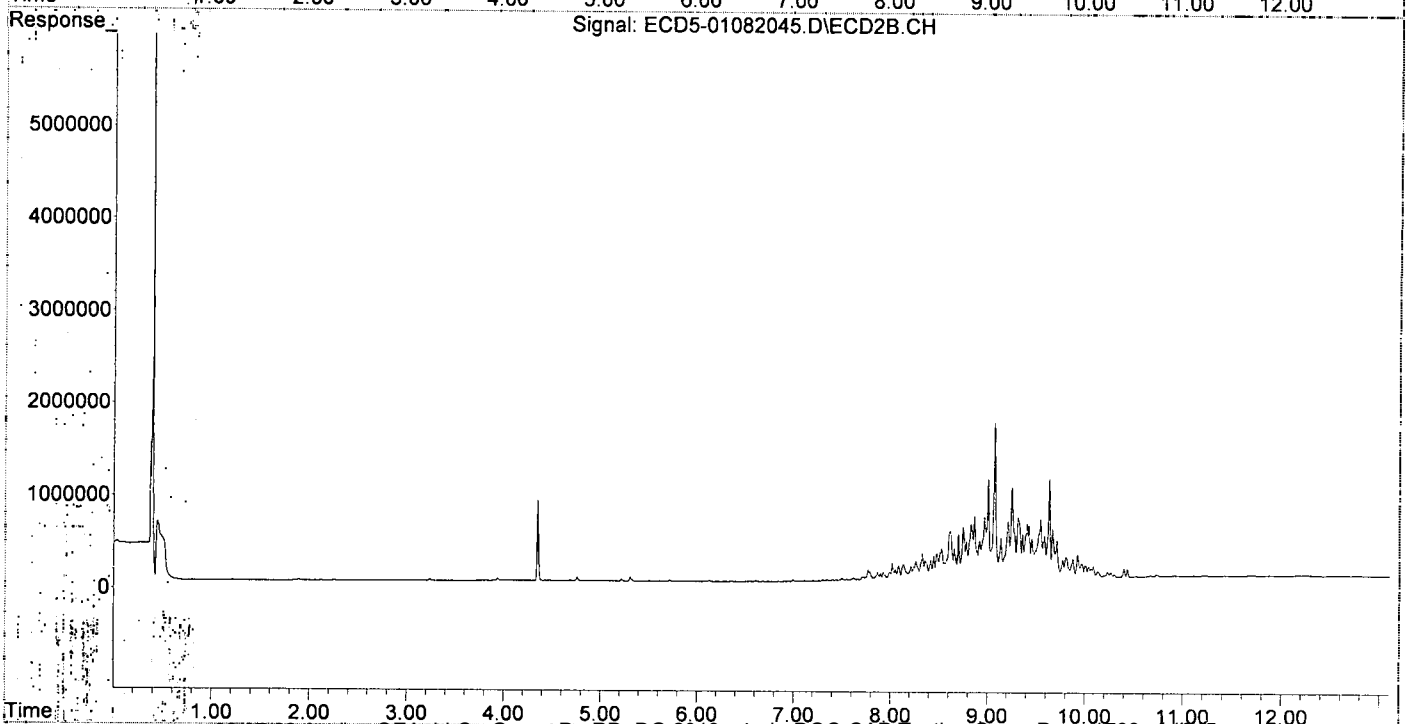
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 0:32
Operator : MJB
Sample : 0A08041-CALT
Misc : A19J419, TOX 200 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: Jan 09 11:05:56 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 0:50
Operator : MJB
Sample : 0A08041-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 40 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 11:07:37 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

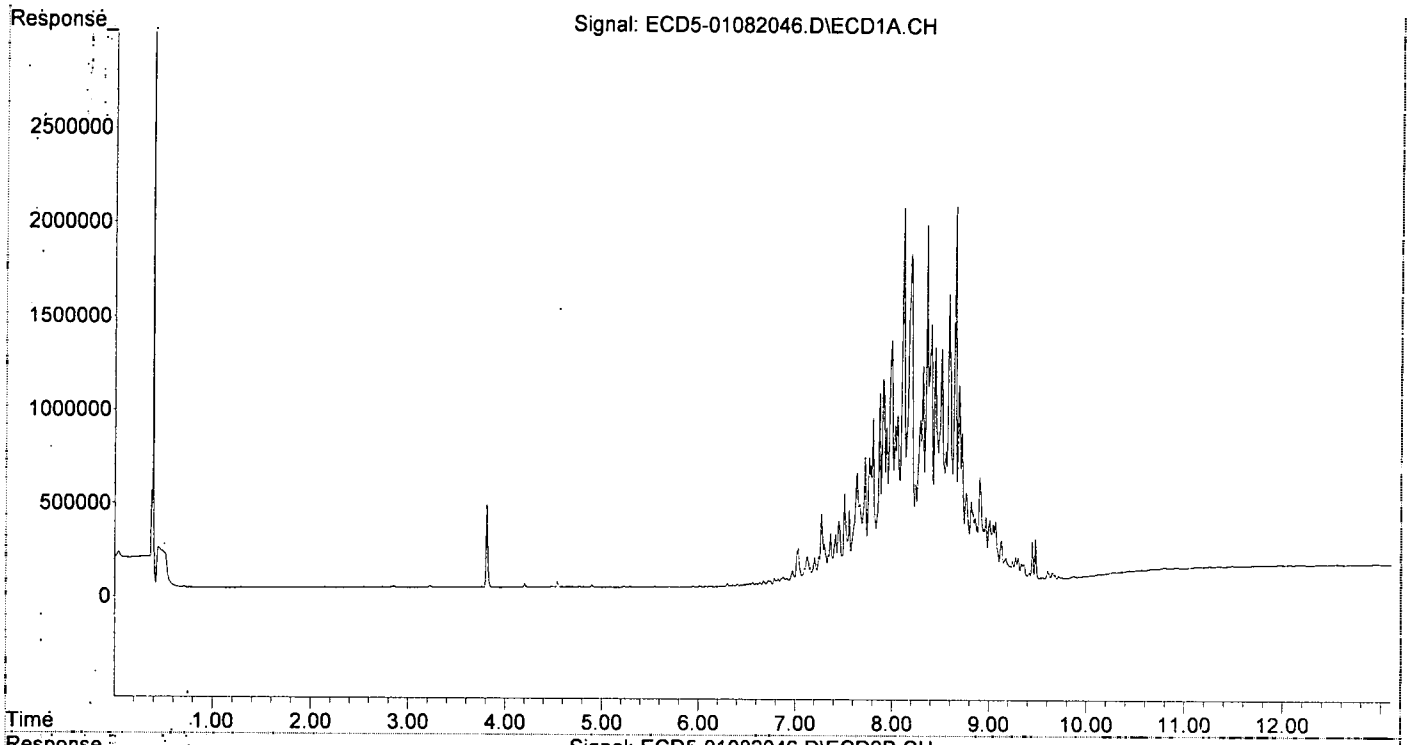
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.511	8.619	479175	1253802	573.165	529.913
37)	Toxaphene...	7.805	8.969	883414	1627963	553.541	549.647
38)	Toxaphene...	8.117	9.006	1995985	2635386	593.751	543.817
39)	Toxaphene...	8.358	9.072	1900476	4280691	584.252	573.694
40)	Toxaphene...	8.586	9.249	1539706	2386520	607.714	567.711
41)	Toxaphene...	8.653	9.634	1981771	2631287	582.748	573.804
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

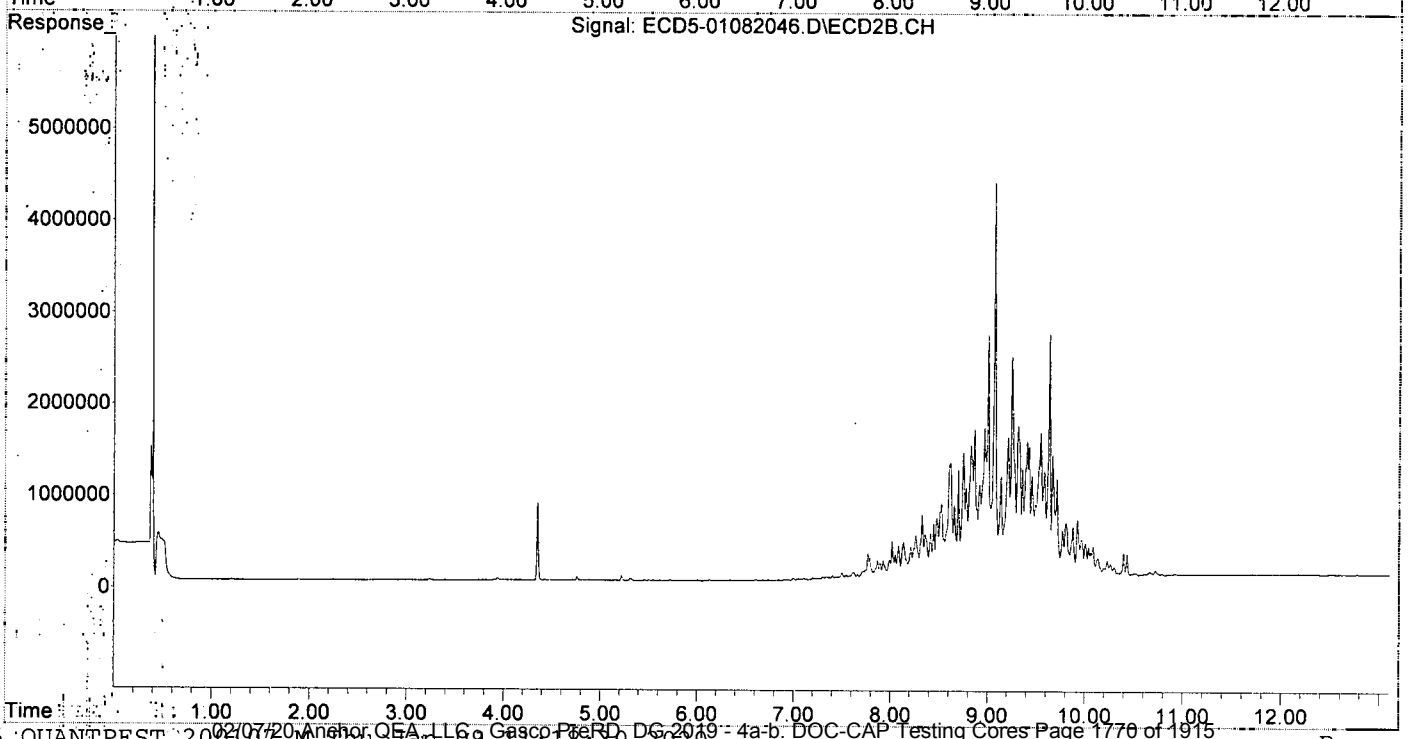
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 0:50
Operator : MJB
Sample : 0A08041-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 40 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 11:07:37 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 10:55:56 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 1:07
Operator : MJB
Sample : 0A08041-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 11:06:41 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

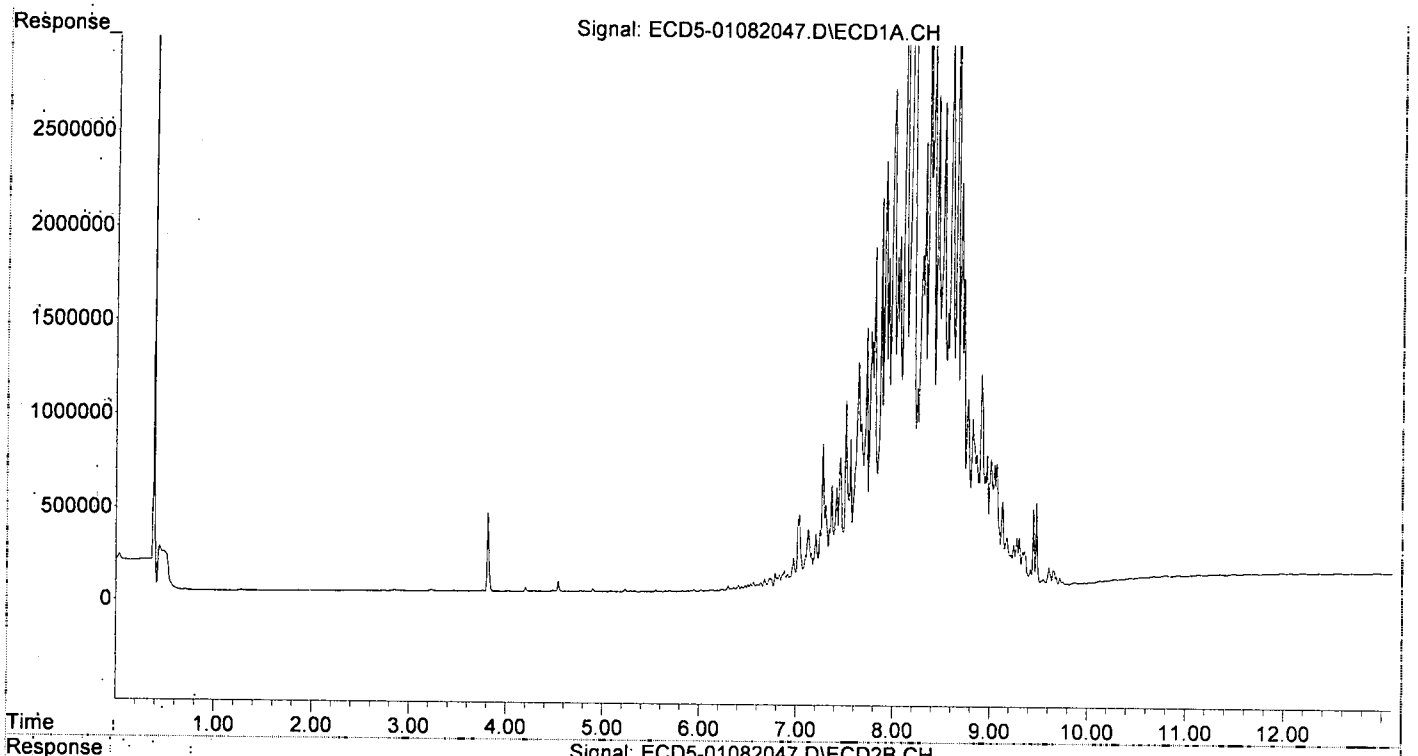
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
	System Monitoring Compounds						
1)	S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. 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...	7.511	8.618	998436	2637347	1184.210	1114.662
37)	Toxaphene...	7.804	8.968	1834370	3517411	1162.389	1187.580
38)	Toxaphene...	8.116	9.006	4209954	5617496	1213.484	1159.182
39)	Toxaphene...	8.358	9.073	3974783	9024517	1193.317	1145.858
40)	Toxaphene...	8.586	9.249	3276318	5120001	1293.146	1166.121
41)	Toxaphene...	8.652	9.634	4202272	5832985	1235.695	1271.998
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

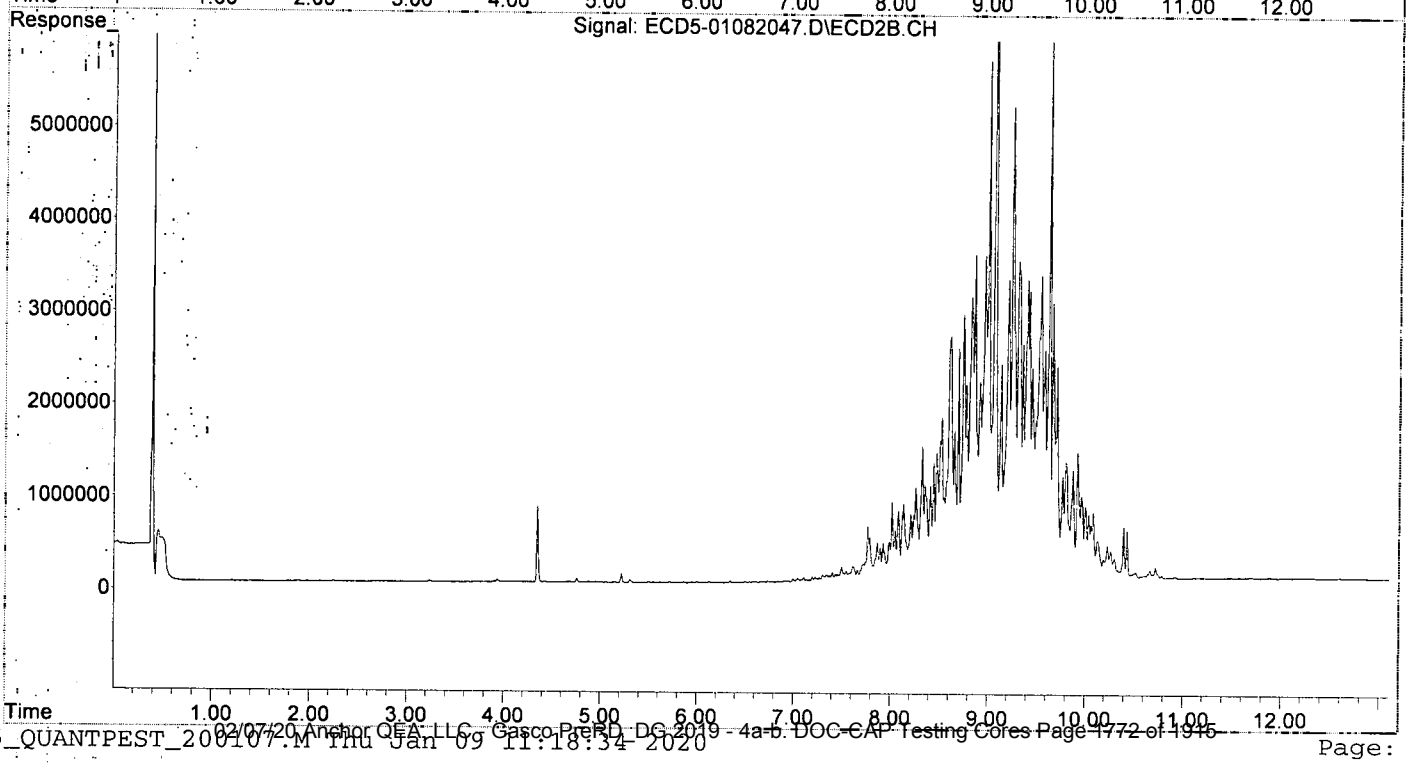
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 1:07
Operator : MJB
Sample : 0A08041-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 11:06:41 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 1:24
Operator : MJB
Sample : 0A08041-CALW
Misc : A19J416, TOX 2000 ppb
ALS Vial : 42 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 11:07:20 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 1/9/20

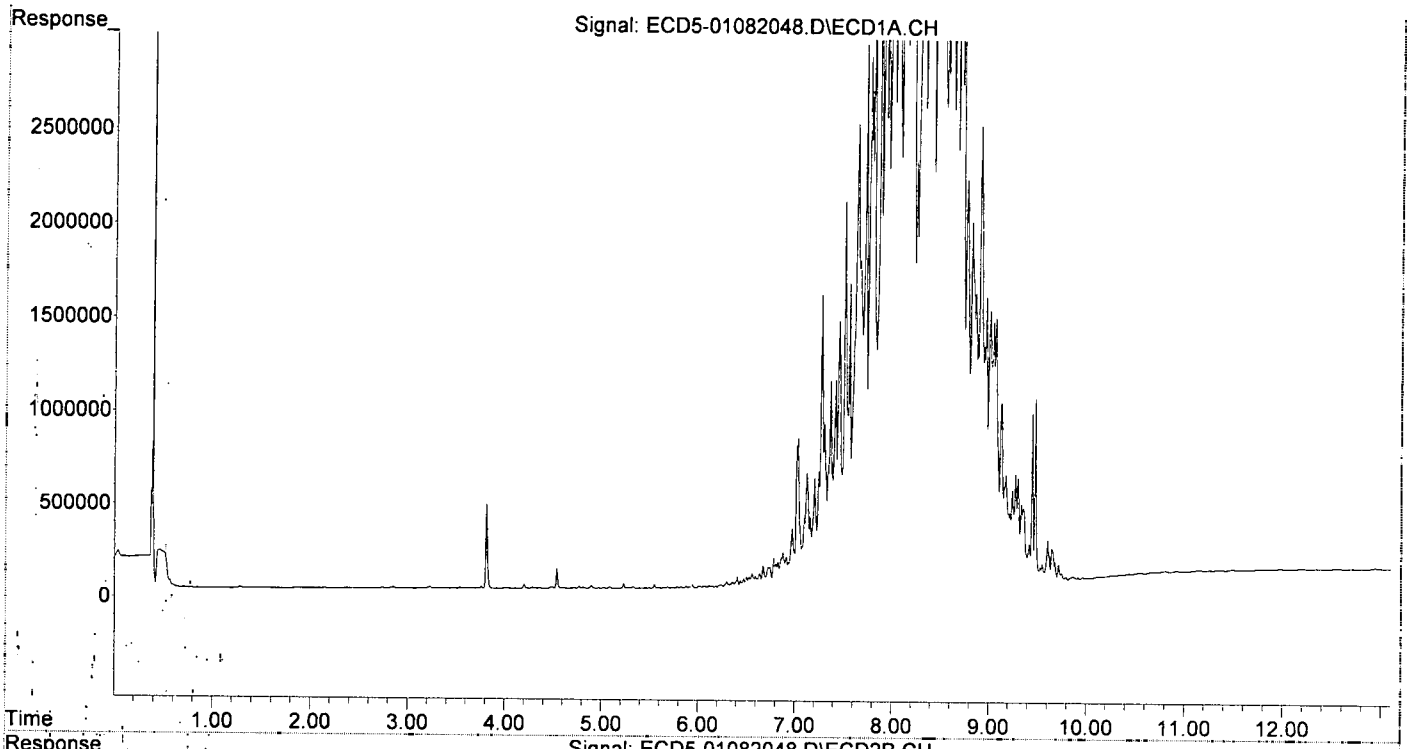
		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
		System Monitoring Compounds						
1)	S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22)	S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)		a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)		g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)		b-BHC	0.000	0.000	0	0	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...	7.509	8.617	2042518	5518631	2374.324	2332.423
37)		Toxaphene...	7.803	8.967	3726169	7483834	2403.406	2526.758
38)		Toxaphene...	8.115	9.005	8745207	11973110	2374.415	2470.675
39)		Toxaphene...	8.356	9.072	8089085	20090728	2312.250	2288.127
40)		Toxaphene...	8.585	9.249	6836043	11218014	2698.152	2347.982
41)		Toxaphene...	8.651	9.633	8969660	12652600	2637.565	2759.150
42)		Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

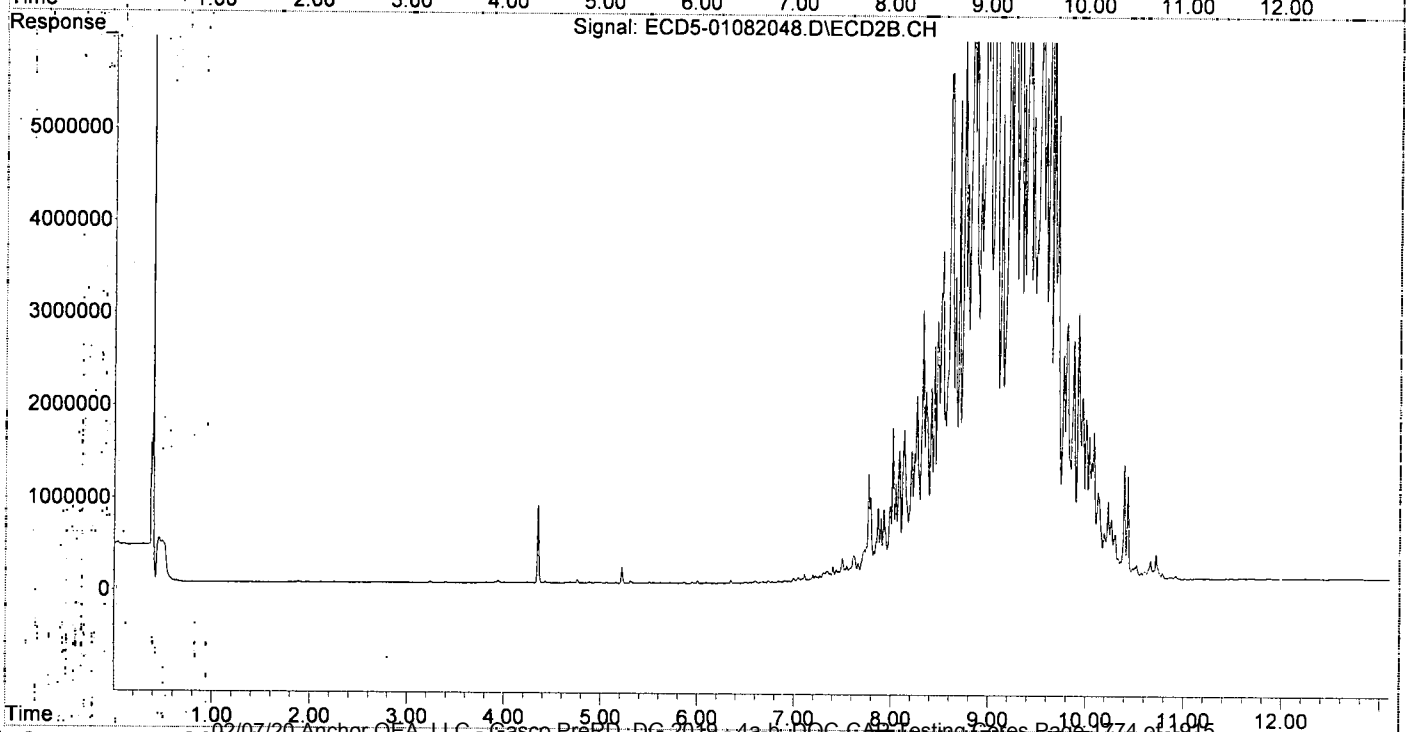
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2020-01\0A08041\
Data File : ECD5-01082048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Jan 2020 1:24
Operator : MJB
Sample : 0A08041-CALW
Misc : A19J416, TOX 2000 ppb
ALS Vial : 42 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Jan 09 11:07:20 2020
Quant Method : R:\methods\ECD5_QUANTPEST_200107.M
Quant Title : Instrument: DualECD5
QLast Update : Thu Jan 09 11:01:59 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 9120555
Sequence 9L05045 (A9J0514-18,19)

Apex Laboratories

PREPARATION BENCH SHEET

DEC 1 0 2019

BATCH #: 9120555 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH other	pH >11
	9120555-BLK1		QC	12/05/19 10:22	11	5				100					
	9120555-BS1		QC	12/05/19 10:22	10	5	A19H078		100	100					
	A9J0463-01RE1	A	8270D LL PAH Only (Scan)	12/05/19 10:22	10.68	5				100	PDI-032SC-A-01-02-191010	BLANK CONTAMINATION, Added 12/3/2019 By hml			
	A9J0514-18	A	8270D LL PAH Only (Scan)	12/05/19 10:22	10.27	5				100	PDI-066SC-A-05-06-191011	MS/MSD			
	9120555-MS1		QC	12/05/19 10:22	10.53	5	A19H078	A9J0514-18	100	100					
	9120555-MSD1		QC	12/05/19 10:22	10.26	5	A19H078	A9J0514-18	100	100					
	A9J0514-19	A	8270D LL PAH Only (Scan)	12/05/19 10:22	10.36	5				100	PDI-066SC-A-06-07-191011				
	A9J0553-23RE1	A	8270D LL PAH Only (Scan)	12/05/19 10:22	10.31	5				100	PDI-037SC-A-08-09-191012	BLANK CONTAMINATION, Added 12/3/2019 By hml			
	A9J0553-36	A	8270D LL PAH Only (Scan)	12/05/19 10:22	10.42	5				100	PDI-074SC-A-08-09-191012				
	A9J0553-36RE1	A	8270D LL PAH Only (Scan)	12/05/19 10:22	10.42	5				100	PDI-074SC-A-08-09-191012	Added 12/6/2019 By DTH			
	A9J0553-37	A	8270D LL PAH Only (Scan)	12/05/19 10:22	10.41	5				100	PDI-074SC-A-09-10-191012				
	A9J0558-38	A	8270D LL PAH Only (Scan)	12/05/19 10:22	10.83	5				100	PDI-076SC-A-04-05-191013				
	A9J0558-39	A	8270D LL PAH Only (Scan)	12/05/19 10:22	10.18	5				100	PDI-076SC-A-05-06-191013				
	A9J0594-16	A	8270D LL PAH Only (Scan)	12/05/19 10:22	10.28	5				100	PDI-077SC-A-00-01-191014				
	A9J0594-17	A	8270D LL PAH Only (Scan)	12/05/19 10:22	10.79	5				100	PDI-077SC-A-01-02-191014				

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A19L058	06/01/22	Sodium Sulfate Lot # Q183003

Analyte Spike(s)

Std ID	Exp. Date	Description
A19H078	02/02/20	LVI PAH Spike @2000ng/ml

Surrogate(s)

Std ID	Exp. Date	Description
A19J413	04/14/20	8270D LL PAH Only Surr. (5ppm)

Prepared By: Date

Reviewed By: AMS 12/9/19 Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120555 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120555 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
1	9120555-BLK1		QC	12/05/19 10:22	~~10~~ 11	5				100					
2	9120555-BS1		QC	12/05/19 10:22	10	5	A19H078		100	100					
3	A9J0463-01RE1	A	8270D LL PAH Only (Scan)	12/05/19 10:22	~~10~~ 10.08	5				100	PDI-032SC-A-01-02-191010	BLANK CONTAMINATION, Added 12/3/2019 By hm Sand			☆ 12/5
4	A9J0514-18	A	8270D LL PAH Only (Scan)	12/05/19 10:22	~~10~~ 10.27	5				100	PDI-066SC-A-05-06-191011	MS/MSD MUD, odor ☆			
5	9120555-MS1		QC	12/05/19 10:22	~~10~~ 10.53	5	A19H078	A9J0514-18	100	100		MUD, odor ☆			
6	9120555-MSD1		QC	12/05/19 10:22	~~10~~ 10.26	5	A19H078	A9J0514-18	100	100		MUD, odor ☆			
7	A9J0514-19	A	8270D LL PAH Only (Scan)	12/05/19 10:22	~~10~~ 10.36	5				100	PDI-066SC-A-06-07-191011	MUD, odor ☆			
8	A9J0553-23RE1	A	8270D LL PAH Only (Scan)	12/05/19 10:22	~~10~~ 10.31	5				100	PDI-037SC-A-08-09-191012	BLANK CONTAMINATION, Added 12/3/2019 ~~By hm~~			
9	A9J0553-36	A	8270D LL PAH Only (Scan)	12/05/19 10:22	~~10~~ 10.42	5				100	PDI-074SC-A-08-09-191012	MUD			
10	A9J0553-37	A	8270D LL PAH Only (Scan)	12/05/19 10:22	~~10~~ 10.41	5				100	PDI-074SC-A-09-10-191012	Sand			
11	A9J0558-38	A	8270D LL PAH Only (Scan)	12/05/19 10:22	~~10~~ 10.83	5				100	PDI-076SC-A-04-05-191013	MUD ☆			
12	A9J0558-39	A	8270D LL PAH Only (Scan)	12/05/19 10:22	~~10~~ 10.18	5				100	PDI-076SC-A-05-06-191013	MUD			
13	A9J0594-16	A	8270D LL PAH Only (Scan)	12/05/19 10:22 X 12/5/19	~~10~~ 10.28 ~~10.28~~	5				100	PDI-077SC-A-00-01-191014	MUD			
14	A9J0594-17	A	8270D LL PAH Only (Scan)	12/05/19 10:22	~~10~~ 10.79	5				100	PDI-077SC-A-01-02-191014	MUD			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
~~A19K010~~	10/29/25	Sodium Sulfate Lot #~~188777~~ A19L056

X 12/5/19

Analyte Spike(s)

Std ID	Exp. Date	Description
A19H078	02/02/20	LVI PAH Spike @2000ng/ml

X

Surrogate(s)

Std ID	Exp. Date	Description
A19J413	04/14/20	8270D LL PAH Only Surr. (5ppm)

X

☆ = blown-down separate from batch and QC to avoid contamination.

X 12/5/19
Prepared By: Date

AMG 12/5/19

SCG 12/05/2019
Reviewed By: Date

Printed: 12/5/2019 10:22:59AM

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120555 (Sediment)

Prep Method: EPA 3546

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH other	pH >11

Method 3546 digestion time and temperture achieved.

Initial: [signature]

Witness: [signature] 12/5/19

Prepared By: Date

Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**9L05045**	Instrument:	**SV-GCMS14**
Date:	**12/05/19 14:47**	Calibration:	**A9I1001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L05045-TUN1	Sediment	QC	QC			A19K048	A19K329
2	9L05045-CCV1	Sediment	QC	QC			A19K048	A19K012
3	9L05045-CCB1	Sediment	QC	QC			A19K048	
4	9120555-BLK1	Sediment	QC	QC		9120555	A19K048	
5	9120555-BS1	Sediment	QC	QC		9120555	A19K048	
6	A9J0553-37	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120555	A19K048	
7	A9J0553-23RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9120555	A19K048	
8	A9J0463-01RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9120555	A19K048	
9	A9J0514-18	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120555	A19K048	
10	9120555-MS1	Sediment	QC	QC		9120555	A19K048	
11	9120555-MSD1	Sediment	QC	QC		9120555	A19K048	
12	A9J0514-19	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120555	A19K048	
13	A9J0553-36	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120555	A19K048	
14	A9J0558-38	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120555	A19K048	
15	A9J0558-39	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120555	A19K048	
16	A9J0594-16	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120555	A19K048	
17	A9J0594-17	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120555	A19K048	
18	9L05045-IBL1	Sediment	QC	QC			A19K048	

Data Entered By: DTH 12/6/19

Data Reviewed By: [signature] 12/6/19

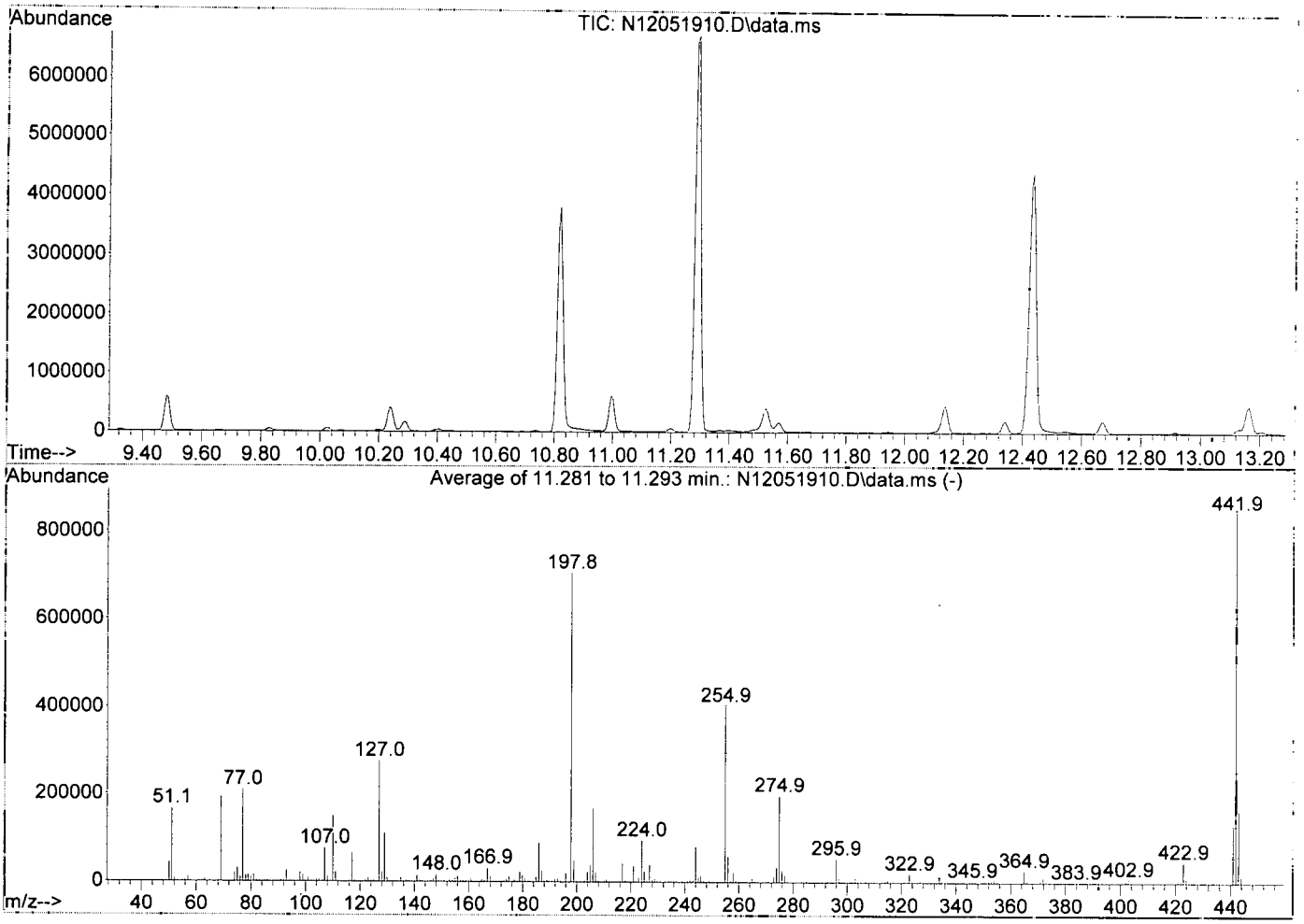
Comments:

Data Path : U:\data\2109-12\9L05045\
Data File : N12051910.D
Acq On : 05 Dec 2019 02:54 pm
Operator : JK/ AMS/ DTH
Sample : 9L05045-TUN1
Misc : 1x, A19K329 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : U:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Wed Nov 06 13:10:03 2019

DTH 12/5/19



AutoFind: Scans 1199, 1200, 1201; Background Corrected with Scan 1194

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.7	3300	PASS
69	69	100	100	100.0	192663	PASS
70	69	0.00	2	0.6	1141	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	704892	PASS
199	198	5	9	6.9	48496	PASS
365	198	1	100	3.8	26875	PASS
441	443	0.01	150	77.5	128136	PASS
442	198	0.10	200	121.0	853227	PASS
443	442	15	24	19.4	165341	PASS

Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051910.D
Acq On : 05 Dec 2019 02:54 pm
Operator : JK/ AMS/ DTH
Sample : 9L05045-TUN1
Misc : 1x, A19K329 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Dec 05 17:40:01 2019
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Wed Nov 06 13:10:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14

DTH 12/5/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.519	150	133559	2.00	ug/mL	0.00
2) Naphthalene-d8	7.720	136	343545	2.00	ug/mL	-0.01
3) Acenaphthene-d10	9.480	162	183130	2.00	ug/mL	-0.01
5) Phenanthrene-d10	10.996	188	325852	2.00	ug/mL	-0.01
11) Chrysene-d12	14.621	240	287337	2.00	ug/mL	-0.02
12) Perylene-d12	16.714	264	292253	2.00	ug/mL	-0.01
13) Dibenz(a,h)anthracene-...	17.908	292	267757	2.00	ug/mL	#-0.01
Target Compounds						Qvalue
4) Pentachlorophenol	10.821	266	775654	44.85	ug/mL	80
6) DFTPP	11.293	442	1449390	55.10	ug/mL	72
7) Benzidine	12.435	184	3167700	27.33	ug/mL	97
8) 4,4-DDE	12.668	TIC	285282	No Calib		
9) 4,4-DDD	13.164	TIC	723815	No Calib		
10) 4,4-DDT	13.688	TIC	10885837	32.58	ug/mL	95

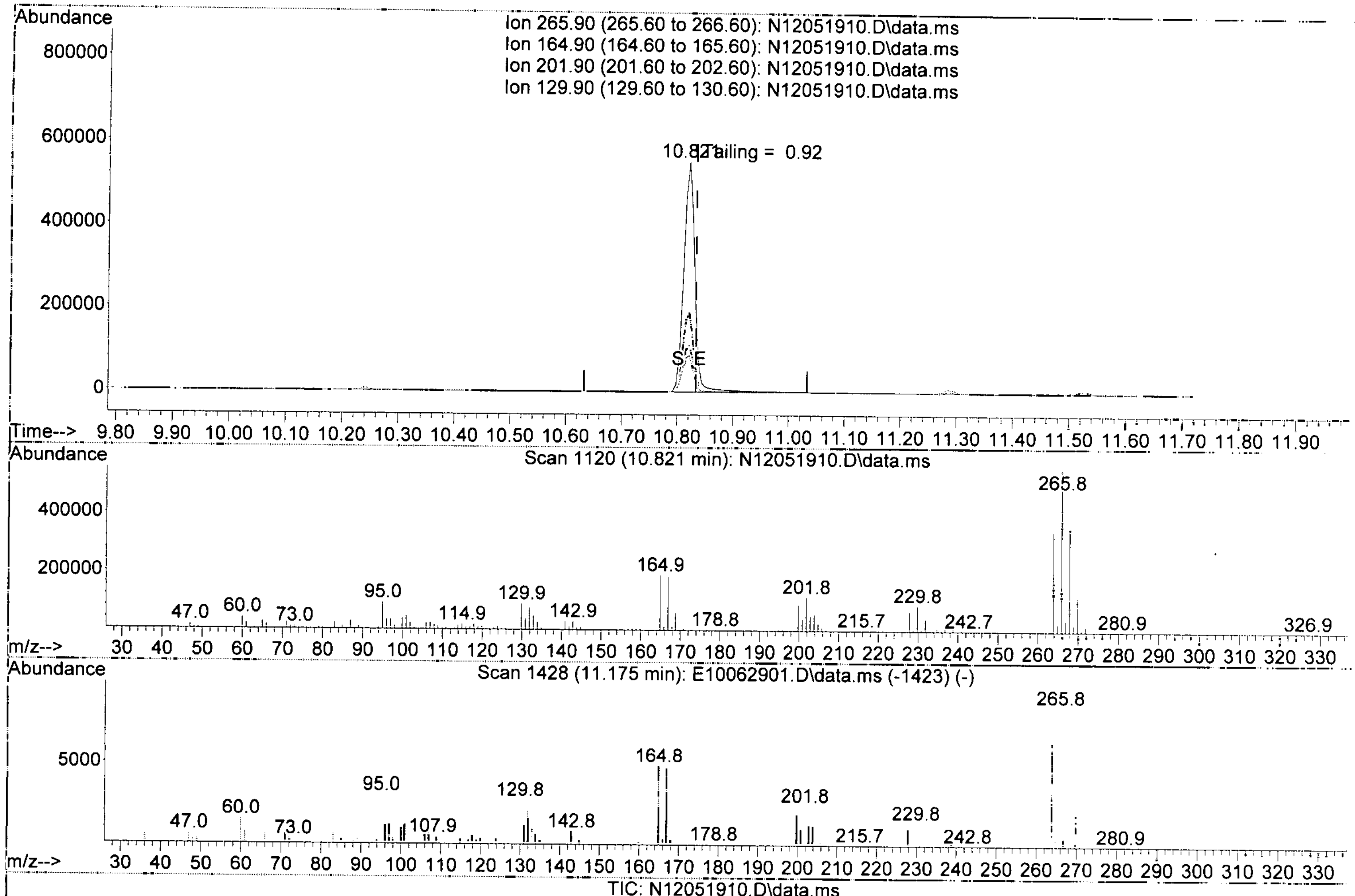
(#) = qualifier out of range (m) = manual integration (+) = signals summed

J

Quantitation Report (Qedit)

```
Data Path : U:\data\2109-12\9L05045\
Data File : N12051910.D
Acq On    : 05 Dec 2019  02:54 pm
Operator  : JK/ AMS/ DTH
Sample    : 9L05045-TUN1
Misc      : 1x, A19K329 DFTPP@45
ALS Vial  : 1   Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Dec 05 17:40:01 2019
Quant Method : U:\methods\DFTPP.M
Quant Title  : 8270 DFTPP Tune Method
QLast Update : Wed Nov 06 13:10:03 2019
Response via : Initial Calibration
InstName   : SV-GCMS14
```



(4) Pentachlorophenol

10.821min (-0.012) 44.85 ug/mL

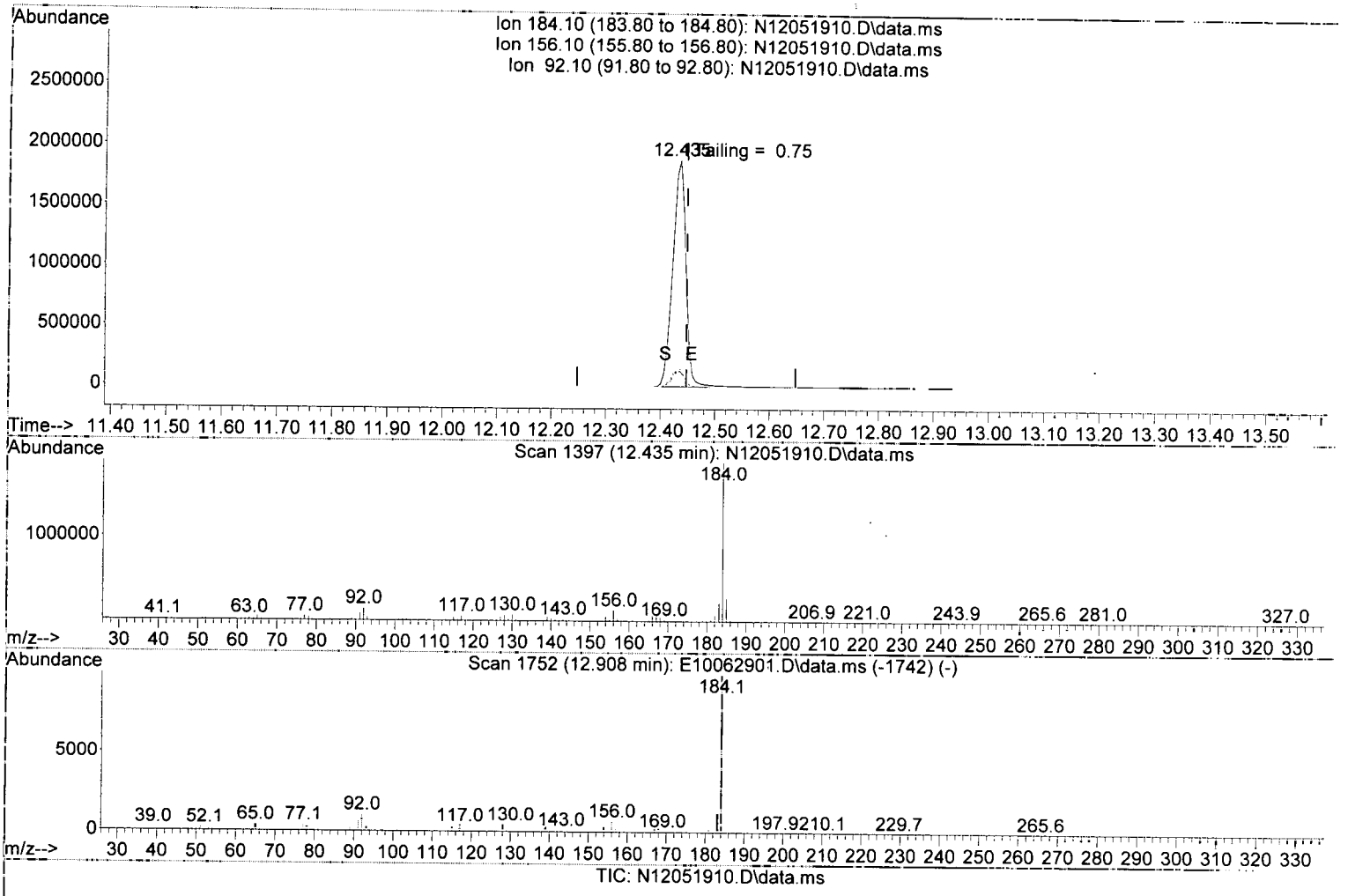
response 775654

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	34.30
201.90	25.80	20.77
129.90	27.30	16.01

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051910.D
Acq On : 05 Dec 2019 02:54 pm
Operator : JK/ AMS/ DTH
Sample : 9L05045-TUN1
Misc : 1x, A19K329 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Dec 05 17:40:01 2019
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Wed Nov 06 13:10:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(7) Benzidine

12.435min (-0.012) 27.33 ug/mL

response 3167700

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.92
92.10	8.20	7.59
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

From:
9L05045-TUN1
SV-GCMS14

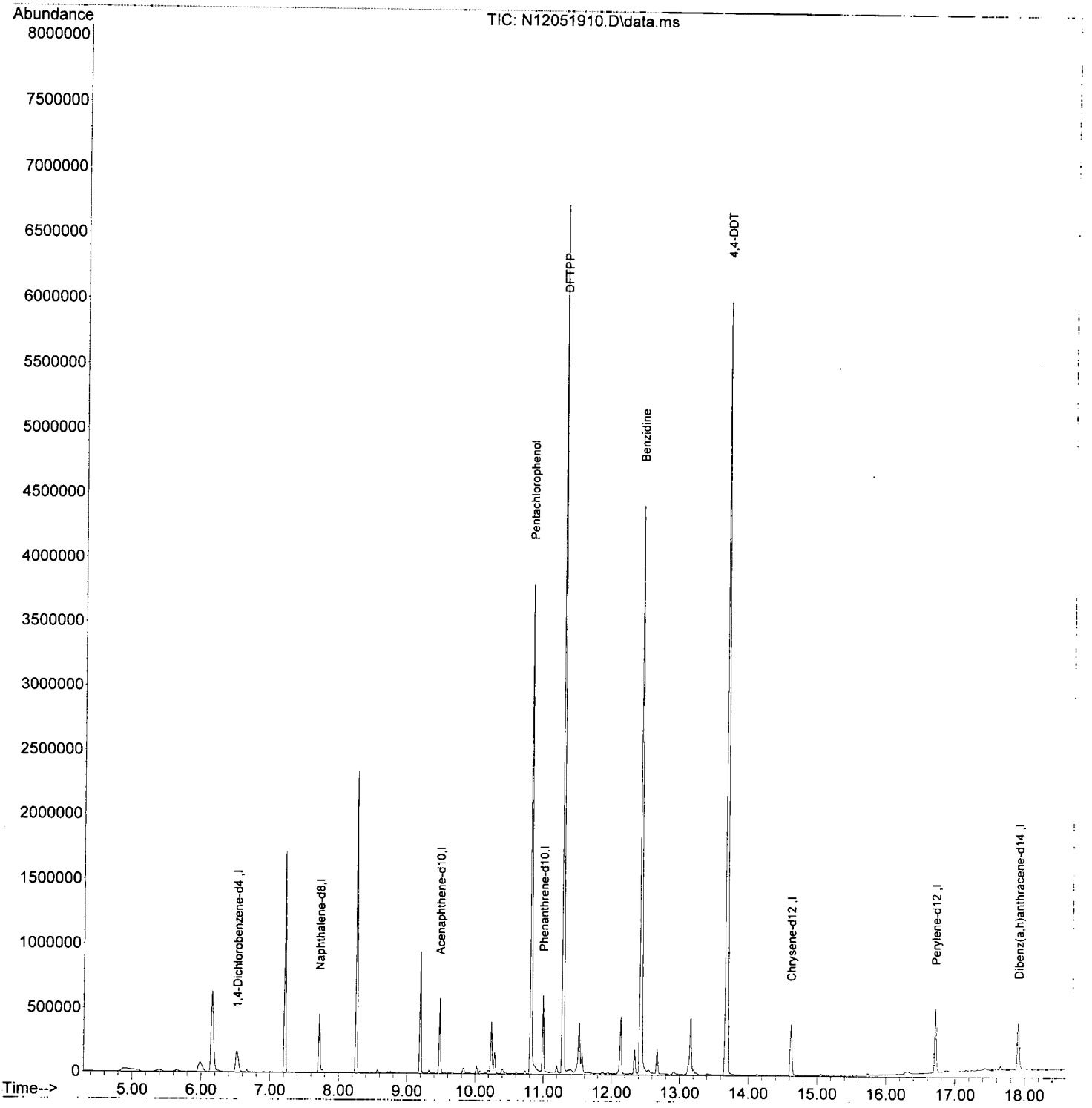
First Column Area Counts		Percent Breakdown
DDE	285282	
DDD	723815	
DDT	10885837	8.48 PASS

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051910.D
Acq On : 05 Dec 2019 02:54 pm
Operator : JK/ AMS/ DTH
Sample : 9L05045-TUN1
Misc : 1x, A19K329 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Dec 05 17:40:01 2019
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Wed Nov 06 13:10:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Evaluate Continuing Calibration Report

Data Path : U:\data\2109-12\9L05045\
Data File : N12051911.D
Acq On : 05 Dec 2019 03:22 pm
Operator : JK/ AMS/ DTH
Sample : 9L05045-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 05 17:42:37 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14

DTH 12/5/19

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	Naphthalene-d8 (ISTD)	100.000	100.000	0.0	119	0.00
2	S	Nitrobenzene-d5 (Surr)	50.000	47.540	4.9	116	0.00
3	T	Decalin	50.000	27.560	44.9#	65	0.00
4	T	Naphthalene	50.000	48.540	2.9	117	0.00
5	T	2-Methylnaphthalene	50.000	40.534	18.9	95	0.00
6	T	1-Methylnaphthalene	50.000	41.549	16.9	96	0.00
7	T	1,1'-Biphenyl	50.000	38.847	22.3#	92	0.00
8	T	2,6-Dimethylnaphthalene	50.000	37.962	24.1#	88	0.00
9	I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	93	0.00
10	S	2-Fluorobiphenyl (Surr)	50.000	52.206	-4.4	98	0.00
11	S	Acenaphthylene d-8 (Surr)	50.000	0.644	98.7#	4	0.00
12	T	Acenaphthylene	50.000	45.468	9.1	85	0.00
13	T	Acenaphthene	50.000	47.679	4.6	91	0.00
14	T	Dibenzofuran	50.000	46.959	6.1	88	0.00
15	T	1,6,7-Trimethylnaphthalene	50.000	47.340	5.3	90	0.00
16	T	Fluorene	50.000	46.308	7.4	87	0.00
17	I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	87	0.00
18	T	Dibenzothiopene	50.000	47.784	4.4	84	0.00
19	T	Phenanthrene	50.000	47.419	5.2	84	0.00
20	T	Anthracene	50.000	45.387	9.2	80	0.00
21	T	Carbazole	50.000	43.976	12.0	77	0.00
22	T	1-Methylphenanthrene	50.000	48.897	2.2	86	0.00
23	T	Fluoranthene	50.000	48.767	2.5	85	0.00
24	I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	97	0.00
25	T	Pyrene	50.000	44.460	11.1	86	0.00
26	S	Terphenyl-d14 (Surr)	50.000	46.150	7.7	90	0.00
27	T	Benz(a)anthracene	50.000	44.713	10.6	92	0.00
28	T	Chrysene	50.000	46.109	7.8	91	0.01
29	I	Perylene-d12 (ISTD)	100.000	100.000	0.0	110	0.00
30	T	Benzo(b)fluoranthene	50.000	48.425	3.2	106	0.00
31	T	Benzo(k)fluoranthene	50.000	48.248	3.5	108	0.00
32	T	Benzo(b+k)fluoranthene	100.000	96.072	3.9	106	0.00
33	S	Benzo(a)pyrene d-12 (Surr)	50.000	0.000	100.0#	0	-18.02#
34	T	Benzo(e)pyrene	50.000	45.882	8.2	103	0.00
35	T	Benzo(a)pyrene	50.000	49.490	1.0	107	0.00
36	T	Perylene	50.000	48.201	3.6	106	0.01
37	I	Dibenz(a,h)Anthrcene-d14(IS	100.000	100.000	0.0	143	0.01
38	T	Indeno(1,2,3-cd)Pyrene	50.000	45.268	9.5	130	0.01
39	T	Dibenz(a,h)anthracene	50.000	47.472	5.1	137	0.00
40	T	Benzo(g,h,i)perylene	50.000	45.065	9.9	127	0.01

