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

Level IV Data Package for
Anchor QEA, LLC
US Moorings – C2, C3, C4
Apex Laboratories Work Order #:
A0J0371

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

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

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Balance Checksheets
Extractions October 2020
Wet Chem October 2020

Analytical Case Narrative

Analytical Case Narrative

Client: Anchor QEA, LLC Date: 02/22/2020
Project: US Moorings – C2, C3, C4
Apex Work Order Number: A0J0371

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

Analytical Report

Apex Laboratories, LLC

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

Monday, November 16, 2020

Delaney Peterson
Anchor QEA, LLC
6720 SW Macadam Ave. Suite 125
Portland, OR 97219

RE: A0J0371 - US Moorings -- C2, C3, C4 - [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 A0J0371, which was received by the laboratory on 10/12/2020 at 7:33:00AM.

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	3.6 degC	Cooler #2	5.0 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

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
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
USMPDI-001SG-201011	A0J0371-01	SE	10/11/20 12:41	10/12/20 07:33
USMPDI-003SG-201011	A0J0371-02	SE	10/11/20 10:53	10/12/20 07:33
USMPDI-006SG-201010	A0J0371-03	SE	10/10/20 15:46	10/12/20 07:33
USMPDI-011SG-201011	A0J0371-04	SE	10/11/20 15:37	10/12/20 07:33
USMPDI-012SG-201010	A0J0371-05	SE	10/10/20 14:25	10/12/20 07:33
USMPDI-021SG-201010	A0J0371-06	SE	10/10/20 12:20	10/12/20 07:33
USMPDI-023SG-201010	A0J0371-07	SE	10/10/20 11:14	10/12/20 07:33
USMPDI-039SG-201010	A0J0371-08	SE	10/10/20 10:39	10/12/20 07:33
USMPDI-1039SG-201010	A0J0371-09	SE	10/10/20 10:39	10/12/20 07:33
USMPDI-045SG-201010	A0J0371-10	SE	10/10/20 09:18	10/12/20 07:33