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051911.D
Acq On : 05 Dec 2019 03:22 pm
Operator : JK/ AMS/ DTH
Sample : 9L05045-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 05 17:42:37 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14

DTH 12/5/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.790	136	175985	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.539	162	109857	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.048	188	190548	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.732	240	164589	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.200	264	157007	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.590	292	133037	100.00	ng/ml	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.096	82	27801	47.54	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.857	172	85560	52.21	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.387	160	4617	0.64	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.797	244	79886	46.15	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.260	138	3611	27.56	ng/ml	86
4) Naphthalene	7.808	128	94215	48.54	ng/ml	100
5) 2-Methylnaphthalene	8.489	142	66669	40.53	ng/ml	98
6) 1-Methylnaphthalene	8.594	142	68327	41.55	ng/ml	98
7) 1,1'-Biphenyl	8.956	154	85935	38.85	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.119	156	61329	37.96	ng/ml	98
12) Acenaphthylene	9.399	152	108440	45.47	ng/ml	99
13) Acenaphthene	9.574	153	74480	47.68	ng/ml	99
14) Dibenzofuran	9.748	168	91881	46.96	ng/ml	95
15) 1,6,7-Trimethylnaphtha...	9.958	170	62019	47.34	ng/ml	98
16) Fluorene	10.098	166	74024	46.31	ng/ml	99
18) Dibenzothiopene	10.943	184	95229	47.78	ng/ml	96
19) Phenanthrene	11.072	178	105732	47.42	ng/ml	99
20) Anthracene	11.124	178	94132	45.39	ng/ml	100
21) Carbazole	11.287	167	73802	43.98	ng/ml	99
22) 1-Methylphenanthrene	11.695	192	75738	48.90	ng/ml	99
23) Fluoranthene	12.325	202	109556	48.77	ng/ml	95
25) Pyrene	12.604	202	114325	44.46	ng/ml	100
27) Benz(a)anthracene	14.714	228	85442	44.71	ng/ml	99
28) Chrysene	14.796	228	83382	46.11	ng/ml	99
30) Benzo(b)fluoranthene	17.291	252	87731	48.43	ng/ml	93
31) Benzo(k)fluoranthene	17.355	252	86063	48.25	ng/ml	92
32) Benzo(b+k)fluoranthene	17.291	252	178031	96.07	ng/ml	91
34) Benzo(e)pyrene	17.944	252	84051	45.88	ng/ml	98
35) Benzo(a)pyrene	18.060	252	76742	49.49	ng/ml	96
36) Perylene	18.264	252	92058	48.20	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.596	276	74273	45.27	ng/ml	77
39) Dibenz(a,h)anthracene	20.654	278	73187	47.47	ng/ml	81
40) Benzo(g,h,i)perylene	21.132	276	78437	45.07	ng/ml	99

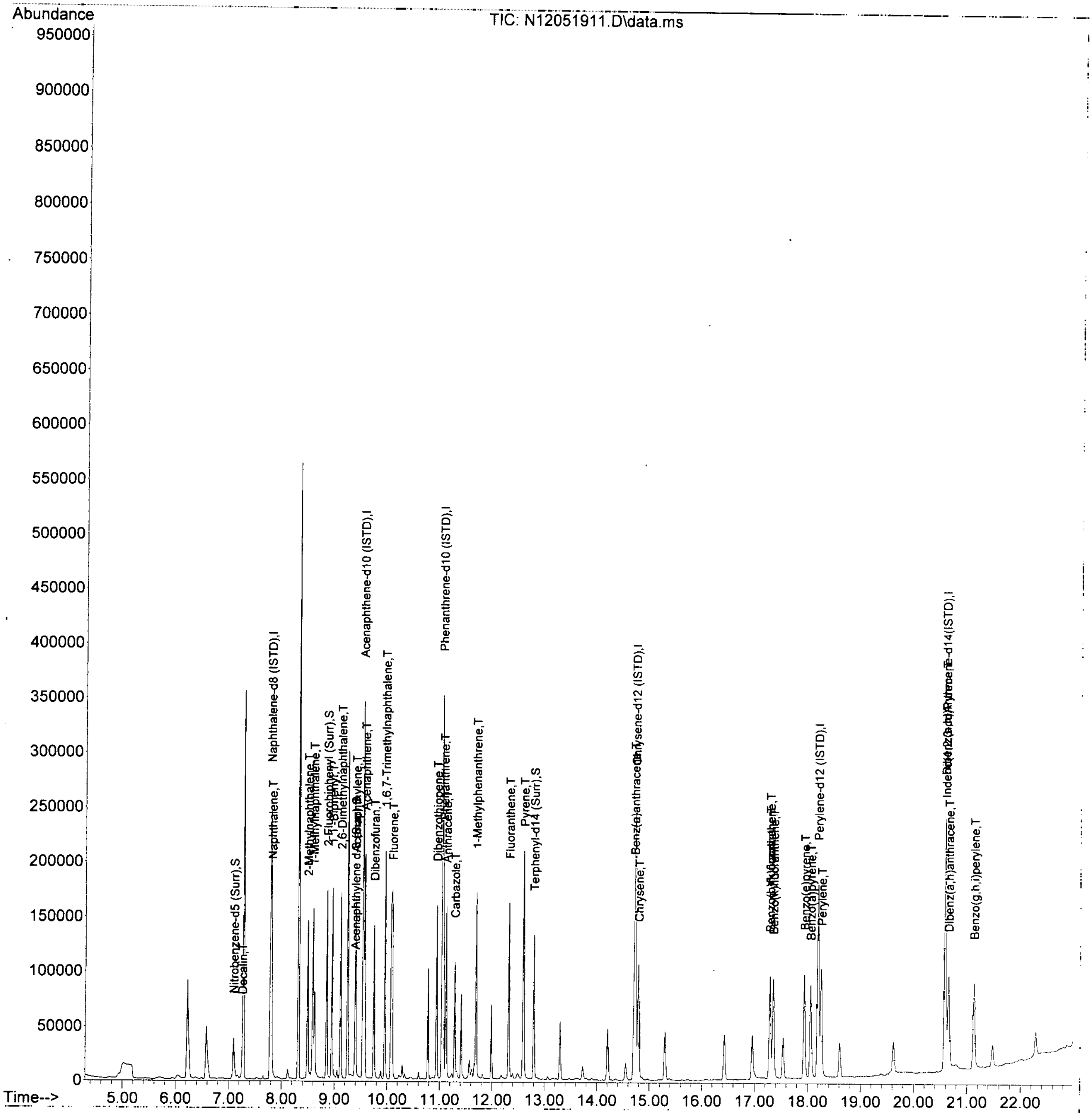
(#) = qualifier out of range (m) = manual integration (+) = signals summed

J

Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051911.D
Acq On : 05 Dec 2019 03:22 pm
Operator : JK/ AMS/ DTH
Sample : 9L05045-CCV1
Misc : 1x, A19K012@50
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 05 17:42:37 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051912.D
Acq On : 05 Dec 2019 03:54 pm
Operator : JK/ AMS/ DTH
Sample : 9L05045-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 05 17:43:44 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14

DNT 12/5/19

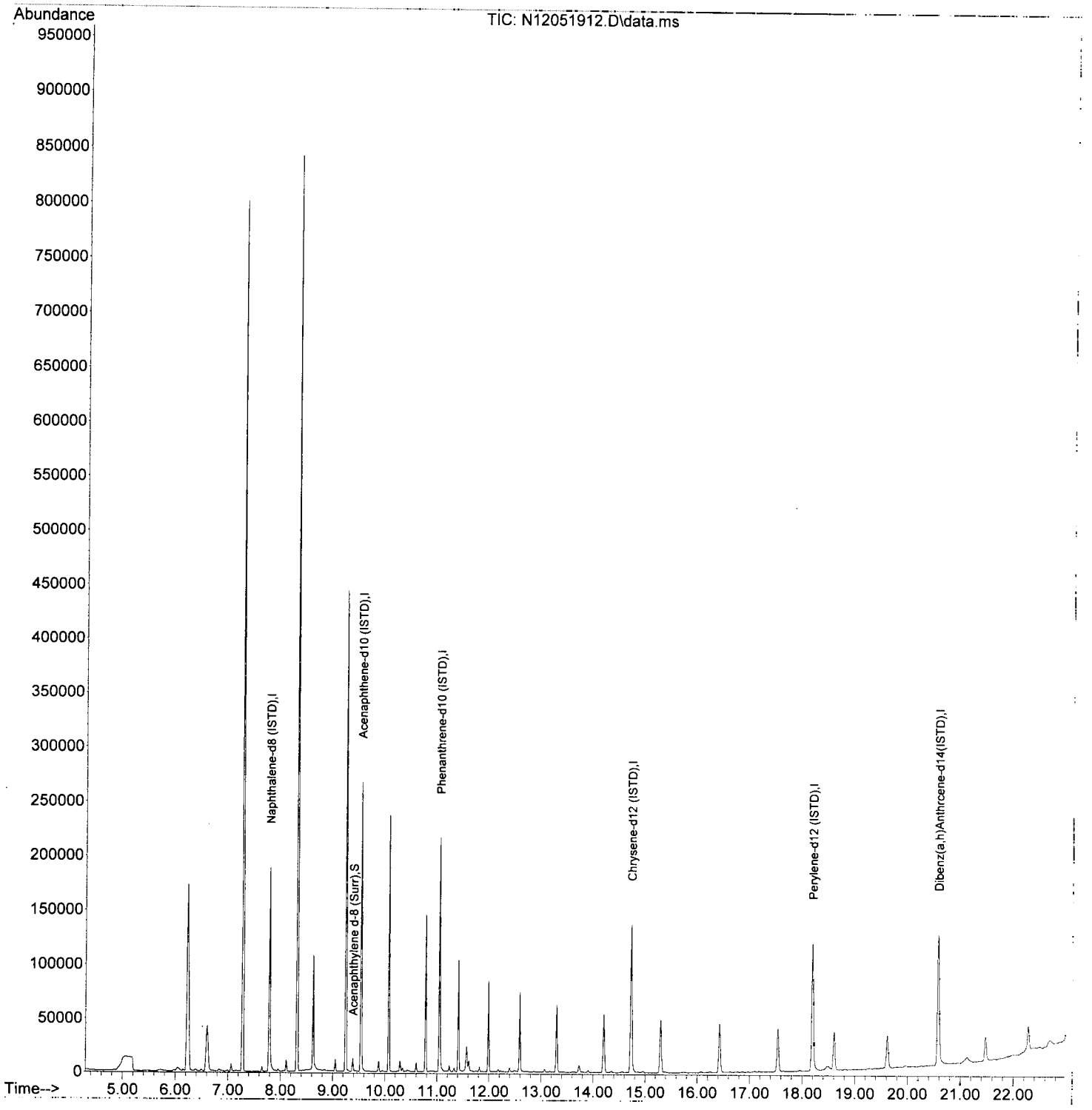
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.790	136	145509	100.00 ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.538	162	84735	100.00 ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.048	188	125078	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.732	240	108921	100.00 ng/ml	0.00
29) Perylene-d12 (ISTD)	18.200	264	106644	100.00 ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.584	292	96042	100.00 ng/ml	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00 ng/ml	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00 ng/ml	
11) Acenaphthylene d-8 (Surr)	9.387	160	8366	3.48 ng/ml	0.00
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00 ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00 ng/ml	
Target Compounds					Qvalue
3) Decalin	0.000		0	N.D.	
4) Naphthalene	7.813	128	173	N.D.	
5) 2-Methylnaphthalene	0.000		0	N.D.	
6) 1-Methylnaphthalene	0.000		0	N.D.	
7) 1,1'-Biphenyl	0.000		0	N.D.	
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.	
12) Acenaphthylene	0.000		0	N.D.	
13) Acenaphthene	0.000		0	N.D.	
14) Dibenzofuran	0.000		0	N.D.	
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.	
16) Fluorene	0.000		0	N.D.	
18) Dibenzothiopene	0.000		0	N.D.	
19) Phenanthrene	11.071	178	126	N.D.	
20) Anthracene	11.071	178	126	N.D.	
21) Carbazole	11.567	167	115	N.D.	
22) 1-Methylphenanthrene	0.000		0	N.D.	
23) Fluoranthene	0.000		0	N.D.	
25) Pyrene	12.598	202	66	N.D.	
27) Benz(a)anthracene	14.732	228	308	N.D.	
28) Chrysene	14.796	228	70	N.D.	
30) Benzo(b)fluoranthene	0.000		0	N.D.	
31) Benzo(k)fluoranthene	0.000		0	N.D.	
32) Benzo(b+k)fluoranthene	0.000		0	N.D.	
34) Benzo(e)pyrene	17.943	252	77	N.D.	
35) Benzo(a)pyrene	0.000		0	N.D.	
36) Perylene	18.252	252	153	N.D.	
38) Indeno(1,2,3-cd)Pyrene	20.590	276	194	N.D.	
39) Dibenz(a,h)anthracene	20.654	278	261	N.D.	
40) Benzo(g,h,i)perylene	21.132	276	233	N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051912.D
Acq On : 05 Dec 2019 03:54 pm
Operator : JK/ AMS/ DTH
Sample : 9L05045-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 05 17:43:44 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051913.D
Acq On : 05 Dec 2019 04:27 pm
Operator : JK/ AMS/ DTH
Sample : 9120555-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

DAK 12/5/19

Quant Time: Dec 05 17:43:52 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14

B

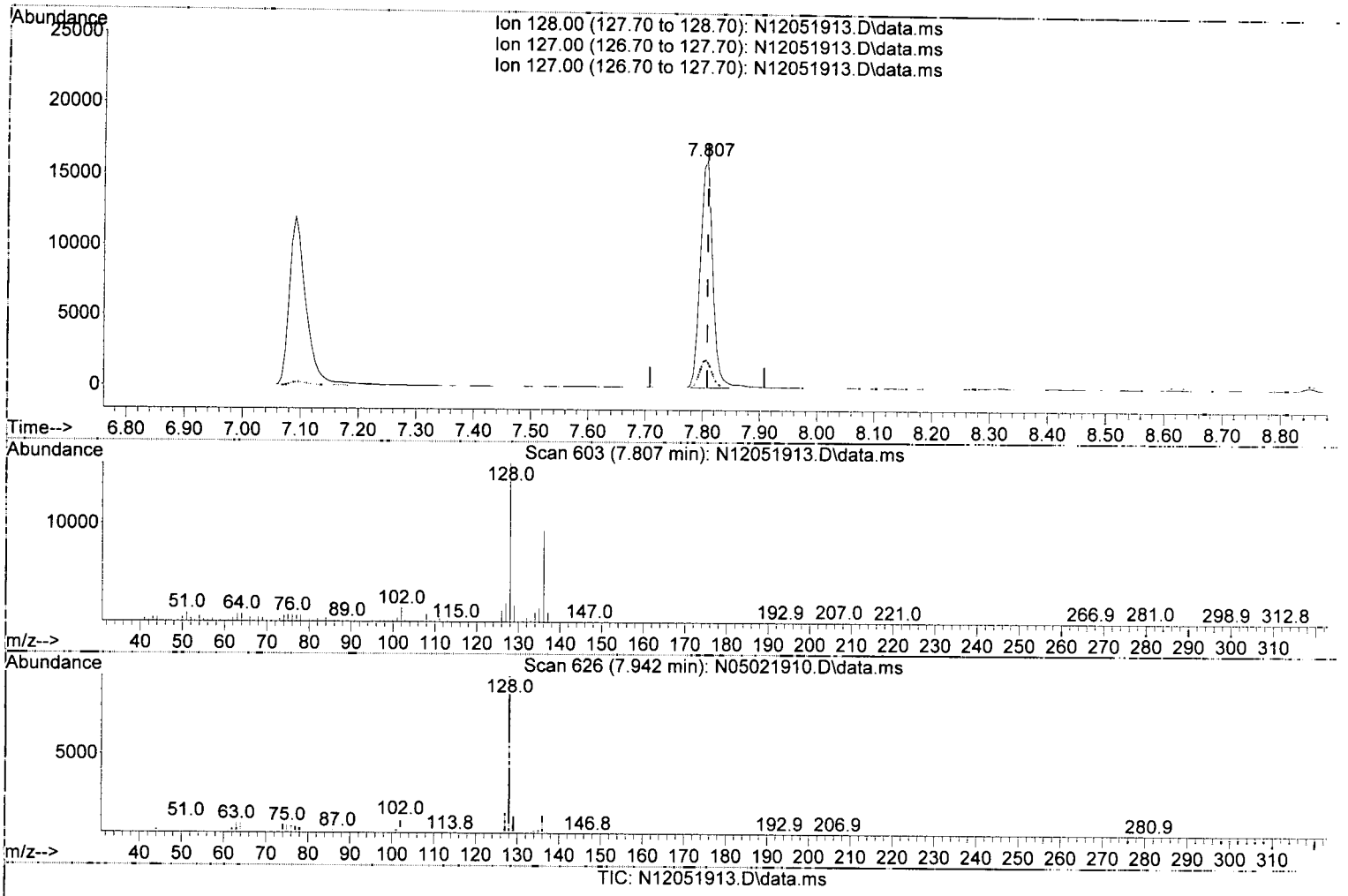
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.784	136	154641	100.00 ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.538	162	94054	100.00 ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.042	188	156863	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.726	240	142964	100.00 ng/ml	0.00
29) Perylene-d12 (ISTD)	18.194	264	140488	100.00 ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.578	292	120066	100.00 ng/ml	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	7.090	82	45426	88.40 ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.851	172	127525	90.89 ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.381	160	2668	-1.00 ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.797	244	138315	91.99 ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00 ng/ml	
Target Compounds					Qvalue
3) Decalin	0.000		0	N.D.	
4) Naphthalene	7.807	128	24789	14.53 ng/ml	99
5) 2-Methylnaphthalene	8.489	142	2030	1.40 ng/ml	97
6) 1-Methylnaphthalene	8.588	142	1250	0.87 ng/ml	98
7) 1,1'-Biphenyl	8.956	154	761	N.D.	
8) 2,6-Dimethylnaphthalene	9.125	156	319	N.D.	
12) Acenaphthylene	9.393	152	383	N.D.	
13) Acenaphthene	9.568	153	779	0.58 ng/ml	90
14) Dibenzofuran	9.748	168	202	N.D.	
15) 1,6,7-Trimethylnaphtha...	9.952	170	119	N.D.	
16) Fluorene	10.092	166	486	N.D.	
18) Dibenzothiopene	10.943	184	269	N.D.	
19) Phenanthrene	11.066	178	2143	1.17 ng/ml	96
20) Anthracene	11.118	178	352	N.D.	
21) Carbazole	11.328	167	254	N.D.	
22) 1-Methylphenanthrene	11.695	192	153	N.D.	
23) Fluoranthene	12.319	202	953	0.52 ng/ml	97
25) Pyrene	12.599	202	1315	0.59 ng/ml	97
27) Benz(a)anthracene	14.726	228	588	N.D.	
28) Chrysene	14.784	228	325	N.D.	
30) Benzo(b)fluoranthene	17.296	252	289	N.D.	
31) Benzo(k)fluoranthene	17.296	252	386	N.D.	
32) Benzo(b+k)fluoranthene	17.296	252	386	N.D.	
34) Benzo(e)pyrene	17.938	252	205	N.D.	
35) Benzo(a)pyrene	18.054	252	242	N.D.	
36) Perylene	18.258	252	57	N.D.	
38) Indeno(1,2,3-cd)Pyrene	20.584	276	191	N.D.	
39) Dibenz(a,h)anthracene	20.648	278	51	N.D.	
40) Benzo(g,h,i)perylene	21.126	276	157	N.D.	

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

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051913.D
Acq On : 05 Dec 2019 04:27 pm
Operator : JK/ AMS/ DTH
Sample : 9120555-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 05 17:43:52 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051913.D\data.ms

(4) Naphthalene (T)

7.807min (-0.000) 14.53 ng/ml

B

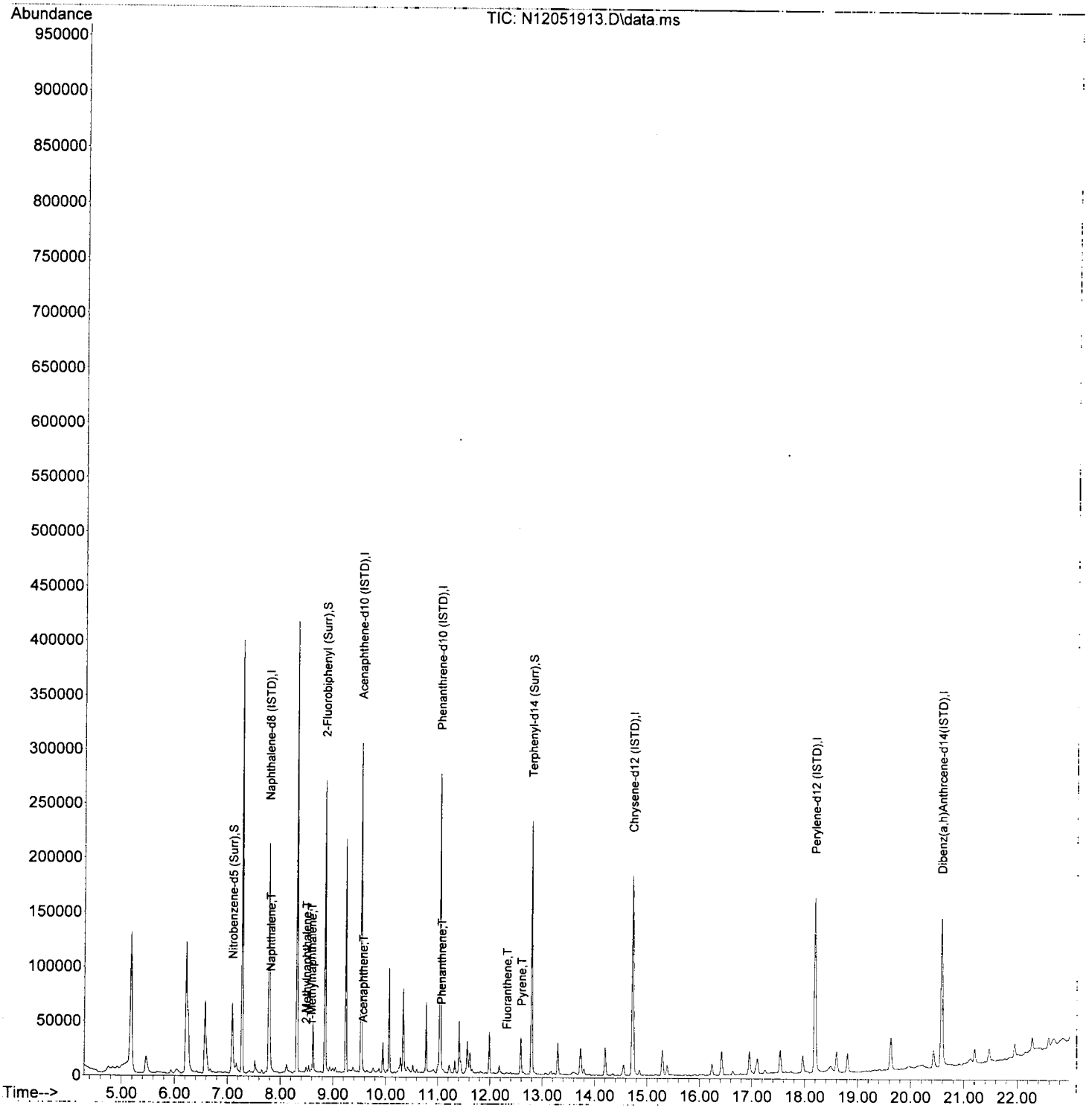
response 24789

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.16
127.00	12.60	12.16
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051913.D
Acq On : 05 Dec 2019 04:27 pm
Operator : JK/ AMS/ DTH
Sample : 9120555-BLK1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 05 17:43:52 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051914.D
Acq On : 05 Dec 2019 04:59 pm
Operator : JK/ AMS/ DTH
Sample : 9120555-BS1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 05 17:44:17 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14

DTH 12/5/19

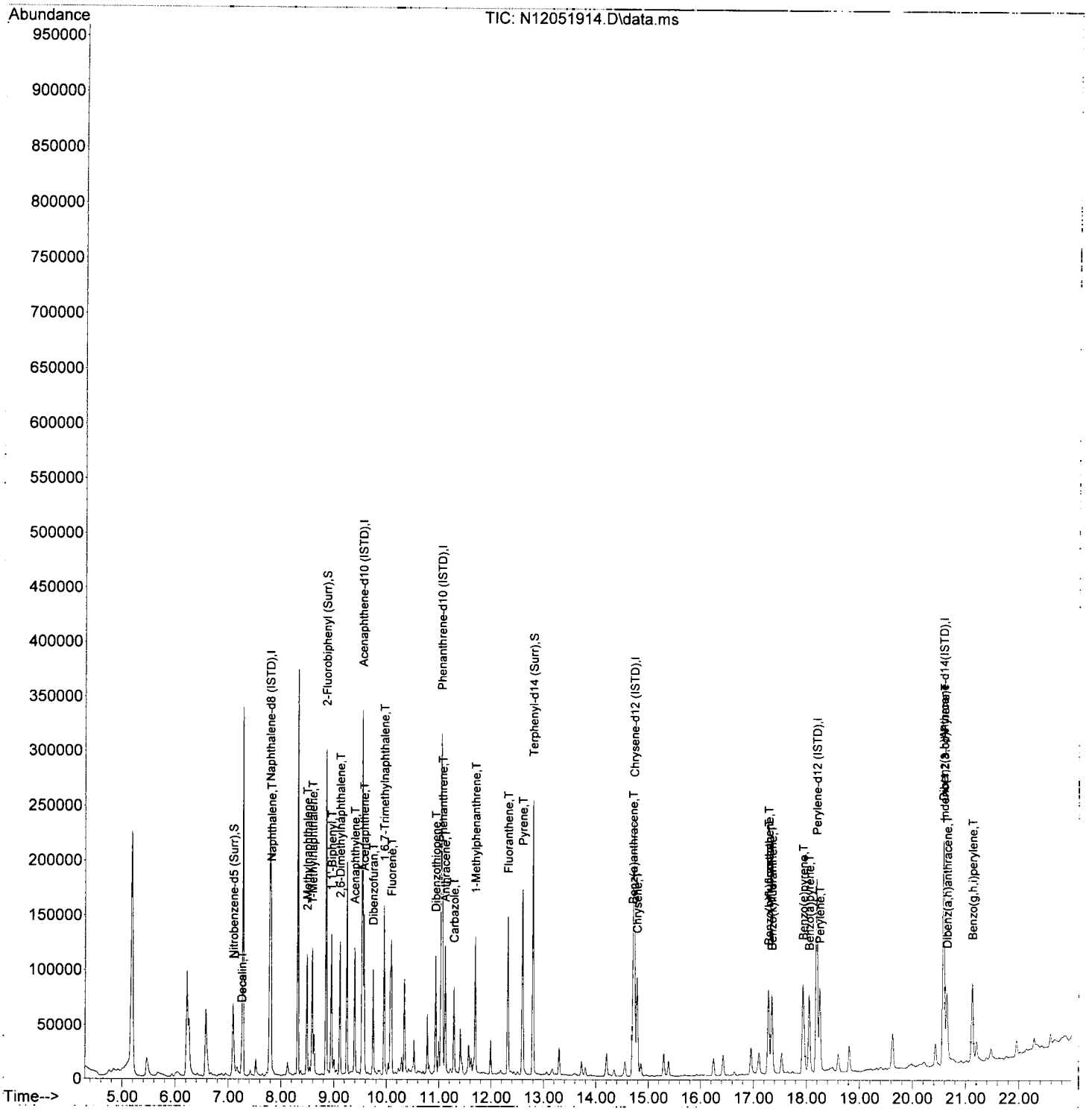
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.784	136	162573	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.539	162	99578	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.042	188	172919	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.726	240	158580	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.194	264	155284	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.578	292	132594	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.091	82	46435	85.96	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.851	172	140468	94.56	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.381	160	2876	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.797	244	147665	88.54	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	7.254	138	3440	28.42	ng/ml	83
4) Naphthalene	7.808	128	108675	60.61	ng/ml	99
5) 2-Methylnaphthalene	8.489	142	48923	32.20	ng/ml	98
6) 1-Methylnaphthalene	8.589	142	49348	32.48	ng/ml	98
7) 1,1'-Biphenyl	8.950	154	60941	29.82	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.113	156	43351	29.05	ng/ml	98
12) Acenaphthylene	9.393	152	77055	35.64	ng/ml	98
13) Acenaphthene	9.568	153	53756	37.96	ng/ml	100
14) Dibenzofuran	9.743	168	63560	35.84	ng/ml	95
15) 1,6,7-Trimethylnaphtha...	9.952	170	44512	37.48	ng/ml	99
16) Fluorene	10.092	166	53035	36.60	ng/ml	100
18) Dibenzothiopene	10.938	184	67579	37.37	ng/ml	96
19) Phenanthrene	11.066	178	89138	44.05	ng/ml	100
20) Anthracene	11.118	178	70846	37.64	ng/ml	100
21) Carbazole	11.287	167	54659	35.89	ng/ml	98
22) 1-Methylphenanthrene	11.695	192	54132	38.51	ng/ml	98
23) Fluoranthene	12.319	202	95318	46.75	ng/ml	96
25) Pyrene	12.599	202	104147	42.04	ng/ml	99
27) Benz(a)anthracene	14.703	228	69199	37.58	ng/ml	95
28) Chrysene	14.784	228	71968	41.31	ng/ml	99
30) Benzo(b)fluoranthene	17.285	252	75220	41.98	ng/ml	93
31) Benzo(k)fluoranthene	17.349	252	67907	38.49	ng/ml	92
32) Benzo(b+k)fluoranthene	17.285	252	146316	79.83	ng/ml	90
34) Benzo(e)pyrene	17.938	252	70960	39.17	ng/ml	99
35) Benzo(a)pyrene	18.054	252	65084	42.44	ng/ml	96
36) Perylene	18.252	252	71363	37.78	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.590	276	64799	39.63	ng/ml	78
39) Dibenz(a,h)anthracene	20.648	278	56188	36.57	ng/ml	83
40) Benzo(g,h,i)perylene	21.126	276	70037	40.37	ng/ml	98

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051914.D
Acq On : 05 Dec 2019 04:59 pm
Operator : JK/ AMS/ DTH
Sample : 9120555-BS1
Misc : 1x, 8270D LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 05 17:44:17 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14

DTH 12/6/19

MOS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.784	136	158795	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.538	162	99171	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.042	188	155968	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.726	240	132299	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.194	264	128496	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.578	292	106470	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.073	82	51	0.10	ng/ml	-0.02
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.381	160	3795	0.46	ng/ml	0.00
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.801	128	395471	225.80	ng/ml	100
5) 2-Methylnaphthalene	8.489	142	77703	52.36	ng/ml	97
6) 1-Methylnaphthalene	8.588	142	43754	29.49	ng/ml	97
7) 1,1'-Biphenyl	8.950	154	30133	15.10	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.119	156	16410	11.26	ng/ml	98
12) Acenaphthylene	9.393	152	7781	3.61	ng/ml	92
13) Acenaphthene	9.568	153	64549	45.77	ng/ml	100
14) Dibenzofuran	9.742	168	6669	3.78	ng/ml	92
15) 1,6,7-Trimethylnaphtha...	9.952	170	4930	4.17	ng/ml	92
16) Fluorene	10.092	166	34625	23.99	ng/ml	99
18) Dibenzothiopene	10.937	184	29194	17.90	ng/ml	96
19) Phenanthrene	11.066	178	256533	140.56	ng/ml	100
20) Anthracene	11.118	178	40936	24.11	ng/ml	98
21) Carbazole	11.287	167	3648	2.66	ng/ml	94
22) 1-Methylphenanthrene	11.689	192	8109	6.40	ng/ml	95
23) Fluoranthene	12.319	202	136393	74.17	ng/ml	96
25) Pyrene	12.598	202	174073	84.22	ng/ml	99
27) Benz(a)anthracene	14.703	228	26519	17.26	ng/ml#	56
28) Chrysene	14.784	228	31945	21.98	ng/ml	96
30) Benzo(b)fluoranthene	17.291	252	30657	20.68	ng/ml	92
31) Benzo(k)fluoranthene	~~17.291~~	~~252~~	~~36730~~	~~25.16~~	~~ng/ml~~	~~90~~
32) Benzo(b+k)fluoranthene	17.291	252	40393	26.63	ng/ml	90
34) Benzo(e)pyrene	17.932	252	21242	14.17	ng/ml	97
35) Benzo(a)pyrene	18.048	252	31158	24.55	ng/ml	95
36) Perylene	18.252	252	9292	5.94	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.584	276	22400	17.06	ng/ml	78
39) Dibenz(a,h)anthracene	20.642	278	2593	2.10	ng/ml	90
40) Benzo(g,h,i)perylene	21.120	276	28790	20.67	ng/ml	99

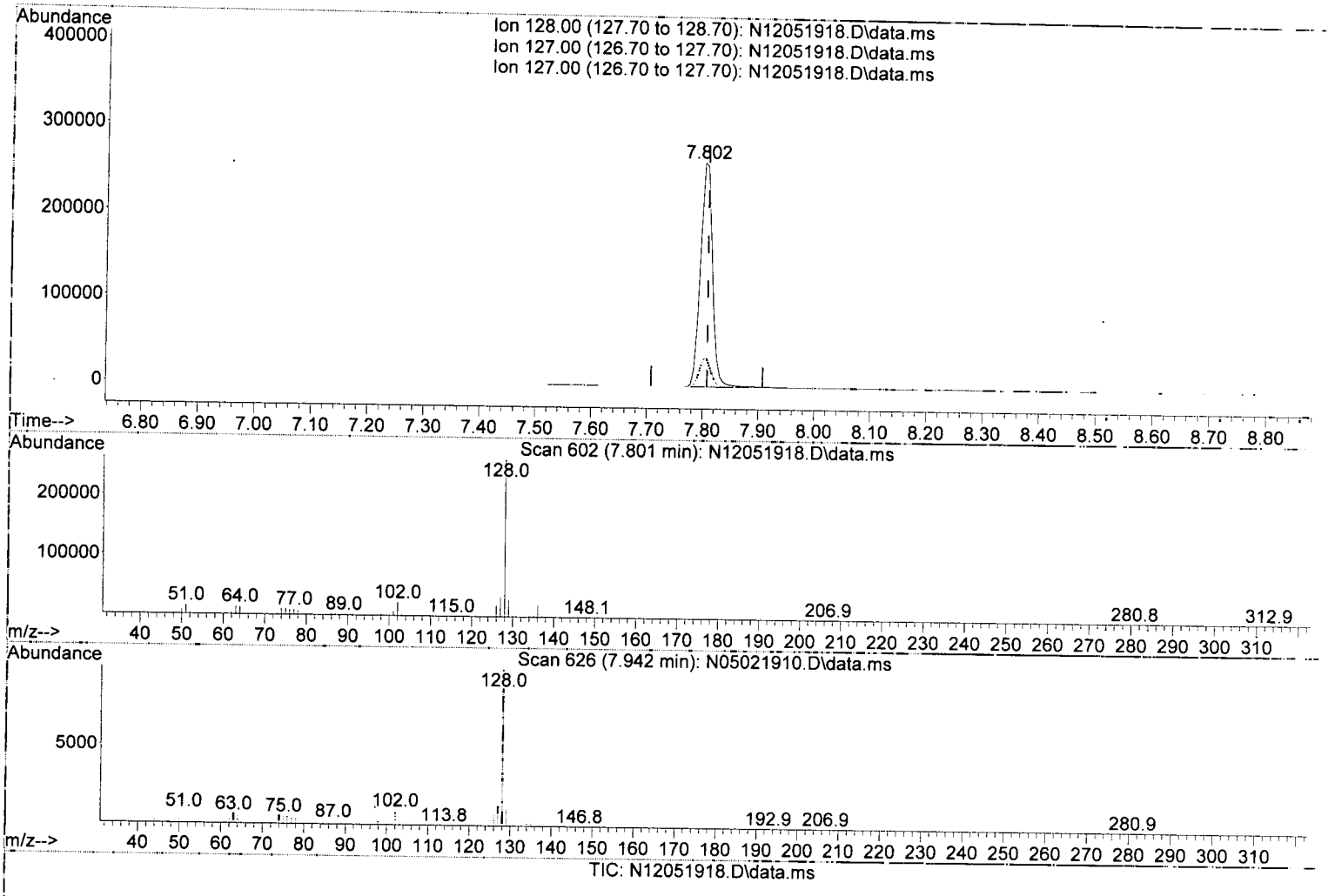
MI H,7 MOS

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

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051918.D\data.ms

(4) Naphthalene (T)

7.801min (-0.006) 225.80 ng/ml

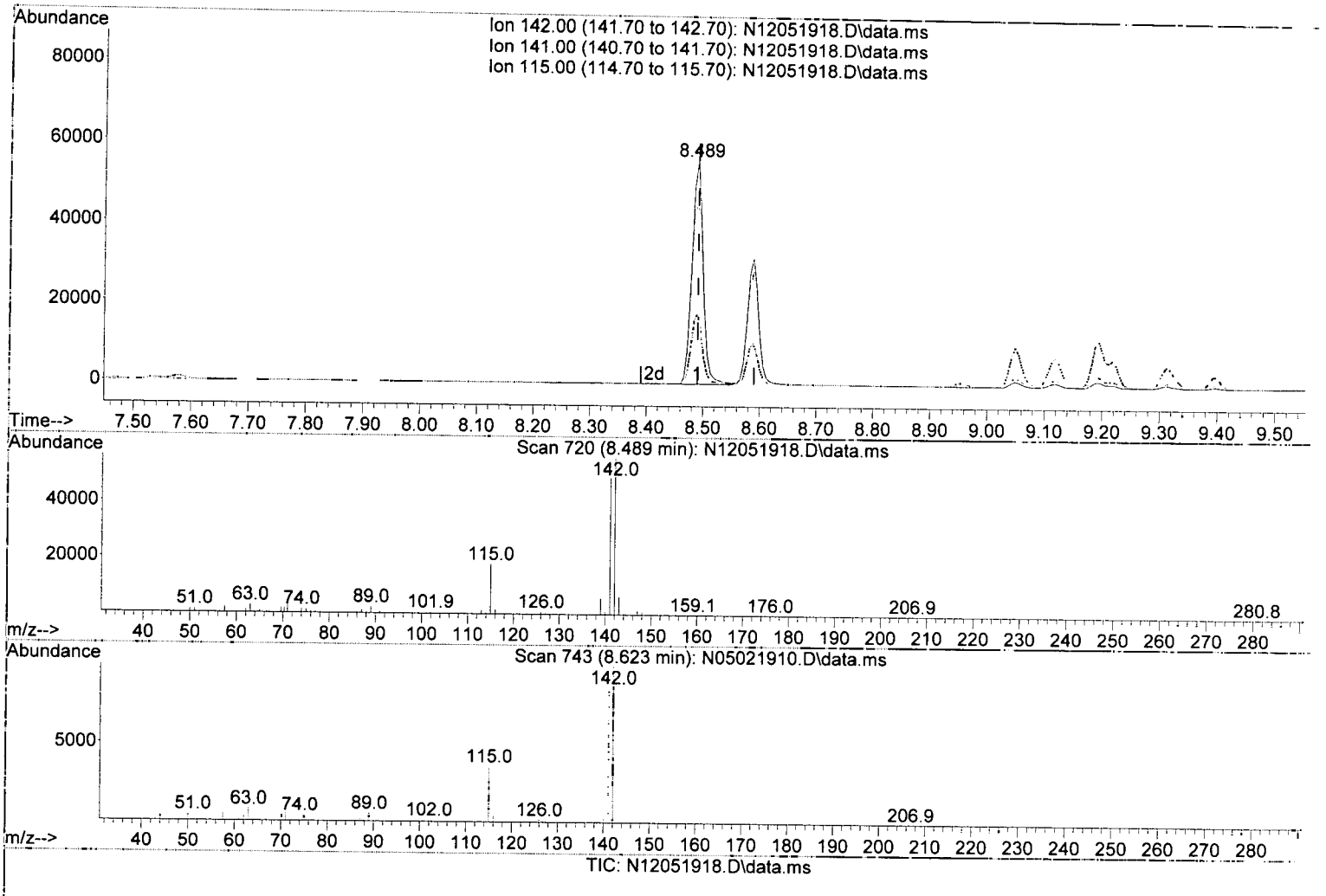
response 395471

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.72
127.00	12.60	12.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(5) 2-Methylnaphthalene (T)

8.489min (-0.000) 52.36 ng/ml

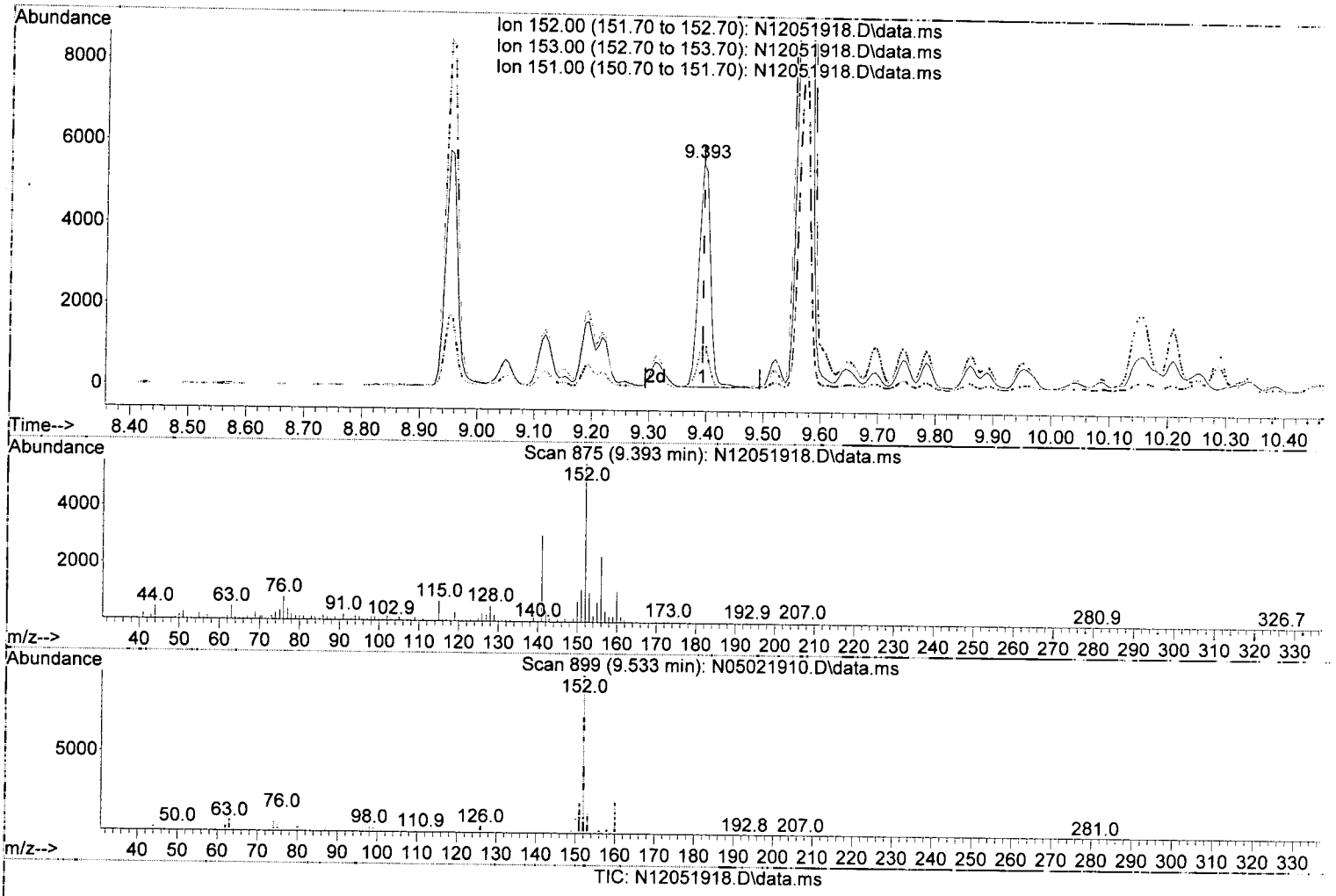
response 77703

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	87.56
115.00	35.70	31.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(12) Acenaphthylene (T)

9.393min (-0.000) 3.61 ng/ml

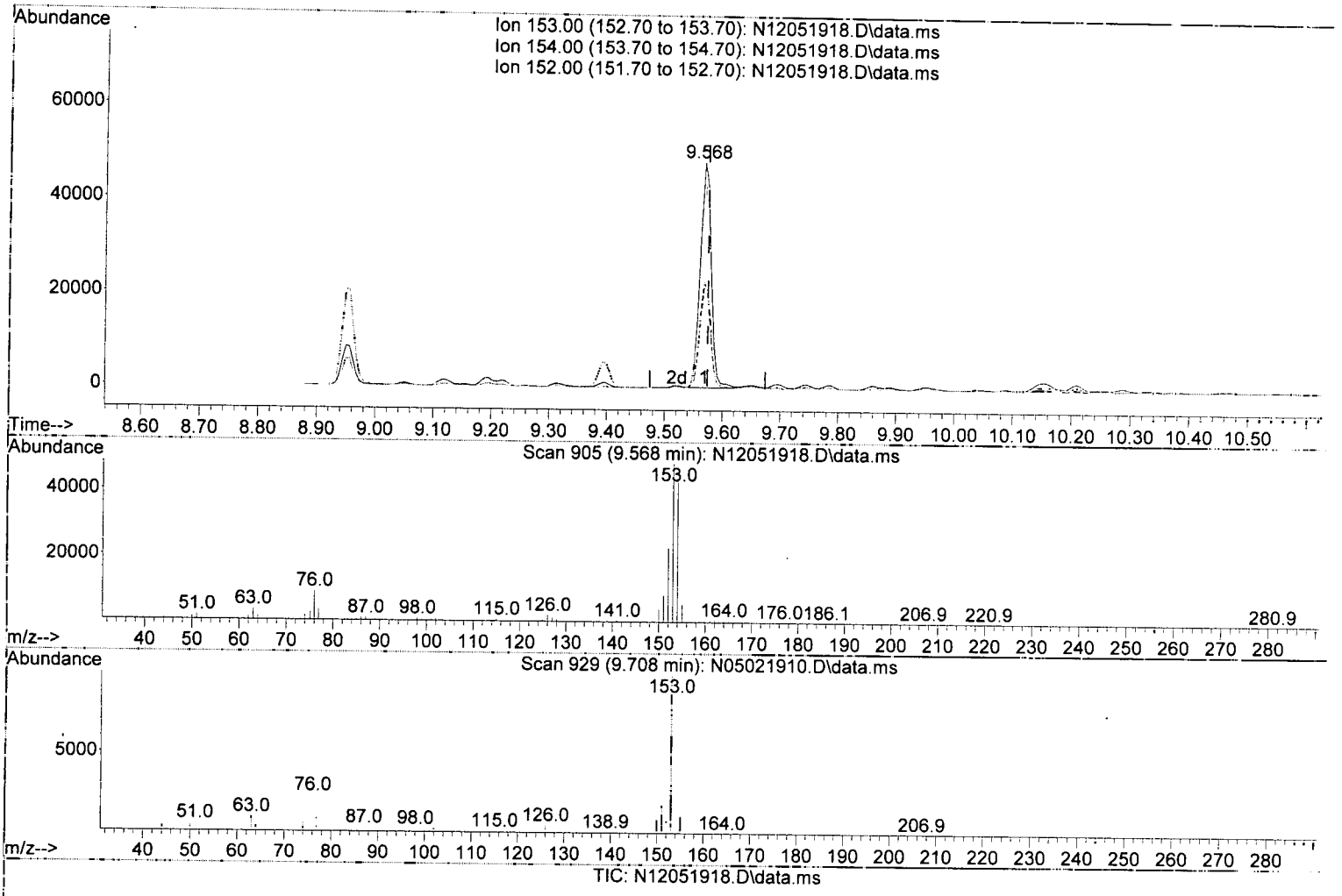
response 7781

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	18.90
151.00	19.30	20.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(13) Acenaphthene (T)

9.568min (-0.006) 45.77 ng/ml

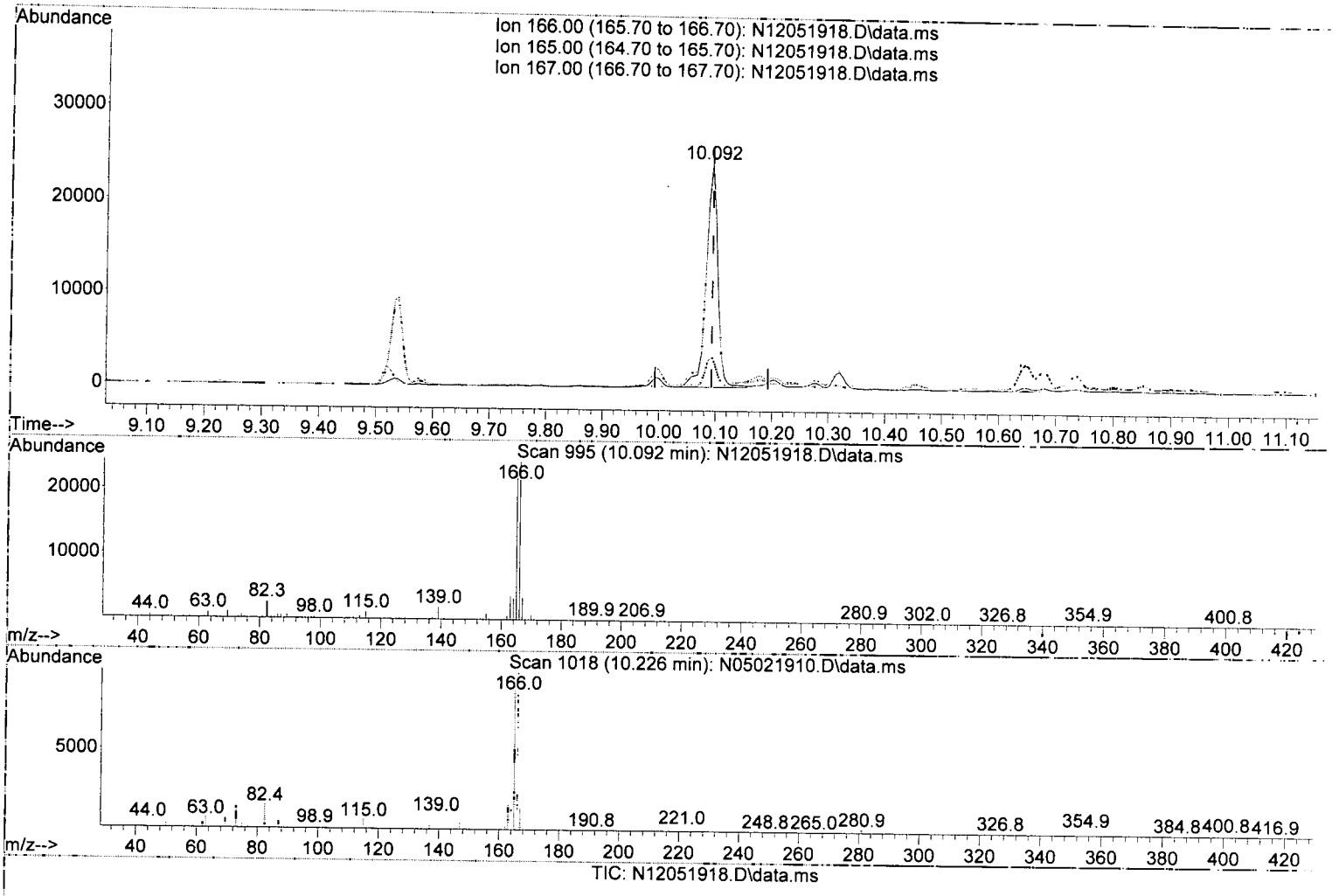
response 64549

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.71
152.00	46.80	47.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051918.D\data.ms

(16) Fluorene (T)

10.092min (-0.000) 23.99 ng/ml

response 34625

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	95.33
167.00	13.60	14.27
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On    : 05 Dec 2019  07:08 pm
Operator  : JK/ AMS/ DTH
Sample    : A9J0514-18@10000
Misc      : 10000x, 8270D LL PAH ONLY
ALS Vial  : 9   Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title  : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName   : SV-GCMS14
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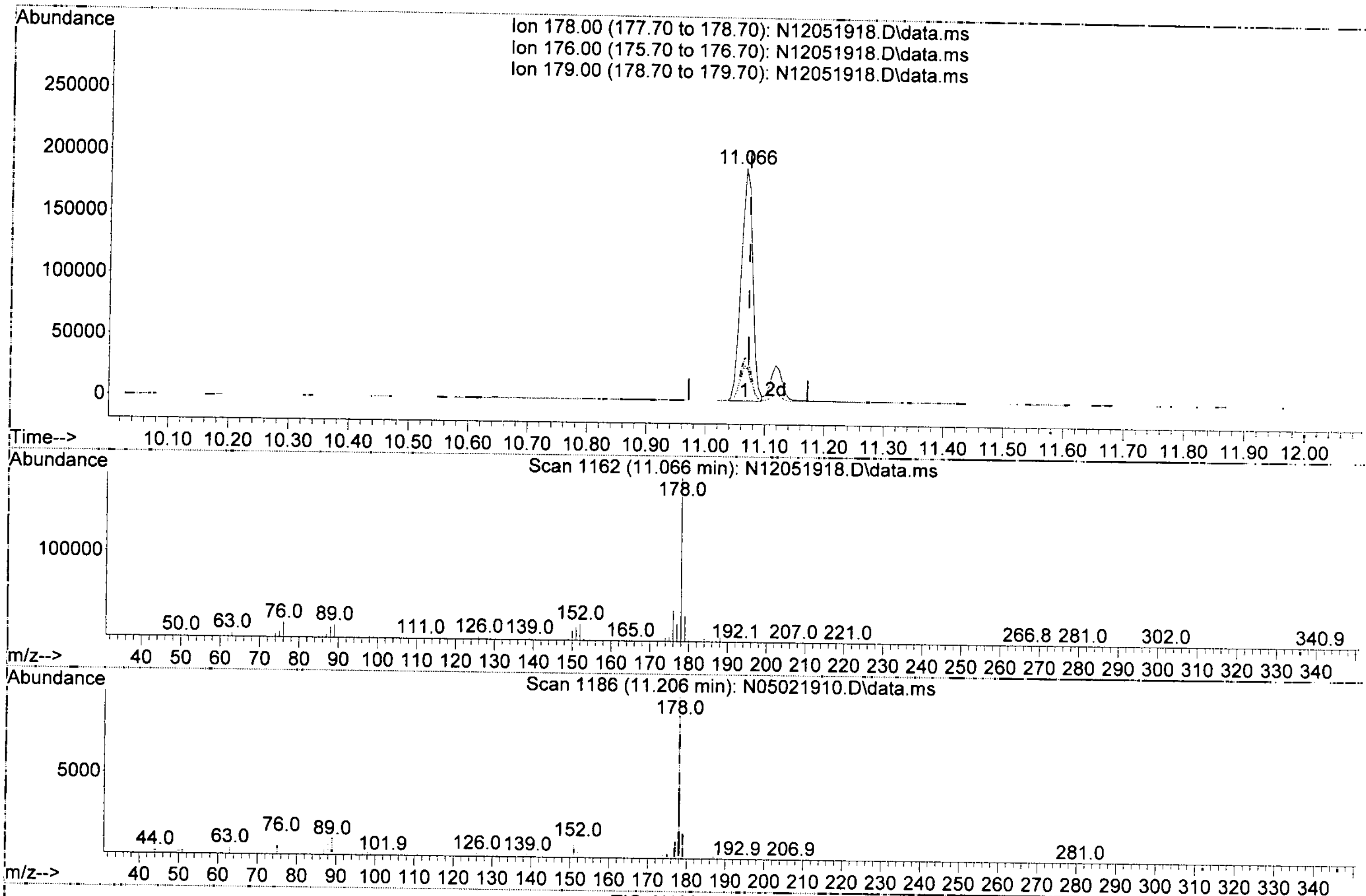


TIC: N12051918.D\data.ms

(19) Phenanthrene (T)

11.066min (-0.006) 140.56 ng/ml

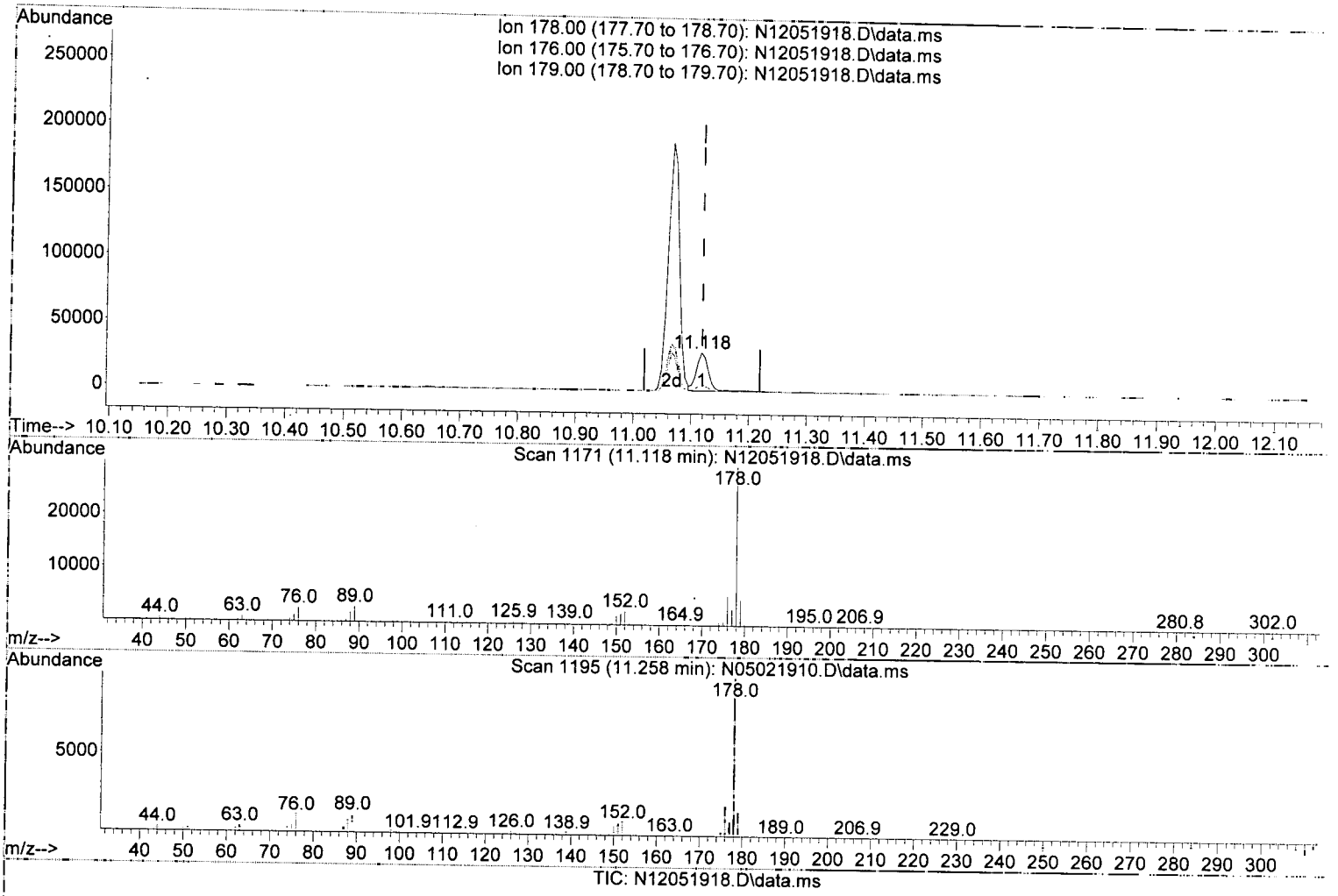
response 256533

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.79
179.00	15.10	15.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(20) Anthracene (T)

11.118min (-0.000) 24.11 ng/ml

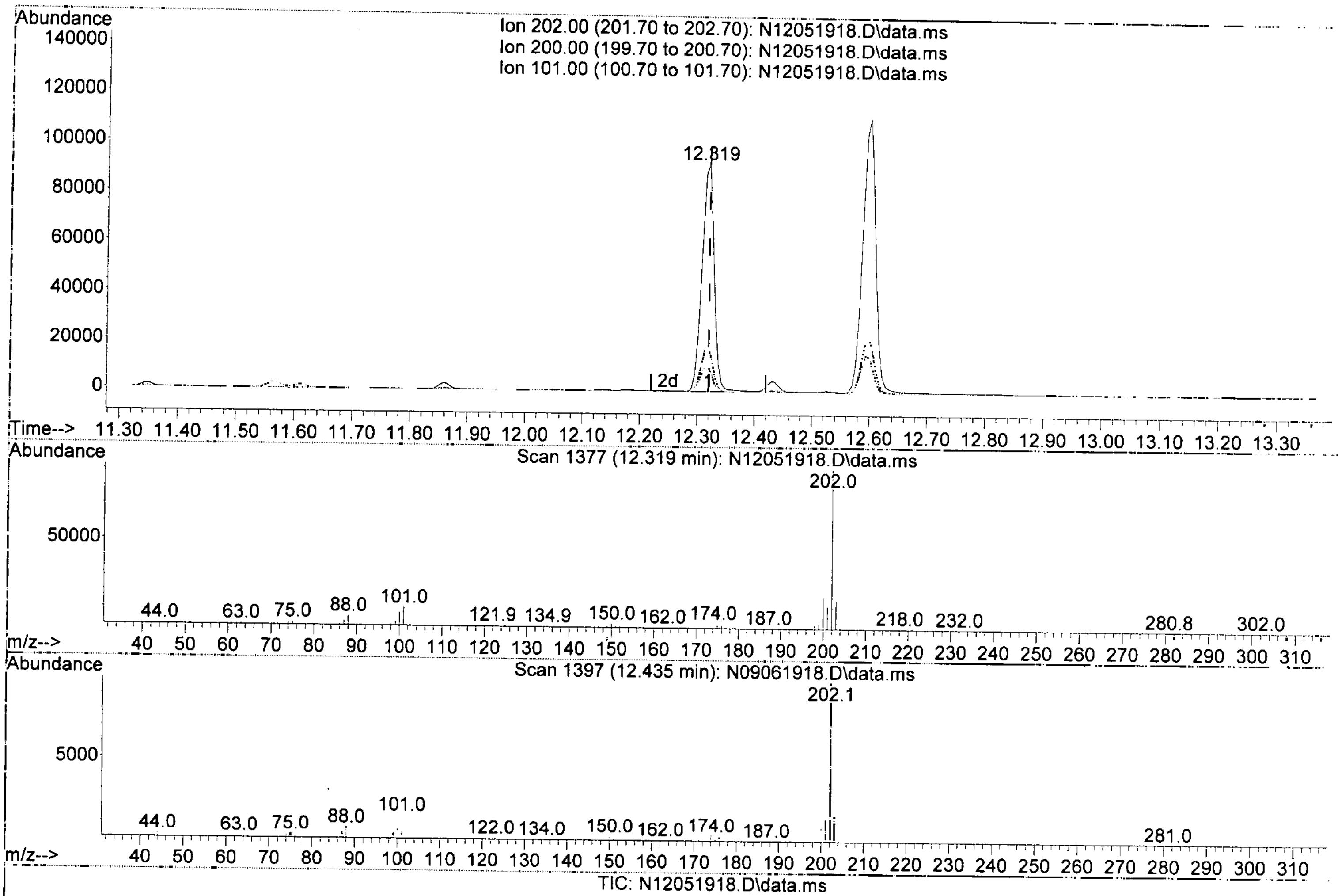
response 40936

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.35
179.00	15.30	16.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(23) Fluoranthene (T)

12.319min (-0.000) 74.17 ng/ml

response 136393

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.89
101.00	15.30	11.26
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On    : 05 Dec 2019   07:08 pm
Operator  : JK/ AMS/ DTH
Sample    : A9J0514-18@10000
Misc      : 10000x, 8270D LL PAH ONLY
ALS Vial  : 9   Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title  : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName   : SV-GCMS14
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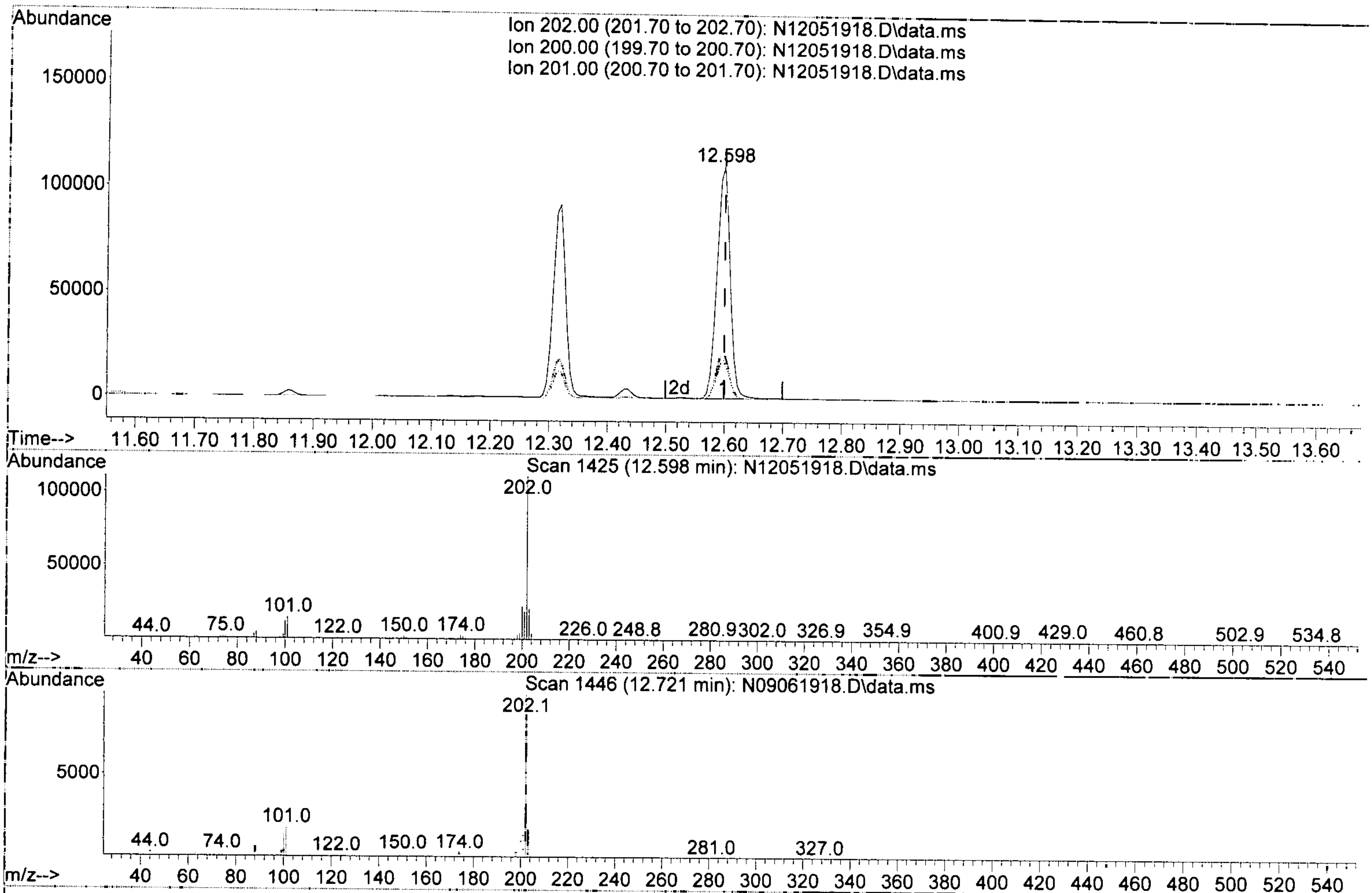


TIC: N12051918.D\data.ms

(25) Pyrene (T)

12.598min (-0.000) 84.22 ng/ml

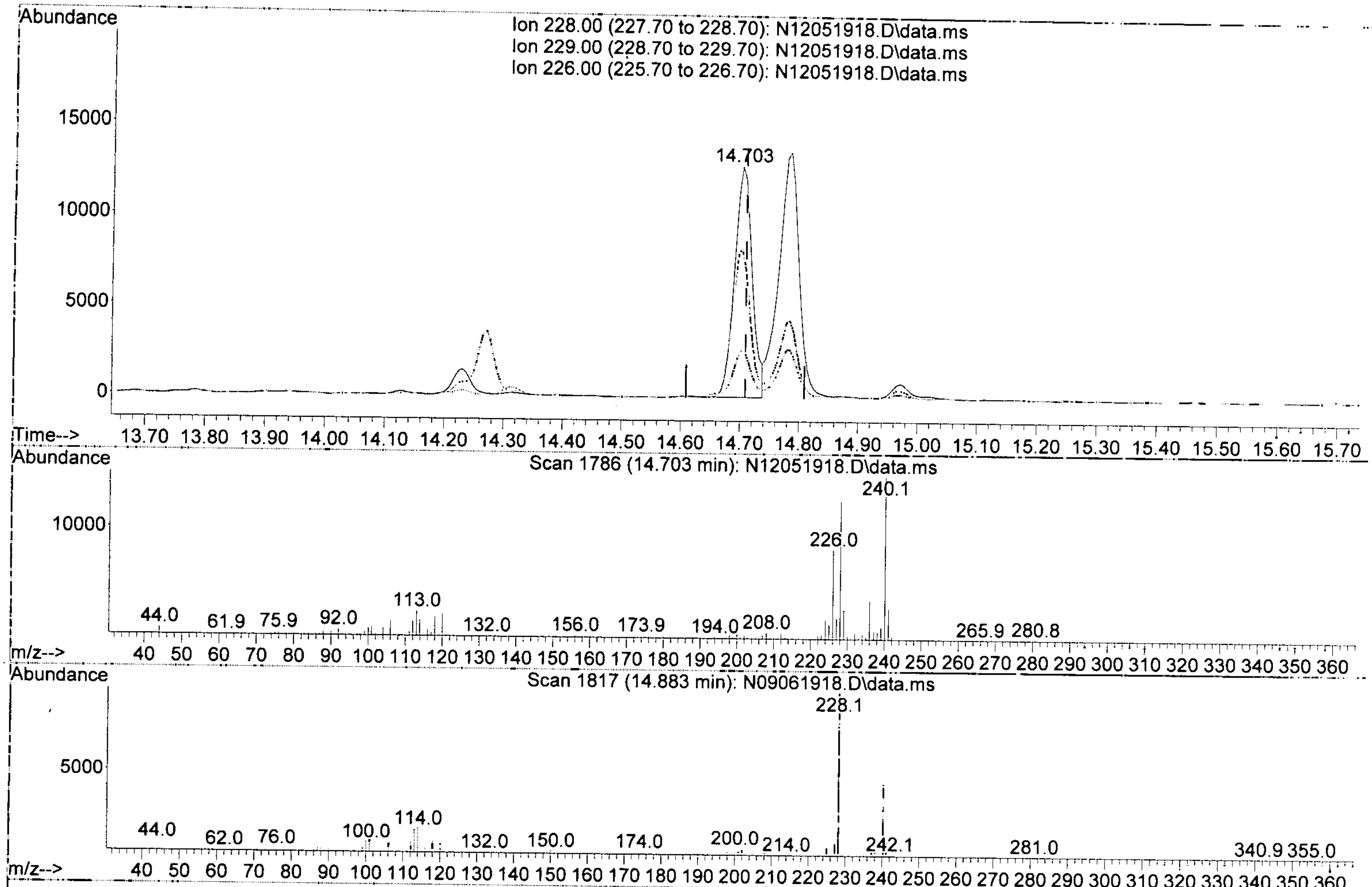
response 174073

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.23
201.00	16.80	16.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051918.D\data.ms

(27) Benz(a)anthracene (T)

14.703min (-0.006) 17.26 ng/ml

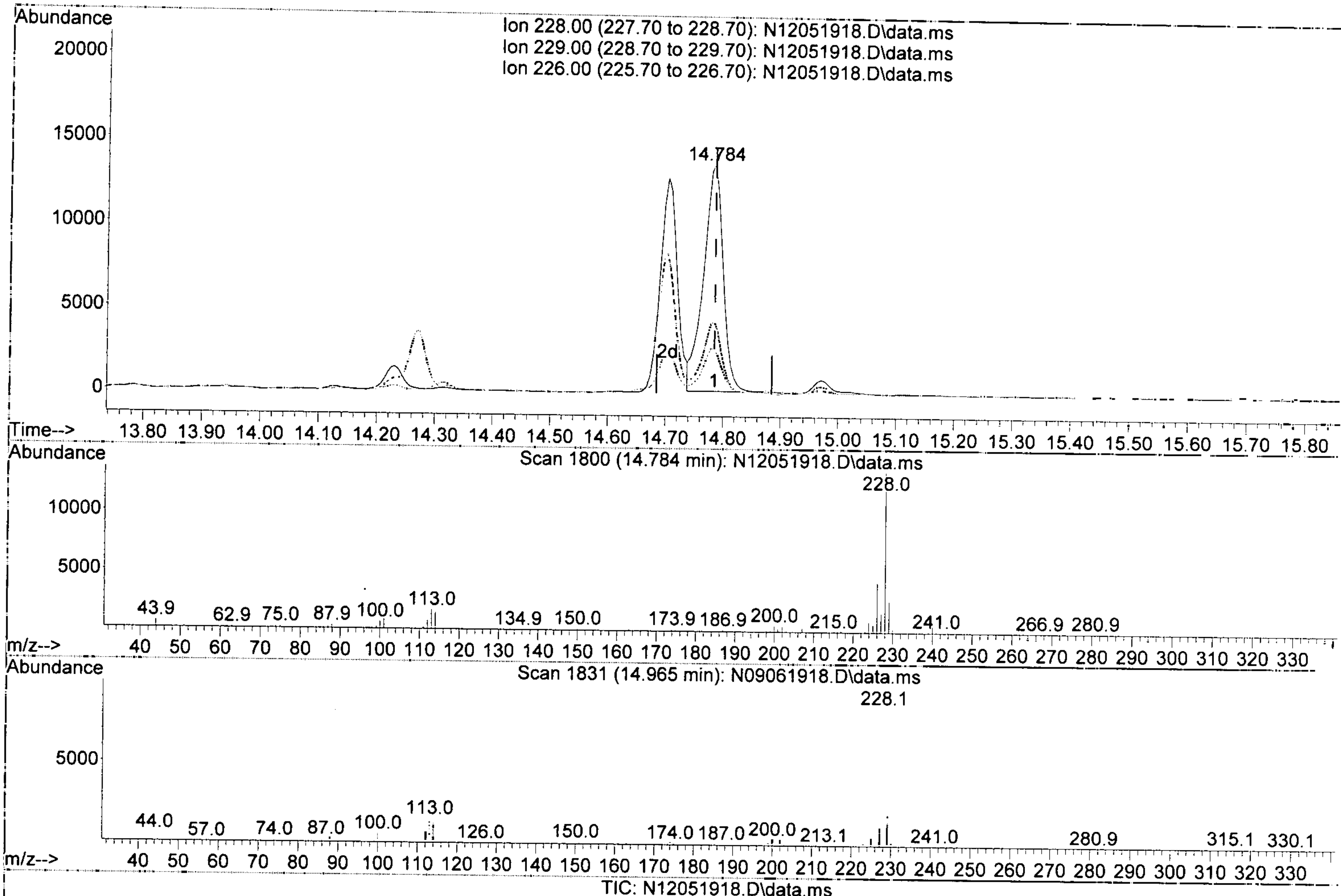
response 26519

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.81
226.00	26.20	64.61#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On    : 05 Dec 2019  07:08 pm
Operator  : JK/ AMS/ DTH
Sample    : A9J0514-18@10000
Misc      : 10000x, 8270D LL PAH ONLY
ALS Vial  : 9   Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title  : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName  : SV-GCMS14
```



(28) Chrysene (T)

14.784min (-0.000) 21.98 ng/ml

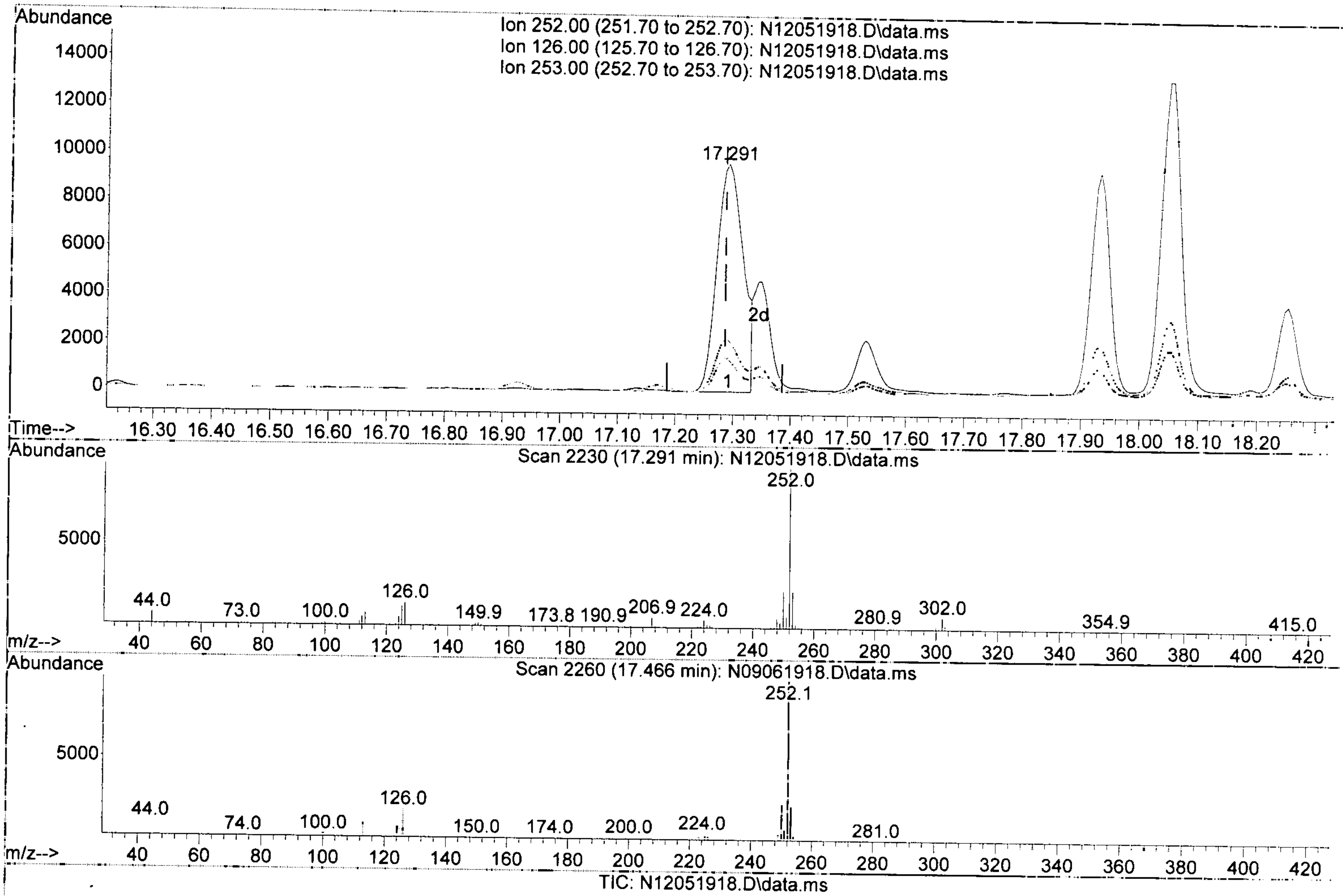
response 31945

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	19.81
226.00	28.60	31.63
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On    : 05 Dec 2019  07:08 pm
Operator  : JK/ AMS/ DTH
Sample    : A9J0514-18@10000
Misc      : 10000x, 8270D LL PAH ONLY
ALS Vial  : 9   Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title  : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName   : SV-GCMS14
```



(30) Benzo(b)fluoranthene (T)

17.291min (+ 0.006) 20.68 ng/ml

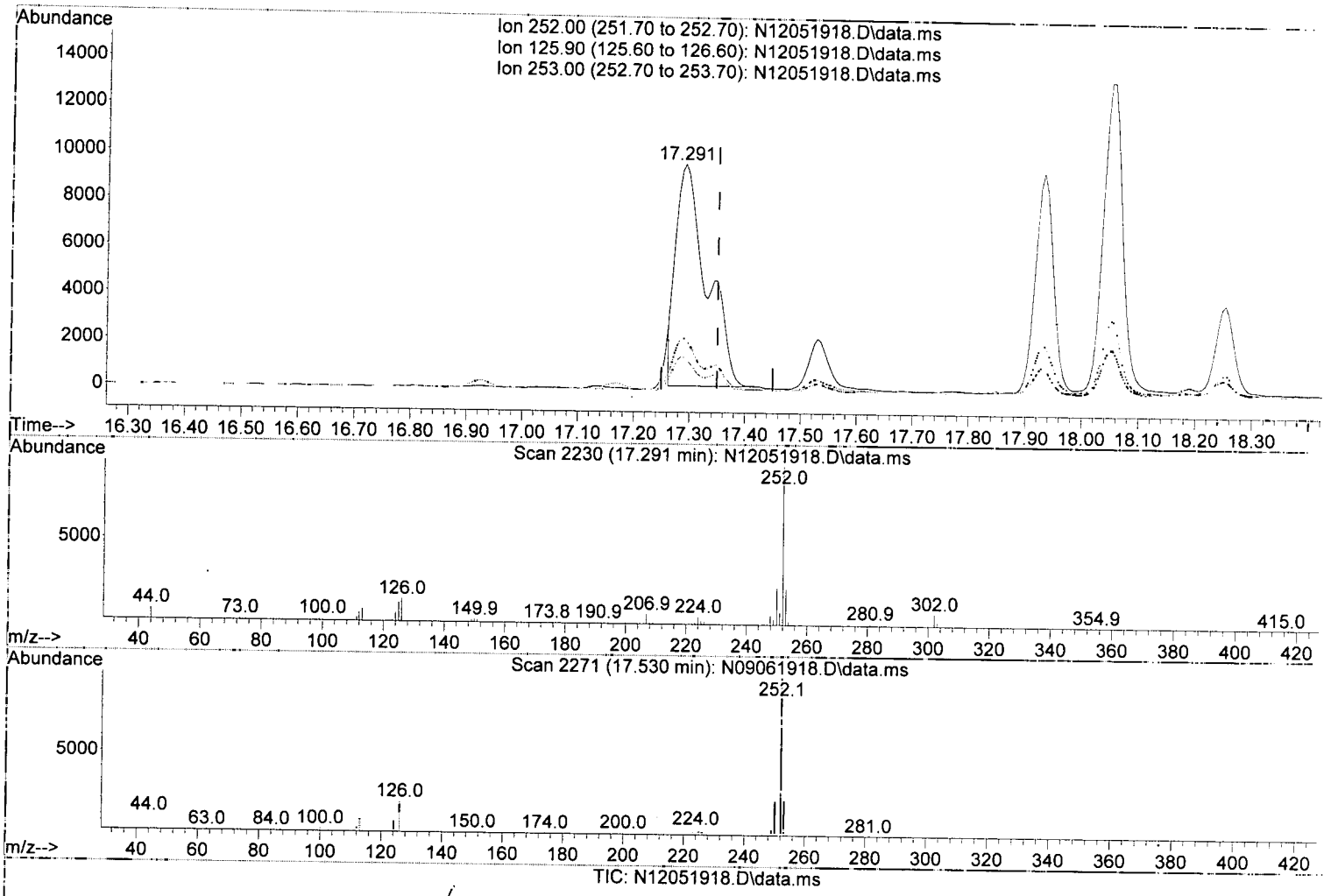
response 30657

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	14.45
253.00	21.10	22.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051918.D\data.ms

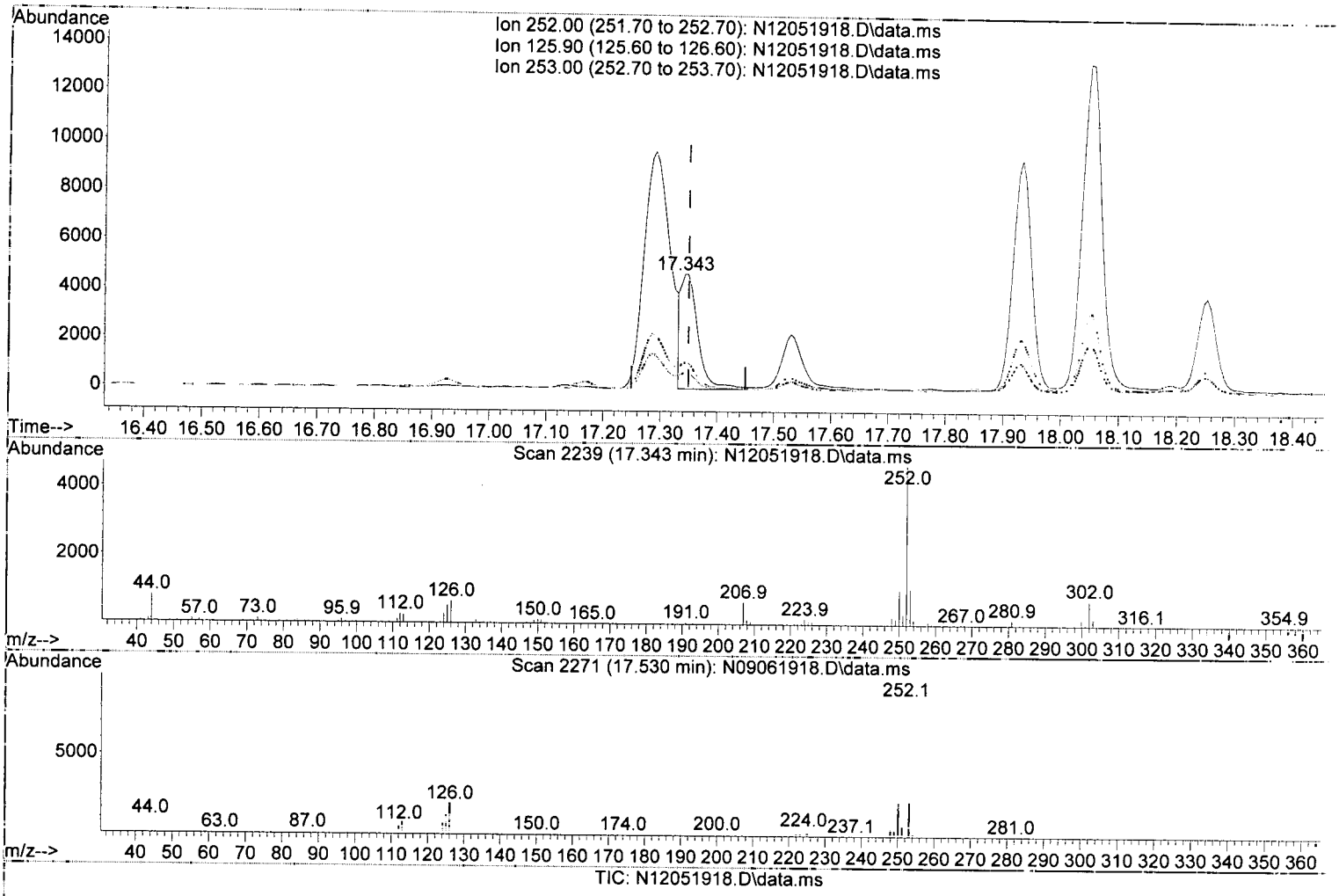
(31) Benzo(k)fluoranthene (T)		
17.291min (-0.058) 25.16 ng/ml		
response	36730	
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.45
253.00	21.50	22.83
0.00	0.00	0.00

MI

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051918.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.343min (-0.006) 6.65 ng/ml m

response 9707

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.25
253.00	21.50	23.09
0.00	0.00	0.00

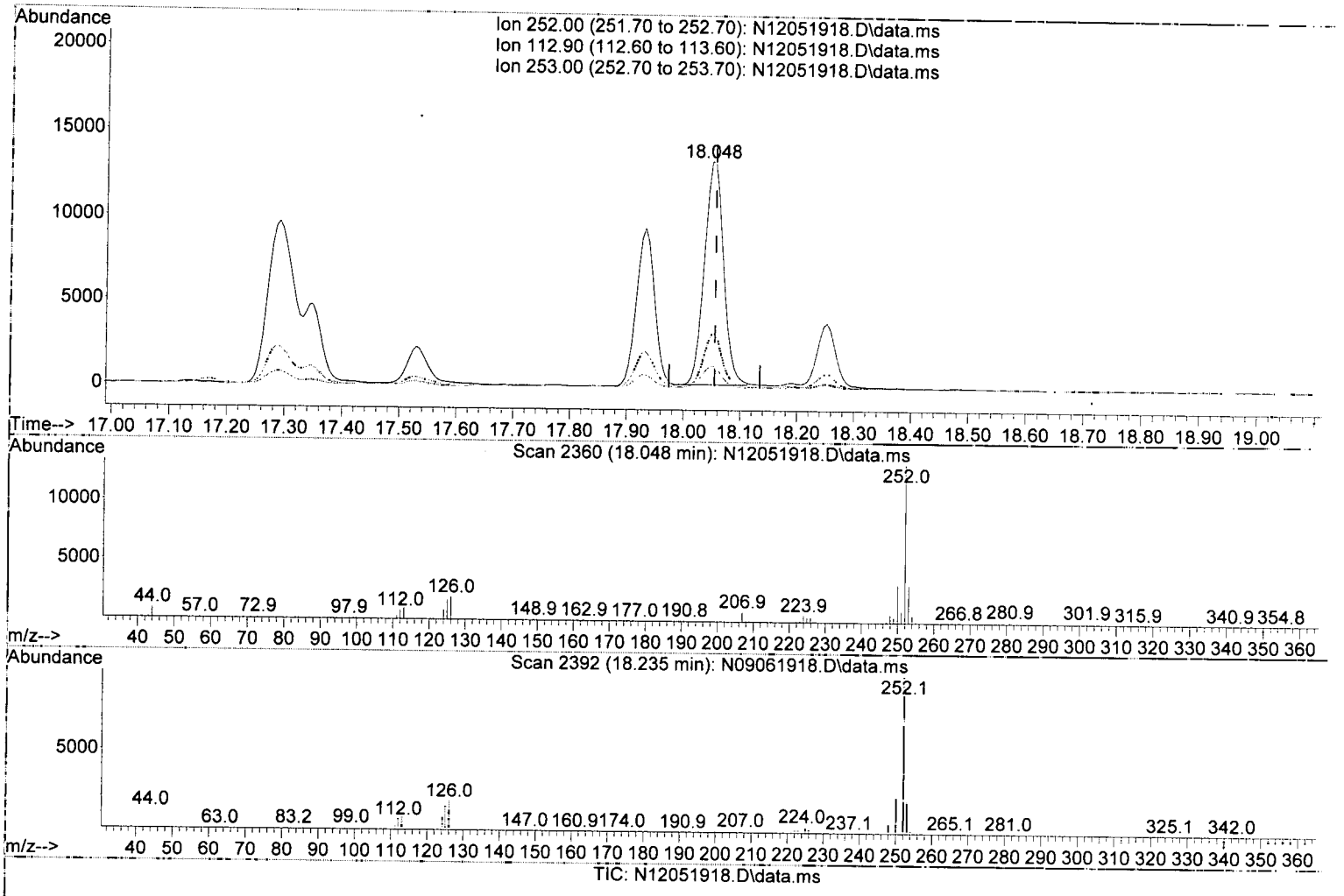
MOS

DTH 12/6/19

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(35) Benzo(a)pyrene (T)

18.048min (-0.006) 24.55 ng/ml

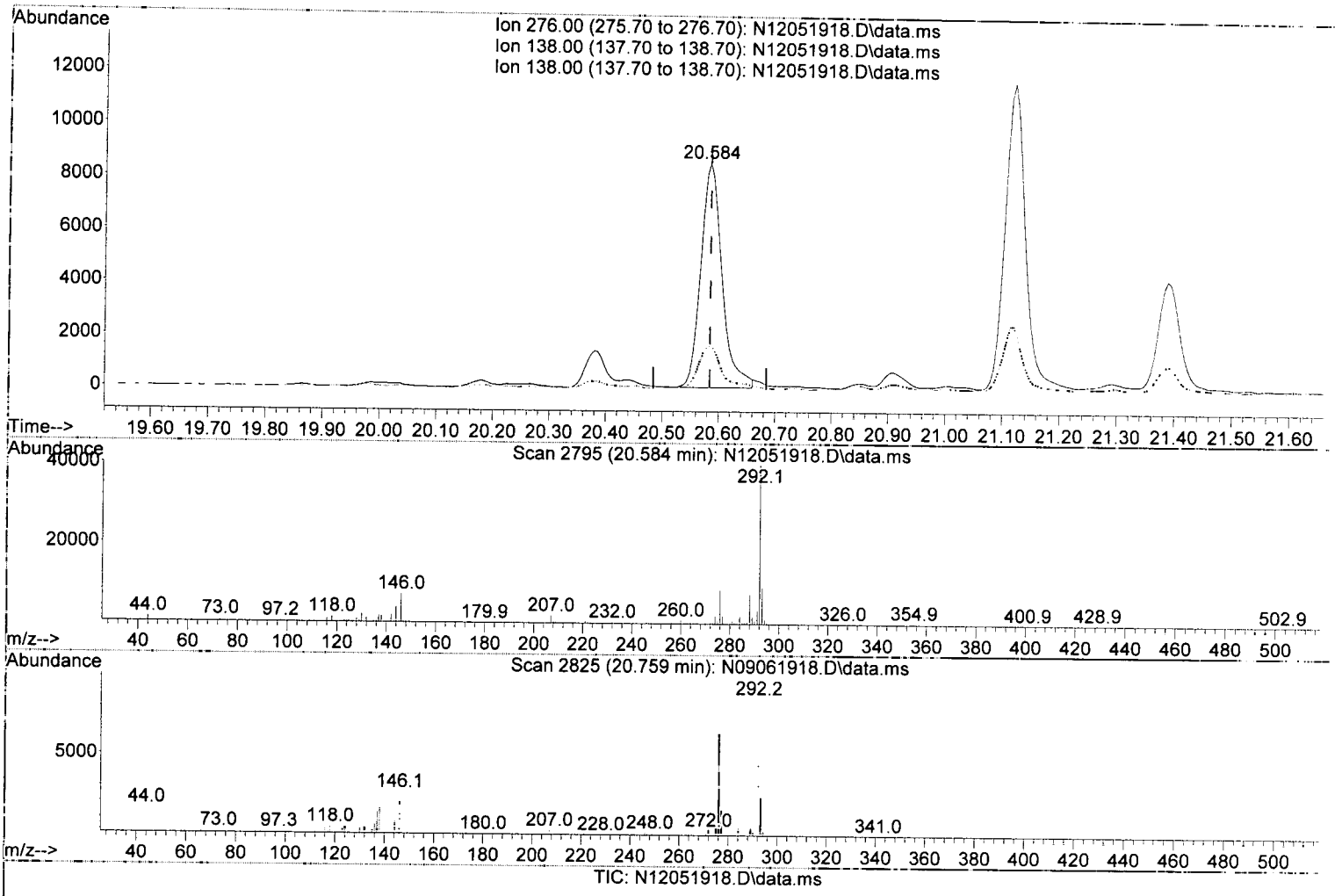
response 31158

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	9.59
253.00	21.90	23.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051918.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.584min (-0.000) 17.06 ng/ml

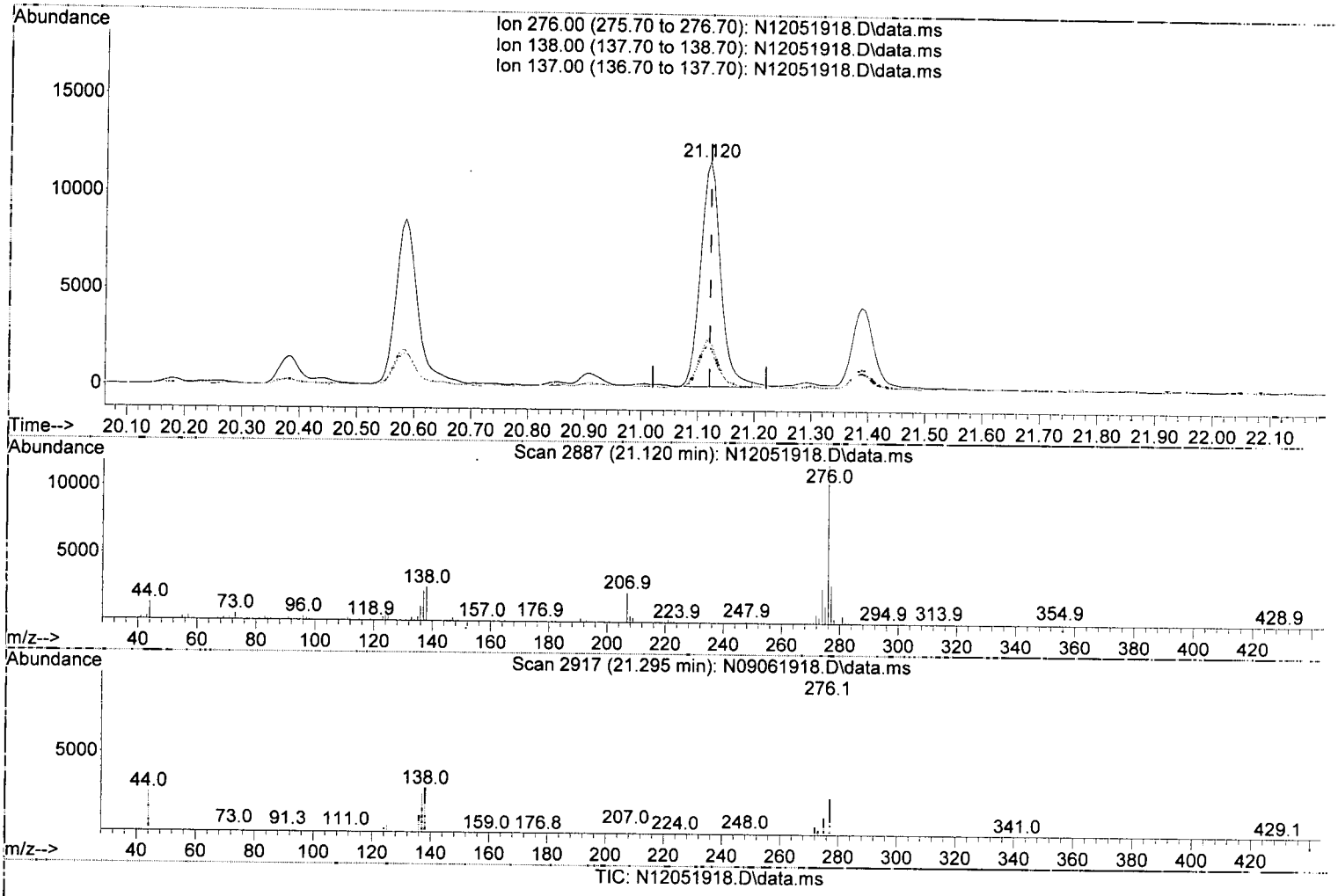
response 22400

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	19.21
138.00	31.60	19.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051918.D\data.ms

(40) Benzo(g,h,i)perylene (T)

21.120min (-0.000) 20.67 ng/ml

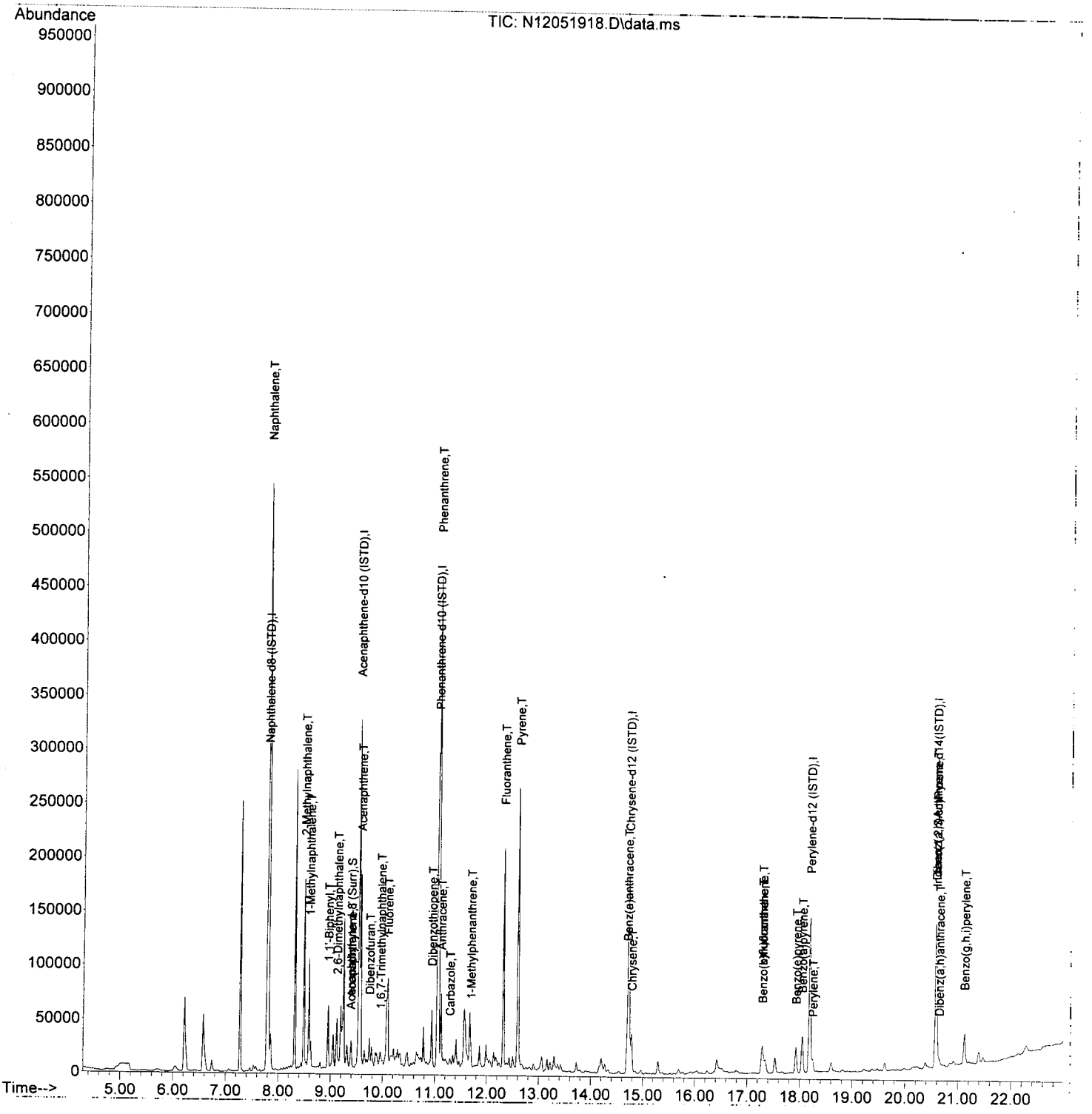
response 28790

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	21.22
137.00	18.60	18.91
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051918.D
Acq On : 05 Dec 2019 07:08 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-18@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:48 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051919.D
Acq On : 05 Dec 2019 07:40 pm
Operator : JK/ AMS/ DTH
Sample : 9120555-MS1@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:52 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14

DTH 12/6/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.784	136	162134	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.538	162	98568	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.042	188	154736	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.726	240	129587	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.188	264	126030	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.578	292	104661	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.155	82	55	0.10	ng/ml	0.06
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.381	160	3732	0.43	ng/ml	0.00
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.802	128	400850	224.16	ng/ml	99
5) 2-Methylnaphthalene	8.489	142	77287	51.00	ng/ml	97
6) 1-Methylnaphthalene	8.588	142	44073	29.09	ng/ml	98
7) 1,1'-Biphenyl	8.950	154	29195	14.32	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.119	156	16766	11.26	ng/ml	96
12) Acenaphthylene	9.393	152	7543	3.52	ng/ml	92
13) Acenaphthene	9.568	153	63380	45.22	ng/ml	99
14) Dibenzofuran	9.742	168	6282	3.58	ng/ml	93
15) 1,6,7-Trimethylnaphtha...	9.952	170	4662	3.97	ng/ml	91
16) Fluorene	10.092	166	33311	23.23	ng/ml	98
18) Dibenzothiopene	10.937	184	28586	17.66	ng/ml	97
19) Phenanthrene	11.066	178	250460	138.32	ng/ml	100
20) Anthracene	11.118	178	40083	23.80	ng/ml	98
21) Carbazole	11.287	167	3693	2.71	ng/ml	95
22) 1-Methylphenanthrene	11.689	192	7770	6.18	ng/ml	95
23) Fluoranthene	12.319	202	131398	72.03	ng/ml	96
25) Pyrene	12.599	202	168344	83.15	ng/ml	99
27) Benz(a)anthracene	14.703	228	25187	16.74	ng/ml#	56
28) Chrysene	14.784	228	30990	21.77	ng/ml	98
30) Benzo(b)fluoranthene	17.291	252	29739	20.45	ng/ml	92
31) Benzo(k)fluoranthene	17.291	252	36548	25.53	ng/ml	90
32) Benzo(b+k)fluoranthene	17.291	252	39061	26.26	ng/ml	90
34) Benzo(e)pyrene	17.932	252	20179	13.72	ng/ml	98
35) Benzo(a)pyrene	18.048	252	29718	23.88	ng/ml	97
36) Perylene	18.246	252	8849	5.77	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.584	276	20905	16.20	ng/ml	79
39) Dibenz(a,h)anthracene	20.642	278	2184	1.80	ng/ml	85
40) Benzo(g,h,i)perylene	21.120	276	27460	20.05	ng/ml	98