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Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
USMPDI-001SG-201011 (A0J0371-01RE1)				**Matrix: SE**		**Batch: 0100834**		**C-05**
2,4'-DDD	ND	2.39	4.77	ug/kg dry	1	10/26/20 18:35	EPA 8081B	
2,4'-DDE	ND	2.39	4.77	ug/kg dry	1	10/26/20 18:35	EPA 8081B	
2,4'-DDT	ND	2.39	4.77	ug/kg dry	1	10/26/20 18:35	EPA 8081B	
4,4'-DDD	ND	4.77	4.77	ug/kg dry	1	10/26/20 18:35	EPA 8081B	
4,4'-DDE	ND	4.77	4.77	ug/kg dry	1	10/26/20 18:35	EPA 8081B	
4,4'-DDT	ND	2.39	4.77	ug/kg dry	1	10/26/20 18:35	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*64 %*	*Limits: 42-129 %*	*1*	*10/26/20 18:35*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*95 %*	*55-130 %*	*1*	*10/26/20 18:35*	*EPA 8081B*	
USMPDI-003SG-201011 (A0J0371-02RE1)				**Matrix: SE**		**Batch: 0100834**		**C-05**
2,4'-DDD	ND	4.69	4.69	ug/kg dry	1	10/26/20 19:58	EPA 8081B	R-02
2,4'-DDE	ND	4.47	4.47	ug/kg dry	1	10/26/20 19:58	EPA 8081B	
2,4'-DDT	ND	2.24	4.47	ug/kg dry	1	10/26/20 19:58	EPA 8081B	
4,4'-DDD	**8.87**	2.24	4.47	ug/kg dry	1	10/26/20 19:58	EPA 8081B	**P-11**
4,4'-DDE	ND	4.47	4.47	ug/kg dry	1	10/26/20 19:58	EPA 8081B	
4,4'-DDT	ND	2.24	4.47	ug/kg dry	1	10/26/20 19:58	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*47 %*	*Limits: 42-129 %*	*1*	*10/26/20 19:58*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*99 %*	*55-130 %*	*1*	*10/26/20 19:58*	*EPA 8081B*	
USMPDI-006SG-201010 (A0J0371-03RE1)				**Matrix: SE**		**Batch: 0100834**		**C-05**
2,4'-DDD	ND	4.20	4.20	ug/kg dry	1	10/26/20 18:52	EPA 8081B	
2,4'-DDE	ND	4.20	4.20	ug/kg dry	1	10/26/20 18:52	EPA 8081B	
2,4'-DDT	ND	4.20	4.20	ug/kg dry	1	10/26/20 18:52	EPA 8081B	
4,4'-DDD	**6.16**	2.10	4.20	ug/kg dry	1	10/26/20 18:52	EPA 8081B	**P-11**
4,4'-DDE	ND	4.20	4.20	ug/kg dry	1	10/26/20 18:52	EPA 8081B	
4,4'-DDT	ND	4.20	4.20	ug/kg dry	1	10/26/20 18:52	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*52 %*	*Limits: 42-129 %*	*1*	*10/26/20 18:52*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*103 %*	*55-130 %*	*1*	*10/26/20 18:52*	*EPA 8081B*	
USMPDI-011SG-201011 (A0J0371-04RE1)				**Matrix: SE**		**Batch: 0100834**		**C-05**
2,4'-DDD	**66.6**	4.17	8.34	ug/kg dry	2	10/26/20 19:08	EPA 8081B	
2,4'-DDE	**27.5**	4.17	8.34	ug/kg dry	2	10/26/20 19:08	EPA 8081B	
2,4'-DDT	ND	4.17	8.34	ug/kg dry	2	10/26/20 19:08	EPA 8081B	
4,4'-DDD	**181**	4.17	8.34	ug/kg dry	2	10/26/20 19:08	EPA 8081B	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
USMPDI-011SG-201011 (A0J0371-04RE1)				**Matrix: SE**		**Batch: 0100834**		**C-05**
4,4'-DDE	ND	24.2	24.2	ug/kg dry	2	10/26/20 19:08	EPA 8081B	R-02
4,4'-DDT	**11.2**	4.17	8.34	ug/kg dry	2	10/26/20 19:08	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 65 %*		*Limits: 42-129 %*	*2*	*10/26/20 19:08*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*100 %*	*55-130 %*	*2*	*10/26/20 19:08*	*EPA 8081B*	
USMPDI-012SG-201010 (A0J0371-05RE1)				**Matrix: SE**		**Batch: 0100834**		**C-05**
2,4'-DDD	ND	2.35	4.69	ug/kg dry	1	10/26/20 19:25	EPA 8081B	
2,4'-DDE	ND	4.69	4.69	ug/kg dry	1	10/26/20 19:25	EPA 8081B	
2,4'-DDT	ND	2.35	4.69	ug/kg dry	1	10/26/20 19:25	EPA 8081B	
4,4'-DDD	**3.71**	2.35	4.69	ug/kg dry	1	10/26/20 19:25	EPA 8081B	**J**
4,4'-DDE	ND	4.69	4.69	ug/kg dry	1	10/26/20 19:25	EPA 8081B	
4,4'-DDT	ND	2.35	4.69	ug/kg dry	1	10/26/20 19:25	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 53 %*		*Limits: 42-129 %*	*1*	*10/26/20 19:25*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*84 %*	*55-130 %*	*1*	*10/26/20 19:25*	*EPA 8081B*	
USMPDI-021SG-201010 (A0J0371-06RE1)				**Matrix: SE**		**Batch: 0100834**		**C-05**
2,4'-DDD	ND	5.17	5.17	ug/kg dry	1	10/26/20 19:41	EPA 8081B	
2,4'-DDE	ND	5.17	5.17	ug/kg dry	1	10/26/20 19:41	EPA 8081B	
2,4'-DDT	ND	2.59	5.17	ug/kg dry	1	10/26/20 19:41	EPA 8081B	
4,4'-DDD	**3.98**	2.59	5.17	ug/kg dry	1	10/26/20 19:41	EPA 8081B	**J**
4,4'-DDE	ND	2.59	5.17	ug/kg dry	1	10/26/20 19:41	EPA 8081B	
4,4'-DDT	ND	2.59	5.17	ug/kg dry	1	10/26/20 19:41	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 51 %*		*Limits: 42-129 %*	*1*	*10/26/20 19:41*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*86 %*	*55-130 %*	*1*	*10/26/20 19:41*	*EPA 8081B*	
USMPDI-023SG-201010 (A0J0371-07RE2)				**Matrix: SE**		**Batch: 0100834**		**C-05**
2,4'-DDD	ND	2.52	5.04	ug/kg dry	1	10/27/20 14:09	EPA 8081B	
2,4'-DDE	ND	2.52	5.04	ug/kg dry	1	10/27/20 14:09	EPA 8081B	
2,4'-DDT	ND	2.52	5.04	ug/kg dry	1	10/27/20 14:09	EPA 8081B	
4,4'-DDD	**2.92**	2.52	5.04	ug/kg dry	1	10/27/20 14:09	EPA 8081B	**J, P-11**
4,4'-DDE	ND	2.52	5.04	ug/kg dry	1	10/27/20 14:09	EPA 8081B	
4,4'-DDT	ND	2.52	5.04	ug/kg dry	1	10/27/20 14:09	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery: 47 %*		*Limits: 42-129 %*	*1*	*10/27/20 14:09*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*66 %*	*55-130 %*	*1*	*10/27/20 14:09*	*EPA 8081B*	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
USMPDI-039SG-201010 (A0J0371-08RE2)				**Matrix: SE**		**Batch: 0100834**		**C-05**
2,4'-DDD	ND	5.05	5.05	ug/kg dry	1	10/27/20 14:58	EPA 8081B	
2,4'-DDE	ND	5.05	5.05	ug/kg dry	1	10/27/20 14:58	EPA 8081B	
2,4'-DDT	ND	2.53	5.05	ug/kg dry	1	10/27/20 14:58	EPA 8081B	
4,4'-DDD	ND	6.57	6.57	ug/kg dry	1	10/27/20 14:58	EPA 8081B	R-02
4,4'-DDE	ND	5.05	5.05	ug/kg dry	1	10/27/20 14:58	EPA 8081B	
4,4'-DDT	ND	2.53	5.05	ug/kg dry	1	10/27/20 14:58	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 52 %*	*Limits: 42-129 %*	*1*	*10/27/20 14:58*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*86 %*	*55-130 %*	*1*	*10/27/20 14:58*	*EPA 8081B*	
USMPDI-1039SG-201010 (A0J0371-09RE1)				**Matrix: SE**		**Batch: 0100834**		**C-05**
2,4'-DDD	ND	5.19	5.19	ug/kg dry	1	10/27/20 15:15	EPA 8081B	R-02
2,4'-DDE	ND	7.42	7.42	ug/kg dry	1	10/27/20 15:15	EPA 8081B	R-02
2,4'-DDT	ND	2.47	4.94	ug/kg dry	1	10/27/20 15:15	EPA 8081B	
4,4'-DDD	ND	7.17	7.17	ug/kg dry	1	10/27/20 15:15	EPA 8081B	R-02
4,4'-DDE	ND	4.94	4.94	ug/kg dry	1	10/27/20 15:15	EPA 8081B	
4,4'-DDT	**9.81**	2.47	4.94	ug/kg dry	1	10/27/20 15:15	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 51 %*	*Limits: 42-129 %*	*1*	*10/27/20 15:15*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*70 %*	*55-130 %*	*1*	*10/27/20 15:15*	*EPA 8081B*	
USMPDI-045SG-201010 (A0J0371-10RE1)				**Matrix: SE**		**Batch: 0100834**		**C-05**
2,4'-DDD	ND	7.75	7.75	ug/kg dry	1	10/27/20 15:31	EPA 8081B	R-02
2,4'-DDE	ND	9.00	9.00	ug/kg dry	1	10/27/20 15:31	EPA 8081B	R-02
2,4'-DDT	ND	5.00	5.00	ug/kg dry	1	10/27/20 15:31	EPA 8081B	
4,4'-DDD	ND	9.25	9.25	ug/kg dry	1	10/27/20 15:31	EPA 8081B	R-02
4,4'-DDE	ND	6.25	6.25	ug/kg dry	1	10/27/20 15:31	EPA 8081B	R-02
4,4'-DDT	ND	5.00	5.00	ug/kg dry	1	10/27/20 15:31	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)			*Recovery: 50 %*	*Limits: 42-129 %*	*1*	*10/27/20 15:31*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*76 %*	*55-130 %*	*1*	*10/27/20 15:31*	*EPA 8081B*	

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
USMPDI-003SG-201011 (A0J0371-02)				**Matrix: SE**		**Batch: 0100764**		
Acenaphthene	ND	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	
Acenaphthylene	ND	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	
Anthracene	ND	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	
Benz(a)anthracene	**444**	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	**J**
Benzo(a)pyrene	**749**	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	
Benzo(b)fluoranthene	**634**	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	
Benzo(k)fluoranthene	ND	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	
Benzo(g,h,i)perylene	**553**	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	**J**
Chrysene	**489**	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	**J**
Dibenz(a,h)anthracene	ND	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	
Fluoranthene	**927**	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	
Fluorene	ND	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	
Indeno(1,2,3-cd)pyrene	**478**	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	**J**
2-Methylnaphthalene	ND	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	
Naphthalene	ND	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	
Phenanthrene	**544**	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	**J**
Pyrene	**1010**	282	564	ug/kg dry	100	10/22/20 20:22	EPA 8270E	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*66 %*	*Limits: 44-120 %*	*100*	*10/22/20 20:22*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*84 %*	*54-127 %*	*100*	*10/22/20 20:22*	*EPA 8270E*	*S-05*
USMPDI-012SG-201010 (A0J0371-05RE1)				**Matrix: SE**		**Batch: 0100764**		
Acenaphthene	**366**	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Acenaphthylene	ND	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Anthracene	**141**	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	**J**
Benz(a)anthracene	**223**	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	**J**
Benzo(a)pyrene	**335**	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Benzo(b)fluoranthene	**281**	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Benzo(k)fluoranthene	ND	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Benzo(g,h,i)perylene	**282**	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Chrysene	**266**	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Dibenz(a,h)anthracene	ND	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Fluoranthene	**822**	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Fluorene	**147**	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	**J**