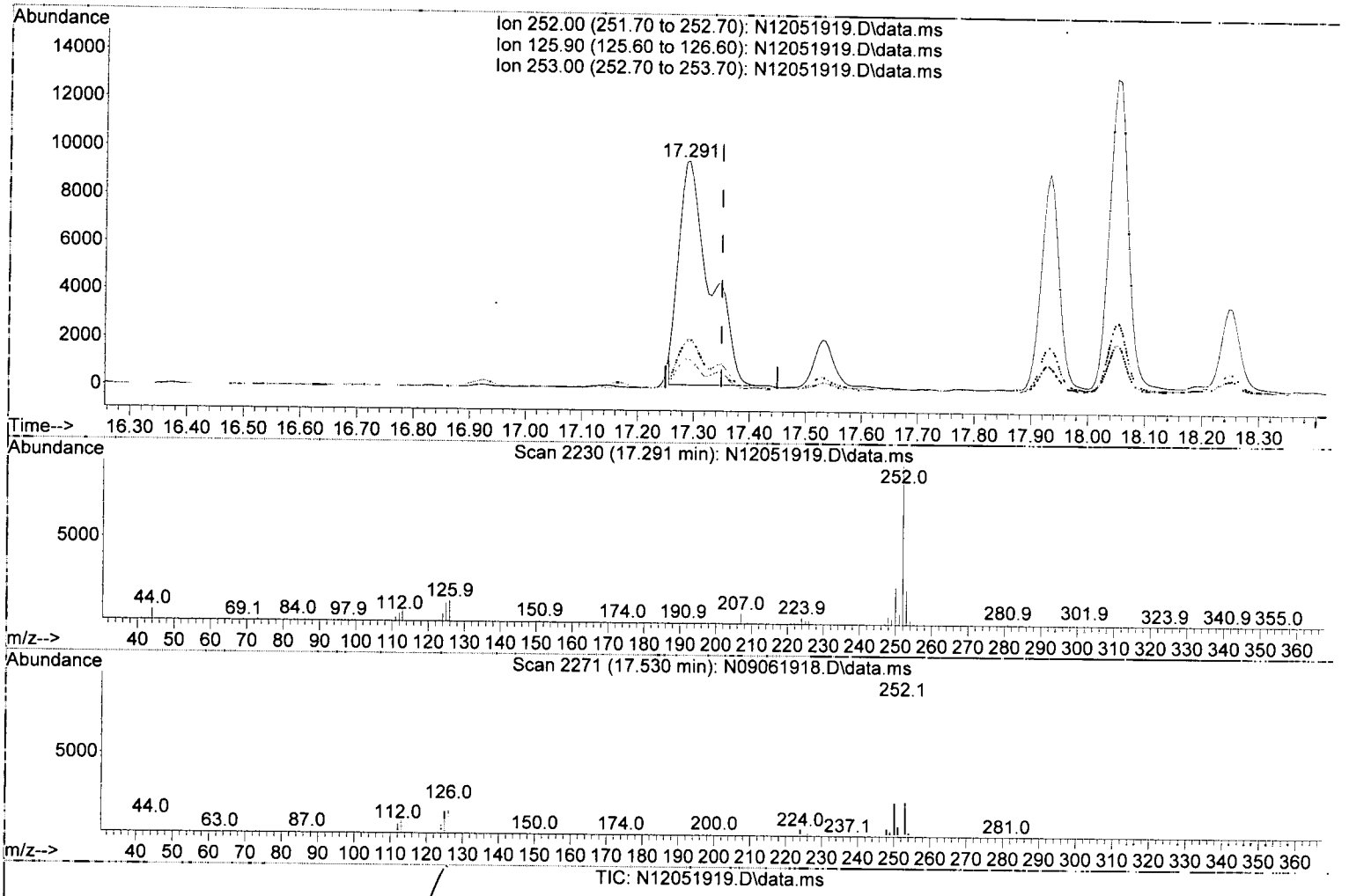
NI

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

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051919.D
Acq On : 05 Dec 2019 07:40 pm
Operator : JK/ AMS/ DTH
Sample : 9120555-MS1@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:52 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051919.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.291min (-0.058) 25.53 ng/ml

response 36548

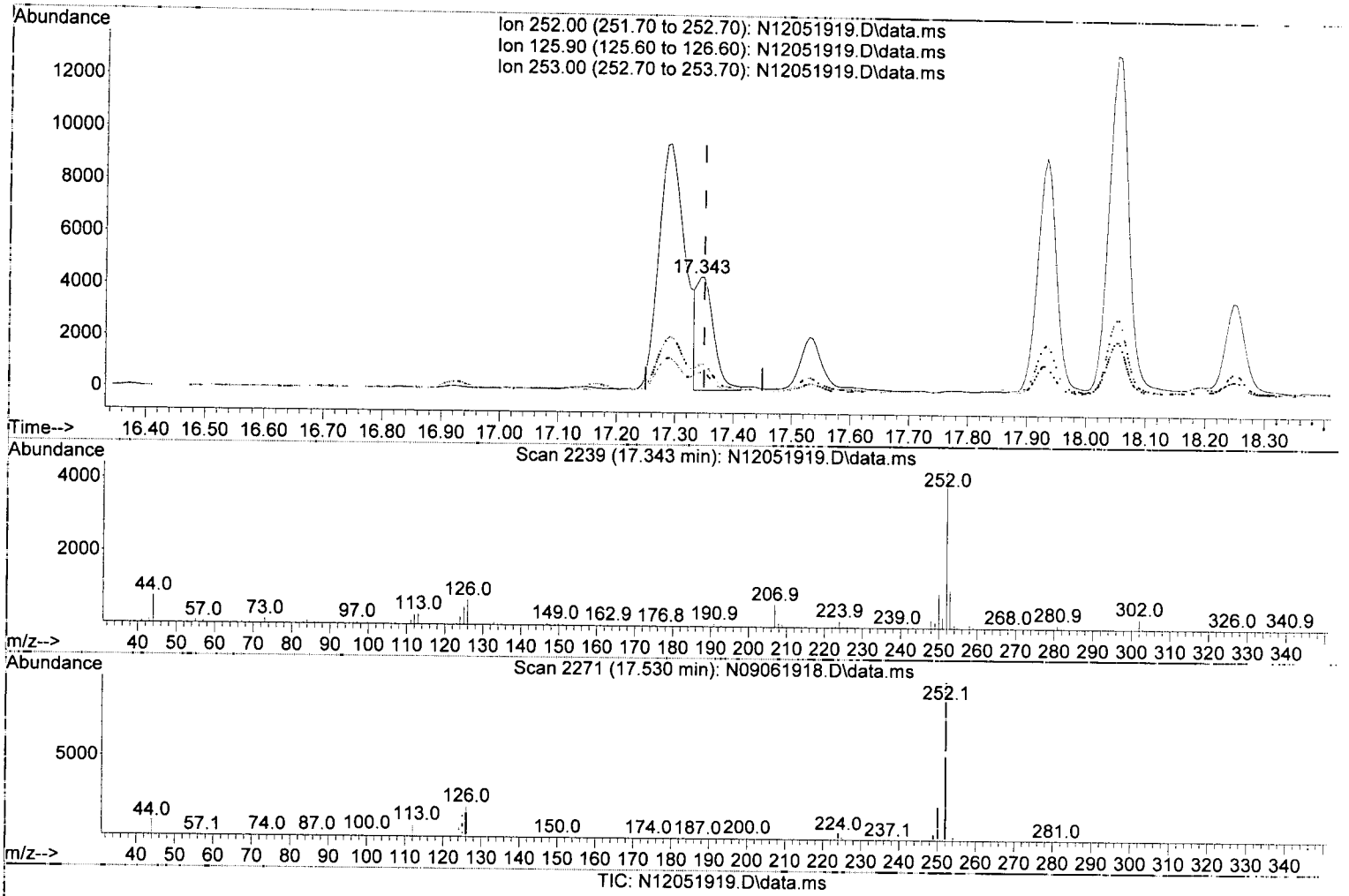
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	13.18
253.00	21.50	21.79
0.00	0.00	0.00

MI

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051919.D
Acq On : 05 Dec 2019 07:40 pm
Operator : JK/ AMS/ DTH
Sample : 9120555-MS1@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:52 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(31) Benzo(k)fluoranthene (T)

17.343min (-0.006) 6.30 ng/ml m

response 9019

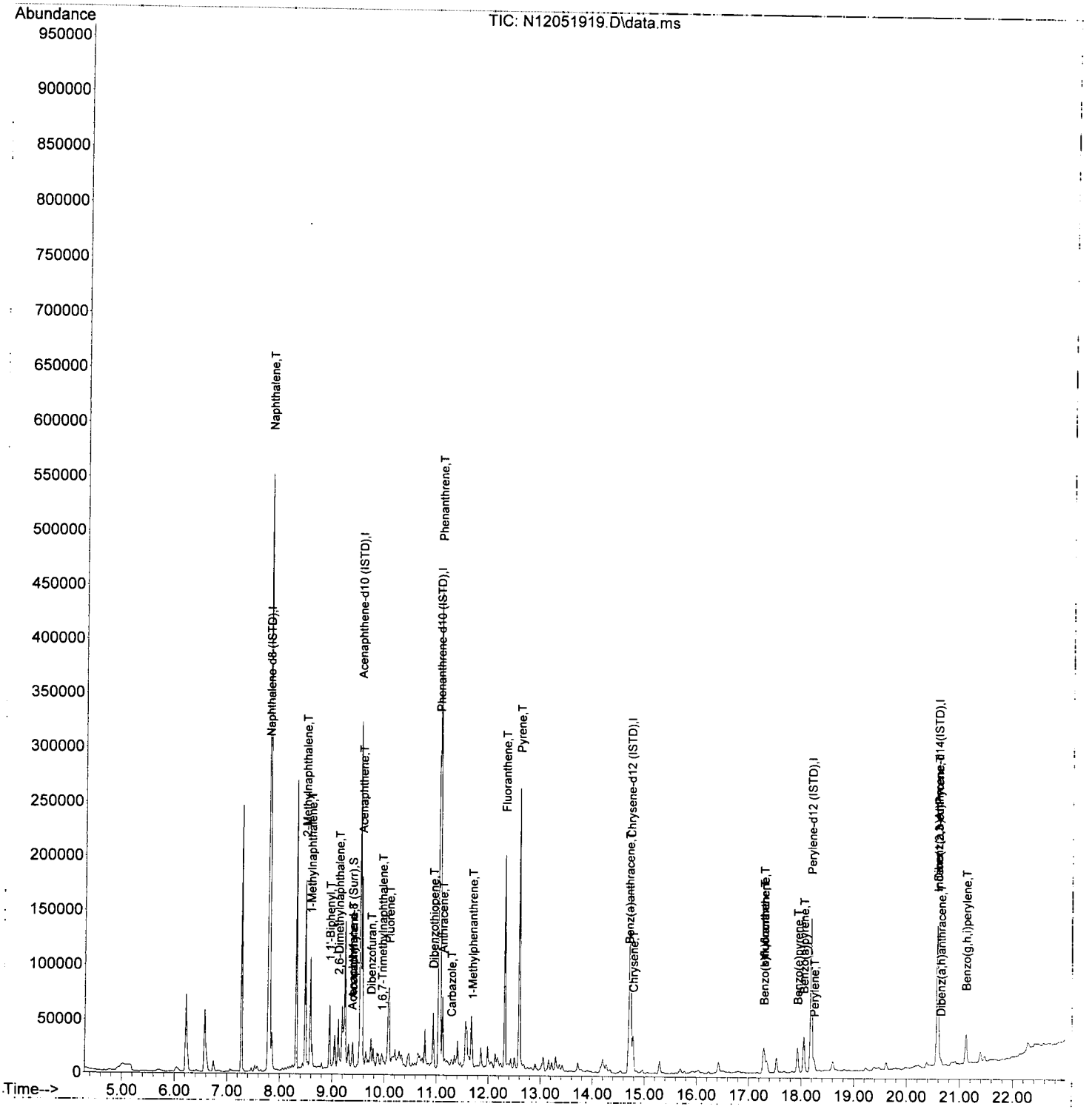
DTH 12/6/19 ✓

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	15.95
253.00	21.50	23.19
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051919.D
Acq On : 05 Dec 2019 07:40 pm
Operator : JK/ AMS/ DTH
Sample : 9120555-MS1@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:52 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051920.D
Acq On : 05 Dec 2019 08:13 pm
Operator : JK/ AMS/ DTH
Sample : 9120555-MSD1@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:56 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14

DH 12/6/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.784	136	161913	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.533	162	101431	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.042	188	161684	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.726	240	140483	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.188	264	137390	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.578	292	112707	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.149	82	61	0.11	ng/ml	0.05
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.381	160	4025	0.53	ng/ml	0.00
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.801	128	473463	265.13	ng/ml	100
5) 2-Methylnaphthalene	8.483	142	98584	65.15	ng/ml	97
6) 1-Methylnaphthalene	8.588	142	54661	36.13	ng/ml	97
7) 1,1'-Biphenyl	8.950	154	37993	18.67	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.119	156	21467	14.44	ng/ml	97
12) Acenaphthylene	9.393	152	9530	4.33	ng/ml	92
13) Acenaphthene	9.568	153	79374	55.03	ng/ml	99
14) Dibenzofuran	9.742	168	8677	4.80	ng/ml	97
15) 1,6,7-Trimethylnaphtha...	9.952	170	6344	5.24	ng/ml	96
16) Fluorene	10.092	166	42231	28.61	ng/ml	99
18) Dibenzothiopene	10.937	184	36492	21.58	ng/ml	97
19) Phenanthrene	11.066	178	321335	169.84	ng/ml	100
20) Anthracene	11.118	178	51588	29.31	ng/ml	98
21) Carbazole	11.287	167	4744	3.33	ng/ml	95
22) 1-Methylphenanthrene	11.689	192	10002	7.61	ng/ml	93
23) Fluoranthene	12.313	202	171884	90.17	ng/ml	97
25) Pyrene	12.598	202	221729	101.02	ng/ml	99
27) Benz(a)anthracene	14.703	228	33817	20.73	ng/ml#	55
28) Chrysene	14.784	228	41077	26.61	ng/ml	97
30) Benzo(b)fluoranthene	17.285	252	38604	24.35	ng/ml	93
31) Benzo(k)fluoranthene	~~17.285~~	~~252~~	~~49136~~	~~31.48~~	~~ng/ml~~	~~91~~ m
32) Benzo(b+k)fluoranthene	17.285	252	52548	32.41	ng/ml	91
34) Benzo(e)pyrene	17.932	252	26546	16.56	ng/ml	99
35) Benzo(a)pyrene	18.048	252	40382	29.76	ng/ml	96
36) Perylene	18.246	252	11599	6.94	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.584	276	28483	20.49	ng/ml	79
39) Dibenz(a,h)anthracene	20.636	278	3145	2.41	ng/ml	92
40) Benzo(g,h,i)perylene	21.120	276	36540	24.78	ng/ml	99

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

Quantitation Report (Qedit)

```
Data Path : U:\data\2109-12\9L05045\
Data File : N12051920.D
Acq On    : 05 Dec 2019  08:13 pm
Operator  : JK/ AMS/ DTH
Sample    : 9120555-MSD1@10000
Misc      : 10000x, 8270D LL PAH ONLY
ALS Vial  : 11   Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:56 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title  : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName   : SV-GCMS14
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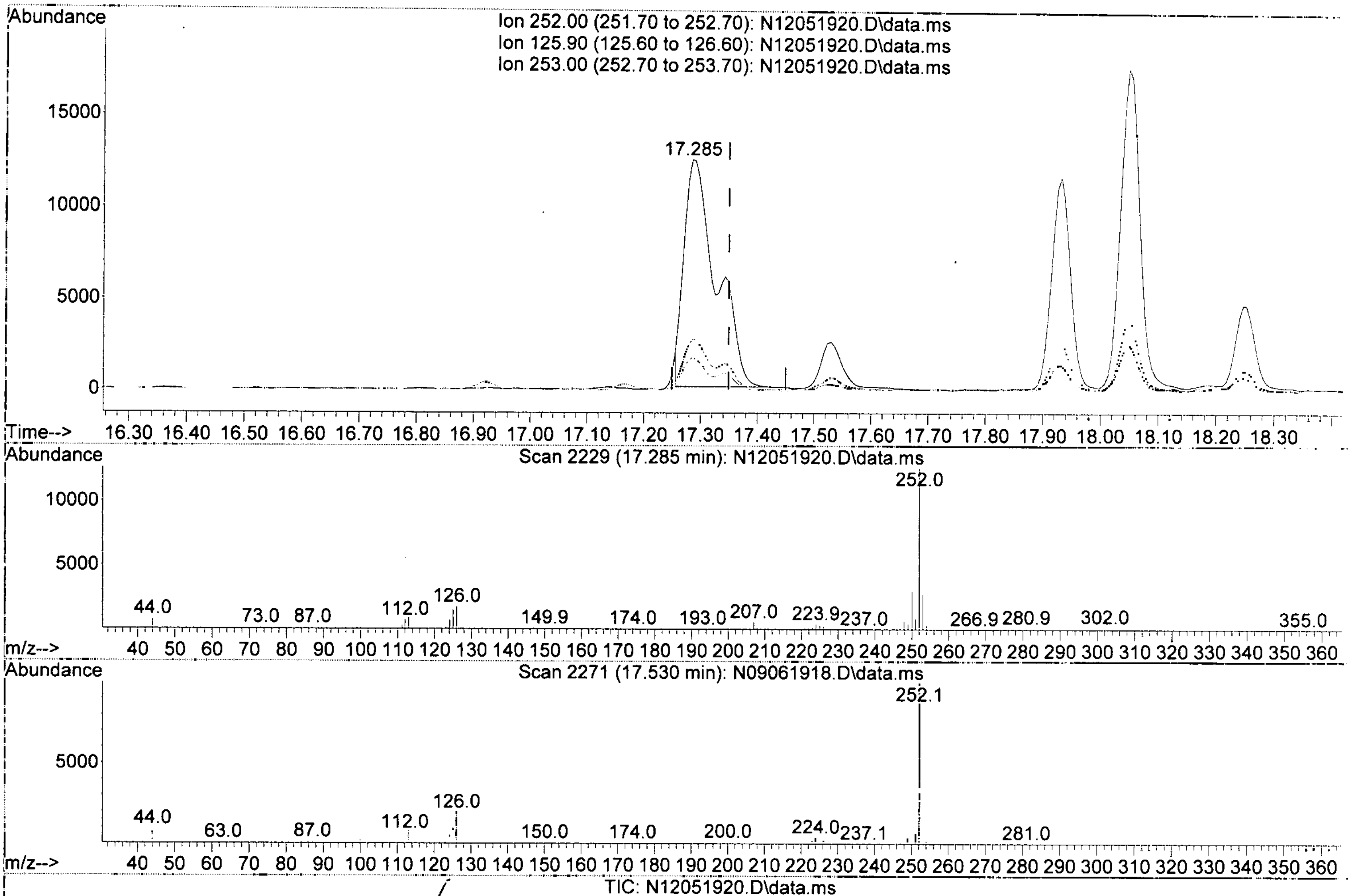


(31) Benzo(k)fluoranthene (T)

17.285min (-0.064) 31.48 ng/ml

response 49136

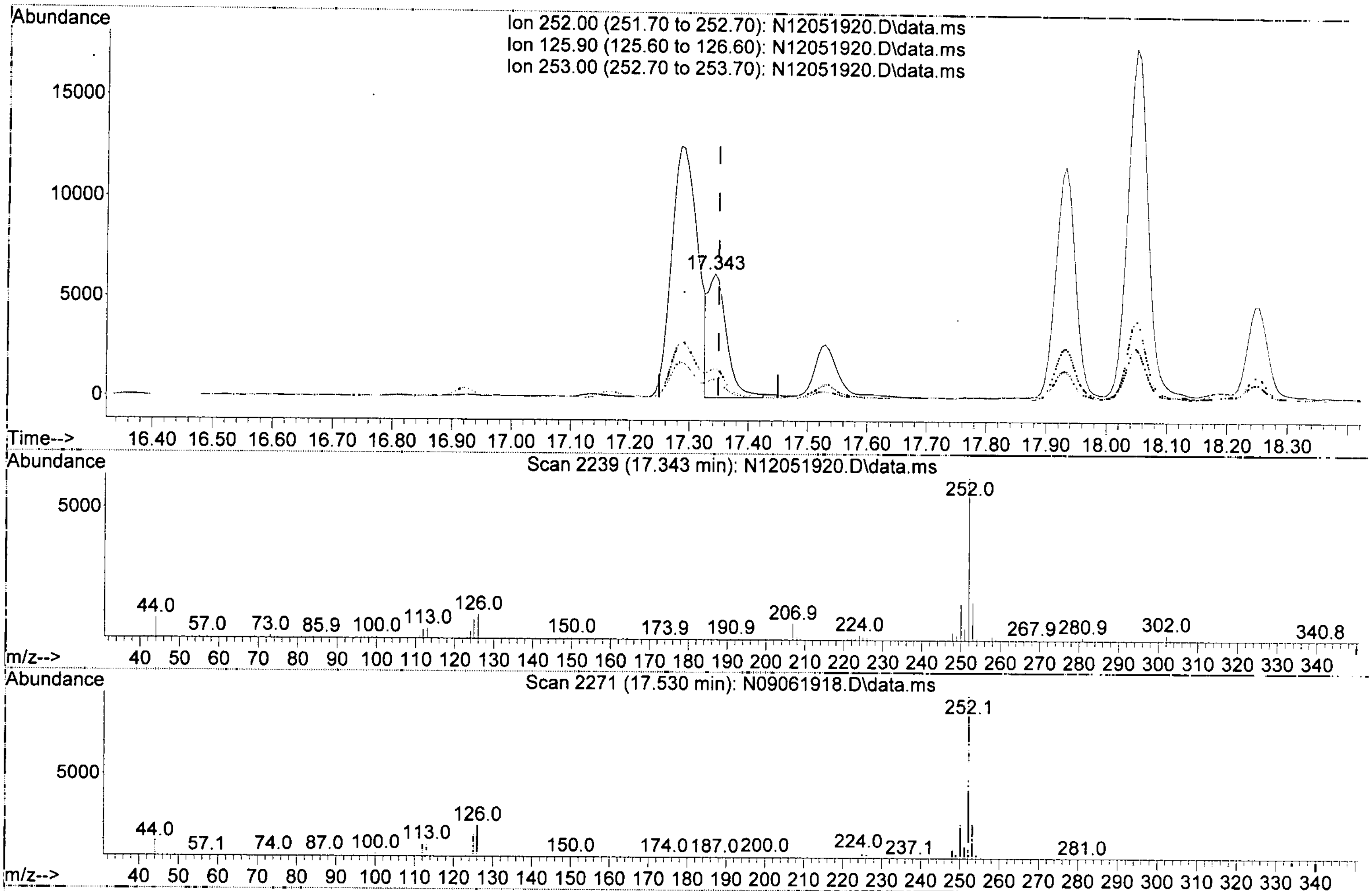
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.07
253.00	21.50	22.07
0.00	0.00	0.00

MI J

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051920.D
Acq On : 05 Dec 2019 08:13 pm
Operator : JK/ AMS/ DTH
Sample : 9120555-MSD1@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:56 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051920.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.343min (-0.006) 8.74 ng/ml m DTH 12/6/19

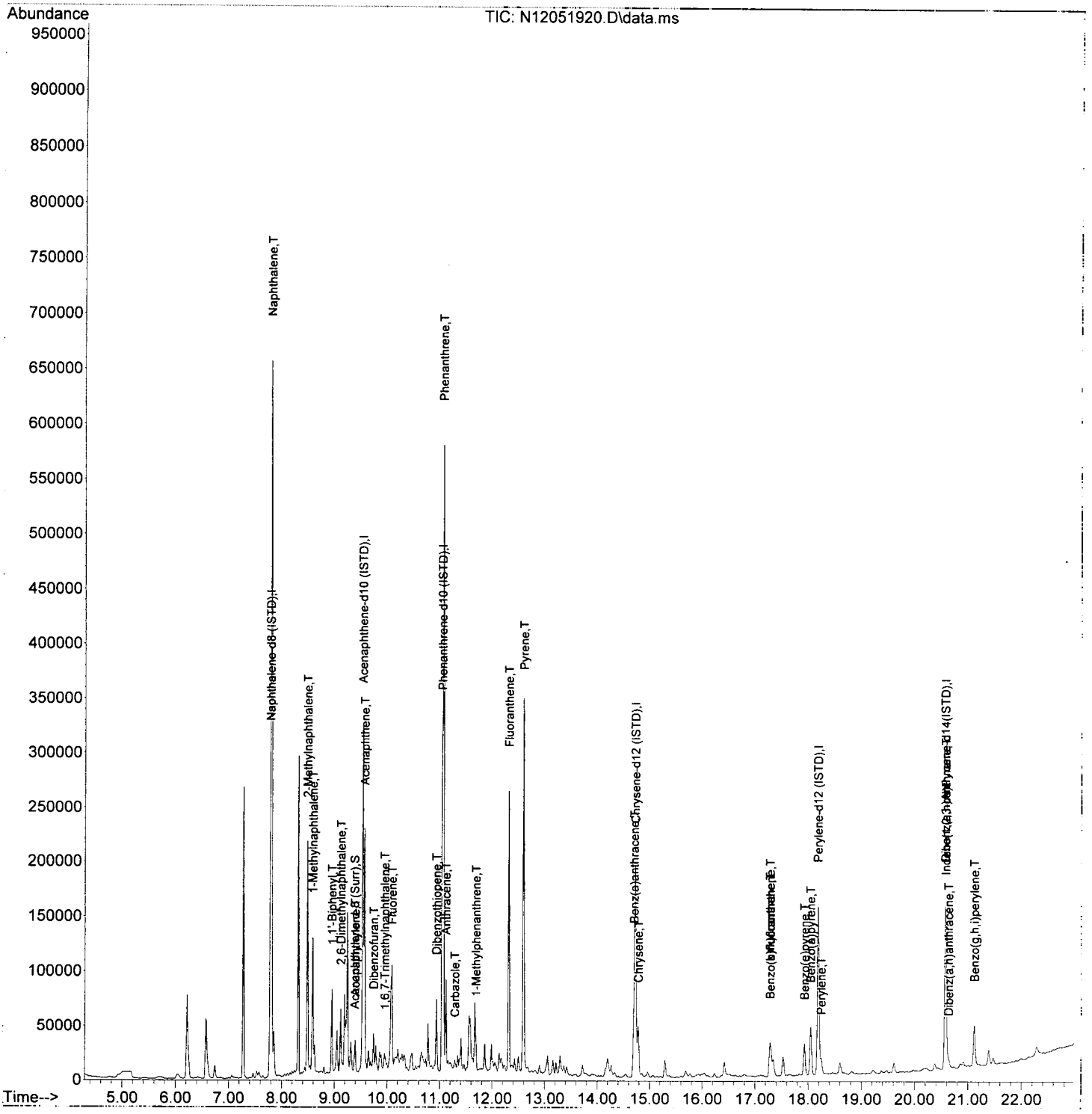
response 13649

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.96
253.00	21.50	23.45
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051920.D
Acq On : 05 Dec 2019 08:13 pm
Operator : JK/ AMS/ DTH
Sample : 9120555-MSD1@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:44:56 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14

DTH 12/6/19 MOS

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8 (ISTD)	7.784	136	149766	100.00 ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.533	162	84919	100.00 ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.042	188	132641	100.00 ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.720	240	111539	100.00 ng/ml	0.00
29) Perylene-d12 (ISTD)	18.188	264	113543	100.00 ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.578	292	99138	100.00 ng/ml	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00 ng/ml	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00 ng/ml	
11) Acenaphthylene d-8 (Surr)	9.381	160	9228	3.98 ng/ml	0.00
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00 ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00 ng/ml	

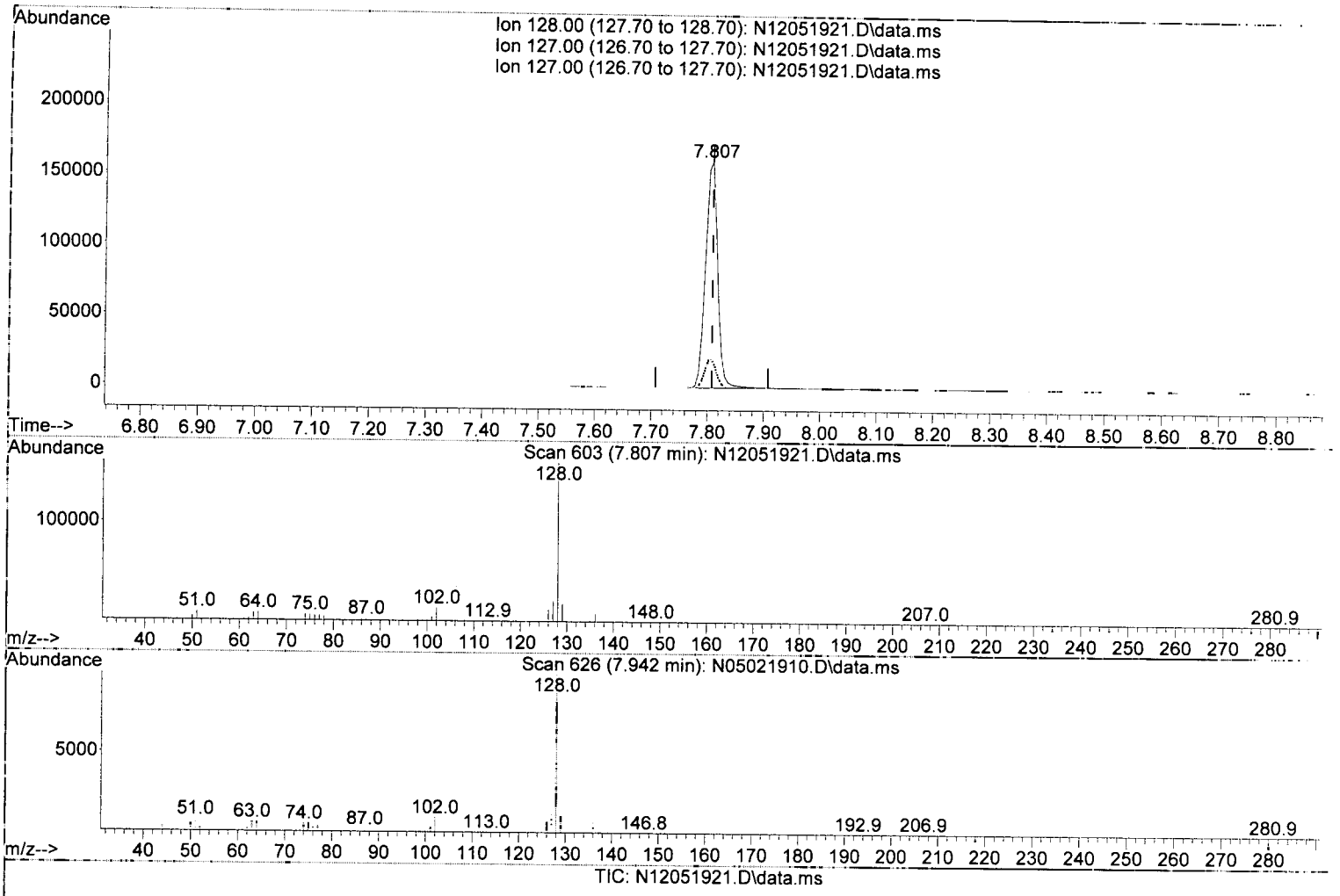
Target Compounds	R.T.	QIon	Response	Conc Units	Qvalue
3) Decalin	0.000		0	N.D.	
4) Naphthalene	7.807	128	241623	146.28 ng/ml	99
5) 2-Methylnaphthalene	8.489	142	42863	30.62 ng/ml	98
6) 1-Methylnaphthalene	8.588	142	24796	17.72 ng/ml	97
7) 1,1'-Biphenyl	8.950	154	17591	9.34 ng/ml	97
8) 2,6-Dimethylnaphthalene	9.119	156	7957	5.79 ng/ml	99
12) Acenaphthylene	9.393	152	7430	4.03 ng/ml	97
13) Acenaphthene	9.568	153	30329	25.12 ng/ml	99
14) Dibenzofuran	9.743	168	3997	2.64 ng/ml	96
15) 1,6,7-Trimethylnaphtha...	9.952	170	2335	2.31 ng/ml	99
16) Fluorene	~~10.092~~	~~166~~	~~17202~~	~~13.92 ng/ml~~	~~95~~ MI Hit
18) Dibenzothiopene	10.937	184	19488	14.05 ng/ml	96
19) Phenanthrene	11.066	178	156150	100.60 ng/ml	99
20) Anthracene	11.118	178	23500	16.28 ng/ml	99
21) Carbazole	11.287	167	2309	1.98 ng/ml	93
22) 1-Methylphenanthrene	11.689	192	3979	3.69 ng/ml	89
23) Fluoranthene	12.313	202	92908	59.41 ng/ml	96
25) Pyrene	12.593	202	115027	66.01 ng/ml	100
27) Benz(a)anthracene	14.703	228	17487	13.50 ng/ml#	65
28) Chrysene	14.784	228	22452	18.32 ng/ml	98
30) Benzo(b)fluoranthene	17.285	252	21658	16.53 ng/ml	91
31) Benzo(k)fluoranthene	~~17.285~~	~~252~~	~~27662~~	~~21.44 ng/ml~~	~~89~~ MI Hit MOS
32) Benzo(b+k)fluoranthene	17.285	252	29691	22.16 ng/ml	89 MI by accident NR
34) Benzo(e)pyrene	17.932	252	14686	11.09 ng/ml	98
35) Benzo(a)pyrene	18.048	252	21977	19.60 ng/ml	95
36) Perylene	18.247	252	6913	5.01 ng/ml	96
38) Indeno(1,2,3-cd)Pyrene	20.584	276	16933	13.85 ng/ml	78
39) Dibenz(a,h)anthracene	20.642	278	1891	1.65 ng/ml	95
40) Benzo(g,h,i)perylene	21.120	276	20192	15.57 ng/ml	98

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

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051921.D\data.ms

(4) Naphthalene (T)

7.807min (-0.000) 146.28 ng/ml

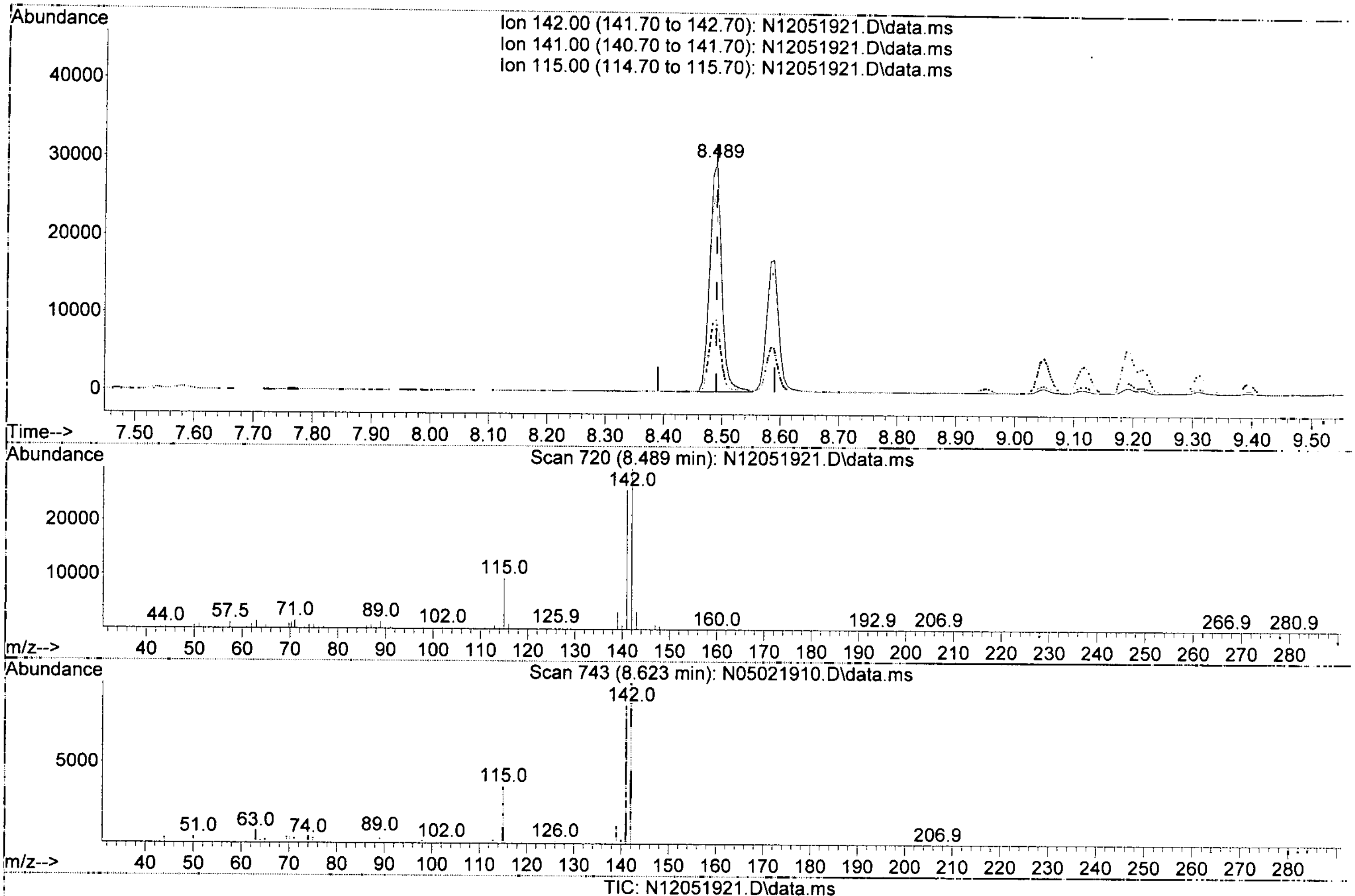
response 241623

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.83
127.00	12.60	12.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(5) 2-Methylnaphthalene (T)

8.489min (-0.000) 30.62 ng/ml

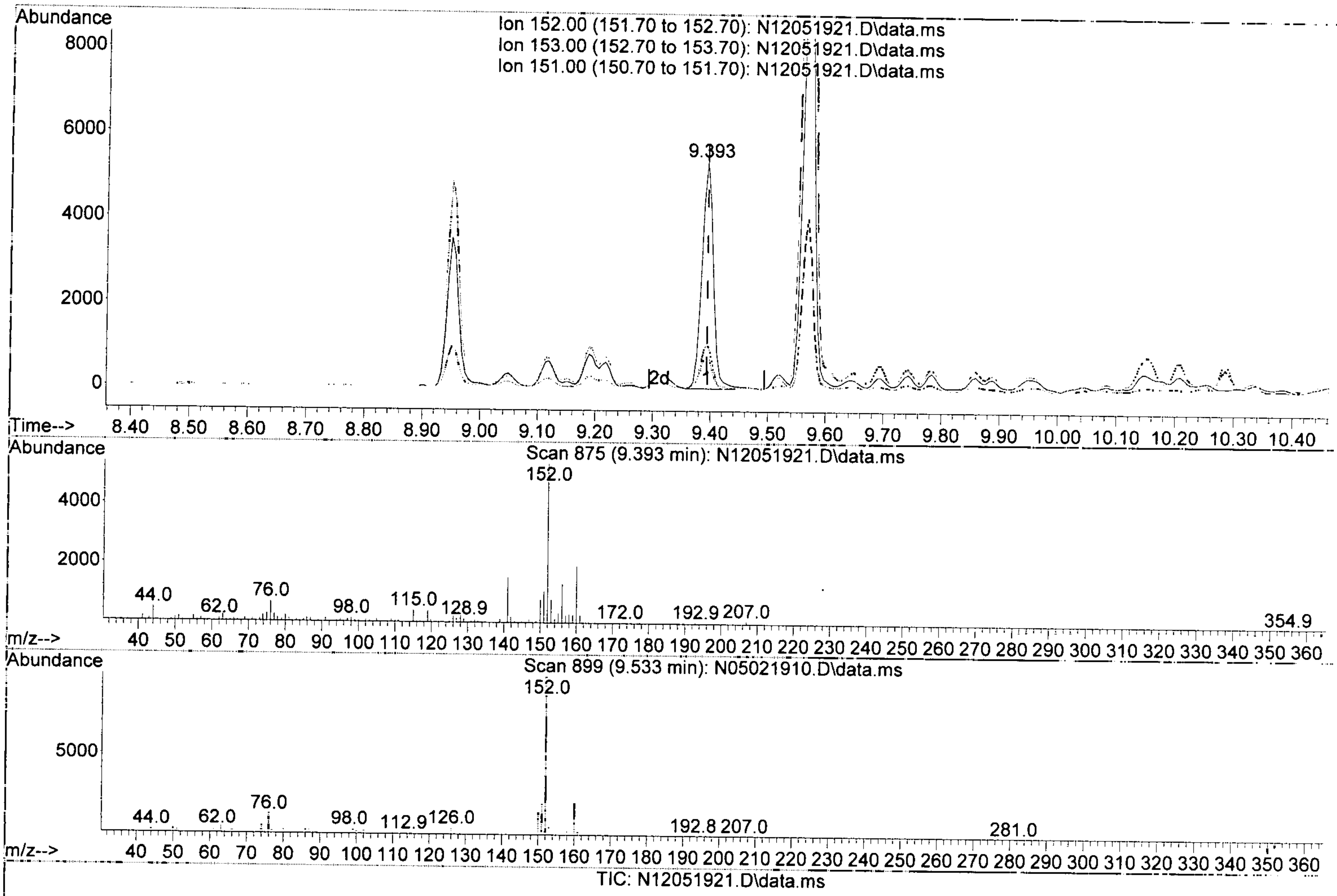
response 42863

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	86.77
115.00	35.70	31.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(12) Acenaphthylene (T)

9.393min (-0.000) 4.03 ng/ml

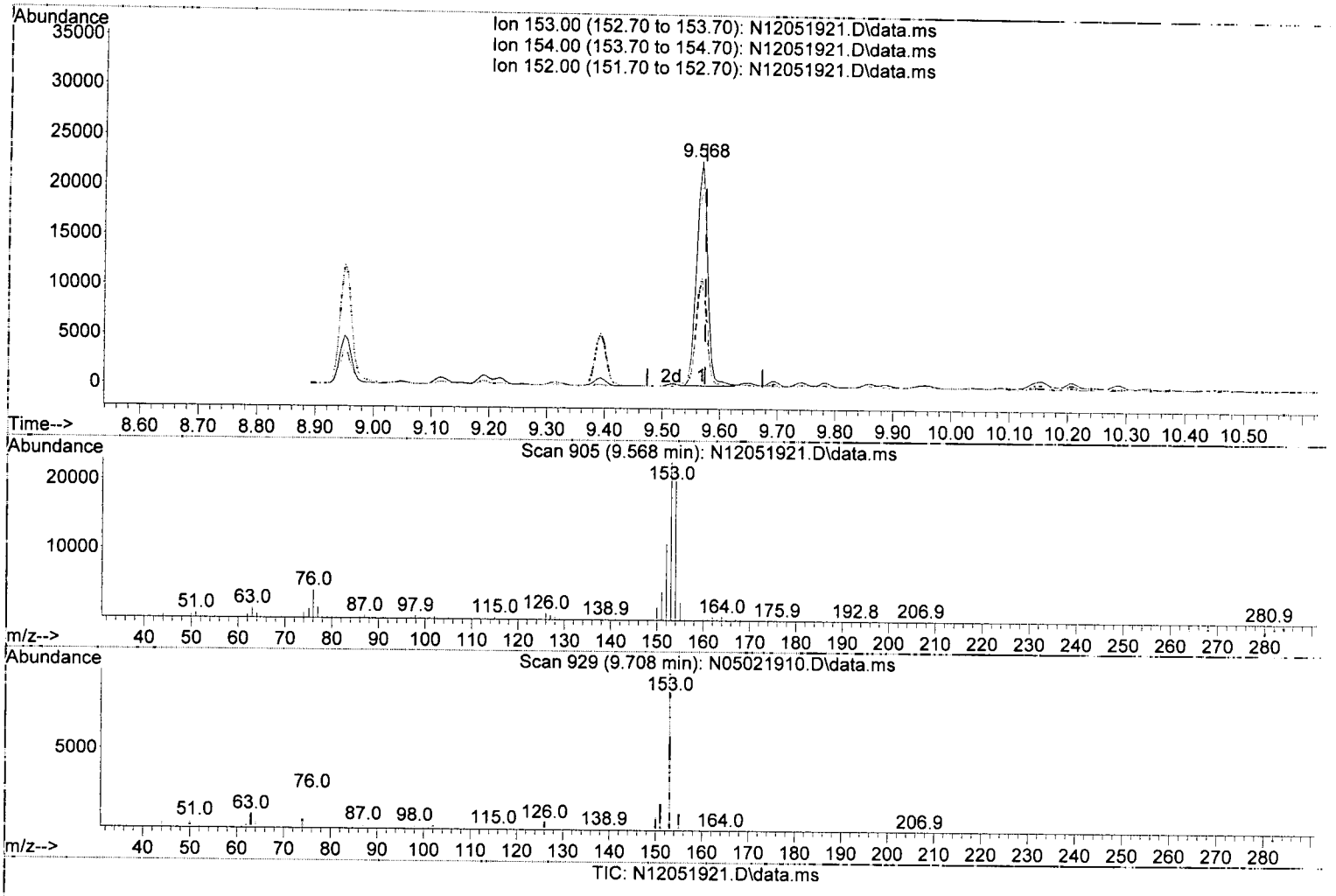
response 7430

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	14.92
151.00	19.30	20.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(13) Acenaphthene (T)

9.568min (-0.006) 25.12 ng/ml

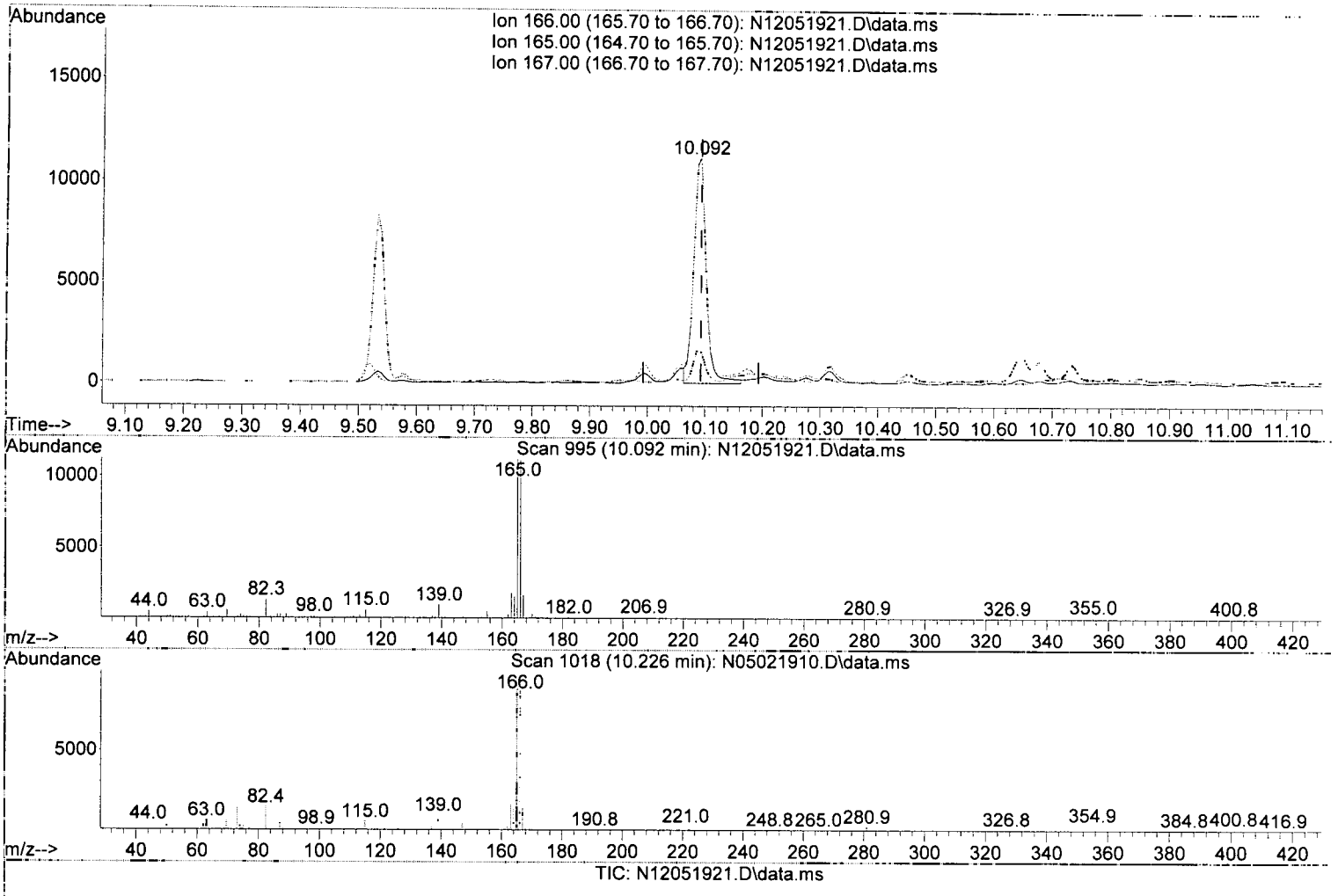
response 30329

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	91.39
152.00	46.80	48.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051921.D\data.ms

(16) Fluorene (T)

10.092min (-0.000) 13.65 ng/ml m

DTH 12/6/19

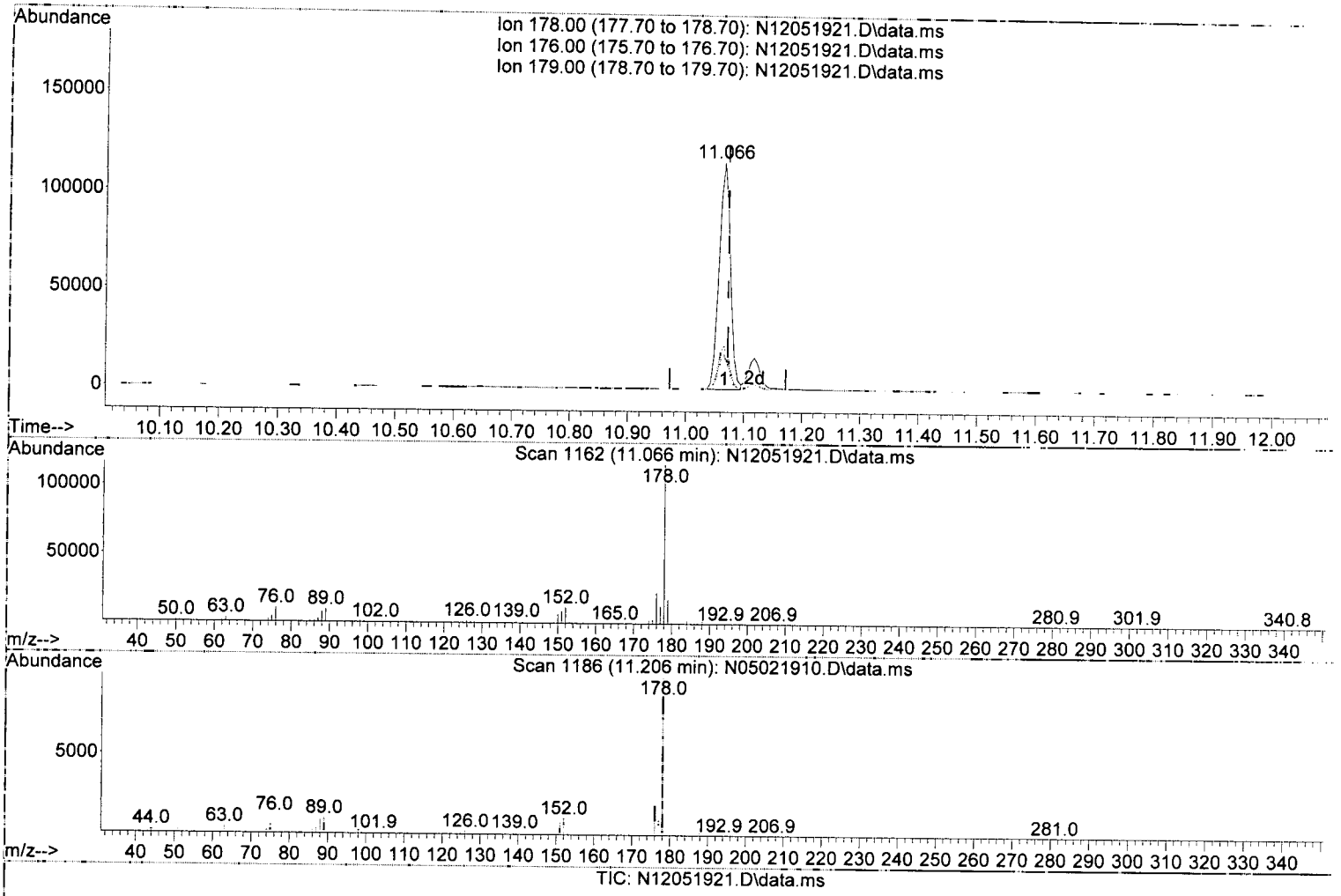
response 16871

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	100.74
167.00	13.60	14.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(19) Phenanthrene (T)

11.066min (-0.006) 100.60 ng/ml

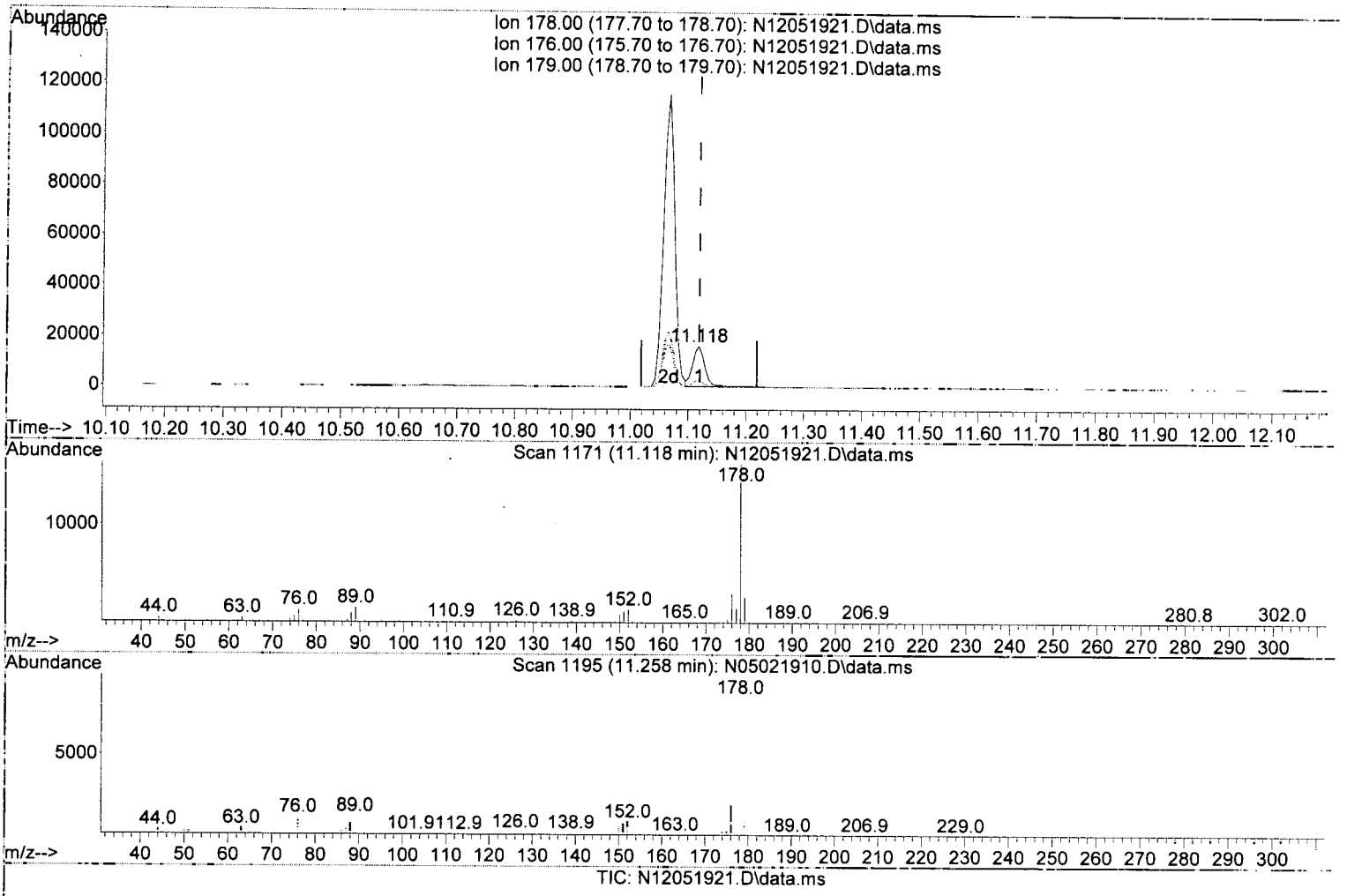
response 156150

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.33
179.00	15.10	15.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(20) Anthracene (T)

11.118min (-0.000) 16.28 ng/ml

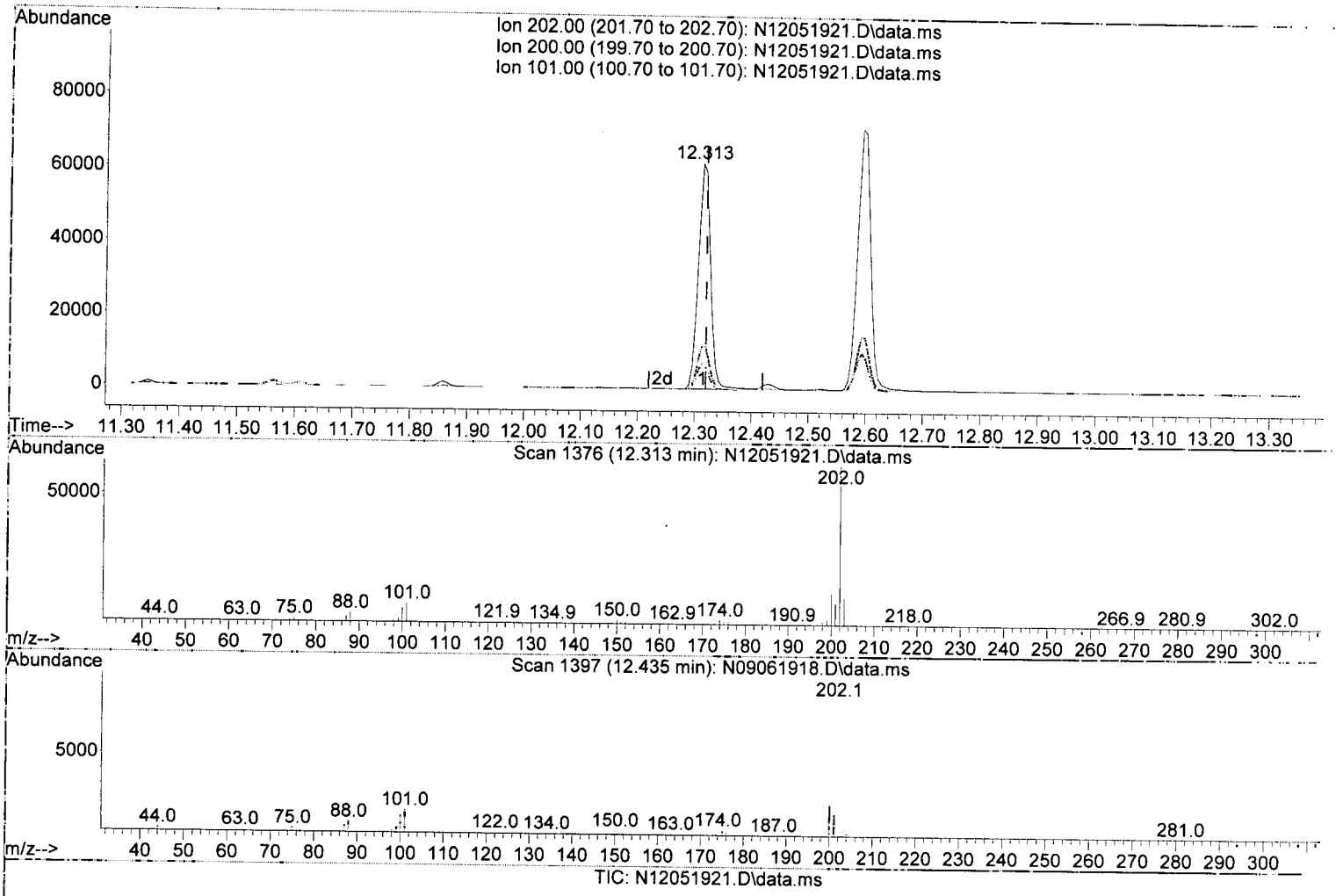
response 23500

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.71
179.00	15.30	16.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(23) Fluoranthene (T)

12.313min (-0.006) 59.41 ng/ml

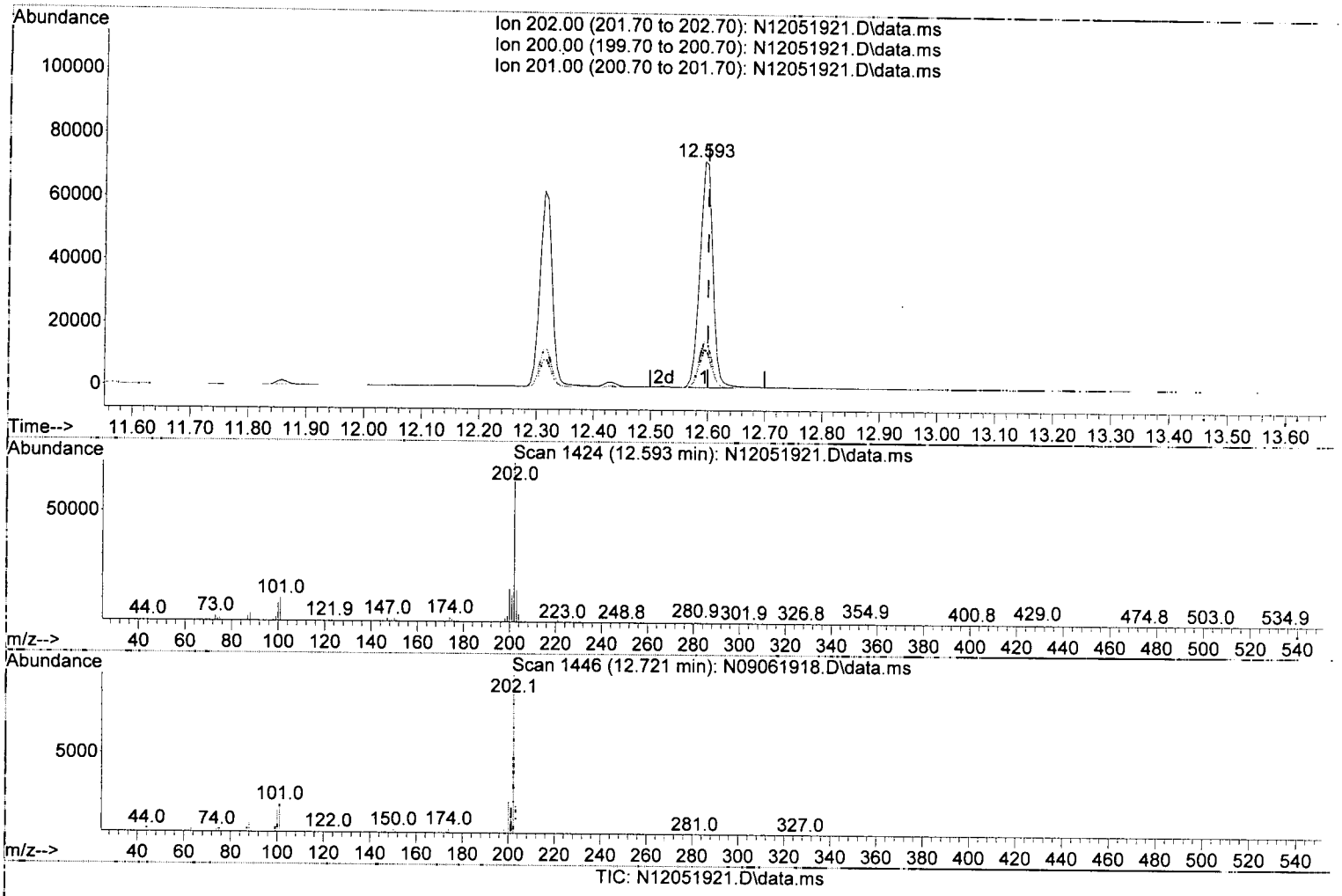
response 92908

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.95
101.00	15.30	11.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051921.D\data.ms

(25) Pyrene (T)

12.593min (-0.006) 66.01 ng/ml

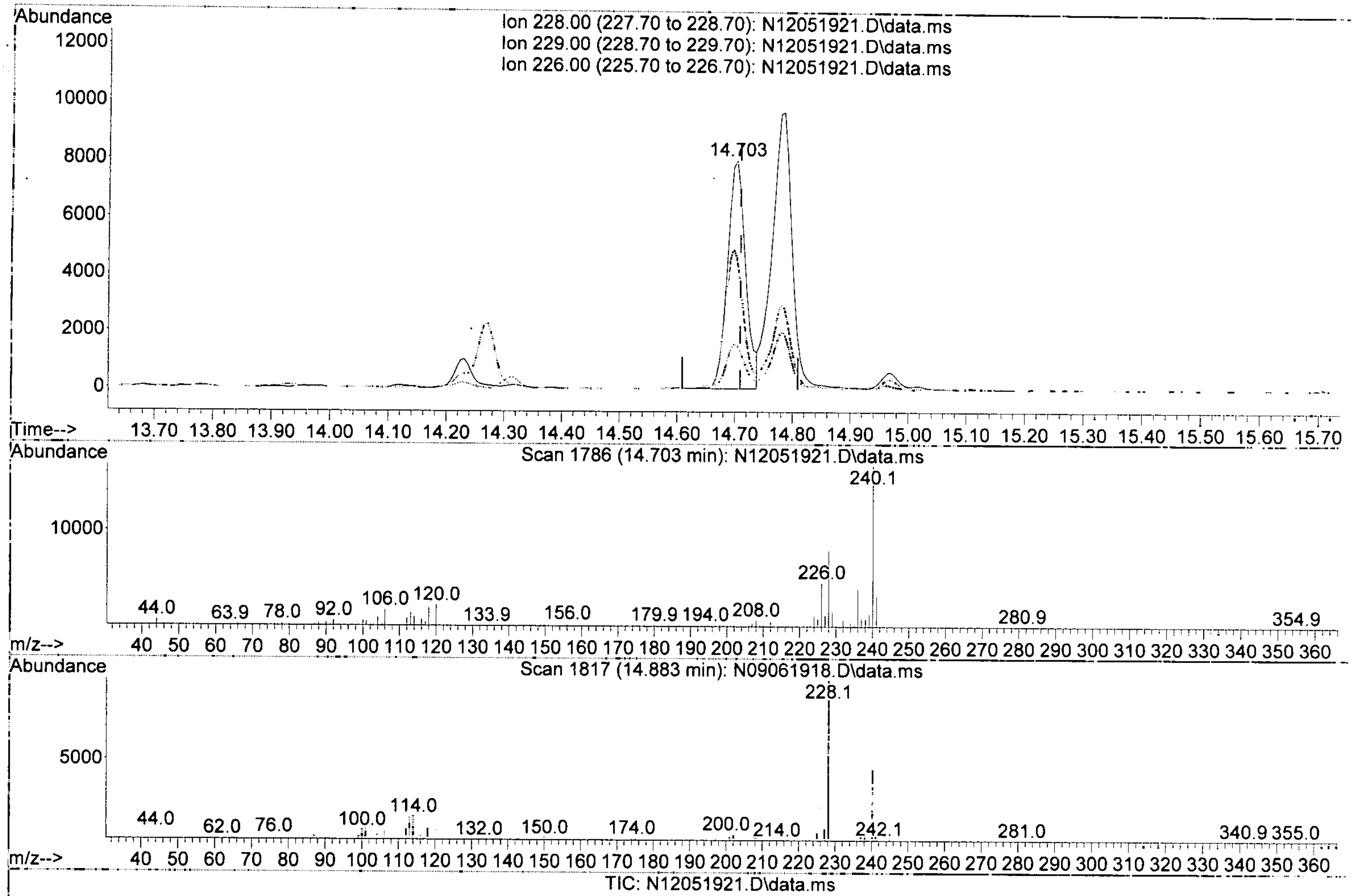
response 115027

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.76
201.00	16.80	16.95
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On    : 05 Dec 2019  08:45 pm
Operator  : JK/ AMS/ DTH
Sample    : A9J0514-19@10000
Misc      : 10000x, 8270D LL PAH ONLY
ALS Vial  : 12   Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title  : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName    : SV-GCMS14
```