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

Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
USMPDI-012SG-201010 (A0J0371-05RE1)				**Matrix: SE**		**Batch: 0100764**		
Indeno(1,2,3-cd)pyrene	**230**	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	**J**
2-Methylnaphthalene	ND	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Naphthalene	ND	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Phenanthrene	**991**	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Pyrene	**842**	123	246	ug/kg dry	40	10/23/20 15:00	EPA 8270E	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*70 %*	*Limits: 44-120 %*	*40*	*10/23/20 15:00*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*92 %*	*54-127 %*	*40*	*10/23/20 15:00*	*EPA 8270E*	*S-05*
USMPDI-021SG-201010 (A0J0371-06)				**Matrix: SE**		**Batch: 0100764**		
Acenaphthene	ND	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	
Acenaphthylene	ND	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	
Anthracene	ND	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	
Benz(a)anthracene	**419**	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	**J**
Benzo(a)pyrene	**669**	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	
Benzo(b)fluoranthene	**551**	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	**J**
Benzo(k)fluoranthene	ND	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	
Benzo(g,h,i)perylene	**481**	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	**J**
Chrysene	**487**	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	**J**
Dibenz(a,h)anthracene	ND	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	
Fluoranthene	**815**	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	
Fluorene	ND	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	
Indeno(1,2,3-cd)pyrene	**400**	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	**J**
2-Methylnaphthalene	ND	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	
Naphthalene	ND	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	
Phenanthrene	**509**	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	**J**
Pyrene	**1010**	327	653	ug/kg dry	100	10/22/20 21:26	EPA 8270E	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*64 %*	*Limits: 44-120 %*	*100*	*10/22/20 21:26*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*95 %*	*54-127 %*	*100*	*10/22/20 21:26*	*EPA 8270E*	*S-05*
USMPDI-045SG-201010 (A0J0371-10)				**Matrix: SE**		**Batch: 0100764**		
Acenaphthene	ND	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Acenaphthylene	ND	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Anthracene	**396**	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	**J**

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
USMPDI-045SG-201010 (A0J0371-10)				**Matrix: SE**		**Batch: 0100764**		
Benz(a)anthracene	**1570**	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Benzo(a)pyrene	**2840**	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Benzo(b)fluoranthene	**2290**	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Benzo(k)fluoranthene	**811**	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	**M-05**
Benzo(g,h,i)perylene	**1980**	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Chrysene	**1970**	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Dibenz(a,h)anthracene	ND	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Fluoranthene	**2200**	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Fluorene	ND	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Indeno(1,2,3-cd)pyrene	**1630**	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
2-Methylnaphthalene	ND	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Naphthalene	**639**	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Phenanthrene	**1150**	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Pyrene	**2590**	311	623	ug/kg dry	100	10/22/20 19:18	EPA 8270E	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*67 %*	*Limits: 44-120 %*	*100*	*10/22/20 19:18*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*85 %*	*54-127 %*	*100*	*10/22/20 19:18*	*EPA 8270E*	*S-05*