(27) Benz(a)anthracene (T)

14.703min (-0.006) 13.50 ng/ml

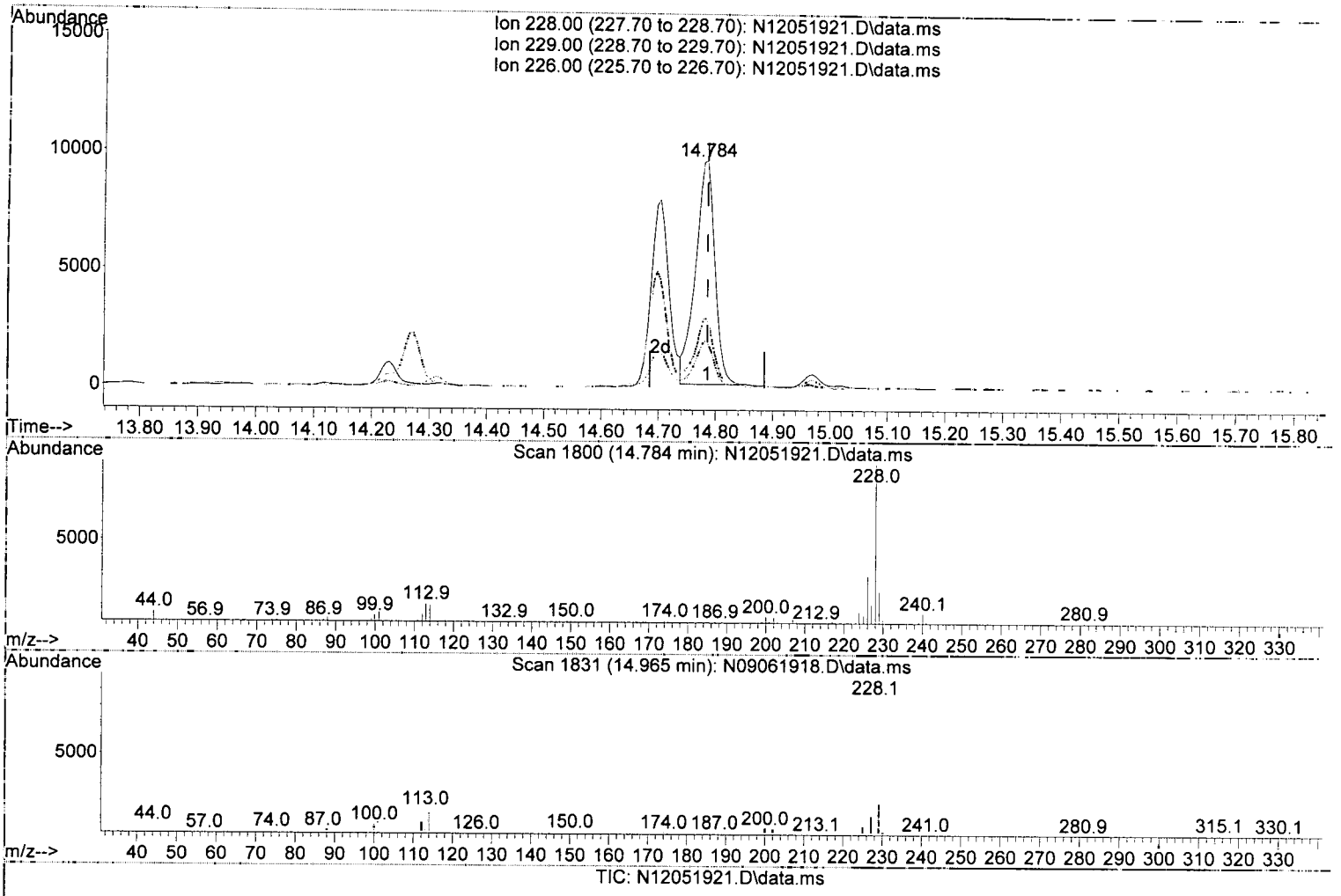
response 17487

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	19.43
226.00	26.20	57.52#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N12051921.D\data.ms

(28) Chrysene (T)

14.784min (-0.000) 18.32 ng/ml

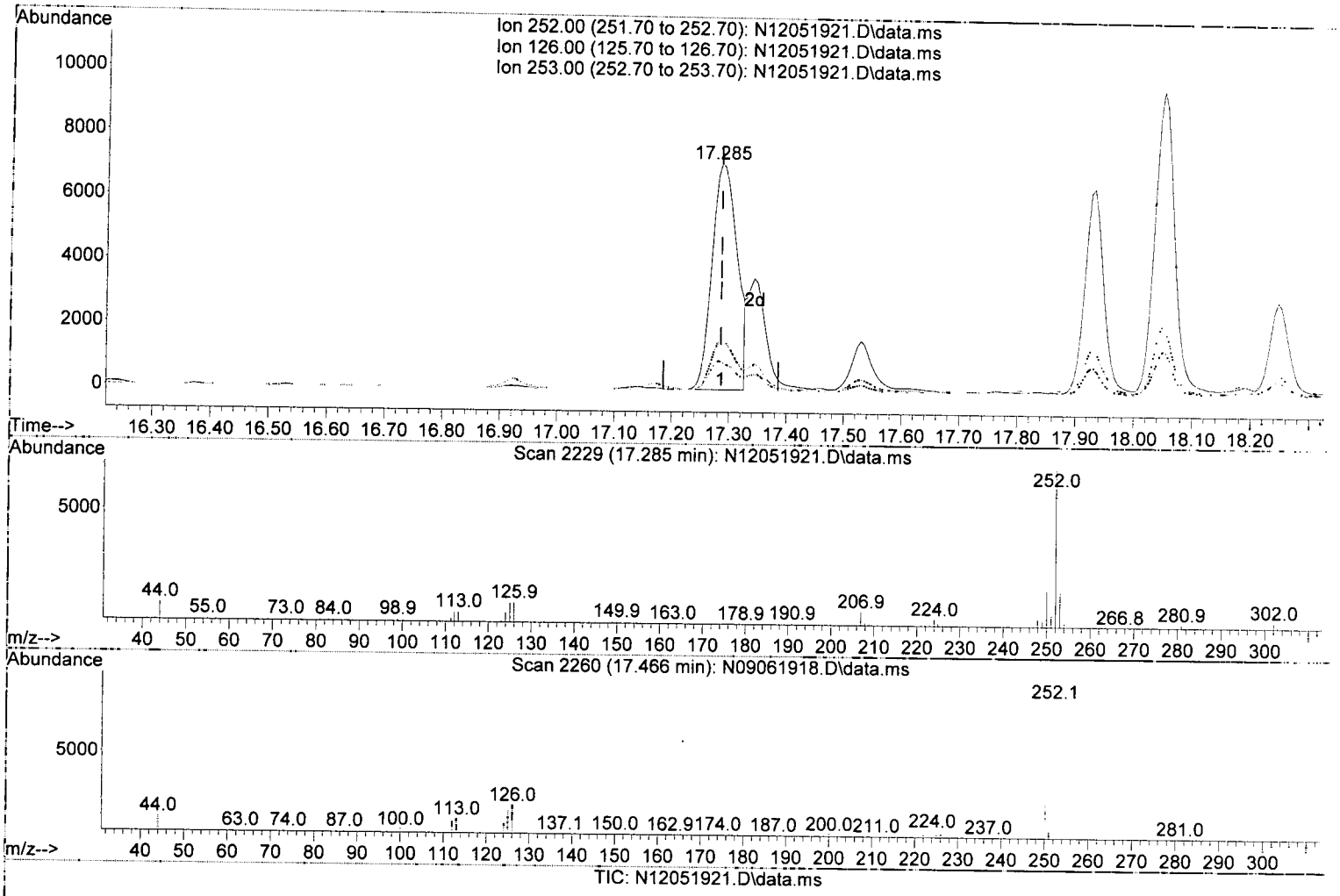
response 22452

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.40
226.00	28.60	30.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(30) Benzo(b)fluoranthene (T)

17.285min (-0.000) 16.53 ng/ml

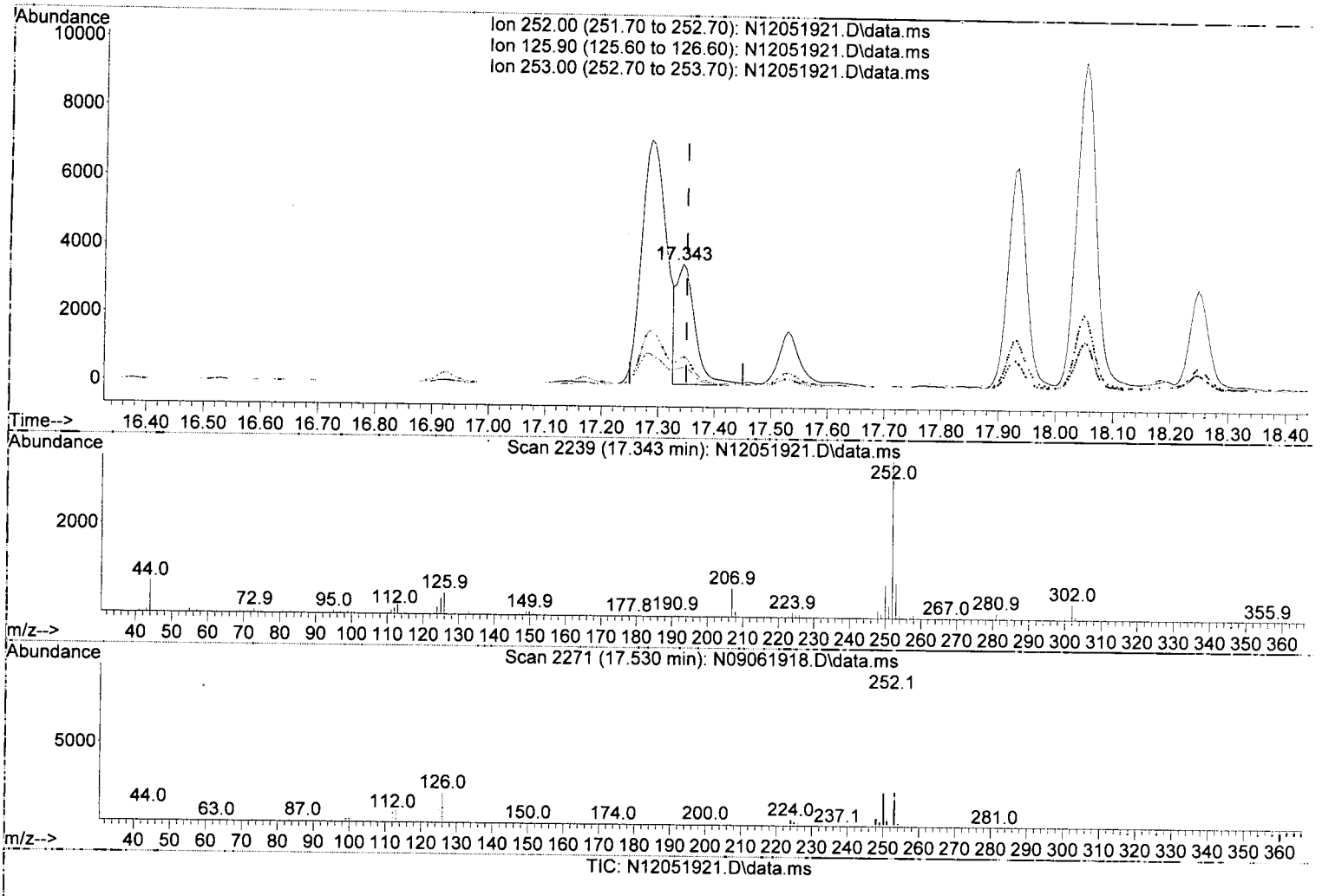
response 21658

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	12.61
253.00	21.10	22.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(31) Benzo(k)fluoranthene (T)

17.343min (-0.006) 6.19 ng/ml (m)

response 7986

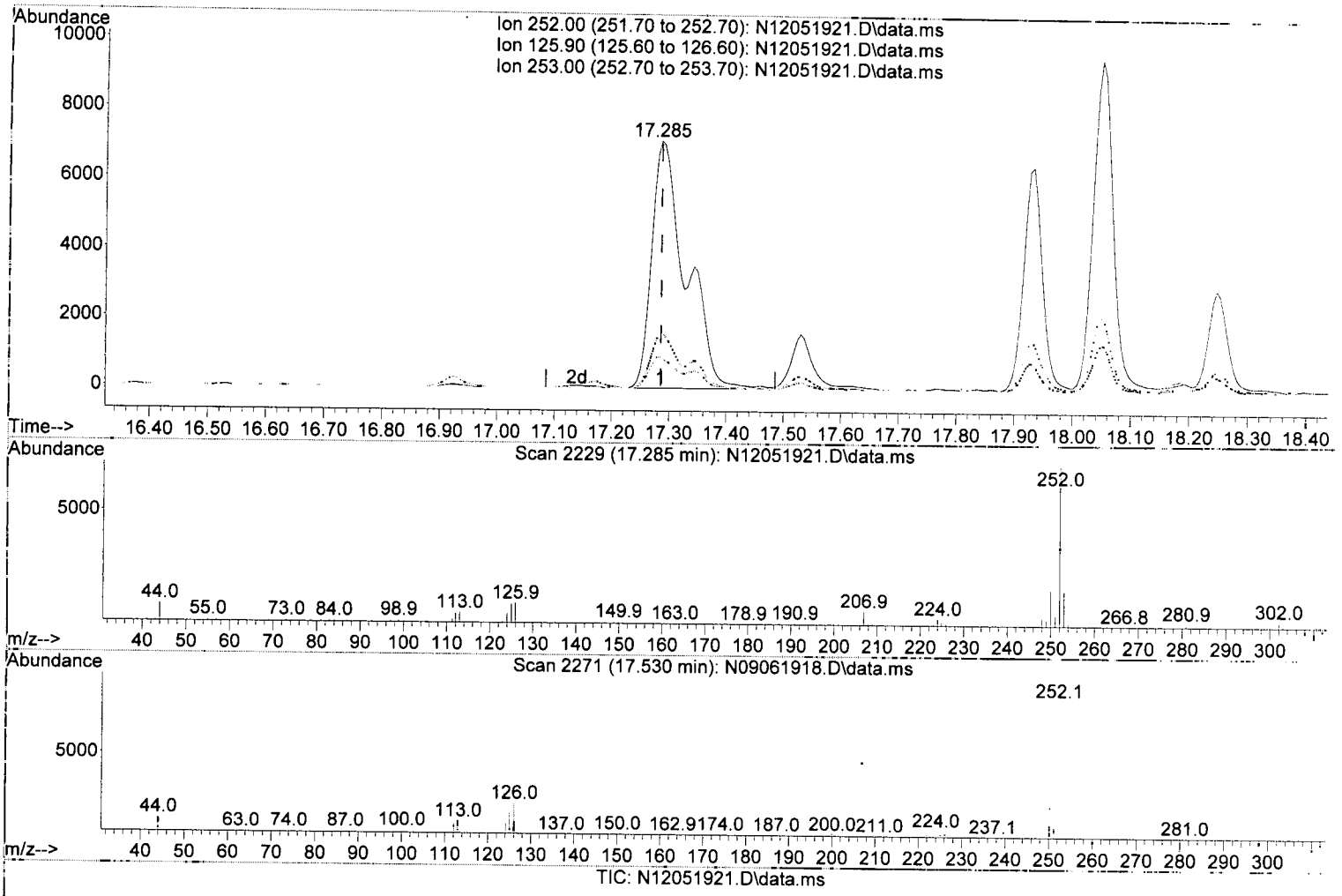
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.33
253.00	21.50	23.10
0.00	0.00	0.00

mos
DTH 12/6/19

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 11:35:52 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(32) Benzo(b+k)fluoranthene (T)

17.285min (-0.000) 22.16 ng/ml m MI by accident, NR

response 29691

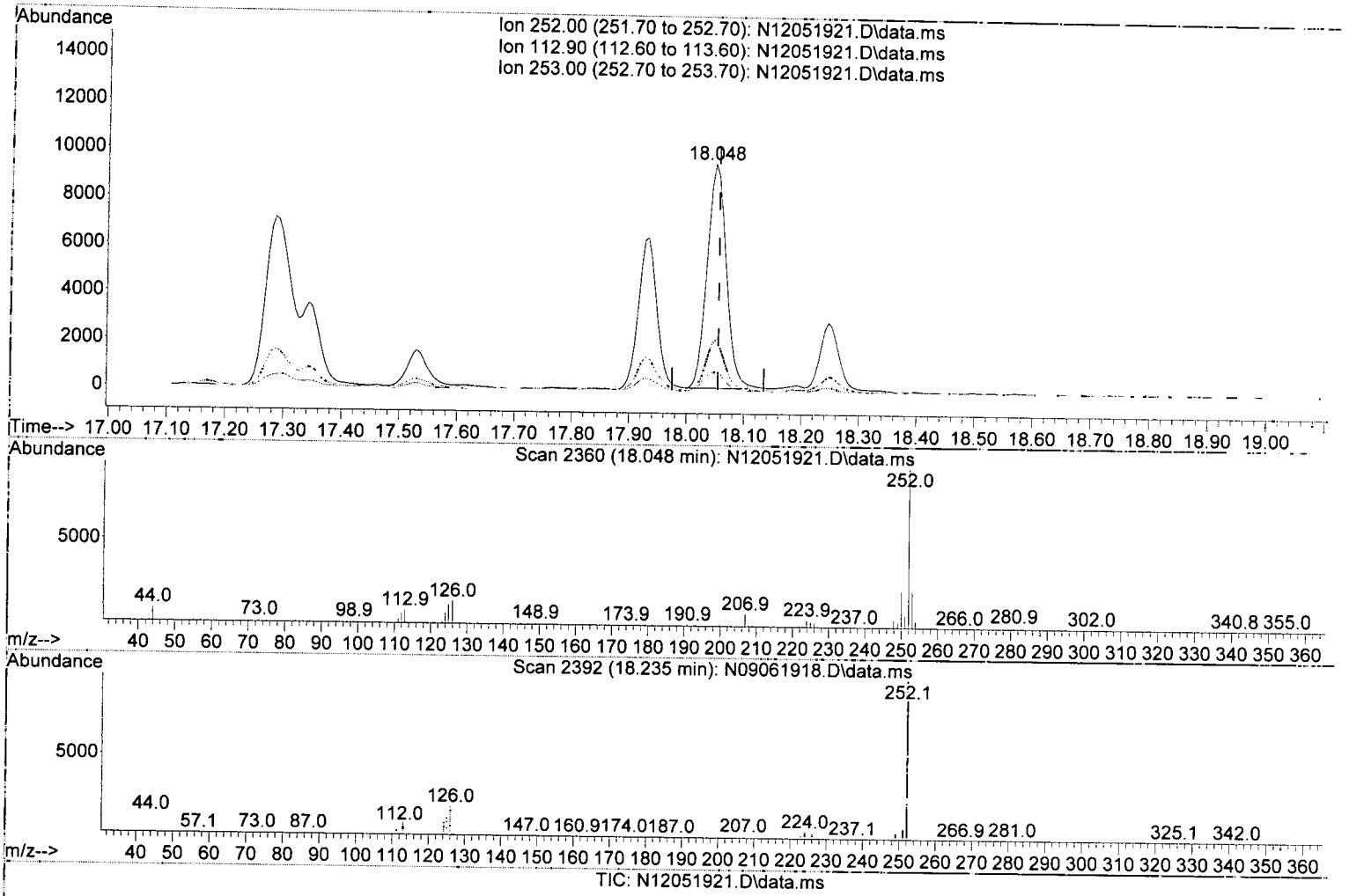
TH 12/6/19 ✓

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	12.61
253.00	21.50	22.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(35) Benzo(a)pyrene (T)

18.048min (-0.006) 19.60 ng/ml

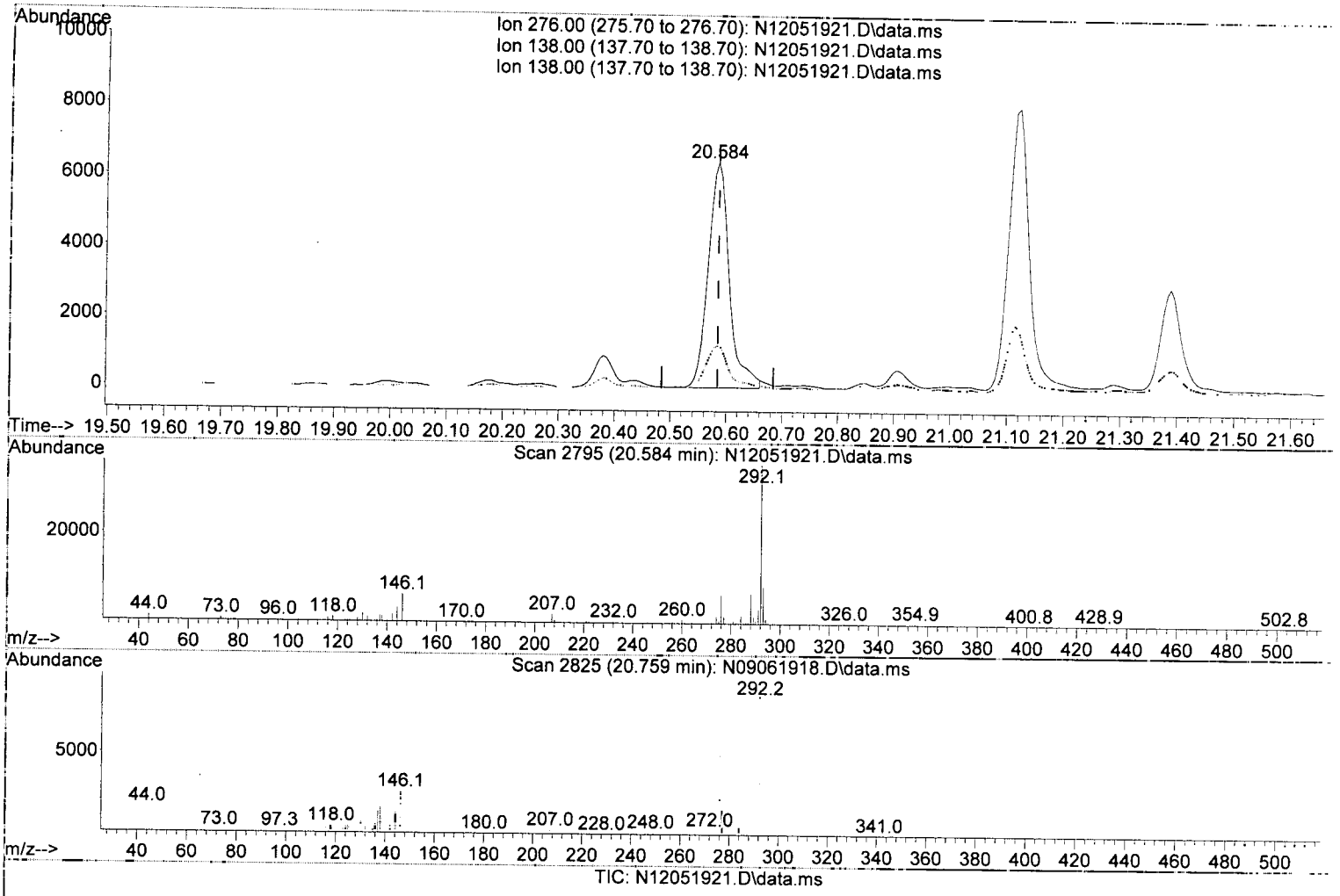
response 21977

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	8.33
253.00	21.90	22.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(38) Indeno(1,2,3-cd)Pyrene (T)

20.584min (-0.000) 13.85 ng/ml

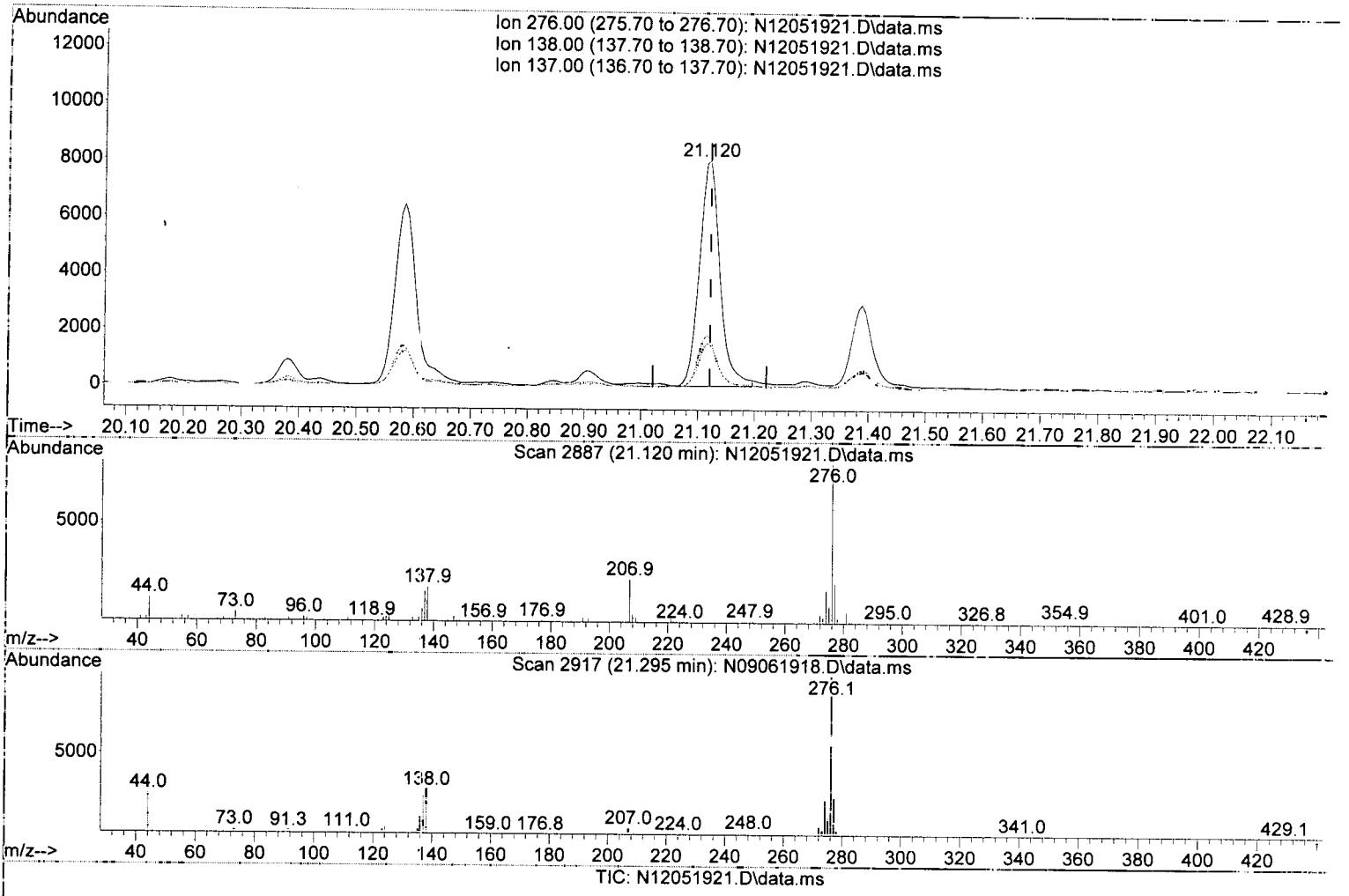
response 16933

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	19.20
138.00	31.60	19.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



(40) Benzo(g,h,i)perylene (T)

21.120min (-0.000) 15.57 ng/ml

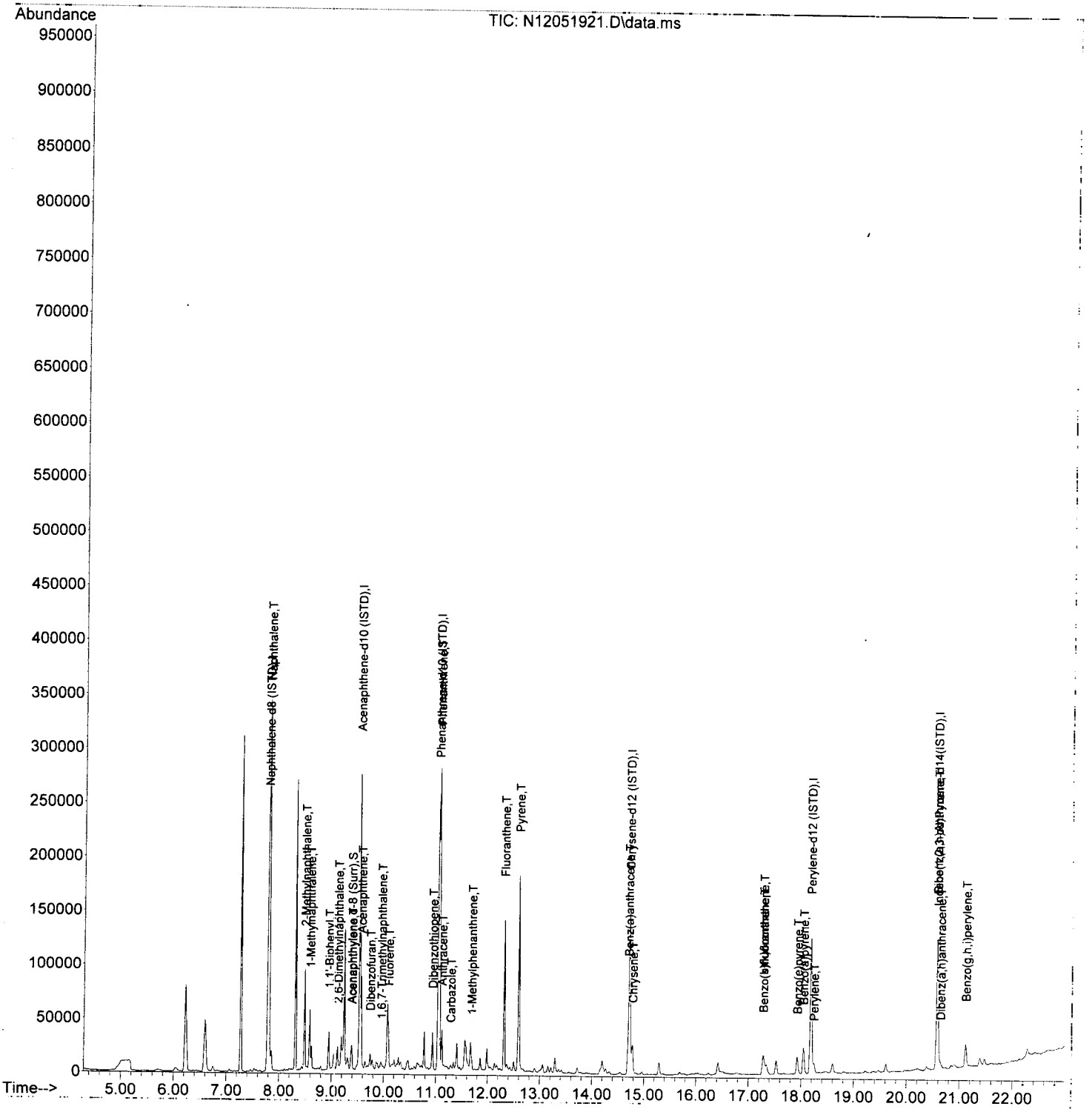
response 20192

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	21.83
137.00	18.60	19.31
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : U:\data\2109-12\9L05045\
Data File : N12051921.D
Acq On : 05 Dec 2019 08:45 pm
Operator : JK/ AMS/ DTH
Sample : A9J0514-19@10000
Misc : 10000x, 8270D LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Dec 06 10:45:00 2019
Quant Method : U:\methods\SV14_090619_PAHR6.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Nov 08 10:03:37 2019
Response via : Initial Calibration
InstName : SV-GCMS14



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

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Calibration Data

Sequence 9I06028 (Cal ID A9I1001) SV-GCMS14

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	9I06028	Instrument:	SV-GCMS14
Date:	09/06/19 15:37	Calibration:	A9I1001

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9I06028-TUN1	Sediment	QC	QC			A19I102	A19H414
2	9I06028-ICB1	Sediment	QC	QC			A19I102	
3	9I06028-CAL1	Sediment	QC	QC			A19I102	A19I015
4	9I06028-CAL2	Sediment	QC	QC			A19I102	A19I016
5	9I06028-CAL3	Sediment	QC	QC			A19I102	A19I017
6	9I06028-CAL4	Sediment	QC	QC			A19I102	A19I018
7	9I06028-CAL5	Sediment	QC	QC			A19I102	A19I019
8	9I06028-CAL6	Sediment	QC	QC			A19I102	A19I020
9	9I06028-CAL7	Sediment	QC	QC			A19I102	A19I021
10	9I06028-CAL8	Sediment	QC	QC			A19I102	A19I022
11	9I06028-CAL9	Sediment	QC	QC			A19I102	A19I023
12	9I06028-CALA	Sediment	QC	QC			A19I102	A19I024
13	9I06028-IBL1	Sediment	QC	QC			A19I102	
14	9I06028-ICV1	Sediment	QC	QC			A19I102	A19I025
15	9I06028-IBL2	Sediment	QC	QC			A19I102	

Data Entered By: 9/10/19

Data Reviewed By: 9/11/19

Comments:

Calibration Status Report SV-GCMS14

Method Path : N:\methods\
Method File : SV14_090619_PAH.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon Sep 09 14:58:53 2019
Response Via : Initial Calibration

A9I1001
9/9/19

#	ID	Conc	ISTD Conc	Path\File
1	1.0	1	100	N:\data\2019-09\9I06028\N09061913.D
2	2.5	3	100	N:\data\2019-09\9I06028\N09061914.D
3	5.0	5	100	N:\data\2019-09\9I06028\N09061915.D
4	10.0	10	100	N:\data\2019-09\9I06028\N09061916.D
5	25.0	25	100	N:\data\2019-09\9I06028\N09061917.D
6	50.0	50	100	N:\data\2019-09\9I06028\N09061918.D
7	100	100	100	N:\data\2019-09\9I06028\N09061919.D
8	200	200	100	N:\data\2019-09\9I06028\N09061920.D
9	300	300	100	N:\data\2019-09\9I06028\N09061921.D
10	400	400	100	N:\data\2019-09\9I06028\N09061922.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1.0	Sep 09 14:58 2019	Sep 09 14:46 2019	06 Sep 2019 04:51 pm
2	2.5	Sep 09 14:58 2019	Sep 09 14:46 2019	06 Sep 2019 05:23 pm
3	5.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 05:55 pm
4	10.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 06:27 pm
5	25.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 07:00 pm
6	50.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 07:32 pm
7	100	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 08:04 pm
8	200	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 08:37 pm
9	300	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 09:09 pm
10	400	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 09:41 pm

SV14_090619_PAH.M Mon Sep 09 15:05:37 2019

Compound List Report SV-GCMS14

Method Path : N:\methods\
Method File : SV14_090619_PAH.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon Sep 09 14:58:53 2019
Response Via : Initial Calibration

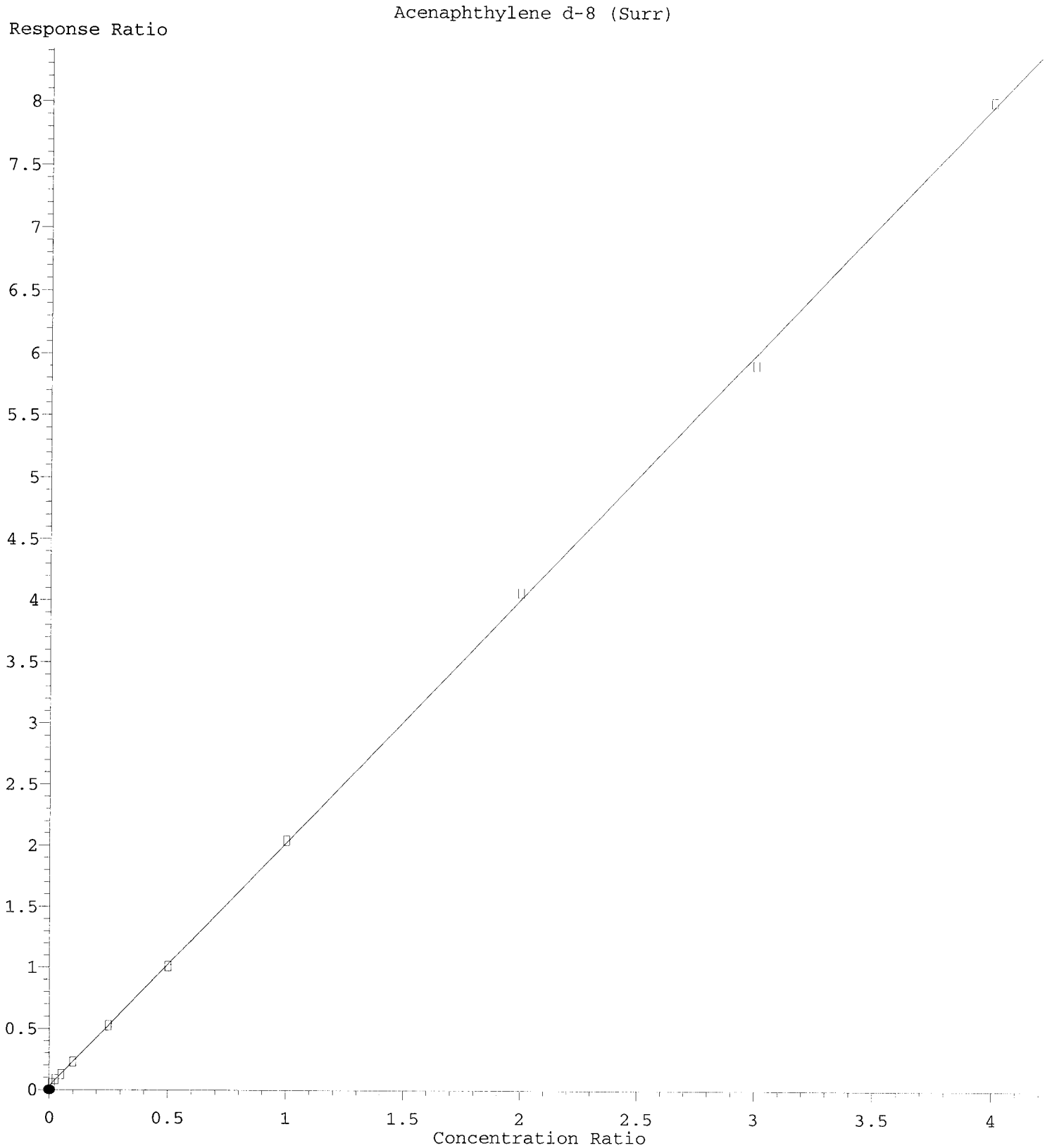
9/9/19

Total Cpnds : 40

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Naphthalene-d8 (ISTD)	136	7.883	1.000	A	2	A	B
2	S	Nitrobenzene-d5 (Surr)	82	7.184	0.911	A	1	A	R
3	T	Decalin	138	7.364	0.934	A	2	A	B
4	T	Naphthalene	128	7.907	1.003	A	2	A	R
5	T	2-Methylnaphthalene	142	8.589	1.089	A	2	A	R
6	T	1-Methylnaphthalene	142	8.688	1.102	A	2	A	R
7	T	1,1'-Biphenyl	154	9.055	1.149	A	2	A	B
8	T	2,6-Dimethylnaphthalene	156	9.212	1.169	A	2	A	R
9	I	Acenaphthene-d10 (ISTD)	162	9.638	1.000	A	2	A	R
10	S	2-Fluorobiphenyl (Surr)	172	8.950	0.929	A	2	A	R
11	S	Acenaphthylene d-8 (Surr)	160	9.480	0.984	Q	2	A	R
12	T	Acenaphthylene	152	9.498	0.985	A	2	A	R
13	T	Acenaphthene	153	9.673	1.004	A	2	A	R
14	T	Dibenzofuran	168	9.848	1.022	A	2	A	R
15	T	1,6,7-Trimethylnaphthalene	170	10.057	1.044	A	2	A	R
16	T	Fluorene	166	10.191	1.057	A	2	A	R
17	I	Phenanthrene-d10 (ISTD)	188	11.147	1.000	A	2	A	R
18	T	Dibenzothiopene	184	11.042	0.991	A	3	A	R
19	T	Phenanthrene	178	11.171	1.002	A	2	A	R
20	T	Anthracene	178	11.223	1.007	A	2	A	R
21	T	Carbazole	167	11.390	1.022	A	2	A	R
22	T	1-Methylphenanthrene	192	11.794	1.058	A	2	A	R
23	T	Fluoranthene	202	12.435	1.116	A	2	A	R
24	I	Chrysene-d12 (ISTD)	240	14.906	1.000	A	2	A	R
25	T	Pyrene	202	12.721	0.853	A	2	A	R
26	S	Terphenyl-d14 (Surr)	244	12.930	0.867	A	2	A	R
27	T	Benz(a)anthracene	228	14.883	0.998	A	2	A	R
28	T	Chrysene	228	14.965	1.004	A	2	A	R
29	I	Perylene-d12 (ISTD)	264	18.374	1.000	A	2	A	R
30	T	Benzo(b)fluoranthene	252	17.465	0.951	A	2	A	R
31	T	Benzo(k)fluoranthene	252	17.529	0.954	A	2	A	R
32	T	Benzo(b+k)fluoranthene	252	17.529	0.954	A	2	A	R
33	S	Benzo(a)pyrene d-12 (Surr)	264	18.176	0.989	A	2	A	B
34	T	Benzo(e)pyrene	252	18.118	0.986	A	2	A	R
35	T	Benzo(a)pyrene	252	18.234	0.992	A	2	A	R
36	T	Perylene	252	18.433	1.003	A	2	A	R
37	I	Dibenz(a,h)Anthrcene-d14(ISTD)	292	20.764	1.000	A	2	A	R
38	T	Indeno(1,2,3-cd)Pyrene	276	20.758	1.000	A	2	A	R
39	T	Dibenz(a,h)anthracene	278	20.828	1.003	A	2	A	R
40	T	Benzo(g,h,i)perylene	276	21.294	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

SV14_090619_PAH.M Mon Sep 09 15:05:30 2019

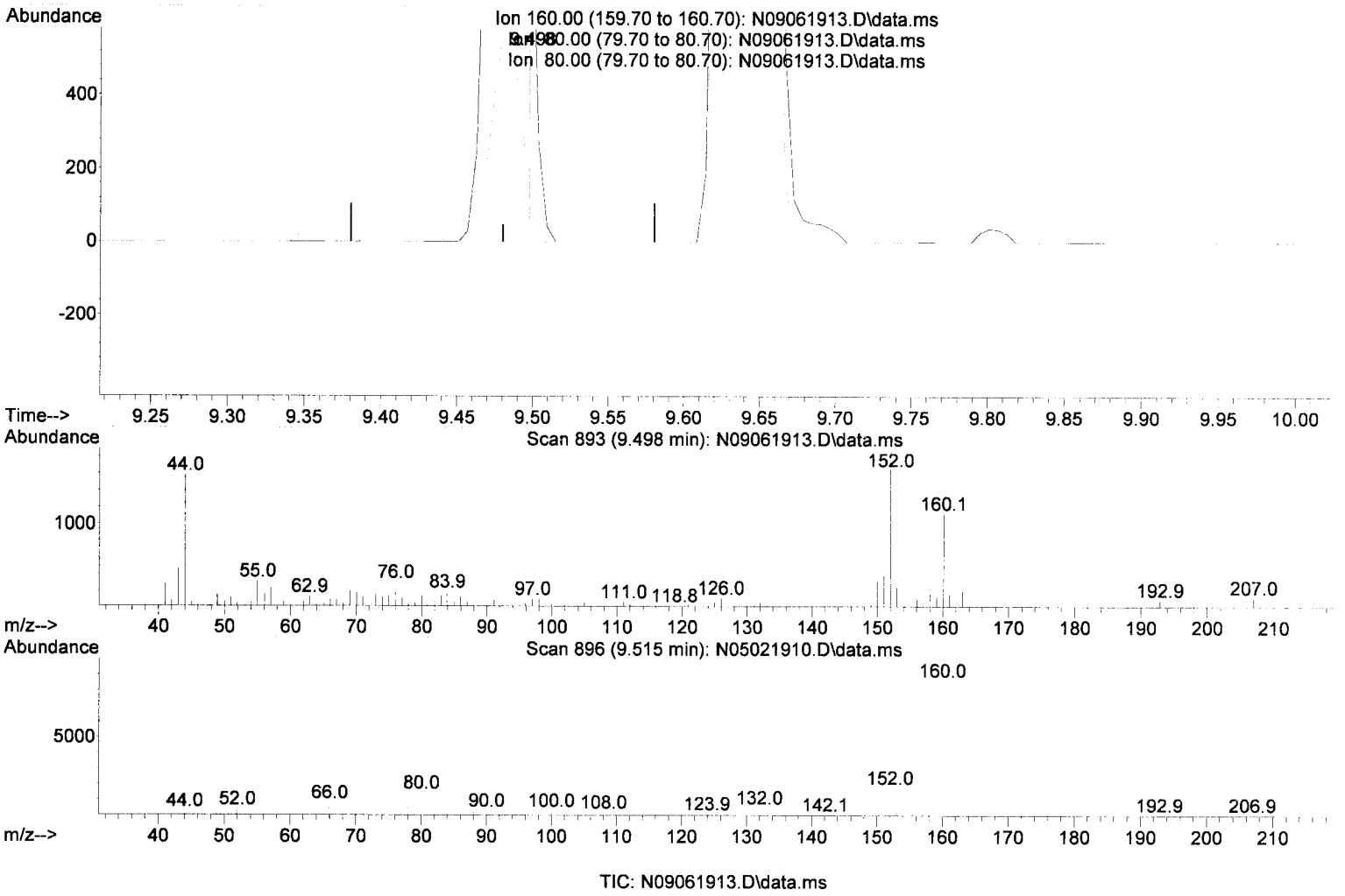


R = -2.27e-003 A*A + 2.00e+000 A + 2.92e-002
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: N:\methods\SV14_090619_PAH.M_
Calibration Table Last Updated: Mon Sep 09 15:00:15 2019

Quantitation Report (Qedit)

Data Path : N:\data\2019-09\9I06028\REQUANT\
Data File : N09061913.D
Acq On : 06 Sep 2019 04:51 pm
Operator :
Sample : 9I06028-CAL1
Misc : 1x, A19I015@1
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 15:06:04 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N09061913.D\data.ms

(11) Acenaphthylene d-8 (Surr) (S)

9.498min (+ 0.017) -1.00 ng/ml m

response 111

Ion	Exp%	Act%
160.00	100.00	100.00
80.00	14.40	12.44
80.00	14.40	12.44
0.00	0.00	0.00

Response Factor Report SV-GCMS14

Method Path : N:\methods\
Method File : SV14_090619_PAH.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon Sep 09 14:58:53 2019
Response Via : Initial Calibration

9/9/19

Calibration Files
1.0 =N09061913.D 2.5 =N09061914.D 5.0 =N09061915.D 10.0=N09061916.D 25.0=N09061917.D 50.0=N09061918.D 100 =N09061919.D
200 =N09061920.D 300 =N09061921.D 400 =N09061922.D

		Compound	1.0	2.5	5.0	10.0	25.0	50.0	100	200	300	400	Avg	%RSD	
															6.52
1)	I	Naphthalene-d8 (ISTD)	----------ISTD----------												
2)	S	Nitrobenzene-d...	0.391	0.340	0.316	0.315	0.306	0.324	0.323	0.334	0.338	0.337	0.332	7.09	Not used
3)	T	Decalin		0.076	0.070	0.069	0.070	0.075	0.077	0.077	0.075	0.081	0.074	5.47	Not used
4)	T	Naphthalene	1.158	1.135	1.098	1.123	1.090	1.083	1.082	1.092	1.078	1.090	1.103	2.42	✓
5)	T	2-Methylnaphth...	0.893	0.907	0.881	0.886	0.895	0.941	0.965	1.001	1.001	0.975	0.935	5.16	✓
6)	T	1-Methylnaphth...	0.821	0.875	0.837	0.916	0.923	0.964	0.986	1.025	1.016	0.981	0.934	7.70	✓
7)	T	1,1'-Biphenyl	1.222	1.201	1.123	1.186	1.195	1.259	1.326	1.389	1.390	1.279	1.257	7.10	Not used
8)	T	2,6-Dimethylna...	0.823	0.850	0.815	0.851	0.892	0.943	0.994	1.034	1.033	0.946	0.918	9.12	Not used
															2.97
9)	I	Acenaphthene-d10 (...	----------ISTD----------												
10)	S	2-Fluorobiphen...	1.424	1.562	1.481	1.499	1.500	1.482	1.499	1.496	1.477	1.498	1.492	2.26	✓
11)	S	Acenaphthylene...	4.877	3.301	2.497	2.282	2.108	2.021	2.043	2.031	1.970	2.004	2.513	36.74	Not used (Surrogate)
12)	T	Acenaphthylene	2.050	2.174	2.139	2.171	2.195	2.172	2.248	2.243	2.161	2.158	2.171	2.55	✓
13)	T	Acenaphthene	1.439	1.487	1.404	1.417	1.419	1.394	1.443	1.431	1.388	1.396	1.422	2.10	✓
14)	T	Dibenzofuran	1.760	1.773	1.736	1.780	1.790	1.777	1.831	1.827	1.771	1.765	1.781	1.63	✓
15)	T	1,6,7-Trimethy...	1.249	1.207	1.173	1.178	1.169	1.168	1.213	1.212	1.178	1.178	1.193	2.23	Not used
16)	T	Fluorene	1.369	1.405	1.409	1.422	1.461	1.447	1.526	1.545	1.493	1.476	1.455	3.85	✓
															5.33
17)	I	Phenanthrene-d10 (...	----------ISTD----------												
18)	T	Dibenzothiopene	1.030	1.080	1.056	1.038	1.030	1.033	1.050	1.056	1.042	1.043	1.046	1.46	Not used
19)	T	Phenanthrene	1.287	1.194	1.137	1.165	1.154	1.152	1.158	1.178	1.134	1.143	1.170	3.85	✓
20)	T	Anthracene	1.097	1.089	1.049	1.062	1.069	1.076	1.110	1.115	1.102	1.115	1.088	2.16	✓
21)	T	Carbazole	0.872	0.830	0.810	0.818	0.866	0.871	0.905	0.945	0.940	0.950	0.881	5.99	✓
22)	T	1-Methylphenan...	0.803	0.804	0.781	0.794	0.802	0.805	0.824	0.842	0.826	0.847	0.813	2.60	Not used
23)	T	Fluoranthene	1.194	1.127	1.104	1.124	1.162	1.171	1.202	1.227	1.218	1.261	1.179	4.30	✓
															15.52
24)	I	Chrysene-d12 (ISTD)	----------ISTD----------												
25)	T	Pyrene	1.634	1.742	1.585	1.636	1.580	1.571	1.560	1.478	1.416	1.421	1.562	6.48	✓
26)	S	Terphenyl-d14 ...	1.150	1.092	1.037	1.058	1.060	1.046	1.049	1.021	0.993	1.012	1.052	4.22	✓
27)	T	Benz(a)anthracene	1.394	1.221	1.088	1.093	1.114	1.098	1.142	1.149	1.139	1.173	1.161	7.87	✓
28)	T	Chrysene	1.134	1.107	1.087	1.087	1.098	1.082	1.095	1.103	1.080	1.114	1.099	1.52	✓
															18.95
29)	I	Perylene-d12 (ISTD)	----------ISTD----------												
30)	T	Benzo(b)fluora...	1.117	1.085	1.065	1.092	1.128	1.164	1.194	1.231	1.217	1.246	1.154	5.68	✓
31)	T	Benzo(k)fluora...	1.067	1.082	1.086	1.036	1.128	1.118	1.196	1.221	1.198	1.228	1.136	6.13	✓
32)	T	Benzo(b+k)fluo...	2.224	2.236	2.233	2.230	2.344	2.357	2.457	2.518	2.473	2.532	2.361	5.36	✓
33)	S	Benzo(a)pyrene...	0.639	0.751	0.745	0.759	0.782	0.808	0.845	0.885	0.880	0.902	0.800	10.15	Not used (Surrogate)
34)	T	Benzo(e)pyrene	1.244	1.173	1.075	1.091	1.139	1.151	1.184	1.213	1.188	1.210	1.167	4.61	Not used
35)	T	Benzo(a)pyrene	0.983	0.860	0.859	0.902	0.977	1.004	1.043	1.085	1.068	1.095	0.988	9.00	✓
36)	T	Perylene	1.038	1.226	1.199	1.189	1.232	1.218	1.248	1.282	1.254	1.278	1.216	5.74	Not used

Method Path : N:\methods\
Method File : SV14_090619_PAH.M
Title : EPA 8270D: Semivolatile Organics

~~2.69~~ 2.60 9/2 9/10/19

37)	I	Dibenz(a,h)Anthrce...	----------ISTD----------										
38)	T	Indeno(1,2,3-c...	1.208	1.280	1.185	1.191	1.192	1.223	1.260	1.262	1.249	1.283	1.233	3.08
39)	T	Dibenz(a,h)ant...	1.173	1.144	1.121	1.116	1.120	1.144	1.178	1.194	1.182	1.217	1.159	3.01
40)	T	Benzo(g,h,i)pe...	1.245	1.185	1.241	1.251	1.289	1.328	1.388	1.395	1.368	1.394	1.308	5.85

(#) = Out of Range

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9I06028

Analysis Included
8270D LL PAH Only (Scan)

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
9I06028-TUN1	MS Tune	Sediment	A19H414	A19I102	9/6/2019 3:51:00PM
9I06028-ICB1	Initial Cal Blank	Sediment		A19I102	9/6/2019 4:18:00PM
9I06028-CAL1	Cal Standard	Sediment	A19I015	"	9/6/2019 4:51:00PM
9I06028-CAL2	Cal Standard	Sediment	A19I016	"	9/6/2019 5:23:00PM
9I06028-CAL3	Cal Standard	Sediment	A19I017	"	9/6/2019 5:55:00PM
9I06028-CAL4	Cal Standard	Sediment	A19I018	"	9/6/2019 6:27:00PM
9I06028-CAL5	Cal Standard	Sediment	A19I019	"	9/6/2019 7:00:00PM
9I06028-CAL6	Cal Standard	Sediment	A19I020	"	9/6/2019 7:32:00PM
9I06028-CAL7	Cal Standard	Sediment	A19I021	"	9/6/2019 8:04:00PM
9I06028-CAL8	Cal Standard	Sediment	A19I022	"	9/6/2019 8:37:00PM
9I06028-CAL9	Cal Standard	Sediment	A19I023	"	9/6/2019 9:09:00PM
9I06028-CALA	Cal Standard	Sediment	A19I024	"	9/6/2019 9:41:00PM
9I06028-ICV1	Initial Cal Check	Sediment	A19I025	"	9/6/2019 10:45:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A9I1001** Instrument: **SV-GCMS14**

8270D LL PAH Only (Scan) Sequence: **9I06028** Matrix: **Sediment**

9I06028-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-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: 9I06028

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: **A9I1001** Instrument: **SV-GCMS14**

8270D LL PAH Only (Scan) Sequence: **9I06028** Matrix: **Sediment**

9I06028-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 : N:\data\2019-09\9I06028\
Data File : N09061924.D
Acq On : 06 Sep 2019 10:45 pm
Operator :
Sample : 9I06028-ICV1
Misc : 1x, A19I025@50
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 10 10:28:40 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/10/19

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	Naphthalene-d8 (ISTD)	100.000	100.000	0.0	123	0.00
2	S	Nitrobenzene-d5 (Surr)	50.000	46.212	7.6	116	0.00
3	T	Decalin	50.000	48.753	2.5	118	0.00
4	T	Naphthalene	50.000	49.942	0.1	125	0.00
5	T	2-Methylnaphthalene	50.000	46.827	6.3	114	0.00
6	T	1-Methylnaphthalene	50.000	47.766	4.5	113	0.00
7	T	1,1'-Biphenyl	50.000	46.341	7.3	113	0.00
8	T	2,6-Dimethylnaphthalene	50.000	45.797	8.4	109	0.00
9	I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	106	0.00
10	S	2-Fluorobiphenyl (Surr)	50.000	49.669	0.7	106	0.00
11	S	Acenaphthylene d-8 (Surr)	50.000	49.308	1.4	106	0.00
12	T	Acenaphthylene	50.000	51.950	-3.9	110	0.00
13	T	Acenaphthene	50.000	50.335	-0.7	109	0.00
14	T	Dibenzofuran	50.000	50.914	-1.8	108	0.00
15	T	1,6,7-Trimethylnaphthalene	50.000	50.151	-0.3	109	0.00
16	T	Fluorene	50.000	50.867	-1.7	109	0.00
17	I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	107	0.00
18	T	Dibenzothiopene	50.000	49.794	0.4	108	0.00
19	T	Phenanthrene	50.000	50.398	-0.8	110	0.00
20	T	Anthracene	50.000	51.792	-3.6	112	0.00
21	T	Carbazole	50.000	50.683	-1.4	110	-0.02
22	T	1-Methylphenanthrene	50.000	51.441	-2.9	111	0.00
23	T	Fluoranthene	50.000	50.556	-1.1	109	0.00
24	I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	111	0.00
25	T	Pyrene	50.000	49.139	1.7	109	0.00
26	S	Terphenyl-d14 (Surr)	50.000	48.699	2.6	109	0.00
27	T	Benz(a)anthracene	50.000	48.477	3.0	114	0.00
28	T	Chrysene	50.000	52.375	-4.8	118	0.00
29	I	Perylene-d12 (ISTD)	100.000	100.000	0.0	114	0.00
30	T	Benzo(b)fluoranthene	50.000	50.587	-1.2	115	0.00
31	T	Benzo(k)fluoranthene	50.000	49.972	0.1	116	0.00
32	T	Benzo(b+k)fluoranthene	100.000	100.734	-0.7	115	0.00
33	S	Benzo(a)pyrene d-12 (Surr)	50.000	53.210	-6.4	120	0.00
34	T	Benzo(e)pyrene	50.000	50.277	-0.6	117	0.00
35	T	Benzo(a)pyrene	50.000	51.177	-2.4	115	0.00
36	T	Perylene	50.000	50.891	-1.8	116	0.00
37	I	Dibenz(a,h)Anthrcene-d14(IS	100.000	100.000	0.0	117	0.00
38	T	Indeno(1,2,3-cd)Pyrene	50.000	49.977	0.0	118	0.00
39	T	Dibenz(a,h)anthracene	50.000	49.339	1.3	117	0.00
40	T	Benzo(g,h,i)perylene	50.000	53.580	-7.2	123	0.00

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
Quant Method : N:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Sep 05 08:50:46 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.613	150	163761	2.00	ug/mL	# 0.00
2) Naphthalene-d8	7.825	136	486548	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.585	162	255378	2.00	ug/mL	0.00
5) Phenanthrene-d10	11.101	188	470705	2.00	ug/mL	0.00
11) Chrysene-d12	14.779	240	413133	2.00	ug/mL	# 0.00
12) Perylene-d12	16.830	264	372325	2.00	ug/mL	# 0.00
13) Dibenz(a,h)anthracene-...	18.060	292	295670	2.00	ug/mL	0.00
Target Compounds						Qvalue
4) Pentachlorophenol	10.920	266	1134816	47.06	ug/mL	93
6) DFTPP	11.404	442	1326743	34.91	ug/mL	90
7) Benzidine	12.558	184	4304187	25.70	ug/mL	97
8) 4,4-DDE	12.808	TIC	375170	No Calib		
9) 4,4-DDD	13.310	TIC	188617	No Calib		
10) 4,4-DDT	13.869	TIC	15944082	33.03	ug/mL	98

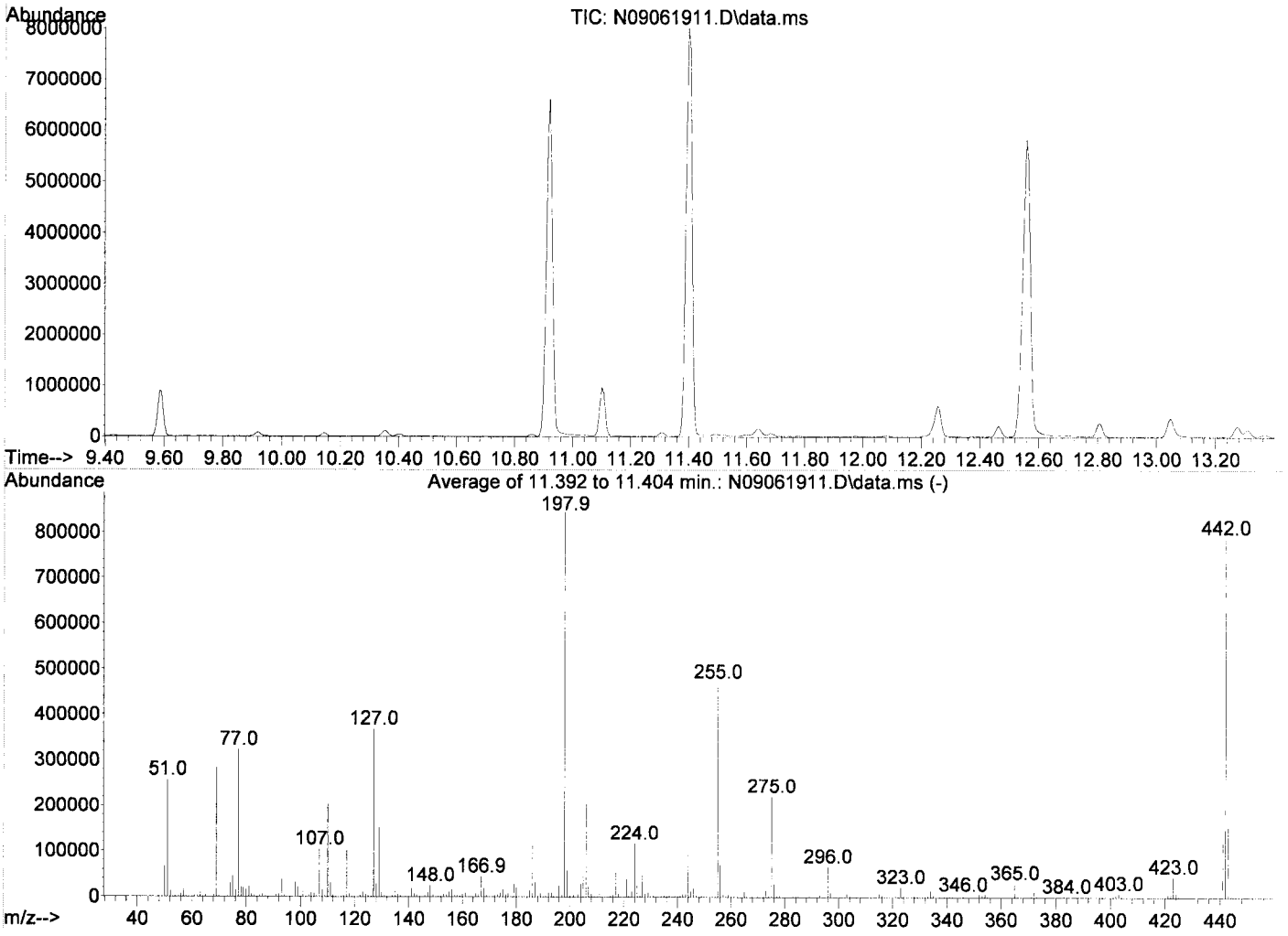
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : N:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Thu Sep 05 08:50:46 2019

9/2 9/9/19



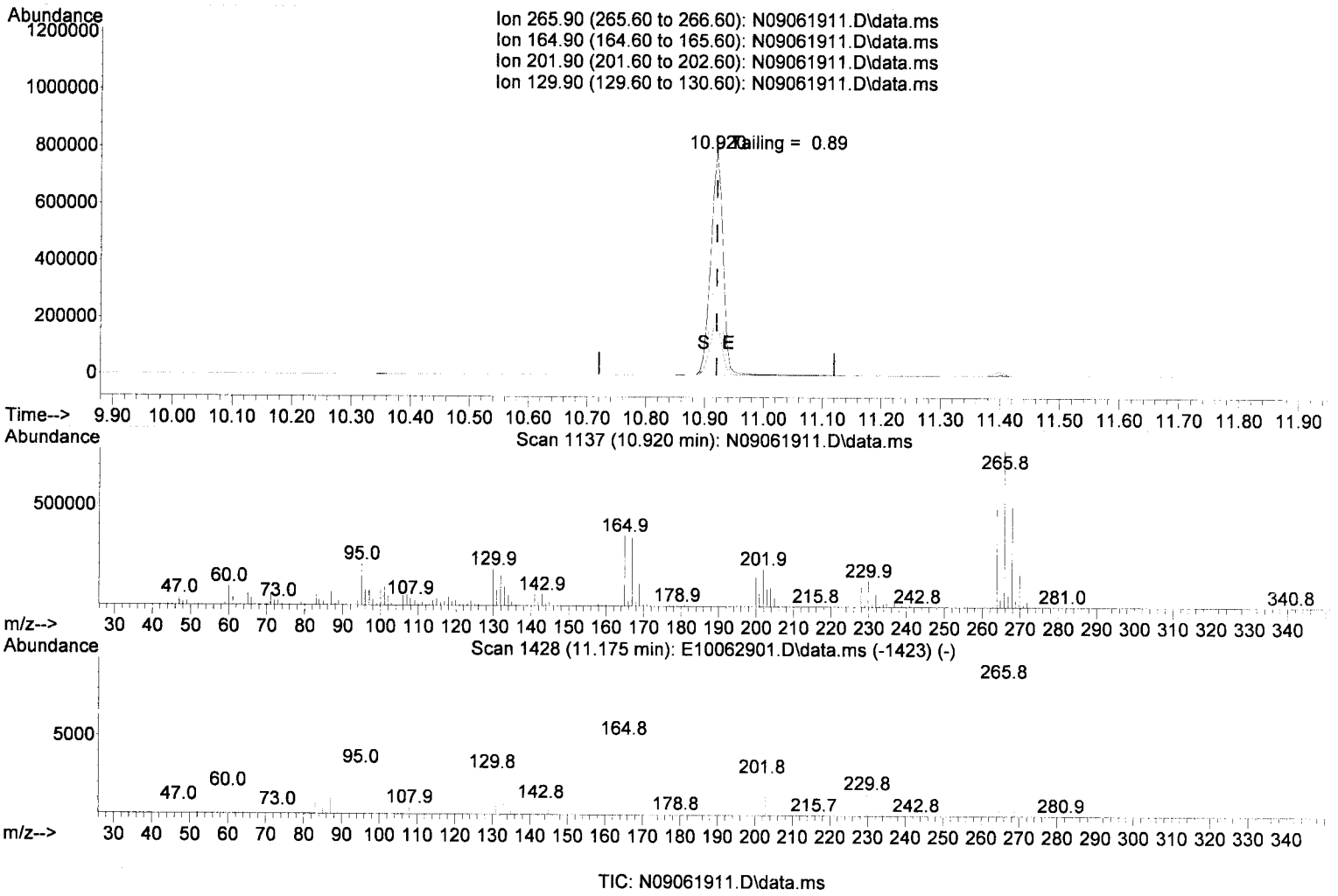
AutoFind: Scans 1218, 1219, 1220; Background Corrected with Scan 1212

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	4348	PASS
69	69	100	100	100.0	283608	PASS
70	69	0.00	2	0.5	1319	PASS
197	198	0.00	2	0.5	4054	PASS
198	198	100	100	100.0	845182	PASS
199	198	5	9	6.9	57976	PASS
365	198	1	100	3.6	30576	PASS
441	443	0.01	150	78.0	120320	PASS
442	198	0.10	200	93.1	787179	PASS
443	442	15	24	19.6	154213	PASS

Quantitation Report (Qedit)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
Quant Method : N:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Sep 05 08:50:46 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N09061911.D\data.ms

(4) Pentachlorophenol

10.920min (+ 0.000) 47.06 ug/mL

response 1134816

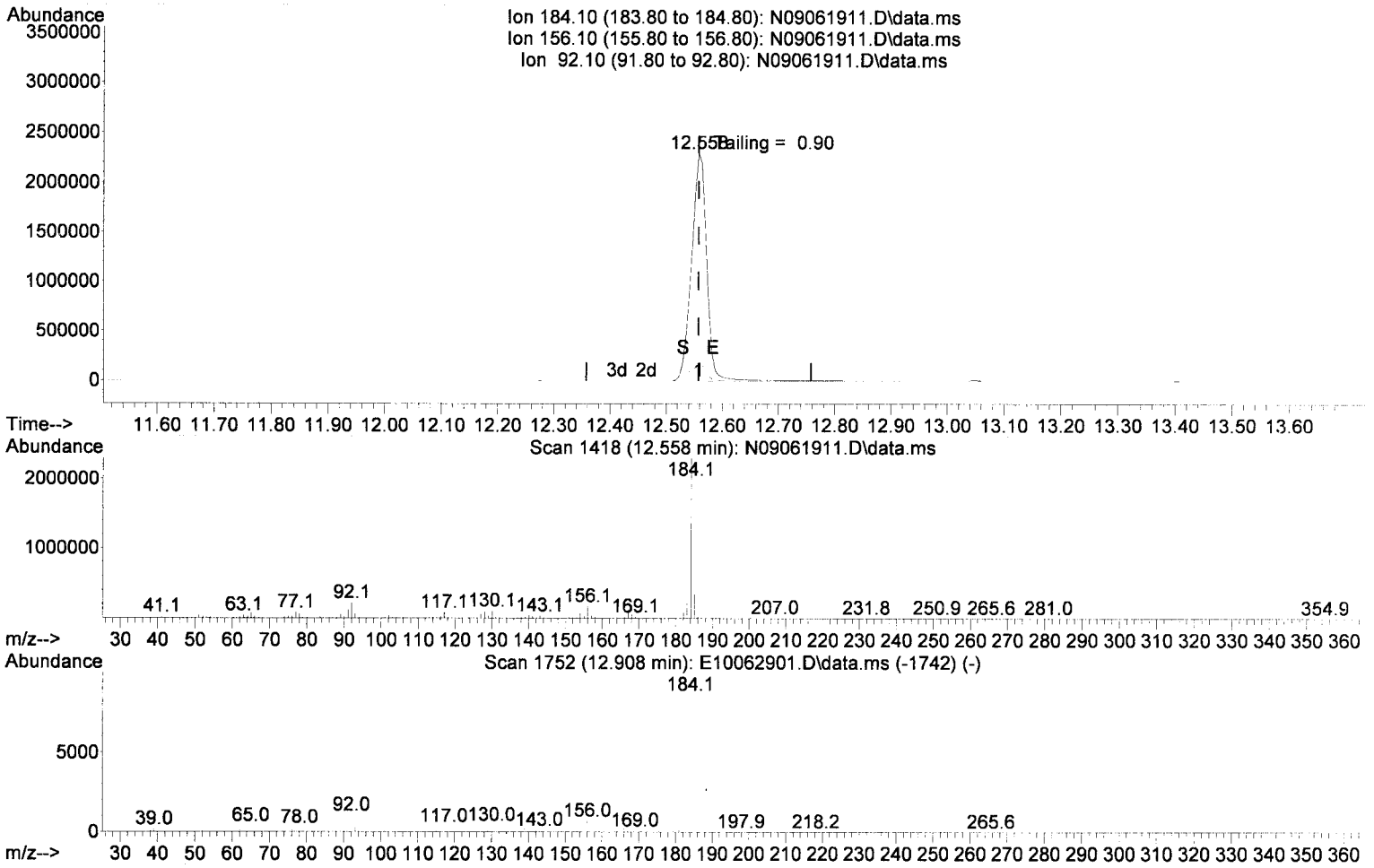
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	44.95
201.90	25.80	23.85
129.90	27.30	23.19

9/9/19

Quantitation Report (Qedit)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
Quant Method : N:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Sep 05 08:50:46 2019
Response via : Initial Calibration
InstName : SV-GCMS14



TIC: N09061911.D\data.ms

(7) Benzidine

12.558min (+ 0.000) 25.70 ug/mL

response 4304187

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.39
92.10	8.20	9.56
0.00	0.00	0.00

9/9/19

DDT Breakdown Check (Validated 5/1/2013)

From:
9I06028-TUN1
SV-GCMS14

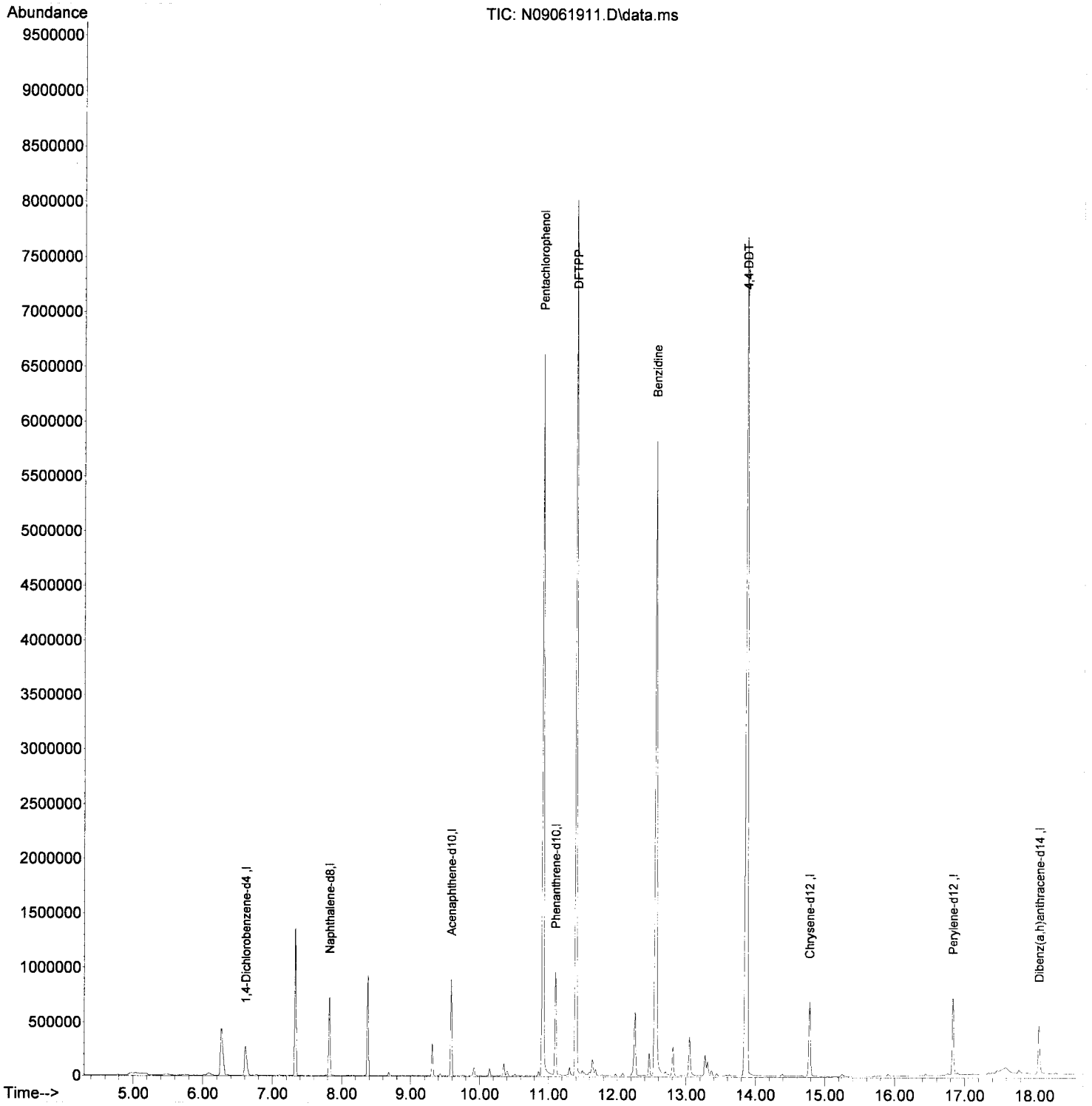
First Column	Area Counts	Percent Breakdown	
DDE	375170		
DDD	188617		
DDT	15944082	**3.42**	**PASS**

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
Quant Method : N:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Sep 05 08:50:46 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061912.D
Acq On : 06 Sep 2019 04:18 pm
Operator :
Sample : 9I06028-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:43 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

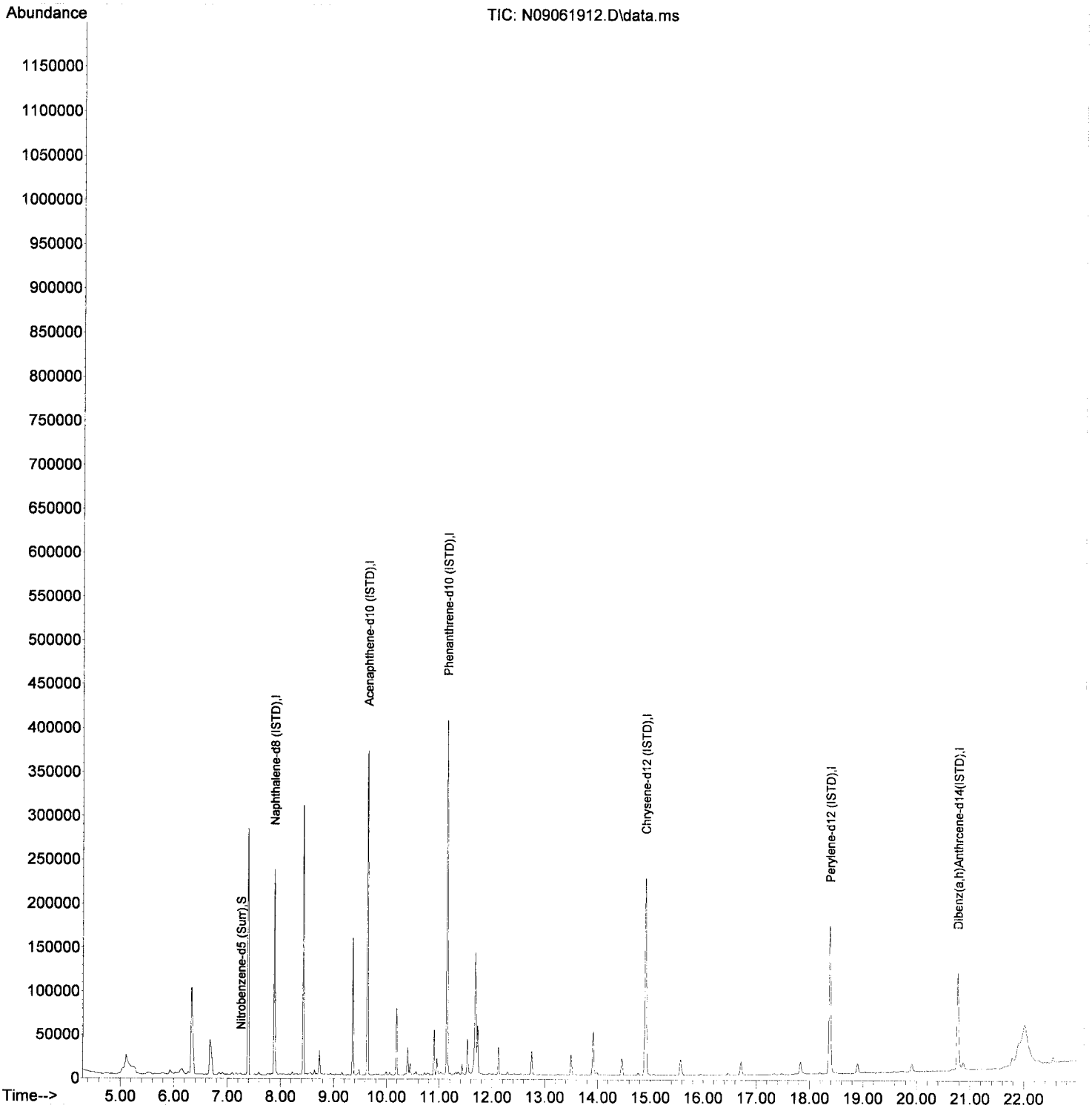
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	156122	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.381	264	131660	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.765	292	95634	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.254	82	241	0.47	ng/ml	0.07
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.486	160	3573	0.17	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	228	0.14	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.907	128	157	N.D.		
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	0.000		0	N.D.		
7) 1,1'-Biphenyl	0.000		0	N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
12) Acenaphthylene	9.498	152	86	N.D.		
13) Acenaphthene	0.000		0	N.D.		
14) Dibenzofuran	0.000		0	N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
16) Fluorene	0.000		0	N.D.		
18) Dibenzothiopene	11.042	184	87	N.D.		
19) Phenanthrene	11.171	178	288	N.D.		
20) Anthracene	11.223	178	75	N.D.		
21) Carbazole	11.380	167	333	No Calib		
22) 1-Methylphenanthrene	11.800	192	131	N.D.		
23) Fluoranthene	12.435	202	251	N.D.		
25) Pyrene	12.727	202	195	N.D.		
27) Benz(a)anthracene	14.901	228	646	N.D.		
28) Chrysene	14.965	228	290	N.D.		
30) Benzo(b)fluoranthene	17.466	252	208	N.D.		
31) Benzo(k)fluoranthene	17.524	252	168	N.D.		
32) Benzo(b+k)fluoranthene	17.524	252	168	N.D.		
34) Benzo(e)pyrene	18.113	252	178	N.D.		
35) Benzo(a)pyrene	0.000		0	N.D.		
36) Perylene	18.439	252	178	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.770	276	158	N.D.		
39) Dibenz(a,h)anthracene	20.834	278	121	N.D.		
40) Benzo(g,h,i)perylene	21.301	276	89	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061912.D
Acq On : 06 Sep 2019 04:18 pm
Operator :
Sample : 9I06028-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:43 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061912.D
Acq On : 06 Sep 2019 04:18 pm
Operator :
Sample : 9I06028-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Final Reagent

Quant Time: Sep 10 10:28:34 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/10/19

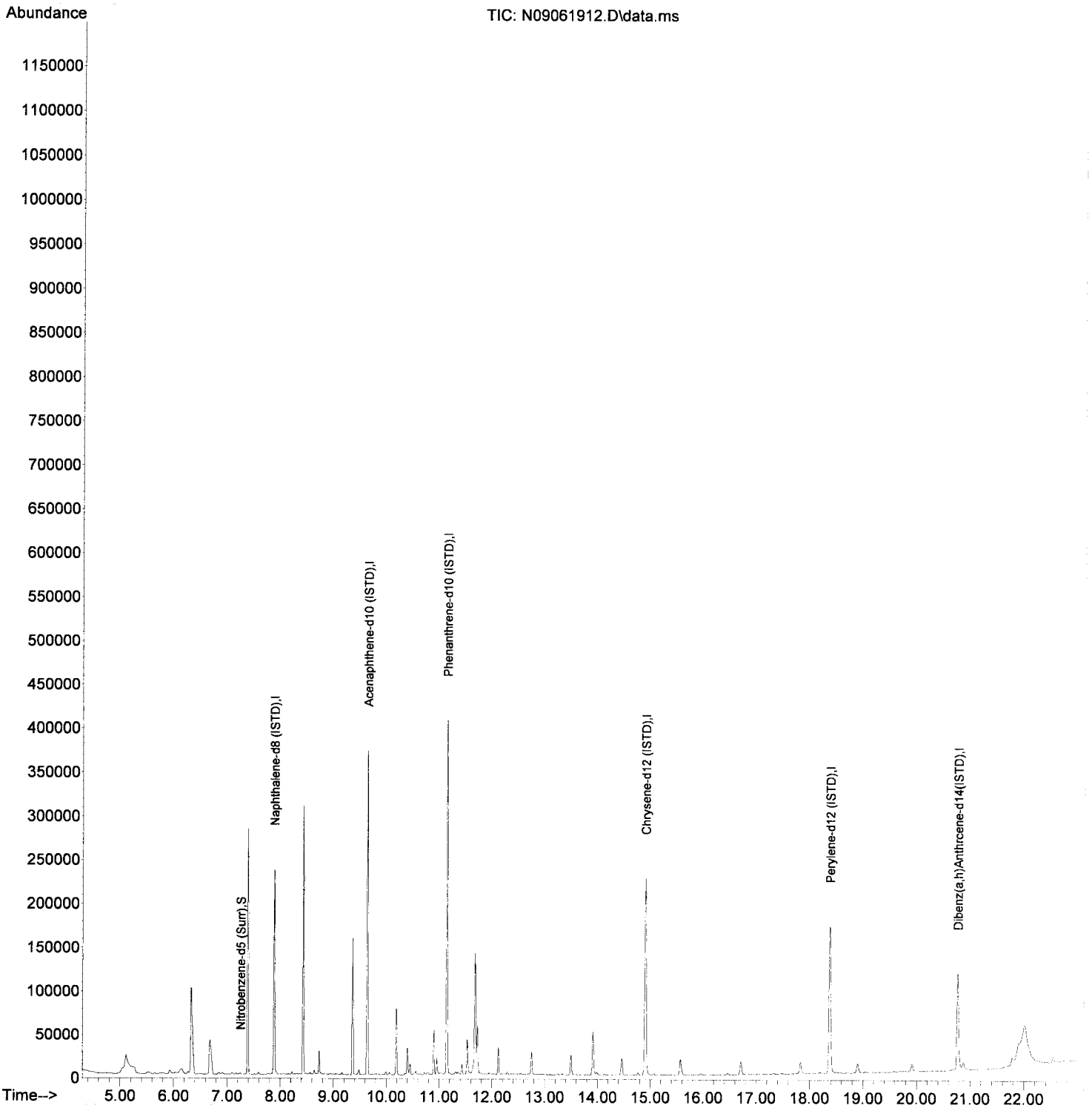
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	156122	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.381	264	131660	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.765	292	95634	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.254	82	241	0.47	ng/ml	0.07
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.486	160	3573	0.17	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	228	0.14	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.907	128	157	N.D.		
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	0.000		0	N.D.		
7) 1,1'-Biphenyl	0.000		0	N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
12) Acenaphthylene	9.498	152	86	N.D.		
13) Acenaphthene	0.000		0	N.D.		
14) Dibenzofuran	0.000		0	N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
16) Fluorene	0.000		0	N.D.		
18) Dibenzothiopene	11.042	184	87	N.D.		
19) Phenanthrene	11.171	178	288	N.D.		
20) Anthracene	11.223	178	75	N.D.		
21) Carbazole	11.380	167	333	N.D.		
22) 1-Methylphenanthrene	11.800	192	131	N.D.		
23) Fluoranthene	12.435	202	251	N.D.		
25) Pyrene	12.727	202	195	N.D.		
27) Benz(a)anthracene	14.901	228	646	N.D.		
28) Chrysene	14.965	228	290	N.D.		
30) Benzo(b)fluoranthene	17.466	252	208	N.D.		
31) Benzo(k)fluoranthene	17.524	252	168	N.D.		
32) Benzo(b+k)fluoranthene	17.524	252	168	N.D.		
34) Benzo(e)pyrene	18.113	252	178	N.D.		
35) Benzo(a)pyrene	0.000		0	N.D.		
36) Perylene	18.439	252	178	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.770	276	158	N.D.		
39) Dibenz(a,h)anthracene	20.834	278	121	N.D.		
40) Benzo(g,h,i)perylene	21.301	276	89	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061912.D
Acq On : 06 Sep 2019 04:18 pm
Operator :
Sample : 9I06028-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 10 10:28:34 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061913.D
Acq On : 06 Sep 2019 04:51 pm
Operator :
Sample : 9I06028-CAL1
Misc : 1x, A19I015@1
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:51 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

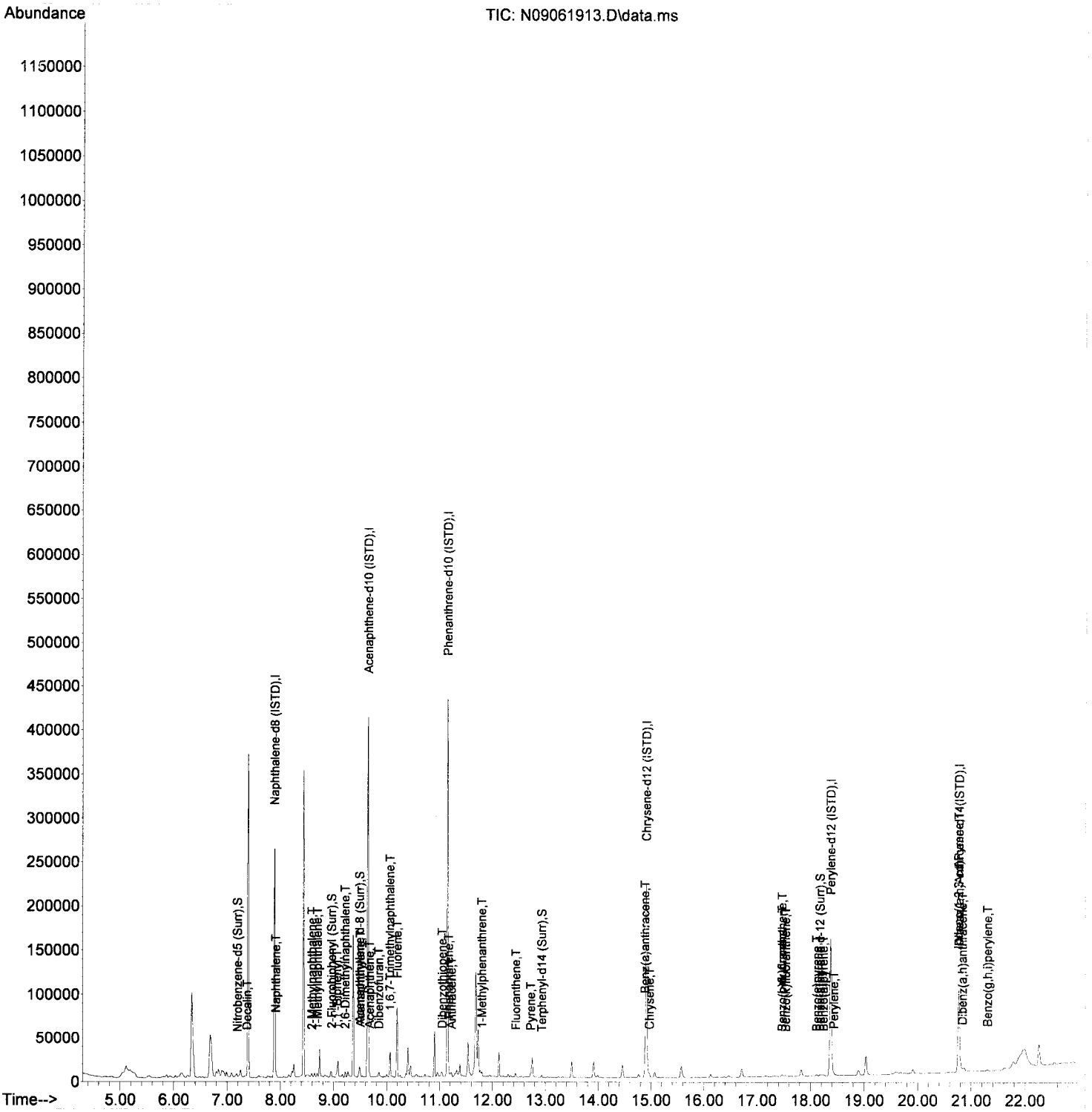
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	173610	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	119749	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	214815	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	149008	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	120943	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.764	292	80323	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.189	82	679	1.18	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.956	172	1705	0.95	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.486	160	5840	0.98	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	1714	1.09	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.176	264	773	0.80	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.364	138	87	0.67	ng/ml#	38
4) Naphthalene	7.906	128	2011	1.05	ng/ml	99
5) 2-Methylnaphthalene	8.588	142	1551	0.96	ng/ml	94
6) 1-Methylnaphthalene	8.687	142	1426	0.88	ng/ml	100
7) 1,1'-Biphenyl	9.055	154	2122	0.97	ng/ml	93
8) 2,6-Dimethylnaphthalene	9.212	156	1429	0.90	ng/ml	93
12) Acenaphthylene	9.498	152	2455	0.94	ng/ml	98
13) Acenaphthene	9.672	153	1723	1.01	ng/ml	97
14) Dibenzofuran	9.847	168	2108	0.99	ng/ml	91
15) 1,6,7-Trimethylnaphtha...	10.057	170	1496	1.05	ng/ml	75
16) Fluorene	10.197	166	1639	0.94	ng/ml	98
18) Dibenzothiopene	11.042	184	2213	0.99	ng/ml	95
19) Phenanthrene	11.170	178	2765	1.10	ng/ml	99
20) Anthracene	11.223	178	2357	1.01	ng/ml	97
21) Carbazole	11.380	167	1874	No Calib		
22) 1-Methylphenanthrene	11.794	192	1725	0.99	ng/ml	92
23) Fluoranthene	12.435	202	2565	1.01	ng/ml	98
25) Pyrene	12.721	202	2435	1.05	ng/ml	96
27) Benz(a)anthracene	14.883	228	2077	1.20	ng/ml	98
28) Chrysene	14.965	228	1690	1.03	ng/ml	96
30) Benzo(b)fluoranthene	17.465	252	1351	0.97	ng/ml	95
31) Benzo(k)fluoranthene	17.529	252	1291	0.94	ng/ml	96
32) Benzo(b+k)fluoranthene	17.465	252	2690	0.94	ng/ml	97
34) Benzo(e)pyrene	18.112	252	1505	1.07	ng/ml	94
35) Benzo(a)pyrene	18.235	252	1189	1.00	ng/ml	99
36) Perylene	18.433	252	1255	0.85	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.759	276	970	0.98	ng/ml	74
39) Dibenz(a,h)anthracene	20.828	278	942	1.01	ng/ml	86
40) Benzo(g,h,i)perylene	21.295	276	1000	0.95	ng/ml	93

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061913.D
Acq On : 06 Sep 2019 04:51 pm
Operator :
Sample : 9I06028-CAL1
Misc : 1x, A19I015@1
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:51 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061914.D
Acq On : 06 Sep 2019 05:23 pm
Operator :
Sample : 9I06028-CAL2
Misc : 1x, A19I016@2.5
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:55 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

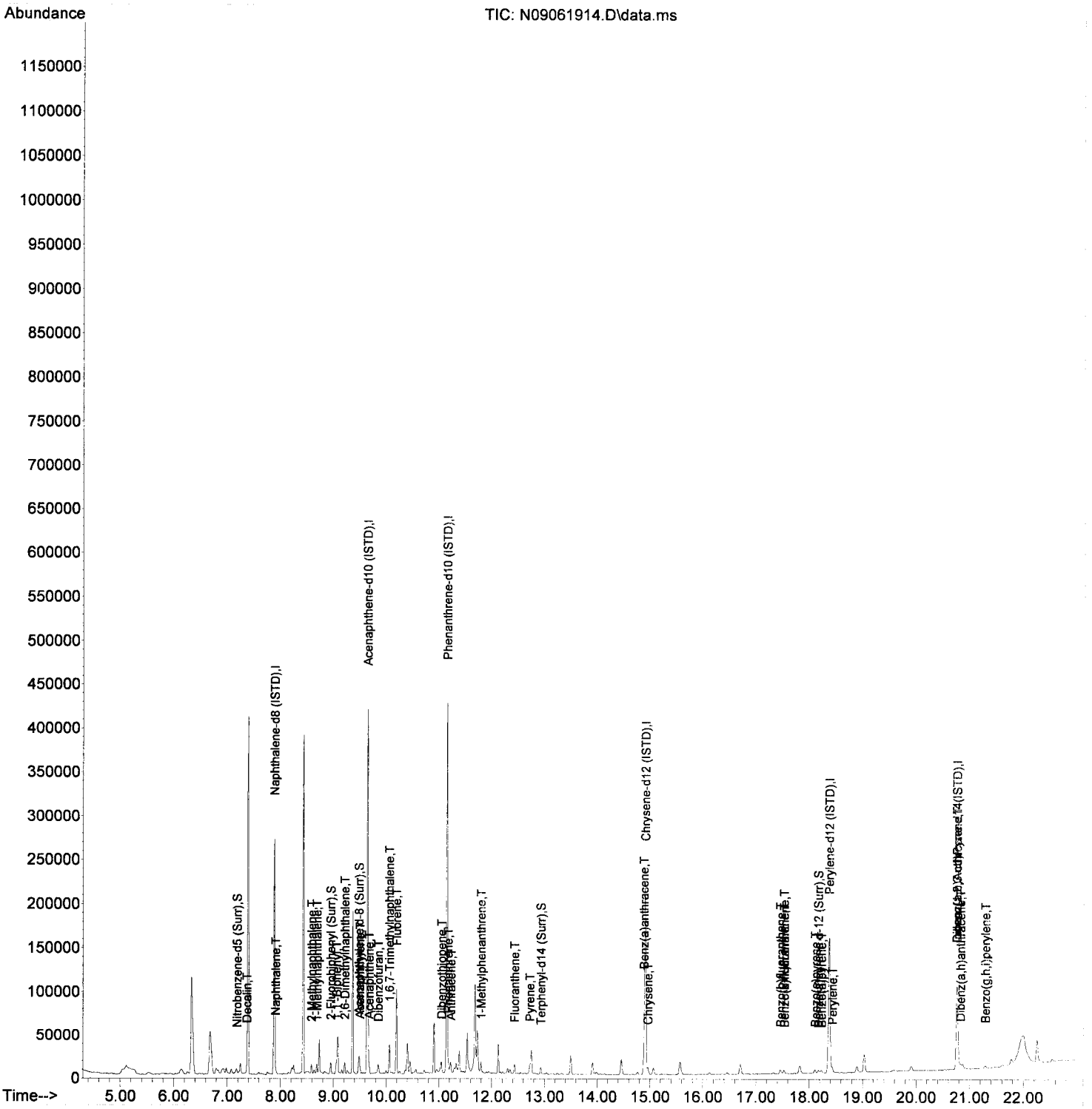
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	170471	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	119278	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	215482	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	151986	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	123595	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.759	292	82584	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	1447	2.55	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	4658	2.62	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	9843	2.67	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	4151	2.60	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.171	264	2322	2.35	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.364	138	323	2.54	ng/ml	87
4) Naphthalene	7.906	128	4837	2.57	ng/ml	98
5) 2-Methylnaphthalene	8.588	142	3865	2.43	ng/ml	96
6) 1-Methylnaphthalene	8.688	142	3730	2.34	ng/ml	97
7) 1,1'-Biphenyl	9.055	154	5118	2.39	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.212	156	3622	2.31	ng/ml	97
12) Acenaphthylene	9.498	152	6483	2.50	ng/ml	98
13) Acenaphthene	9.673	153	4435	2.61	ng/ml	96
14) Dibenzofuran	9.847	168	5286	2.49	ng/ml	95
15) 1,6,7-Trimethylnaphtha...	10.057	170	3598	2.53	ng/ml	87
16) Fluorene	10.191	166	4189	2.41	ng/ml	94
18) Dibenzothiopene	11.042	184	5817	2.58	ng/ml	97
19) Phenanthrene	11.171	178	6430	2.55	ng/ml	99
20) Anthracene	11.223	178	5868	2.50	ng/ml	98
21) Carbazole	11.380	167	4473	No Calib		
22) 1-Methylphenanthrene	11.794	192	4331	2.47	ng/ml	98
23) Fluoranthene	12.429	202	6070	2.39	ng/ml	95
25) Pyrene	12.721	202	6620	2.79	ng/ml	98
27) Benz(a)anthracene	14.883	228	4639	2.63	ng/ml	97
28) Chrysene	14.959	228	4207	2.52	ng/ml	99
30) Benzo(b)fluoranthene	17.460	252	3353	2.35	ng/ml	96
31) Benzo(k)fluoranthene	17.530	252	3343	2.38	ng/ml	93
32) Benzo(b+k)fluoranthene	17.530	252	6909	2.37	ng/ml	93
34) Benzo(e)pyrene	18.112	252	3623	2.51	ng/ml	97
35) Benzo(a)pyrene	18.229	252	2658	2.18	ng/ml	100
36) Perylene	18.433	252	3787	2.52	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.759	276	2642	2.59	ng/ml	100
39) Dibenz(a,h)anthracene	20.823	278	2361	2.47	ng/ml	87
40) Benzo(g,h,i)perylene	21.289	276	2446	2.26	ng/ml	97