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
USMPDI-001SG-201011 (A0J0371-01RE1)				**Matrix: SE**		**Batch: 0100374**		
Total Cyanide	**1.21**	0.121	0.242	mg/kg dry	1	10/15/20 15:16	D7511-12	
USMPDI-003SG-201011 (A0J0371-02RE1)				**Matrix: SE**		**Batch: 0100374**		
Total Cyanide	**1.18**	0.114	0.228	mg/kg dry	1	10/15/20 15:18	D7511-12	
USMPDI-006SG-201010 (A0J0371-03RE1)				**Matrix: SE**		**Batch: 0100374**		
Total Cyanide	**0.975**	0.107	0.213	mg/kg dry	1	10/15/20 15:22	D7511-12	
USMPDI-011SG-201011 (A0J0371-04)				**Matrix: SE**		**Batch: 0100374**		
Total Cyanide	**9.96**	1.06	2.11	mg/kg dry	10	10/15/20 14:22	D7511-12	
USMPDI-012SG-201010 (A0J0371-05RE1)				**Matrix: SE**		**Batch: 0100374**		
Total Cyanide	**1.31**	0.121	0.243	mg/kg dry	1	10/15/20 15:24	D7511-12	
USMPDI-021SG-201010 (A0J0371-06RE1)				**Matrix: SE**		**Batch: 0100374**		
Total Cyanide	**1.32**	0.129	0.258	mg/kg dry	1	10/15/20 15:26	D7511-12	
USMPDI-023SG-201010 (A0J0371-07RE1)				**Matrix: SE**		**Batch: 0100374**		
Total Cyanide	**2.02**	0.128	0.257	mg/kg dry	1	10/15/20 15:37	D7511-12	
USMPDI-039SG-201010 (A0J0371-08RE2)				**Matrix: SE**		**Batch: 0100374**		
Total Cyanide	**5.00**	0.265	0.530	mg/kg dry	2	10/15/20 16:15	D7511-12	
USMPDI-1039SG-201010 (A0J0371-09RE1)				**Matrix: SE**		**Batch: 0100374**		
Total Cyanide	**4.17**	0.263	0.525	mg/kg dry	2	10/15/20 15:47	D7511-12	
USMPDI-045SG-201010 (A0J0371-10RE1)				**Matrix: SE**		**Batch: 0100374**		
Total Cyanide	**11.8**	1.26	2.51	mg/kg dry	10	10/15/20 15:49	D7511-12	

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

ANALYTICAL SAMPLE RESULTS

Demand Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
USMPDI-001SG-201011 (A0J0371-01)				**Matrix: SE**				
Batch: 0100457								
Total Organic Carbon	**2.3**	---	0.049	% dry	1	10/16/20 12:12	PSEP_SM 5310B MOD	
USMPDI-003SG-201011 (A0J0371-02)				**Matrix: SE**				
Batch: 0100457								
Total Organic Carbon	**2.2**	---	0.047	% dry	1	10/16/20 12:44	PSEP_SM 5310B MOD	
USMPDI-006SG-201010 (A0J0371-03)				**Matrix: SE**				
Batch: 0100457								
Total Organic Carbon	**1.8**	---	0.043	% dry	1	10/16/20 12:55	PSEP_SM 5310B MOD	
USMPDI-011SG-201011 (A0J0371-04)				**Matrix: SE**				
Batch: 0100457								
Total Organic Carbon	**2.2**	---	0.043	% dry	1	10/16/20 13:06	PSEP_SM 5310B MOD	
USMPDI-012SG-201010 (A0J0371-05)				**Matrix: SE**				
Batch: 0100457								
Total Organic Carbon	**2.4**	---	0.049	% dry	1	10/16/20 13:17	PSEP_SM 5310B MOD	
USMPDI-021SG-201010 (A0J0371-06)				**Matrix: SE**				
Batch: 0100457								
Total Organic Carbon	**2.5**	---	0.053	% dry	1	10/16/20 13:28	PSEP_SM 5310B MOD	
USMPDI-023SG-201010 (A0J0371-07)				**Matrix: SE**				
Batch: 0100457								
Total Organic Carbon	**2.4**	---	0.052	% dry	1	10/16/20 14:00	PSEP_SM 5310B MOD	
USMPDI-039SG-201010 (A0J0371-08)				**Matrix: SE**				
Batch: 0100457								
Total Organic Carbon	**2.7**	---	0.053	% dry	1	10/16/20 14:22	PSEP_SM 5310B MOD	