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061914.D
Acq On : 06 Sep 2019 05:23 pm
Operator :
Sample : 9I06028-CAL2
Misc : 1x, A19I016@2.5
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:55 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061915.D
Acq On : 06 Sep 2019 05:55 pm
Operator :
Sample : 9I06028-CAL3
Misc : 1x, A19I017@5
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:00 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

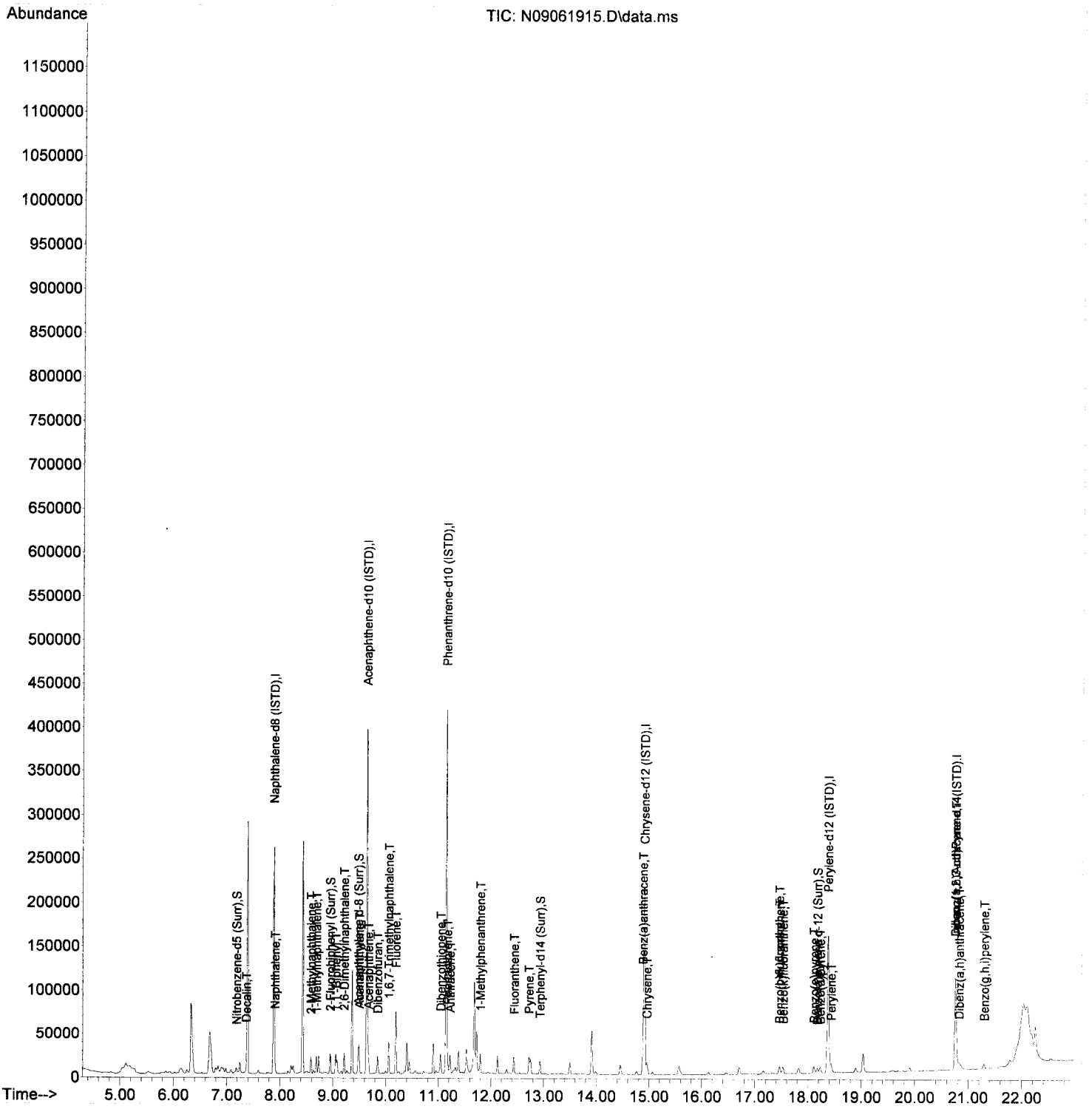
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	165670	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	115422	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	210311	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	150233	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	124460	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.759	292	83358	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	2621	4.76	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	8548	4.96	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	14409	4.79	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	7787	4.93	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.177	264	4638	4.66	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.364	138	582	4.72	ng/ml	91
4) Naphthalene	7.906	128	9092	4.98	ng/ml	99
5) 2-Methylnaphthalene	8.588	142	7294	4.71	ng/ml	97
6) 1-Methylnaphthalene	8.688	142	6937	4.48	ng/ml	96
7) 1,1'-Biphenyl	9.055	154	9300	4.47	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.212	156	6755	4.44	ng/ml	99
12) Acenaphthylene	9.498	152	12342	4.93	ng/ml	99
13) Acenaphthene	9.673	153	8103	4.94	ng/ml	98
14) Dibenzofuran	9.847	168	10021	4.87	ng/ml	99
15) 1,6,7-Trimethylnaphtha...	10.057	170	6769	4.92	ng/ml	98
16) Fluorene	10.191	166	8130	4.84	ng/ml	99
18) Dibenzothiopene	11.042	184	11105	5.05	ng/ml	97
19) Phenanthrene	11.171	178	11957	4.86	ng/ml	98
20) Anthracene	11.223	178	11026	4.82	ng/ml	99
21) Carbazole	11.380	167	8513	No Calib		
22) 1-Methylphenanthrene	11.794	192	8212	4.80	ng/ml	99
23) Fluoranthene	12.435	202	11610	4.68	ng/ml	98
25) Pyrene	12.721	202	11908	5.07	ng/ml	100
27) Benz(a)anthracene	14.883	228	8173	4.69	ng/ml	96
28) Chrysene	14.959	228	8164	4.95	ng/ml	96
30) Benzo(b)fluoranthene	17.460	252	6625	4.61	ng/ml	95
31) Benzo(k)fluoranthene	17.530	252	6760	4.78	ng/ml	96
32) Benzo(b+k)fluoranthene	17.460	252	13896	4.73	ng/ml	93
34) Benzo(e)pyrene	18.112	252	6692	4.61	ng/ml	98
35) Benzo(a)pyrene	18.229	252	5344	4.35	ng/ml	99
36) Perylene	18.433	252	7462	4.93	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.759	276	4940	4.80	ng/ml	95
39) Dibenz(a,h)anthracene	20.829	278	4673	4.84	ng/ml	98
40) Benzo(g,h,i)perylene	21.295	276	5171	4.74	ng/ml	92

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061915.D
Acq On : 06 Sep 2019 05:55 pm
Operator :
Sample : 9I06028-CAL3
Misc : 1x, A19I017@5
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:00 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061916.D
Acq On : 06 Sep 2019 06:27 pm
Operator :
Sample : 9I06028-CAL4
Misc : 1x, A19I018@10
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:05 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

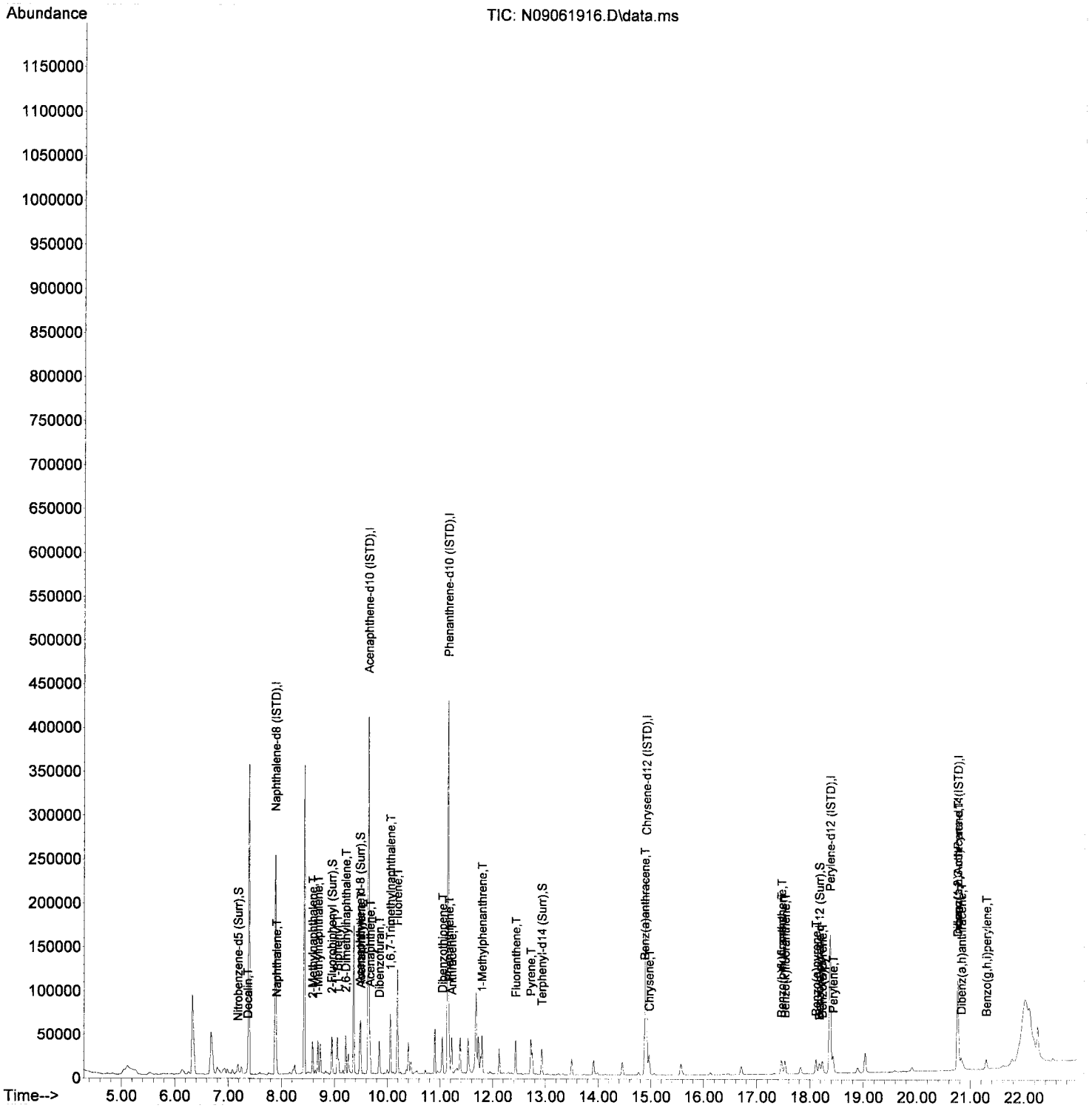
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	160906	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	118305	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	216396	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	153303	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	125859	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.759	292	82058	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	5073	9.49	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	17737	10.05	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	27001	9.97	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	16215	10.06	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.177	264	9551	9.49	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.365	138	1106	9.23	ng/ml	96
4) Naphthalene	7.907	128	18065	10.18	ng/ml	98
5) 2-Methylnaphthalene	8.589	142	14250	9.48	ng/ml	98
6) 1-Methylnaphthalene	8.688	142	14747	9.81	ng/ml	97
7) 1,1'-Biphenyl	9.055	154	19088	9.44	ng/ml	99
8) 2,6-Dimethylnaphthalene	9.212	156	13690	9.27	ng/ml	97
12) Acenaphthylene	9.498	152	25683	10.00	ng/ml	98
13) Acenaphthene	9.673	153	16768	9.97	ng/ml	99
14) Dibenzofuran	9.848	168	21062	10.00	ng/ml	97
15) 1,6,7-Trimethylnaphtha...	10.057	170	13937	9.88	ng/ml	99
16) Fluorene	10.191	166	16819	9.77	ng/ml	100
18) Dibenzothiopene	11.042	184	22465	9.93	ng/ml	98
19) Phenanthrene	11.171	178	25204	9.95	ng/ml	100
20) Anthracene	11.223	178	22988	9.76	ng/ml	100
21) Carbazole	11.380	167	17697	No Calib		
22) 1-Methylphenanthrene	11.794	192	17190	9.77	ng/ml	100
23) Fluoranthene	12.435	202	24321	9.53	ng/ml	98
25) Pyrene	12.721	202	25073	10.47	ng/ml	99
27) Benz(a)anthracene	14.883	228	16760	9.42	ng/ml	97
28) Chrysene	14.965	228	16658	9.89	ng/ml	99
30) Benzo(b)fluoranthene	17.466	252	13743	9.46	ng/ml	97
31) Benzo(k)fluoranthene	17.530	252	13038	9.12	ng/ml	95
32) Benzo(b+k)fluoranthene	17.466	252	28065	9.45	ng/ml	95
34) Benzo(e)pyrene	18.113	252	13726	9.35	ng/ml	98
35) Benzo(a)pyrene	18.229	252	11353	9.13	ng/ml	99
36) Perylene	18.433	252	14964	9.77	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.759	276	9774	9.66	ng/ml	91
39) Dibenz(a,h)anthracene	20.829	278	9159	9.63	ng/ml	90
40) Benzo(g,h,i)perylene	21.295	276	10267	9.56	ng/ml	92

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061916.D
Acq On : 06 Sep 2019 06:27 pm
Operator :
Sample : 9I06028-CAL4
Misc : 1x, A19I018@10
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:05 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061917.D
Acq On : 06 Sep 2019 07:00 pm
Operator :
Sample : 9I06028-CAL5
Misc : 1x, A19I019@25
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:10 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

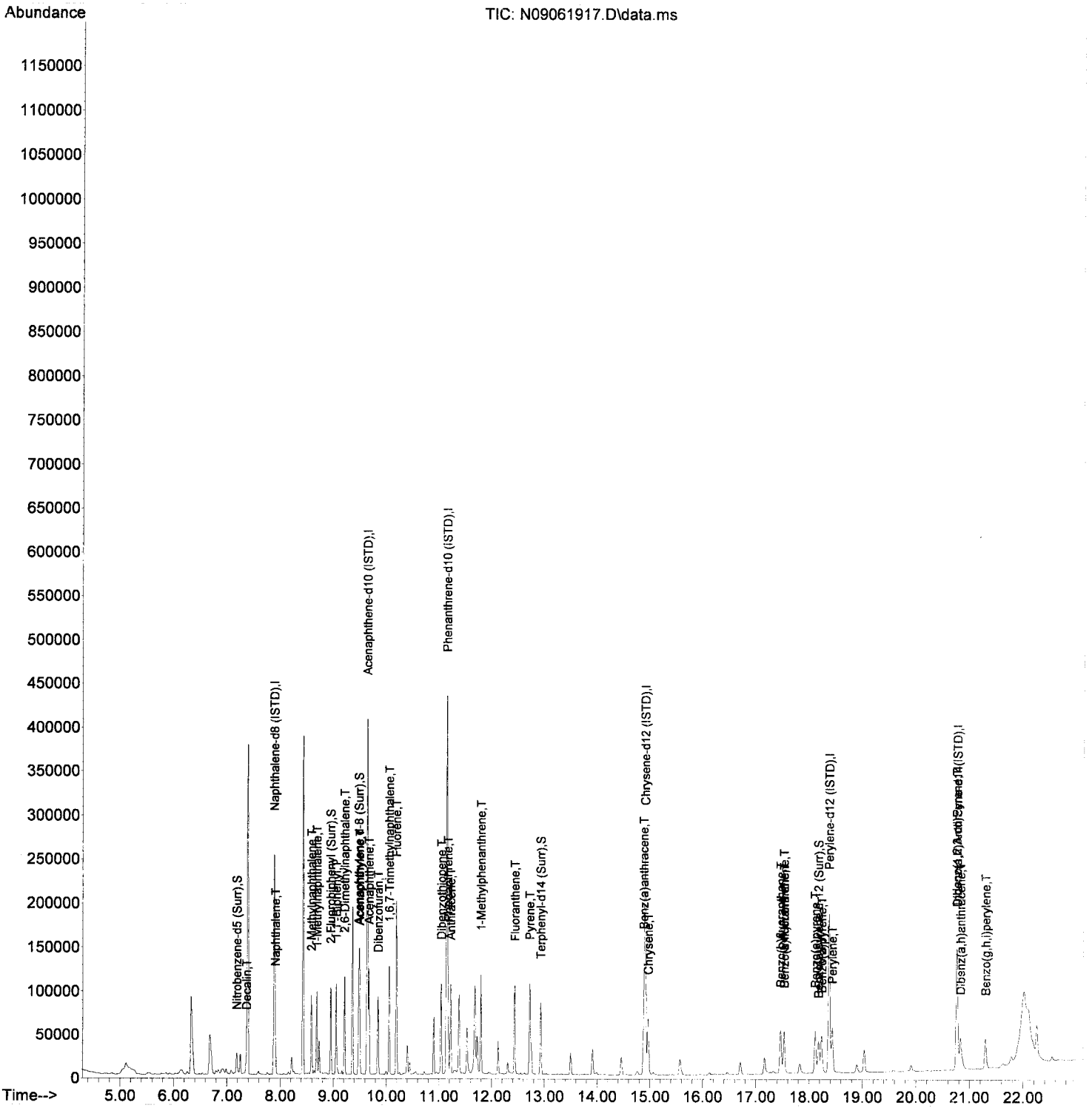
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	158689	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	118239	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	219818	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	167298	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	142122	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.765	292	96960	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	12124	22.99	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	44333	25.13	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	62320	24.95	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	44339	25.20	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.177	264	27791	24.45	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.365	138	2777	23.50	ng/ml	94
4) Naphthalene	7.907	128	43246	24.71	ng/ml	99
5) 2-Methylnaphthalene	8.589	142	35507	23.94	ng/ml	98
6) 1-Methylnaphthalene	8.688	142	36615	24.69	ng/ml	98
7) 1,1'-Biphenyl	9.055	154	47414	23.77	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.212	156	35377	24.28	ng/ml	98
12) Acenaphthylene	9.498	152	64887	25.28	ng/ml	98
13) Acenaphthene	9.673	153	41951	24.95	ng/ml	100
14) Dibenzofuran	9.848	168	52926	25.13	ng/ml	98
15) 1,6,7-Trimethylnaphtha...	10.057	170	34543	24.50	ng/ml	99
16) Fluorene	10.191	166	43186	25.10	ng/ml	99
18) Dibenzothiopene	11.042	184	56622	24.63	ng/ml	98
19) Phenanthrene	11.171	178	63419	24.66	ng/ml	100
20) Anthracene	11.223	178	58731	24.55	ng/ml	99
21) Carbazole	11.380	167	47604	No Calib		
22) 1-Methylphenanthrene	11.794	192	44094	24.68	ng/ml	99
23) Fluoranthene	12.435	202	63845	24.64	ng/ml	99
25) Pyrene	12.721	202	66093	25.29	ng/ml	99
27) Benz(a)anthracene	14.883	228	46578	23.98	ng/ml	99
28) Chrysene	14.965	228	45910	24.98	ng/ml	99
30) Benzo(b)fluoranthene	17.466	252	40093	24.45	ng/ml	97
31) Benzo(k)fluoranthene	17.530	252	40088	24.83	ng/ml	98
32) Benzo(b+k)fluoranthene	17.530	252	83294	24.83	ng/ml	98
34) Benzo(e)pyrene	18.113	252	40463	24.40	ng/ml	98
35) Benzo(a)pyrene	18.235	252	34709	24.73	ng/ml	99
36) Perylene	18.433	252	43783	25.33	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	28895	24.16	ng/ml	94
39) Dibenz(a,h)anthracene	20.829	278	27156	24.16	ng/ml	92
40) Benzo(g,h,i)perylene	21.295	276	31234	24.62	ng/ml	92

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061917.D
Acq On : 06 Sep 2019 07:00 pm
Operator :
Sample : 9I06028-CAL5
Misc : 1x, A19I019@25
ALS Vial : 7 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:10 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061918.D
Acq On : 06 Sep 2019 07:32 pm
Operator :
Sample : 9I06028-CAL6
Misc : 1x, A19I020@50
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:15 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

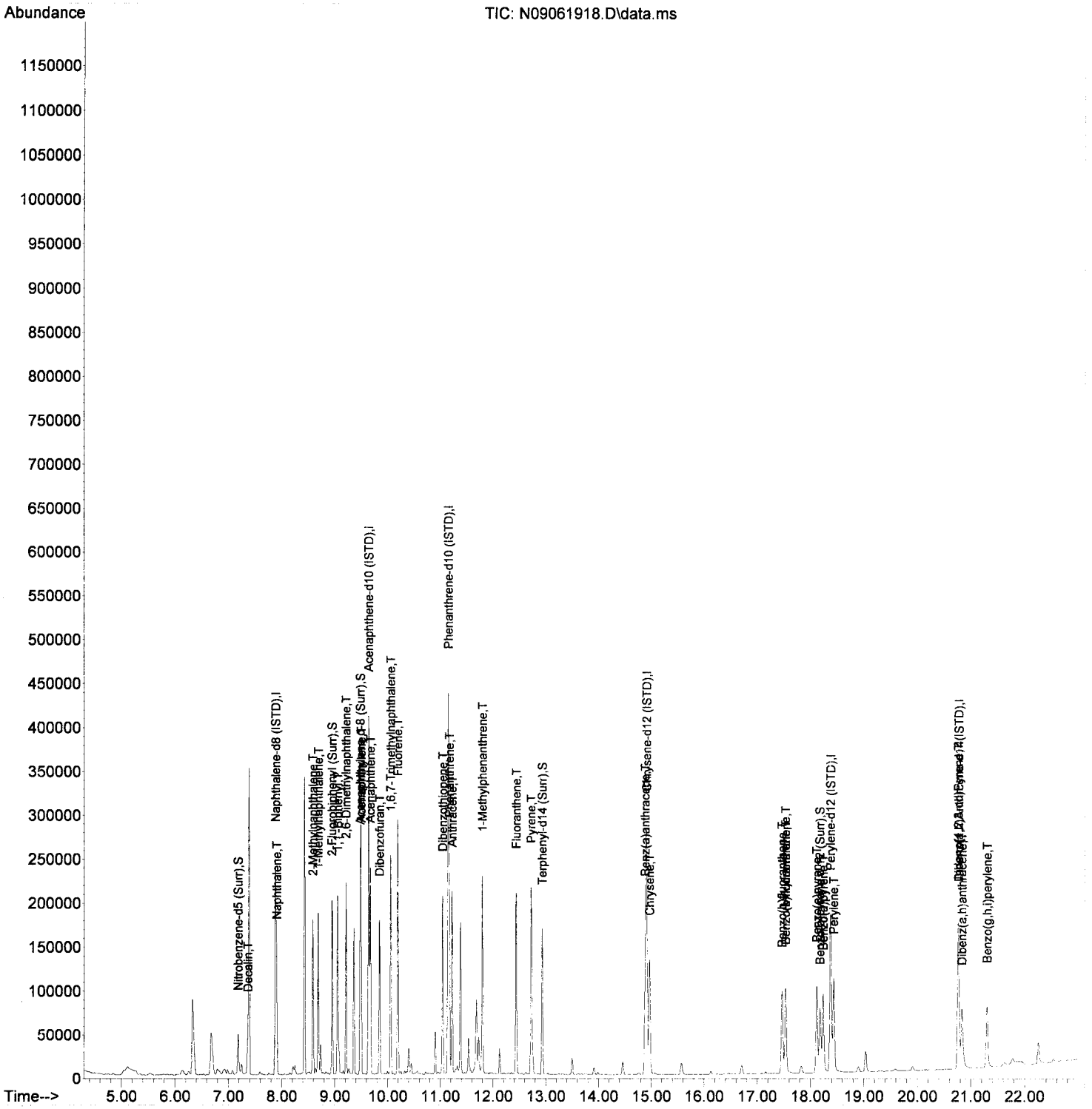
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	148351	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	117951	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	219661	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	169841	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.375	264	142416	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.765	292	93265	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	23996	48.68	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	87417	49.68	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	119179	49.18	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	88785	49.70	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.177	264	57544	50.53	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.364	138	5568	50.41	ng/ml	97
4) Naphthalene	7.907	128	80326	49.09	ng/ml	99
5) 2-Methylnaphthalene	8.589	142	69811	50.35	ng/ml	98
6) 1-Methylnaphthalene	8.688	142	71477	51.56	ng/ml	97
7) 1,1'-Biphenyl	9.055	154	93359	50.06	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.212	156	69912	51.34	ng/ml	97
12) Acenaphthylene	9.498	152	128075	50.02	ng/ml	99
13) Acenaphthene	9.673	153	82212	49.02	ng/ml	100
14) Dibenzofuran	9.848	168	104783	49.88	ng/ml	98
15) 1,6,7-Trimethylnaphtha...	10.057	170	68907	48.99	ng/ml	99
16) Fluorene	10.191	166	85319	49.71	ng/ml	100
18) Dibenzothiopene	11.042	184	113451	49.38	ng/ml	98
19) Phenanthrene	11.171	178	126501	49.21	ng/ml	100
20) Anthracene	11.223	178	118187	49.43	ng/ml	99
21) Carbazole	11.380	167	95634	No Calib		
22) 1-Methylphenanthrene	11.794	192	88417	49.52	ng/ml	99
23) Fluoranthene	12.435	202	128587	49.65	ng/ml	99
25) Pyrene	12.721	202	133393	50.27	ng/ml	100
27) Benz(a)anthracene	14.883	228	93207	47.27	ng/ml	100
28) Chrysene	14.965	228	91866	49.23	ng/ml	99
30) Benzo(b)fluoranthene	17.466	252	82867	50.43	ng/ml	98
31) Benzo(k)fluoranthene	17.530	252	79638	49.22	ng/ml	97
32) Benzo(b+k)fluoranthene	17.530	252	167848	49.93	ng/ml	97
34) Benzo(e)pyrene	18.118	252	81957	49.32	ng/ml	99
35) Benzo(a)pyrene	18.235	252	71520	50.85	ng/ml	98
36) Perylene	18.433	252	86757	50.08	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	57046	49.59	ng/ml	90
39) Dibenz(a,h)anthracene	20.829	278	53335	49.34	ng/ml	90
40) Benzo(g,h,i)perylene	21.295	276	61905	50.73	ng/ml	90

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061918.D
Acq On : 06 Sep 2019 07:32 pm
Operator :
Sample : 9I06028-CAL6
Misc : 1x, A19I020@50
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:15 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061919.D
Acq On : 06 Sep 2019 08:04 pm
Operator :
Sample : 9I06028-CAL7
Misc : 1x, A19I021@100
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:19 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

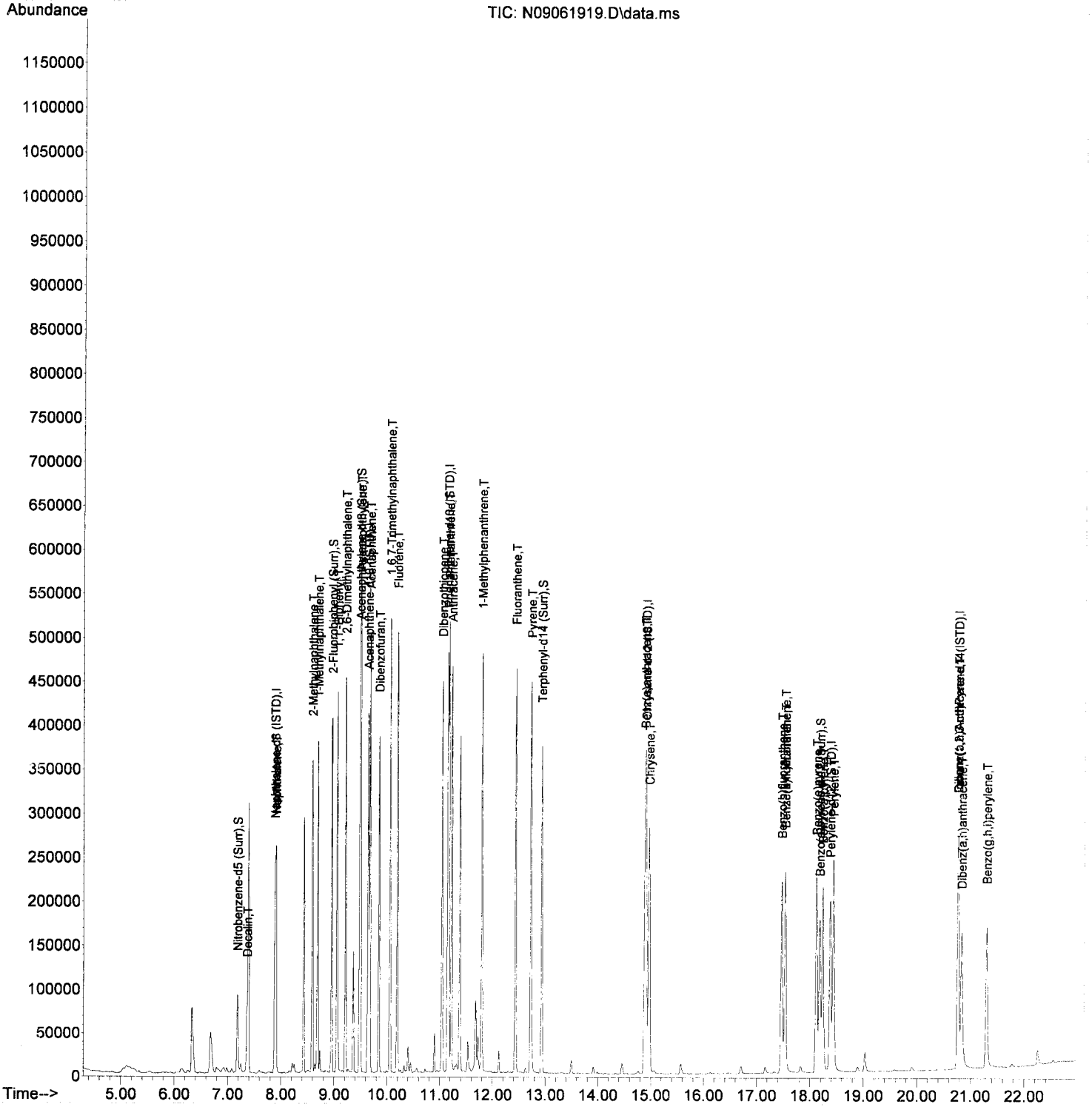
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	148917	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	121411	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	233582	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.907	240	187274	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.381	264	159070	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.764	292	103600	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	48056	97.11	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.956	172	182001	100.48	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	248072	101.01	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	196418	99.72	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.182	264	134446	105.69	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.364	138	11430	103.09	ng/ml	94
4) Naphthalene	7.906	128	161201	98.15	ng/ml	100
5) 2-Methylnaphthalene	8.588	142	143766	103.29	ng/ml	99
6) 1-Methylnaphthalene	8.687	142	146804	105.50	ng/ml	98
7) 1,1'-Biphenyl	9.055	154	197491	105.50	ng/ml	99
8) 2,6-Dimethylnaphthalene	9.212	156	148070	108.31	ng/ml	97
12) Acenaphthylene	9.498	152	272913	103.54	ng/ml	99
13) Acenaphthene	9.672	153	175245	101.51	ng/ml	100
14) Dibenzofuran	9.847	168	222327	102.81	ng/ml	98
15) 1,6,7-Trimethylnaphtha...	10.057	170	147218	101.68	ng/ml	100
16) Fluorene	10.191	166	185216	104.84	ng/ml	99
18) Dibenzothiopene	11.042	184	245278	100.40	ng/ml	98
19) Phenanthrene	11.170	178	270427	98.94	ng/ml	100
20) Anthracene	11.223	178	259236	101.96	ng/ml	99
21) Carbazole	11.380	167	211369	No Calib		
22) 1-Methylphenanthrene	11.794	192	192550	101.41	ng/ml	98
23) Fluoranthene	12.435	202	280652	101.91	ng/ml	99
25) Pyrene	12.727	202	292089	99.83	ng/ml	99
27) Benz(a)anthracene	14.889	228	213884	98.37	ng/ml	99
28) Chrysene	14.971	228	205074	99.67	ng/ml	99
30) Benzo(b)fluoranthene	17.471	252	189979	103.50	ng/ml	97
31) Benzo(k)fluoranthene	17.535	252	190175	105.23	ng/ml	97
32) Benzo(b+k)fluoranthene	17.535	252	390913	104.11	ng/ml	97
34) Benzo(e)pyrene	18.124	252	188367	101.49	ng/ml	98
35) Benzo(a)pyrene	18.241	252	165951	105.63	ng/ml	99
36) Perylene	18.439	252	198533	102.60	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.764	276	130568	102.18	ng/ml	90
39) Dibenz(a,h)anthracene	20.834	278	122057	101.65	ng/ml	90
40) Benzo(g,h,i)perylene	21.301	276	143780	106.06	ng/ml	91

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061919.D
Acq On : 06 Sep 2019 08:04 pm
Operator :
Sample : 9I06028-CAL7
Misc : 1x, A19I021@100
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:19 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061920.D
Acq On : 06 Sep 2019 08:37 pm
Operator :
Sample : 9I06028-CAL8
Misc : 1x, A19I022@200
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:30 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

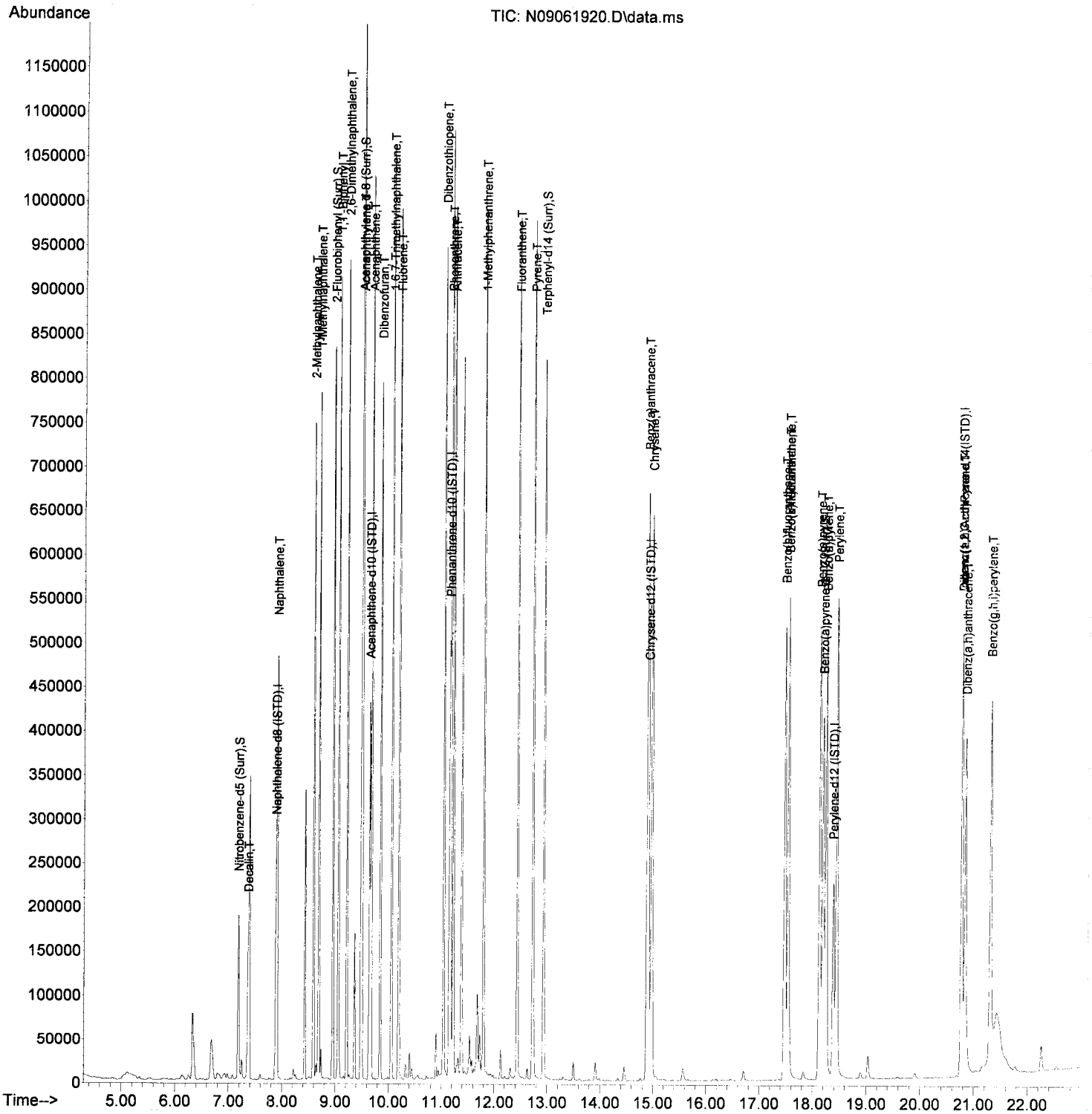
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	148783	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	126650	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	244292	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.913	240	211033	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.381	264	182214	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.770	292	126578	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	99288	200.83	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.956	172	378966	200.57	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.486	160	514554	202.58	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	430770	194.09	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.188	264	322602	221.39	ng/ml	0.01
Target Compounds						Qvalue
3) Decalin	7.364	138	22829	206.09	ng/ml	95
4) Naphthalene	7.907	128	324908	198.00	ng/ml	100
5) 2-Methylnaphthalene	8.588	142	297992	214.30	ng/ml	98
6) 1-Methylnaphthalene	8.688	142	304942	219.34	ng/ml	98
7) 1,1'-Biphenyl	9.055	154	413306	220.99	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.212	156	307564	225.18	ng/ml	99
12) Acenaphthylene	9.498	152	568160	206.64	ng/ml	99
13) Acenaphthene	9.673	153	362489	201.28	ng/ml	100
14) Dibenzofuran	9.848	168	462691	205.12	ng/ml	99
15) 1,6,7-Trimethylnaphtha...	10.057	170	307091	203.33	ng/ml	98
16) Fluorene	10.197	166	391380	212.38	ng/ml	99
18) Dibenzothiopene	11.042	184	515882	201.91	ng/ml	98
19) Phenanthrene	11.171	178	575793	201.42	ng/ml	100
20) Anthracene	11.223	178	544931	204.94	ng/ml	99
21) Carbazole	11.380	167	461912	No Calib		
22) 1-Methylphenanthrene	11.800	192	411489	207.21	ng/ml	99
23) Fluoranthene	12.435	202	599723	208.23	ng/ml	99
25) Pyrene	12.727	202	623857	189.22	ng/ml	100
27) Benz(a)anthracene	14.889	228	484834	197.88	ng/ml	99
28) Chrysene	14.971	228	465584	200.80	ng/ml	99
30) Benzo(b)fluoranthene	17.477	252	448476	213.30	ng/ml	96
31) Benzo(k)fluoranthene	17.541	252	445148	215.03	ng/ml	97
32) Benzo(b+k)fluoranthene	17.541	252	917698	213.36	ng/ml	97
34) Benzo(e)pyrene	18.130	252	441980	207.89	ng/ml	99
35) Benzo(a)pyrene	18.247	252	395245	219.63	ng/ml	98
36) Perylene	18.451	252	467343	210.85	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.770	276	319524	204.65	ng/ml	89
39) Dibenz(a,h)anthracene	20.840	278	302142	205.95	ng/ml	89
40) Benzo(g,h,i)perylene	21.307	276	353209	213.26	ng/ml	90

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061920.D
Acq On : 06 Sep 2019 08:37 pm
Operator :
Sample : 9I06028-CAL8
Misc : 1x, A19I022@200
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:30 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061921.D
Acq On : 06 Sep 2019 09:09 pm
Operator :
Sample : 9I06028-CAL9
Misc : 1x, A19I023@300
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:34 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/d 9/9/19

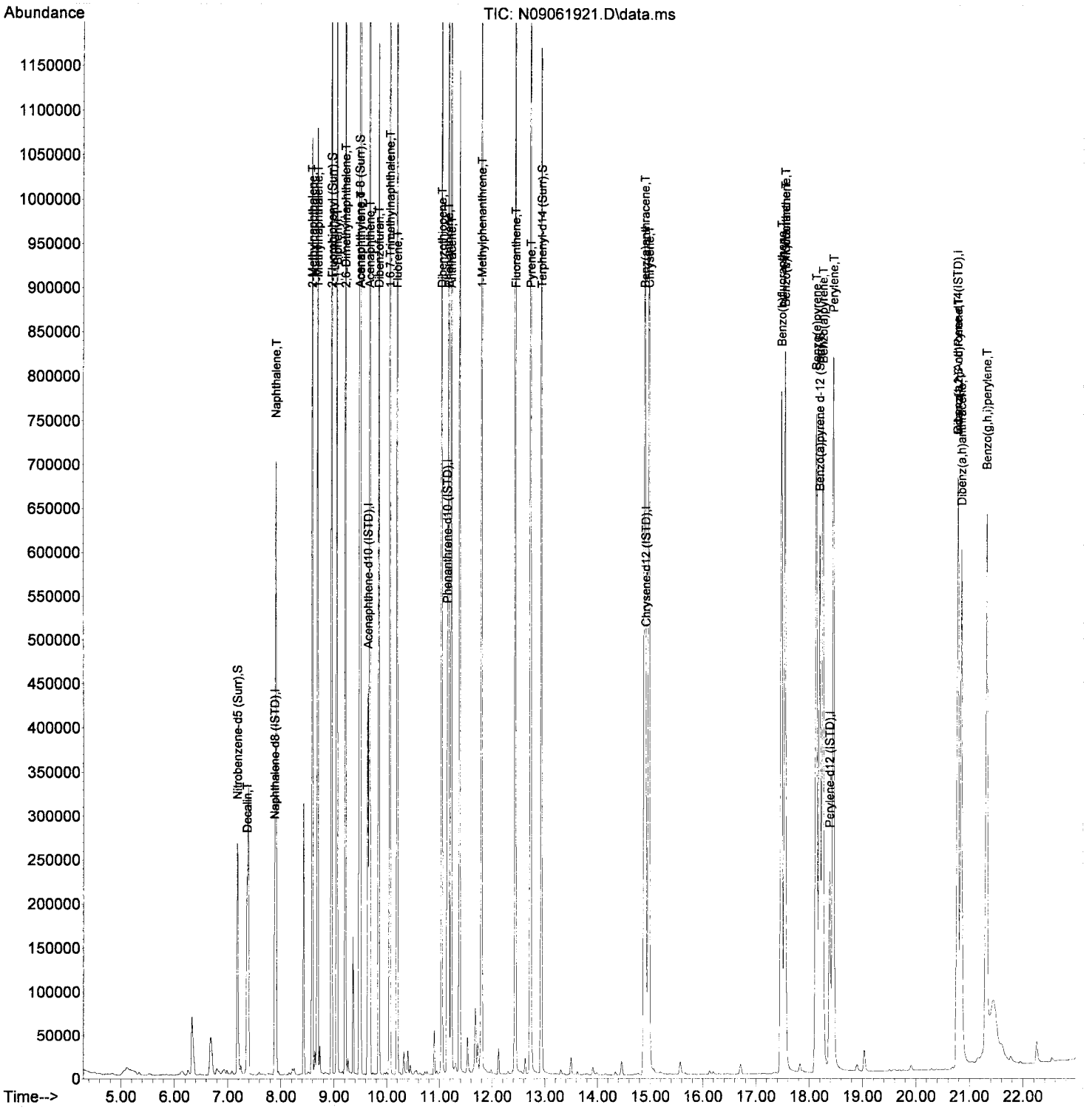
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.883	136	144322	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.643	162	126204	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	242216	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.918	240	215566	100.00	ng/ml	0.01
29) Perylene-d12 (ISTD)	18.386	264	189767	100.00	ng/ml	0.01
37) Dibenz(a,h)Anthrcene-d...	20.776	292	133133	100.00	ng/ml	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.184	82	146381	305.23	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.955	172	559316	297.07	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.486	160	745779	295.55	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.936	244	642064	283.20	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.194	264	500951	330.10	ng/ml	0.02
Target Compounds						Qvalue
3) Decalin	7.364	138	32583	303.24	ng/ml	97
4) Naphthalene	7.906	128	466678	293.18	ng/ml	100
5) 2-Methylnaphthalene	8.588	142	433604	321.46	ng/ml	99
6) 1-Methylnaphthalene	8.693	142	439781	326.10	ng/ml	99
7) 1,1'-Biphenyl	9.055	154	601929	331.80	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.218	156	447080	337.45	ng/ml	99
12) Acenaphthylene	9.498	152	818063	298.58	ng/ml	99
13) Acenaphthene	9.672	153	525474	292.81	ng/ml	99
14) Dibenzofuran	9.847	168	670519	298.30	ng/ml	100
15) 1,6,7-Trimethylnaphtha...	10.057	170	446194	296.47	ng/ml	97
16) Fluorene	10.197	166	565155	307.76	ng/ml	99
18) Dibenzothiopene	11.042	184	757296	298.94	ng/ml	98
19) Phenanthrene	11.170	178	823752	290.63	ng/ml	99
20) Anthracene	11.223	178	800967	303.81	ng/ml	100
21) Carbazole	11.380	167	683176	No Calib		
22) 1-Methylphenanthrene	11.800	192	600130	304.80	ng/ml	99
23) Fluoranthene	12.441	202	885026	309.92	ng/ml	98
25) Pyrene	12.727	202	915663	271.88	ng/ml	100
27) Benz(a)anthracene	14.895	228	736689	294.35	ng/ml	100
28) Chrysene	14.976	228	698605	294.96	ng/ml	99
30) Benzo(b)fluoranthene	17.483	252	692733	316.36	ng/ml	96
31) Benzo(k)fluoranthene	17.547	252	681890	316.29	ng/ml	97
32) Benzo(b+k)fluoranthene	17.547	252	1407871	314.29	ng/ml	97
34) Benzo(e)pyrene	18.136	252	676479	305.53	ng/ml	99
35) Benzo(a)pyrene	18.258	252	607972	324.39	ng/ml	98
36) Perylene	18.456	252	713926	309.27	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.782	276	498760	303.72	ng/ml	88
39) Dibenz(a,h)anthracene	20.846	278	471957	305.86	ng/ml	90
40) Benzo(g,h,i)perylene	21.318	276	546350	313.63	ng/ml	89

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061921.D
Acq On : 06 Sep 2019 09:09 pm
Operator :
Sample : 9I06028-CAL9
Misc : 1x, A19I023@300
ALS Vial : 11 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:34 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061922.D
Acq On : 06 Sep 2019 09:41 pm
Operator :
Sample : 9I06028-CALA
Misc : 1x, A19I024@400
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:40 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

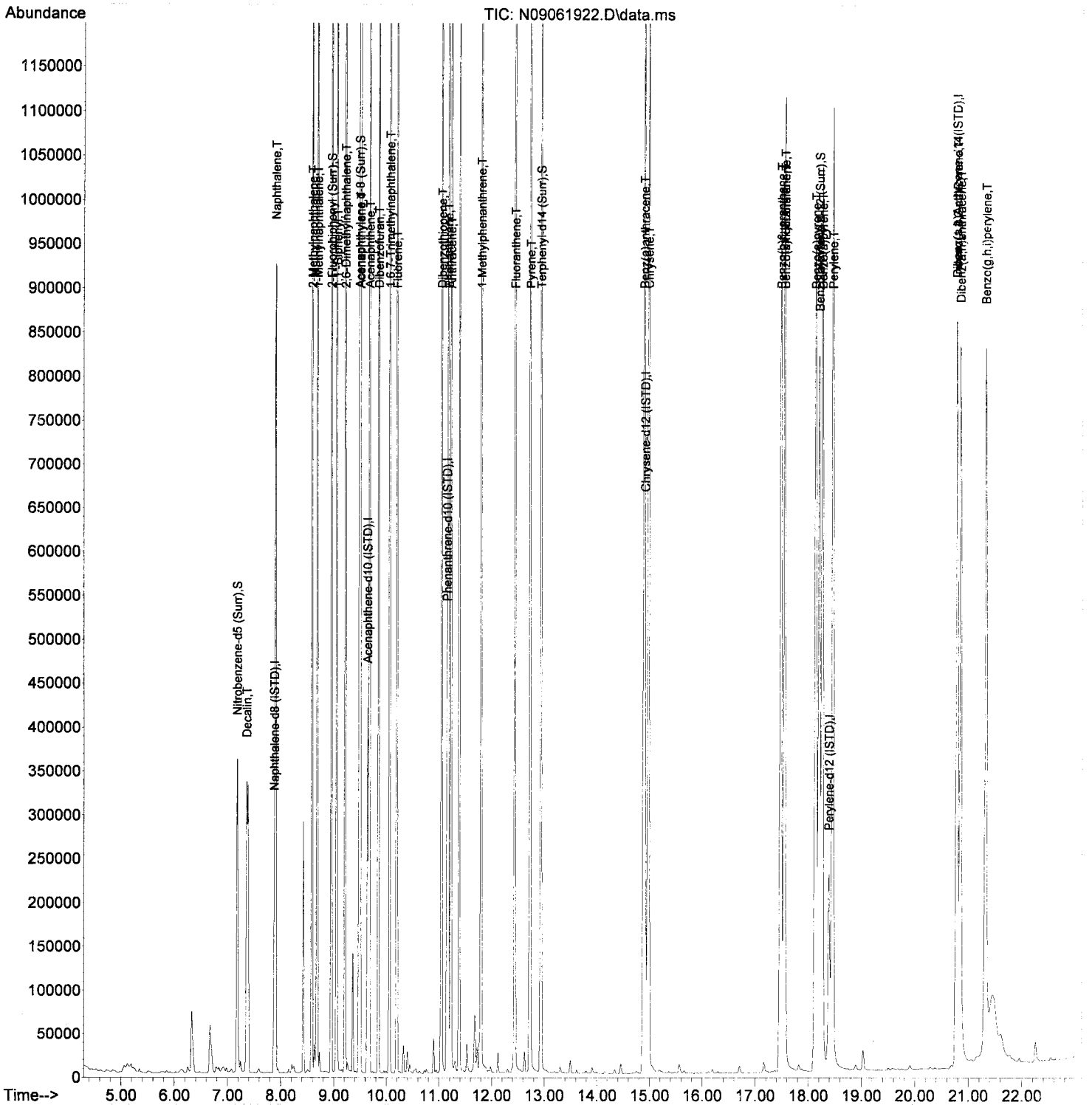
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	151798	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	120378	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.147	188	227701	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.913	240	211373	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.387	264	191099	100.00	ng/ml	0.01
37) Dibenz(a,h)Anthrcene-d...	20.776	292	134738	100.00	ng/ml	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.178	82	204654	405.72	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	721151	401.56	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.480	160	964800	401.86	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.931	244	855839	384.98	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.200	264	689197	450.98	ng/ml	0.02
Target Compounds						Qvalue
3) Decalin	7.359	138	49479	437.80	ng/ml	96
4) Naphthalene	7.901	128	662079	395.46	ng/ml	100
5) 2-Methylnaphthalene	8.589	142	592165	417.39	ng/ml	99
6) 1-Methylnaphthalene	8.688	142	595669	419.94	ng/ml	98
7) 1,1'-Biphenyl	9.055	154	776505	406.95	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.212	156	574431	412.22	ng/ml	99
12) Acenaphthylene	9.498	152	1039006	397.57	ng/ml	99
13) Acenaphthene	9.673	153	672408	392.83	ng/ml	99
14) Dibenzofuran	9.848	168	849810	396.36	ng/ml	99
15) 1,6,7-Trimethylnaphtha...	10.057	170	567245	395.14	ng/ml	98
16) Fluorene	10.191	166	710688	405.74	ng/ml	99
18) Dibenzothiopene	11.042	184	950081	398.95	ng/ml	98
19) Phenanthrene	11.171	178	1041489	390.88	ng/ml	99
20) Anthracene	11.223	178	1015402	409.70	ng/ml	100
21) Carbazole	11.380	167	865078	No Calib		
22) 1-Methylphenanthrene	11.794	192	771189	416.65	ng/ml	99
23) Fluoranthene	12.435	202	1148955	427.99	ng/ml	98
25) Pyrene	12.727	202	1201811	363.93	ng/ml	100
27) Benz(a)anthracene	14.889	228	991720	404.11	ng/ml	99
28) Chrysene	14.977	228	942172	405.69	ng/ml	99
30) Benzo(b)fluoranthene	17.483	252	952609	432.01	ng/ml	96
31) Benzo(k)fluoranthene	17.553	252	938589	432.32	ng/ml	96
32) Benzo(b+k)fluoranthene	17.553	252	1935514	429.07	ng/ml	96
34) Benzo(e)pyrene	18.136	252	924774	414.75	ng/ml	99
35) Benzo(a)pyrene	18.258	252	837229	443.59	ng/ml	98
36) Perylene	18.456	252	976822	420.21	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.782	276	691371	416.00	ng/ml	88
39) Dibenz(a,h)anthracene	20.846	278	656172	420.18	ng/ml	89
40) Benzo(g,h,i)perylene	21.318	276	751545	426.28	ng/ml	89

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061922.D
Acq On : 06 Sep 2019 09:41 pm
Operator :
Sample : 9I06028-CALA
Misc : 1x, A19I024@400
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:40 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061924.D
Acq On : 06 Sep 2019 10:45 pm
Operator :
Sample : 9I06028-ICV1
Misc : 1x, A19I025@50
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:49 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14

9/9/19

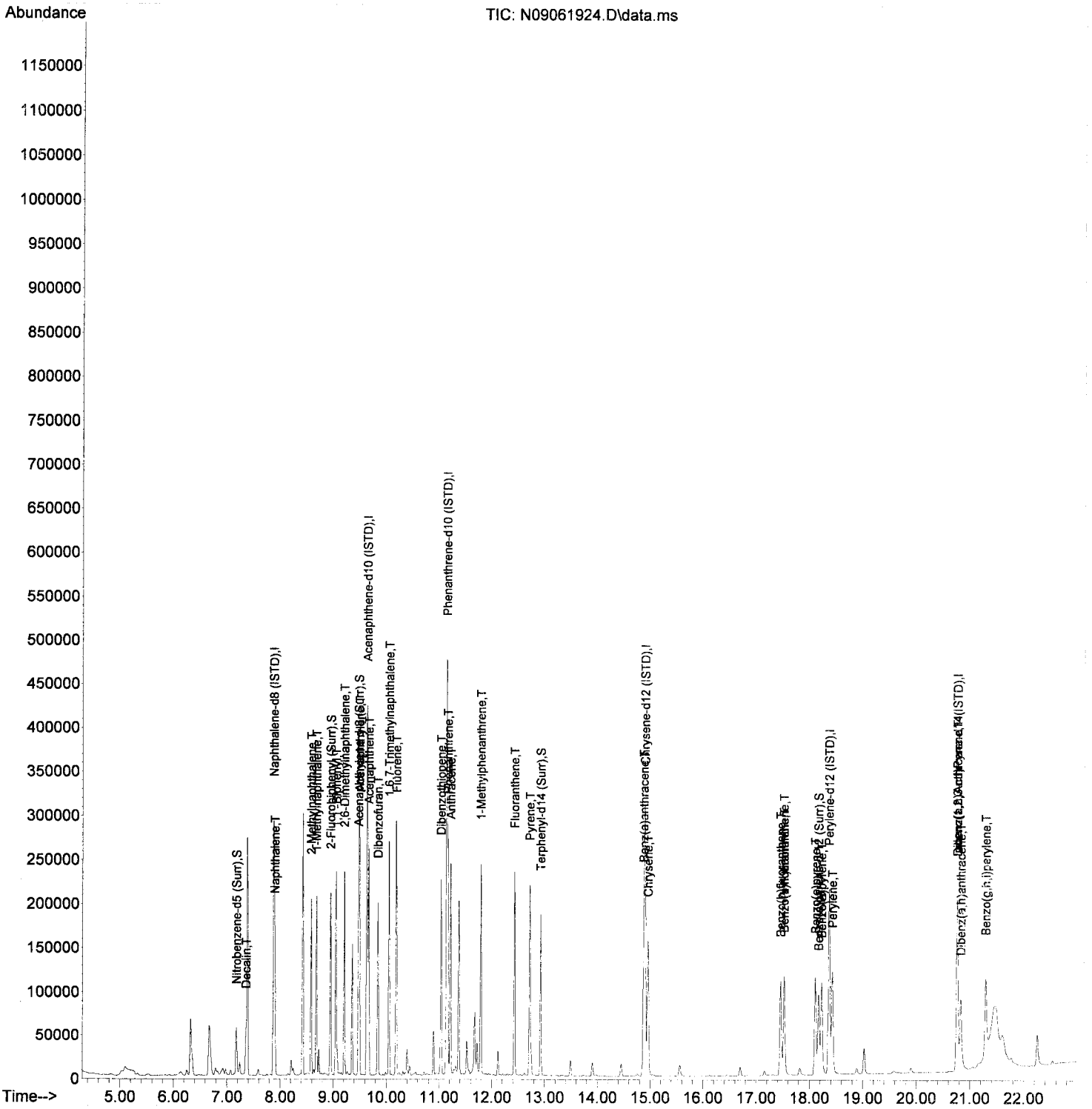
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.901	240	188693	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.369	264	162940	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.759	292	108931	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.178	82	27909	46.21	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	92755	49.67	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.474	160	126796	49.31	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.925	244	96645	48.70	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.171	264	69335	53.21	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.359	138	6597	48.75	ng/ml	96
4) Naphthalene	7.901	128	100112	49.94	ng/ml	99
5) 2-Methylnaphthalene	8.583	142	79542	46.83	ng/ml	99
6) 1-Methylnaphthalene	8.682	142	81122	47.77	ng/ml	98
7) 1,1'-Biphenyl	9.049	154	105870	46.34	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.206	156	76410	45.80	ng/ml	98
12) Acenaphthylene	9.492	152	141177	51.95	ng/ml	99
13) Acenaphthene	9.667	153	89594	50.33	ng/ml	100
14) Dibenzofuran	9.842	168	113513	50.91	ng/ml	98
15) 1,6,7-Trimethylnaphtha...	10.052	170	74864	50.15	ng/ml	99
16) Fluorene	10.191	166	92650	50.87	ng/ml	98
18) Dibenzothiopene	11.037	184	122412	49.79	ng/ml	98
19) Phenanthrene	11.165	178	138621	50.40	ng/ml	100
20) Anthracene	11.217	178	132505	51.79	ng/ml	99
21) Carbazole	11.375	167	104923	No Calib		
22) 1-Methylphenanthrene	11.788	192	98289	51.44	ng/ml	100
23) Fluoranthene	12.430	202	140103	50.56	ng/ml	99
25) Pyrene	12.721	202	144864	49.14	ng/ml	99
27) Benz(a)anthracene	14.878	228	106201	48.48	ng/ml	99
28) Chrysene	14.959	228	108583	52.38	ng/ml	99
30) Benzo(b)fluoranthene	17.460	252	95110	50.59	ng/ml	97
31) Benzo(k)fluoranthene	17.524	252	92505	49.97	ng/ml	97
32) Benzo(b+k)fluoranthene	17.524	252	193724	50.37	ng/ml	97
34) Benzo(e)pyrene	18.113	252	95583	50.28	ng/ml	98
35) Benzo(a)pyrene	18.229	252	82357	51.18	ng/ml	99
36) Perylene	18.427	252	100869	50.89	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	67142	49.97	ng/ml	89
39) Dibenz(a,h)anthracene	20.823	278	62283	49.33	ng/ml	90
40) Benzo(g,h,i)perylene	21.289	276	76359	53.57	ng/ml	91

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061924.D
Acq On : 06 Sep 2019 10:45 pm
Operator :
Sample : 9I06028-ICV1
Misc : 1x, A19I025@50
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:49 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061924.D
Acq On : 06 Sep 2019 10:45 pm
Operator :
Sample : 9I06028-ICV1
Misc : 1x, A19I025@50
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Final Reqmart

Quant Time: Sep 10 10:28:40 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14

JK 9/10/19

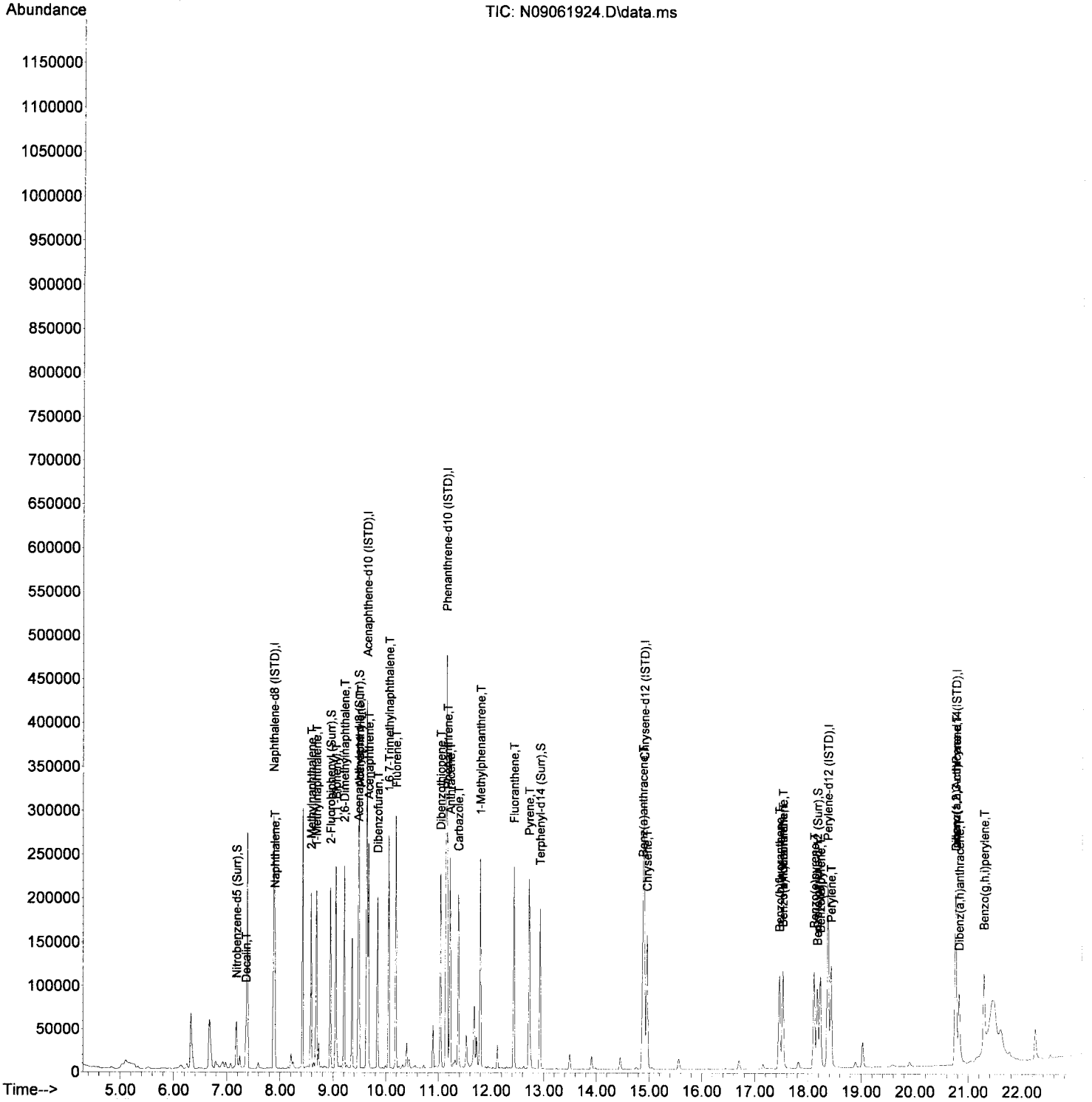
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.901	240	188693	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.369	264	162940	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.759	292	108931	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.178	82	27909	46.21	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.950	172	92755	49.67	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.474	160	126796	49.31	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.925	244	96645	48.70	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.171	264	69335	53.21	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.359	138	6597	48.75	ng/ml	96
4) Naphthalene	7.901	128	100112	49.94	ng/ml	99
5) 2-Methylnaphthalene	8.583	142	79542	46.83	ng/ml	99
6) 1-Methylnaphthalene	8.682	142	81122	47.77	ng/ml	98
7) 1,1'-Biphenyl	9.049	154	105870	46.34	ng/ml	98
8) 2,6-Dimethylnaphthalene	9.206	156	76410	45.80	ng/ml	98
12) Acenaphthylene	9.492	152	141177	51.95	ng/ml	99
13) Acenaphthene	9.667	153	89594	50.33	ng/ml	100
14) Dibenzofuran	9.842	168	113513	50.91	ng/ml	98
15) 1,6,7-Trimethylnaphtha...	10.052	170	74864	50.15	ng/ml	99
16) Fluorene	10.191	166	92650	50.87	ng/ml	98
18) Dibenzothiopene	11.037	184	122412	49.79	ng/ml	98
19) Phenanthrene	11.165	178	138621	50.40	ng/ml	100
20) Anthracene	11.217	178	132505	51.79	ng/ml	99
21) Carbazole	11.375	167	104923	50.68	ng/ml	99
22) 1-Methylphenanthrene	11.788	192	98289	51.44	ng/ml	100
23) Fluoranthene	12.430	202	140103	50.56	ng/ml	99
25) Pyrene	12.721	202	144864	49.14	ng/ml	99
27) Benz(a)anthracene	14.878	228	106201	48.48	ng/ml	99
28) Chrysene	14.959	228	108583	52.38	ng/ml	99
30) Benzo(b)fluoranthene	17.460	252	95110	50.59	ng/ml	97
31) Benzo(k)fluoranthene	17.524	252	92505	49.97	ng/ml	97
32) Benzo(b+k)fluoranthene	17.524	252	193724	100.73	ng/ml	97
34) Benzo(e)pyrene	18.113	252	95583	50.28	ng/ml	98
35) Benzo(a)pyrene	18.229	252	82357	51.18	ng/ml	99
36) Perylene	18.427	252	100869	50.89	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	67142	49.98	ng/ml	89
39) Dibenz(a,h)anthracene	20.823	278	62283	49.34	ng/ml	90
40) Benzo(g,h,i)perylene	21.289	276	76359	53.58	ng/ml	91

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

Quantitation Report (Not Reviewed)

Data Path : N:\data\2019-09\9I06028\
Data File : N09061924.D
Acq On : 06 Sep 2019 10:45 pm
Operator :
Sample : 9I06028-ICV1
Misc : 1x, A19I025@50
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 10 10:28:40 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



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

Conventional Chemistry Parameters
Benchsheet & Analysis Sequence Data

Total Organic Carbon- Soil (5310 B)

Batch 9120592
Sequence 9L11031 (A9J0514-18,19)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120592 (Soil)

Prep Method: PSEP-5310B TOC

#	Lab Number		Analysis	Prepared	Initial (N/A)	Final (N/A)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	9120592-BLK1		QC	12/05/19 19:51	5	5									
	9120592-BS1		QC	12/05/19 19:51	5	5	A19K203 ✓		1						
	A9J0514-18	A	Total Organic Carbon - Soil (5310 B)	12/05/19 19:51	5	5					PDI-066SC-A-05-06-191011	MS/MSD			
	9120592-DUP1		QC	12/05/19 19:51	5	5		A9J0514-18							
	A9J0514-19	A	Total Organic Carbon - Soil (5310 B)	12/05/19 19:51	5	5					PDI-066SC-A-06-07-191011				
	A9J0553-36	A	Total Organic Carbon - Soil (5310 B)	12/05/19 19:51	5	5					PDI-074SC-A-08-09-191012				
	9120592-DUP2		QC	12/05/19 19:51	5	5		A9J0553-36							
	A9J0553-37	A	Total Organic Carbon - Soil (5310 B)	12/05/19 19:51	5	5					PDI-074SC-A-09-10-191012				
	A9J0558-38	A	Total Organic Carbon - Soil (5310 B)	12/05/19 19:51	5	5					PDI-076SC-A-04-05-191013				
	9120592-DUP3		QC	12/05/19 19:51	5	5		A9J0558-38							
	A9J0558-39	A	Total Organic Carbon - Soil (5310 B)	12/05/19 19:51	5	5					PDI-076SC-A-05-06-191013				
	A9J0558-39RE1	A	Total Organic Carbon - Soil (5310 B)	12/05/19 19:51	5	5					PDI-076SC-A-05-06-191013	Added 12/11/2019 by jkp			
	A9J0594-16	A	Total Organic Carbon - Soil (5310 B)	12/05/19 19:51	5	5					PDI-077SC-A-00-01-191014				
	9120592-DUP4		QC	12/05/19 19:51	5	5		A9J0594-16							
	A9J0594-17	A	Total Organic Carbon - Soil (5310 B)	12/05/19 19:51	5	5					PDI-077SC-A-01-02-191014				

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L221	11/30/23	Wet Chem Balance 3
A19F020	06/03/29	TOC Soil Drying Oven @70oC
A19F088	12/08/19	10% Phosphoric Acid ✓
A19J023	11/30/23	Wet Chem Balance 4
A19J145	05/30/22	TOC Soil Blank Matrix

Analyte Spike(s)

Std ID	Exp. Date	Description
A19K203	05/12/20	TOC 10k ppm secondary ✓

Surrogate(s)

Std ID	Exp. Date	Description

JKP 12-11-19
Prepared By: Date

12/13/19
Reviewed By: Date

Printed: 12/11/2019 6:08:11PM

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 9120592 (Soil)

Prep Method: PSEP-5310B TOC

#	Lab Number		Analysis	Prepared	Initial (N/A)	Final (N/A)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11

JKP 12-11-19

Prepared By: Date

Reviewed By: Date

Printed: 12/11/2019 6:08:11PM

ELEMENT SEQUENCE LOG

Apex Laboratories

DEC 16 2019

Sequence: **9L11031** Instrument: **TOC**

Date: **12/11/19 07:42** Calibration: **A8B0203**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L11031-CCV1	Soil	QC	QC				A19K222
2	9L11031-CCB1	Soil	QC	QC				
3	9120592-BLK1	Soil	QC	QC		9120592		
4	9120592-BS1	Soil	QC	QC		9120592		
5	A9J0514-18	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120592		
6	9120592-DUP1	Soil	QC	QC		9120592		
7	A9J0514-19	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120592		
8	A9J0553-36	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120592		
9	9120592-DUP2	Soil	QC	QC		9120592		
10	A9J0553-37	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120592		
11	A9J0558-38	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120592		
12	9120592-DUP3	Soil	QC	QC		9120592		
13	9L11031-CCV2	Soil	QC	QC				A19K222
14	9L11031-CCB2	Soil	QC	QC				
15	A9J0558-39	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120592		
16	A9J0594-16	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120592		
17	9120592-DUP4	Soil	QC	QC		9120592		
18	A9J0594-17	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120592		
19	A9J0558-39RE1	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120592		
20	9L11031-CCV3	Soil	QC	QC				A19K222
21	9L11031-CCB3	Soil	QC	QC				

Data Entered By: JKP 12-11-19

Comments:

Data Reviewed By: dm 12/13/19

TOC Data

Sample ID (Reporting Levels based on lowest amount used.)	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
9L11031-CCV1	1	20	275.20	200.7	10,035.02	9,938	12/11/19 @ 09:45
	2	20	271.40	196.81	9,840.51		
9L11031-CCB1	1	100	0	5.15	51.53	52	12/11/19 @ 10:03
	2	100	0.001	5.15	51.54		
9120592-BLK1	1	96.6	3.418	8.35	86.46	88	12/11/19 @ 10:08
	2	94.4	2.859	7.83	82.98	RSD: 6.9%	
	3	91.1	3.727	8.64	94.82		
9120592-BS1	1	20.0	278.4	204.05	10,202.41	10,112	12/11/19 @ 10:25
	2	20.0	273.2	198.64	9,932.07	RSD: 1.5%	
	3	20.0	278.4	204.05	10,202.41		
A9J0514-18	1	3.9	388.7	370.56	95,015.11	114,775	12/11/19 @ 11:10
	2	3.7	444.8	505.08	136,508.07	RSD: 18.1%	
	3	3.8	415	428.65	112,801.84		
9120592-DUP1	1	3.3	387.3	367.7	111,423.18	114,219	12/11/19 @ 11:28
	2	2.9	371.8	337.47	116,370.10	RSD: 2.2%	
	3	3.1	381.5	356.07	114,862.87		
A9J0514-19	1	2.6	291.9	218.93	84,204.31	79,917	12/11/19 @ 11:52
	2	3.7	337.8	279.97	75,668.77	RSD: 5.3%	
	3	3.6	342.7	287.56	79,878.56		
A9J0553-36	1	14.9	50.5	46.5	3,120.60	3,769	12/11/19 @ 13:13
	2	12.8	70.42	60	4,687.81	RSD: 21.7%	
	3	13.0	49.05	45.46	3,497.16		
9120592-DUP2	1	12.9	43.03	41.09	3,185.14	3,430	12/11/19 @ 13:25
	2	14.0	58.75	52.24	3,731.52	RSD: 8.1%	
	3	14.0	51.55	47.24	3,374.35		

TOC Data

Sample ID (Reporting Levels based on lowest amount used.)	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
A9J0553-37	1	47.1	16.37	19.89	422.38	387	12/11/19 @ 13:50
	2	54.5	17.9	21.2	388.98	RSD: 9.3%	
	3	75.4	24.13	26.4	350.09		
A9J0558-38	1	17.9	275.3	200.8	11,218.10	11,443	12/11/19 @ 14:40
	2	17.0	246.5	173.45	10,202.83	RSD: 11.9%	
	3	18.1	304.2	233.63	12,907.60		
9120592-DUP3	1	17.7	281.7	207.57	11,727.20	11,314	12/11/19 @ 14:57
	2	18.2	274.1	199.56	10,965.10	RSD: 3.4%	
	3	16.1	255.1	181.12	11,249.70		
9L11031-CCV2	1	20.0	272.8	198.23	9,911.64	10,268	12/11/19 @ 15:22
	2	20.0	286.2	212.49	10,624.70		
911031-CCB2	1	100.0	0	5.15	51.53	52	12/11/19 @ 15:40
	2	100.0	0	5.15	51.53		
A9J0558-39	1	10.1	379.900	352.94	34,944.10	44,016	12/11/19 @ 15:49
	2	14.3	447.900	513.72	35,924.70	RSD: 33.8%	
	3	12.6	523.800	770.87	61,180.29		
A9J0594-16	1	15.4	380.1	353.33	22,943.26	23,890	12/11/19 @ 16:11
	2	12.2	357.2	311.37	25,521.74	RSD: 5.9%	
	3	13.9	363.6	322.54	23,204.12		
9120592-DUP4	1	15.6	397.7	389.5	24,968.12	23,943	12/11/19 @ 16:30
	2	11.5	322.2	257.26	22,370.81	RSD: 5.8%	
	3	14.5	381	355.09	24,489.02		
A9J0594-17	1	15.3	363.1	321.65	21,022.83	20,622	12/11/19 @ 16:48
	2	12.7	326.5	263.31	20,733.06	RSD: 2.3%	
	3	12.5	317.9	251.38	20,110.11		
A9J0558-39RE1	1	13.5	452.9	527.95	39,107.43	32,732	12/11/19 @ 17:07
	2	11.9	326.5	263.31	22,126.88	RSD: 28.2%	
	3	13.1	437.1	484.19	36,960.99		

Sample ID (Reporting Levels based on lowest amount used.)	**Rep #**	**Amount (mg or ul)**	**instrument response (ug C)**	**Calculated ug C**	**TOC (mg/kg or mg/l)**	**Average TOC (mg/kg or mg/l)**	**Date and Time**
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!		
9L11031-CCV3	1	20.0	280.9	206.71	10,335.53	10,420	12/11/19 @ 17:31
	2	20.0	284	210.07	10,503.51		
9L11031-CCB3	1	100.0	0	5.15	51.53	52	12/11/19 @ 17:50
	2	100.0	0	5.15	51.53		

Sequence 9L11031
Batch 9120592

TOC Soil data log

Date/Time 12-11-19
Analyst JKP

Sample ID	Wt1(mg or ul)** / Wt2(mg or ul)** / Wt3(mg or ul)**	raw TOC (ug)	Comments	Date and Time
9L11031 -CCV1	20	275.2		12-11-19 @ 0945
	20	271.4		
9L11031 -CCB1	100	0		1003
	100	0.001		
9120592 -BLK	96.6	3.418		1008
	94.4	2.859		
	91.1	3.727		
9120592 -BS1	20	278.4		1025
	20	273.2		
	20	278.4		
A9J0514 -18	~~8.2~~	~~553.4~~	~~Out Range~~	1110
	~~7.33.9~~ JKP 12-11-19	~~388.7~~	3.8 415	
	~~6.4~~ 3.7	444.8		
9120592 -DUP1	3.3	387.3		1128
	2.9	371.8		
	3.1	381.5		
A9J0514 -19	2.6	291.9		1152
	3.7	337.8		
	3.6	342.7		
A9J0553 -36	14.9	50.5		1313
	12.8	70.42		
	13.0	49.05		

Sample ID	Wt1(mg or ul)** / Wt2(mg or ul)** / Wt3(mg or ul)**	raw TOC (ug)	Comments	Date and Time
9120592 -DUP2	12.9	43.03	~~1325~~	12-11-19 @ 1325
	14.0	58.75		
	14.0	51.55		
A9J0553 -37	47.1	16.37	75.4 24.13	1350
	54.5	17.9		
	~~55.0~~	~~13.88~~	~~JKP 12-11-19 Outside range~~	
A9J0558 -38	17.9	275.3		1440
	17.0	246.5		
	18.1	304.2		
9120592 -DUP3	17.7	281.7		1457
	18.2	274.1		
	16.1	255.1		
9L11031 -CCV2	20	272.8		1522
	20	286.2		
9L11031 -CCB2	100	0		1540
	100	0		
A9J0558 -39	10.1	379.9		1549
	14.3	447.9		
	12.6	523.8		
A9J0594 -16	15.4	380.1		1611
	12.2	357.2		
	13.9	363.6		

**Sample mass input into instrument as 1000 mg to output actual ug C

Sequence 9L11031
Batch 9120592

TOC Soil data log

Date/Time 12-11-19
Analyst JKP

Sample ID	Wt1(mg or ul)** / Wt2(mg or ul)** / Wt3(mg or ul)**	raw TOC (ug) / raw TOC (ug) / raw TOC (ug)	Comments	Date and Time
9120592 -DUP4	15.6	397.7		12-11-19 @ 1630
	11.5	322.2		
	14.5	381		
A9J0594 -17	15.3	363.1		1648
	12.7	326.5		
	12.5	317.9		
A9J0558 ~~9L11031 CCV3~~ JKP 12-11-19 -39RE1	~~20~~ 13.5	452.9		1707
	~~20~~ 11.9	326.5		
	13.1	437.1		
9L11031- CCV3 ~~9L11031 -CCB3~~ JKP 12-11-19	20 ~~100~~	280.9		1731
	20 ~~100~~	284		
9L11031 -CCB3	100	0		1750
	100	0		

Sample ID	Wt1(mg or ul)** / Wt2(mg or ul)** / Wt3(mg or ul)**	raw TOC (ug) / raw TOC (ug) / raw TOC (ug)	Comments	Date and Time

**Sample mass input into instrument as 1000 mg to output actual ug C

Batch 9120592 TOC PSEP preweigh Analyst JKP

Date/Time:	12-6-19@0812	12-6-19@1040	12-6-19@1533		Effervesces?	Comments
T(°C) IN / OUT:	68.6 / 69.7	68.6 / 69.3	71.8 / 69.8	/		
Sample ID	Wt 1(g)	Wt 2(g)	Wt 3(g)	Wt 4(g)	(yes/no)	
AGJ0514-16	5.6484	5.6446			no	
AGJ0514-16DUP	5.5676	5.5692			"	
AGJ0514-19	4.2661	4.2662			"	
AGJ0553-36	6.8529	6.8524			"	
AGJ0553-36DUP	7.8951	7.8920			"	
AGJ0553-37	5.4156	5.4121			"	
AGJ0558-38	6.8775	6.8761			"	
AGJ0558-38DUP	6.0906	6.0928			"	
AGJ0558-39	6.0608	6.0584			"	
AGJ0594-16	5.1119	5.1055	5.1059		"	
AGJ0594-16DUP	6.0696	6.0644	6.0696		✓	
AGJ0594-17	4.6350	4.6308			"	

In oven on 12-5-19 @ 1951 JKP

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

Conventional Chemistry Parameters
Calibration Data

Sequence 8B02022 (Cal ID A8B0203) TOC

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	8B02022	Instrument:	TOC
Date:	02/02/18 10:15	Calibration:	A8B0203

Order	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	8B02022-CAL1	Soil	QC	QC				
2	8B02022-CAL2	Soil	QC	QC				A18B030
3	8B02022-CAL3	Soil	QC	QC				A18B029
4	8B02022-CAL4	Soil	QC	QC				A18B028
5	8B02022-CAL5	Soil	QC	QC				A18B027
6	8B02022-CAL6	Soil	QC	QC				A18B026
7	8B02022-CAL7	Soil	QC	QC				A18B025
8	8B02022-CAL8	Soil	QC	QC				A18B024
9	8B02022-CAL9	Soil	QC	QC				A18B023
10	8B02022-CALA	Soil	QC	QC				A18B022
11	8B02022-CALB	Soil	QC	QC				A18B021
12	8B02022-ICV1	Soil	QC	QC				A18B031
13	8B02022-ICB1	Soil	QC	QC				
14	8B02022-ICV2	Soil	QC	QC				A18B031
15	8B02022-ICB2	Soil	QC	QC				

Data Entered By: JKP 2-2-18

Comments:

Data Reviewed By: JCS 2/14/18

2/2/2018 5:40:11PM

TOC Data

Sample ID	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
8B02022-CAL1	1	20	1.847	6.89	344.50	323	
	2	20	1.106	6.2	309.77		
	3	20	1.192	6.28	313.81		
[redacted]	1	20.0	14.4	18.2	909.78	[redacted]	
	2	20.0	16.65	20.13	1,006.70		
	3	20.0	15.74	19.35	967.66		
[redacted]	1	20.0	44.37	42.07	2,103.69	[redacted]	
	2	20.0	48.3	44.93	2,246.27		
	3	20.0	47.81	44.57	2,228.65		
[redacted]	1	20.0	123.9	92.03	4,601.40	[redacted]	
	2	20.0	131.8	96.53	4,826.34		
	3	20.0	132.4	96.87	4,843.42		
[redacted]	1	20.0	278.8	204.47	10,223.57	[redacted]	
	2	20.0	287.6	214.05	10,702.70		
	3	20.0	284.1	210.18	10,508.98		
[redacted]	1	20.0	350.7	300.44	15,022.06	[redacted]	
	2	20.0	345	291.2	14,560.12		
	3	20.0	361	317.95	15,897.40		
[redacted]	1	20.0	399.1	392.54	19,626.76	[redacted]	
	2	20.0	402.2	399.33	19,966.67		
	3	20.0	410.3	417.65	20,882.38		

TOC Data

Sample ID	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
8B02022-CAL8	1	20.0	437.8	486.05	24,302.72	24,424	
	2	20.0	440.9	494.4	24,719.83		
	3	20.0	437.4	484.99	24,249.38		
8B02022-CAL9	1	20.0	473.2	589.45	29,472.51	29,844	
	2	20.0	473.6	590.72	29,536.19		
	3	20.0	479.7	610.45	30,522.56		
8B02022-CAL10	1	20.0	503.7	693.77	34,688.41	34,766	
	2	20.0	504.4	696.34	34,816.94		
	3	20.0	504.6	697.07	34,853.73		
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
8B02022-CAL11	1	20	529.100	792.36	39,618.21	40,444	
	2	20	532.500	806.41	40,320.67		
	3	20	537.600	827.87	41,393.75		
8B02022-ICV1	1	20.0	298.2	226.32	11,315.89	11,747	
	2	20.0	312	243.55	12,177.38		
	3			5.15	#DIV/0!		
8B022-ICB1	1	20.0	0	5.15	257.64	258	
	2	20.0	0	5.15	257.64		
	3			5.15	#DIV/0!		
8B02022-ICV2	1	20.0	277.9	203.52	10,176.04	10,428	
	2	20.0	287.2	213.61	10,680.34		
	3			5.15	#DIV/0!		
8B02022-ICB2	1	20.0	0	5.15	257.64	258	
	2	20.0	0	5.15	257.64		
	3			5.15	#DIV/0!		

⇒ ICV1 failed high. Reprepped and reanalyzed below as ICV2. JKP 2-2-18

Sequence 8B02022
Batch

TOC Soil data log

Date/Time 2-2-18 @ ~~1520~~ 1735
Analyst ~~JKP~~ JKP
2-2-18

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments
	Wt2(mg or ul)**	raw TOC (ug)	
	Wt3(mg or ul)**	raw TOC (ug)	
8B02022-Cal1	20	1.847	
	20	1.106	
	20	1.192	
8B02022-Cal2	20	14.4	
	20	16.65	Time Out
	20	15.74	
8B02022-Cal3	20	44.37	
	20	48.3	
	20	47.81	
8B02022-Cal4	20	123.9	
	20	131.8	Time Out
	20	132.4	
8B02022-Cal5	20	278.8	
	20	287.6	
	20	284.1	
8B02022-Cal6	20	350.7	
	20	345	Time Out
	20	361	
8B02022-Cal7	20	399.1	Time Out
	20	402.2	
	20	410.3	
8B02022-Cal8	20	437.8	Time Out
	20	440.9	
	20	437.4	

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments
	Wt2(mg or ul)**	raw TOC (ug)	
	Wt3(mg or ul)**	raw TOC (ug)	
8B02022-Cal9	20	473.2	Time Out
	20	473.6	Time Out
	20	479.7	Time Out
8B02022-Cal10A JKP 2-2-18	20	503.7	
	20	504.4	Time Out
	20	504.6	Time Out
8B02022-Cal10B JKP 2-2-18	20	529.1	Time Out
	20	532.5	Time Out
	20	537.6	Time Out
8B02022-ICV1	20	298.2	Time Out
	20	312	Time Out
	JKP 3-2-18 ~~20~~		
8B02022-ICB1	20	0	
	20	0	
	JKP 3-2-18 ~~20~~		
8B02022-ICV2	20	277.9	Time Out
	20	287.2	Time Out
8B02022-ICB2	20	0	
	20	0	

ICV1 failed high. Reprepped and reanalyzed below as ICV2
JKP
2-2-18

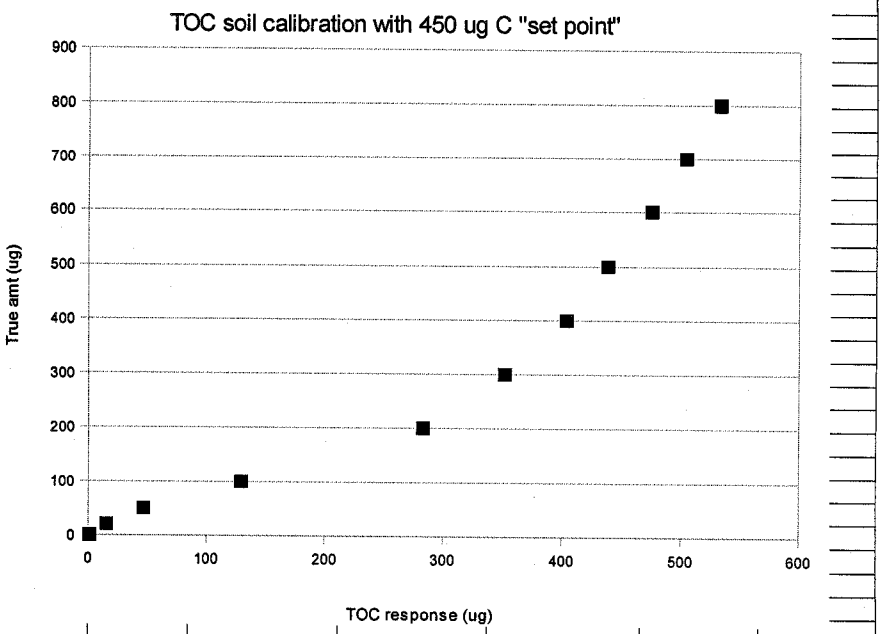
**Sample mass input into instrument as 1000 mg to output actual ug C

Cal Standard	Instrument Reponse	Average Instrument Response
1	1.85	1.38
	1.11	
	1.19	
2	14.4	15.6
	16.65	
	15.74	
3	44.37	46.83
	48.3	
	47.81	
4	123.9	129.37
	131.8	
	132.4	
5	278.8	283.5
	287.6	
	284.1	
6	350.7	352.23
	345	
	361	
7	399.1	403.87
	402.2	
	410.3	
8	437.8	438.7
	440.9	
	437.4	
9	473.2	475.5
	473.6	
	479.7	
10	503.7	504.23
	504.4	
	504.6	
11	529.1	533.07
	532.5	
	537.6	

450 ug curve

TOC resp ug C		True ug C
533.07		800
504.23		700
475.5		600
438.7		500
403.87		400
352.23		300
283.5		200
129.37		100
46.83		50
15.6		20
1.38		0

TOC resp ug C	Requant	% recovery
533.07	808.77	101.1
504.23	695.73	99.39
475.5	596.81	99.47
438.7	488.46	97.69
403.87	403.04	100.76
352.23	302.98	100.99
283.5	209.52	104.76
129.37	95.14	95.14
46.83	43.86	87.73
15.6	19.23	96.15
1.38	6.45	N/A



X (response)	X^2	X^3	y (ug C)
533.07	284160.07	151476261.9	800
504.23	254251.25	128201957.5	700
475.5	226100.25	107510668.9	600
438.7	192457.69	84431188.6	500
403.87	163108.28	65873999.14	400
352.23	124068.32	43700998.31	300
283.5	80372.25	22785532.88	200
129.37	16735.73	2165046.18	100
46.83	2192.74	102678.55	50
15.6	243.26	3793.98	20
1.38	1.91	2.64	0

curve calculations

0.00000740	-0.00289199	0.94586231	5.15285875
0	0	0.14	5.96
0.99945	8.03	#N/A	#N/A
4233.13	7	#N/A	#N/A
818003.66	450.89	#N/A	#N/A

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

Total Solids by SM2540G
Benchsheet Data

Batch 9120506 (A9J0514-18,19)
Batch 9120919 (A9J0514-28,29,30,31,32,33,34,35,36,37,38,39,40)

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Apex Laboratories

PREPARATION BENCH SHEET

Percent Solids + Dry Weight Worksheet

BATCH #: 9120506 (Matrix: Sediment)

Lab Number	Analysis	QC Source ID	Prepared (Time In)	Weighed (Time Out)	Tare Wt. (g)	Wet Weight (+Tare) (g)	Dry Weight (+Tare) (g)	% Solids (Calc)	LogComments
A9J0514-18	Dry Weight		12/06/19 17:00		1.255	26.42	15.79	57.8	Use Results from TS.. Make NR once completed.
A9J0514-18	Solids, Total (SM 254		12/06/19 17:00		1.255	26.42	15.79	57.8	Use Results for Dry Weight (Not for Waters)
9120506-DUP1	QC	A9J0514-18	12/06/19 17:00		1.26	29.49	17.57	57.8	
A9J0514-19	Dry Weight		12/06/19 17:00		1.26	27.175	15.605	55.4	Use Results from TS.. Make NR once completed.
A9J0514-19	Solids, Total (SM 254		12/06/19 17:00		1.26	27.175	15.605	55.4	Use Results for Dry Weight (Not for Waters)

NRP 12/9/19
Prepared By: Date

James S. Johnson 12/10/19
Reviewed By: Date

Batch #: 9120506

Analyst: nrp

Total Solids Worksheet

Method: SM 2540 G

Date: 12/4/2019

Sample ID	Tare Wt. (g)	Vessel ID	Initial (wet) Wt. (g)	Final Weight (g) 1st weighing	2nd Weighing	3rd Weighing	Comments
A9J0514-18	1.255	514-18	26.420	15.790	15.790		
9120506-DUP1	1.260	514-18Dup	29.490	17.590	17.570		source: A9J0514-18
A9J0514-19	1.260	514-19	27.175	15.610	15.605		

Date/time first in oven:		1st	2nd	3rd	
12/6/19@18:20	**Oven temp. (°C; in/out):**	**104.1/103.7**	**103.3/103.1**	/	
	Time of weighing:	12/9@10:10	12/9@16:50		

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PREPARATION BENCH SHEET

DEC 2 3 2019

Percent Solids + Dry Weight Worksheet

BATCH #: 9120919 (Matrix: Sediment)

Lab Number	Analysis	QC Source ID	Prepared (Time In)	Weighed (Time Out)	Tare Wt. (g)	Wet Weight (+Tare) (g)	Dry Weight (+Tare) (g)	% Solids (Calc)	LogComments
A9J0514-28	Dry Weight		12/14/19 09:25		1.26	27.49	16.26	57.2	Use Results from TS.. Make NR once completed.
A9J0514-28	Solids, Total (SM 254		12/14/19 09:25		1.26	27.49	16.26	57.2	Use Results for Dry Weight (Not for Waters)
9120919-DUP1	QC	A9J0514-28	12/14/19 09:25		1.25	29.565	17.675	58.0	
A9J0514-29	Dry Weight		12/14/19 09:25		1.27	27.62	16.05	56.1	Use Results from TS.. Make NR once completed.
A9J0514-29	Solids, Total (SM 254		12/14/19 09:25		1.27	27.62	16.05	56.1	Use Results for Dry Weight (Not for Waters)
A9J0514-30	Dry Weight		12/14/19 09:25		1.26	29.98	18.35	59.5	Use Results from TS.. Make NR once completed.
A9J0514-30	Solids, Total (SM 254		12/14/19 09:25		1.26	29.98	18.35	59.5	Use Results for Dry Weight (Not for Waters)
A9J0514-31	Dry Weight		12/14/19 09:25		1.25	27.15	16.12	57.4	Use Results from TS.. Make NR once completed.
A9J0514-31	Solids, Total (SM 254		12/14/19 09:25		1.25	27.15	16.12	57.4	Use Results for Dry Weight (Not for Waters)
A9J0514-32	Dry Weight		12/14/19 09:25		1.26	29.03	16.765	55.8	Use Results from TS.. Make NR once completed.
A9J0514-32	Solids, Total (SM 254		12/14/19 09:25		1.26	29.03	16.765	55.8	Use Results for Dry Weight (Not for Waters)
A9J0514-33	Dry Weight		12/14/19 09:25		1.26	28.775	17.18	57.9	Use Results from TS.. Make NR once completed.
A9J0514-33	Solids, Total (SM 254		12/14/19 09:25		1.26	28.775	17.18	57.9	Use Results for Dry Weight (Not for Waters)
A9J0514-34	Dry Weight		12/14/19 09:25		1.27	28.855	17.11	57.4	Use Results from TS.. Make NR once completed.
A9J0514-34	Solids, Total (SM 254		12/14/19 09:25		1.27	28.855	17.11	57.4	Use Results for Dry Weight (Not for Waters)
A9J0514-35	Dry Weight		12/14/19 09:25		1.25	28.04	17.14	59.3	Use Results from TS.. Make NR once completed.
A9J0514-35	Solids, Total (SM 254		12/14/19 09:25		1.25	28.04	17.14	59.3	Use Results for Dry Weight (Not for Waters)
A9J0514-36	Dry Weight		12/14/19 09:25		1.26	27.25	16.285	57.8	Use Results from TS.. Make NR once completed.
A9J0514-36	Solids, Total (SM 254		12/14/19 09:25		1.26	27.25	16.285	57.8	Use Results for Dry Weight (Not for Waters)
A9J0514-37	Dry Weight		12/14/19 09:25		1.26	26.755	15.92	57.5	Use Results from TS.. Make NR once completed.
A9J0514-37	Solids, Total (SM 254		12/14/19 09:25		1.26	26.755	15.92	57.5	Use Results for Dry Weight (Not for Waters)
9120919-DUP2	QC	A9J0514-37	12/14/19 09:25		1.25	26.48	15.6	56.9	

NPP 12/19/19
Prepared By: Date

James S. Johnson 12/20/19
Reviewed By: Date

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PREPARATION BENCH SHEET

Percent Solids + Dry Weight Worksheet

BATCH #: 9120919 (Matrix: Sediment)

Lab Number	Analysis	QC Source ID	Prepared (Time In)	Weighed (Time Out)	Tare Wt. (g)	Wet Weight (+Tare) (g)	Dry Weight (+Tare) (g)	% Solids (Calc)	LogComments
A9J0514-38	Dry Weight		12/14/19 09:25		1.26	28.205	14.845	50.4	Use Results from TS.. Make NR once completed.
A9J0514-38	Solids, Total (SM 254		12/14/19 09:25		1.26	28.205	14.845	50.4	Use Results for Dry Weight (Not for Waters)
A9J0514-39	Dry Weight		12/14/19 09:25		1.26	27.59	15.96	55.8	Use Results from TS.. Make NR once completed.
A9J0514-39	Solids, Total (SM 254		12/14/19 09:25		1.26	27.59	15.96	55.8	Use Results for Dry Weight (Not for Waters)
A9J0514-40	Dry Weight		12/14/19 09:25		1.26	27.45	17.68	62.7	Use Results from TS.. Make NR once completed.
A9J0514-40	Solids, Total (SM 254		12/14/19 09:25		1.26	27.45	17.68	62.7	Use Results for Dry Weight (Not for Waters)

NRP 12/19/19

Prepared By: Date

Reviewed By: Date

Batch #: 9120919

Analyst: nrp

Total Solids Worksheet

Method: SM 2540 G

Date: 12/14/2019

Sample ID	Tare Wt. (g)	Vessel ID	Initial (wet) Wt. (g)	Final Weight (g)			Comments
				1st weighing	2nd Weighing	3rd Weighing	
A9J0514-28	1.260	514-28	27.490	16.260	16.260	[redacted]	
9120919-DUP1	1.250	514-28Dup	29.565	17.700	17.675	[redacted]	source: A9J0514-28
A9J0514-29	1.270	514-29	27.620	16.080	16.050	[redacted]	
A9J0514-30	1.260	514-30	29.980	18.380	18.350	[redacted]	
A9J0514-31	1.250	514-31	27.150	16.120	16.130	[redacted]	
A9J0514-32	1.260	514-32	29.030	16.770	16.765	[redacted]	
A9J0514-33	1.260	514-33	28.775	17.200	17.180	[redacted]	
A9J0514-34	1.270	514-34	28.855	17.130	17.110	[redacted]	
A9J0514-35	1.250	514-35	28.040	17.140	17.140	[redacted]	
A9J0514-36	1.260	514-36	27.250	16.300	16.285	[redacted]	
A9J0514-37	1.260	514-37	26.755	15.935	15.920	[redacted]	
9120919-DUP2	1.250	514-37Dup	26.480	15.605	15.600	[redacted]	source: A9J0514-37
A9J0514-38	1.260	514-38	28.205	14.860	14.845	[redacted]	
A9J0514-39	1.260	514-39	27.590	15.960	15.960	[redacted]	
A9J0514-40	1.260	514-40	27.450	17.680	17.680	[redacted]	
					[redacted]	[redacted]	
					[redacted]	[redacted]	Samples 28,28 Dup,29,30,32,36,37
					[redacted]	[redacted]	37 Dup,38
					[redacted]	[redacted]	In oven 12/19@11:15 Deg@103.3
					[redacted]	[redacted]	Out oven 12/19@15:43 Deg@ 103.3
					[redacted]	[redacted]	In oven 12/19@15:55 Deg@ 103.5
					[redacted]	[redacted]	Out oven 12/19@18:25 Deg@103.0
					[redacted]	[redacted]	
					[redacted]	[redacted]	
Date/time first in oven: 12/16/19@14:45		**Oven temp. (°C; in/out):**		**103.6/103.6**	**104.1/103.8**	/	
		Time of weighing:		12/17@14:55	12/17@18:13		

APEX LABORATORIES, LLC
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Balance Checksheets

Extractions November 2019
Extractions December 2019
Extractions January 2020
Wet Chem November 2019
Wet Chem December 2019

Balance Challenge Log

Extractions
AND FX-2000
ID# 5210177

Weight ID	weight (g)	acceptance range (g)	
	=/<1g	± 0.02g	
	>1g	± 2%	
10077	0.5g	0.48	0.52
1000143395	300g	294.00	306.00

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Alternate Weight/ID used:

Date Range:

Month: November
Year: 2019

Day/Time	Initials	Weight One	Observed	Weight Two	Observed
1 07:40	JAG		.48		299.98
2					
3					
4 07:25	JAG		.51		300.00
5 07:25	JAG		.50		299.98
6 07:55	JAG		.51		299.99
7 07:20	JAG		.49		299.95
8 0734	AJJ		0.51		299.98
9					
10					
11 07:15	JAG		.50		299.98
12 10:20	CmA		0.49		299.99
13					
14 07:20	JAG		.50		299.97
15 0710	AJJ		0.50		299.97
16		0.50g		300.00g	
17					
18 0720	AJJ		0.49		299.95
19 9/15	xc		0.50		299.96
20 0718	AJJ		0.50		299.98
21 0724	AJJ		0.51		299.96
22 0733	AJJ		0.50		299.97
23 ~~0~~					
24					
25 07:20	JAG		~~JAG 11/25/19 49.99~~ .49		299.95
26 08:05	JAG		.49		299.97
27 07:05	JAG		.49		300.00
28					
29					
30					
31					

Balance Challenge Log

Extractions
AND FX-2000
ID# 5210177

Weight ID	weight (g)	acceptance range (g)	
	=/<1g	± 0.02g	
	>1g	± 2%	
10077	0.5g	0.48	0.52
1000143395	300g	294.00	306.00

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Month: December
Year: 2019

Alternate Weight/ID used:

Date Range:

Day/Time	Initials	Weight One	Observed	Weight Two	Observed
1			0.50		300.00
2 0723	AJJ		0.50		300.00
3 10:35	CAH		0.50		299.99
4 0725	AJJ		0.50		300.01
5 0712	AJJ		0.49		300.00
6 10:30	CAH		0.50		300.02
7					
8					
9	JAG		.48		300.00
10 1004	AJJ		0.51		300.02
11 0710	AJJ		0.50		300.02
12 0715	JAG		.50		300.01
13 07:17	JAG		.49		300.00
14 ~~0707~~	~~AJJ~~		0. AJJ 12/16		
15					
16 0707	AJJ	0.50g	0.49	300.00g	300.01
17 0718	AJJ		0.50		300.02
18 06:55	CAH		0.50		300.01
19 07:20	JAG		.49		300.00
20 9:55	JC		0.50		300.00
21					
22					
23 3:50	CAH		0.51		300.02
24 1335	JC		0.50		300.02
25					
26 10:40	CAH		0.49		300.00
27 11:25	CAH		0.50		300.01
28					
29					
30 9:20	JC		0.48		300.00
31 0934	AJJ		0.50		300.00

Balance Challenge Log

Wet Chem Balance 1
Ohaus Adventurer Pro
ID# 8C30461093

Weight ID	weight (g)	acceptance range (g)	
	<0.5000g	± 0.5mg	
	>/=0.5000g	± 0.1%	
1000015949	0.005g	0.0045	0.0055
66067	0.100g	0.0995	0.1005
66067	100g	99.9000	100.1000

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Month: NOV
Year: 2019

Alternate Weight/ID used:

Date Range:

Day/Time	Initials	Weight 1	Observed	Weight 2	Observed	Weight 3	Observed
1							
2							
3							
4 9:59	MRE		99.9986	0.1001			0.0050
5 07:20	MRF		99.9989	0.1000			0.0050
6 0710	MVD		99.9986	0.0999			0.0050
7 0749	MRE		99.9981	0.1001			0.0051
8 0845	MVD		99.9987	0.1000			0.0051
9							
10							
11 7:55	MRF		99.9994	0.1001			0.0050
12 8:00	MRF		99.9993	0.1000			0.0051
13 9:46	MRE		99.9997	0.1002			0.0051
14 0827	CMM		99.9995	0.0998			0.0048
15 0613	JKP		100.0002	0.1001			0.0050
16		100.0000g		0.1000g		.0050g	
17							
18 9:25	MRF		100.0011	0.1000	MRE 11/19		0.0050
19 7:43	MRF		100.0014	0.0999			0.0049
20 10:30	MRF		100.0012	0.1000			0.0050
21 11:00	MRF		100.0011	0.1001			0.0049
22							
23							
24 12							
25 14:22	MRF		100.0017	0.1000			0.0051
26 7:35	MRE		100.0002	0.1000			0.0050
27 8:58	MRE		99.9997	0.1000			0.0050
28							
29							
30							
31							

Balance Challenge Log

Wet Chem Balance 1
Ohaus Adventurer Pro
ID# 8C30461093

Weight ID	weight (g)	acceptance range (g)	
	<0.5000g	± 0.5mg	
	>/=0.5000g	± 0.1%	
1000015949	0.005g	0.0045	0.0055
66067	0.100g	0.0995	0.1005
66067	100g	99.9000	100.1000

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Month: Dec
Year: 2019

Alternate Weight/ID used:

Date Range:

Day/Time	Initials	Weight 1	Observed	Weight 2	Observed	Weight 3	Observed
1							
2 8:16	MRF		99.9979		0.1000		0.0051
3 9:13	MRF		99.9971		0.1000		0.0049
4 11:24	MRF		99.9982		0.1000		0.0050
5 10:41	MRF		99.9987		0.1001		0.0050
6 10:21	MK		99.9983		0.1000		0.0050
7							
8							
9							
10 10:25	MAS		99.9991		0.1002		0.0050
11 12:30	MAS		99.9993		0.1000		0.0049
12 10:25	MAS		99.9994	MAS 12-12-19	~~0.9~~ 0.1000		0.0051
13 1017	MAS		99.9995		0.1000		0.0052
MAS 12-16-19 14 ~~1030~~	~~MAS~~		~~99.9994~~		~~0.0999~~		~~0.0050~~
15							
16 1030	MAS	100.0000g	99.9994	0.1000g	0.0999	.0050g	0.0050
17 1030	MAS		99.9992		0.0999		0.0049
18 1315	~~MRF~~		99.9991		0.1002		0.0053
19 1016	MAS		99.9992		0.0999		0.0049
20 1038	MAS		99.9996		0.1000		0.0051
21							
22							
23 1024	MRF		99.9997		0.1000		0.0049
24 1020	MRF		99.9998		0.1001		0.0051
25							0
26 1017	MAS		99.9992		0.0999		0.0049
27 1307	MAS		99.9993		0.1001		0.0050
28							
29							
30 9:40	MRF		99.9989		0.1001		0.0050
31							