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Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

ANALYTICAL SAMPLE RESULTS

Demand Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
USMPDI-1039SG-201010 (A0J0371-09)				**Matrix: SE**				
Batch: 0100457								
Total Organic Carbon	**2.7**	---	0.053	% dry	1	10/16/20 14:32	PSEP_SM 5310B MOD	
USMPDI-045SG-201010 (A0J0371-10)				**Matrix: SE**				
Batch: 0100457								
Total Organic Carbon	**2.7**	---	0.051	% dry	1	10/16/20 14:43	PSEP_SM 5310B MOD	

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ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
USMPDI-001SG-201011 (A0J0371-01)				**Matrix: SE**				
Batch: 0100456								
Total Solids	**40.8**	---	1.00	%	1	10/15/20 14:45	SM 2540 G	
USMPDI-003SG-201011 (A0J0371-02)				**Matrix: SE**				
Batch: 0100456								
Total Solids	**42.8**	---	1.00	%	1	10/15/20 14:45	SM 2540 G	
USMPDI-006SG-201010 (A0J0371-03)				**Matrix: SE**				
Batch: 0100456								
Total Solids	**46.4**	---	1.00	%	1	10/15/20 14:45	SM 2540 G	
USMPDI-011SG-201011 (A0J0371-04)				**Matrix: SE**				
Batch: 0100456								
Total Solids	**46.5**	---	1.00	%	1	10/15/20 14:45	SM 2540 G	
USMPDI-012SG-201010 (A0J0371-05)				**Matrix: SE**				
Batch: 0100456								
Total Solids	**40.6**	---	1.00	%	1	10/15/20 14:45	SM 2540 G	
USMPDI-021SG-201010 (A0J0371-06)				**Matrix: SE**				
Batch: 0100456								
Total Solids	**38.0**	---	1.00	%	1	10/15/20 14:45	SM 2540 G	
USMPDI-023SG-201010 (A0J0371-07)				**Matrix: SE**				
Batch: 0100456								
Total Solids	**38.3**	---	1.00	%	1	10/16/20 09:59	SM 2540 G	
USMPDI-039SG-201010 (A0J0371-08)				**Matrix: SE**				
Batch: 0100456								
Total Solids	**37.7**	---	1.00	%	1	10/15/20 14:45	SM 2540 G	
USMPDI-1039SG-201010 (A0J0371-09)				**Matrix: SE**				
Batch: 0100456								
Total Solids	**37.5**	---	1.00	%	1	10/15/20 14:45	SM 2540 G	
USMPDI-045SG-201010 (A0J0371-10)				**Matrix: SE**				
Batch: 0100456								

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Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
USMPDI-045SG-201010 (A0J0371-10)				**Matrix: SE**				
Total Solids	**39.5**	---	1.00	%	1	10/15/20 14:45	SM 2540 G	

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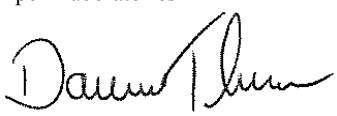

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QUALITY CONTROL (QC) SAMPLE RESULTS

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 0100834 - EPA 3546							**Sediment**					
Blank (0100834-BLK1)			Prepared: 10/23/20 16:05		Analyzed: 10/26/20 15:17							**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: 56 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*93 %*		*55-130 %*			*"*				
LCS (0100834-BS1)			Prepared: 10/23/20 16:05		Analyzed: 10/26/20 15:33							**C-05**
EPA 8081B												
2,4'-DDD	51.6	1.00	2.00	ug/kg wet	1	50.0	---	103	58-128%	---	---	
2,4'-DDE	47.0	1.00	2.00	ug/kg wet	1	50.0	---	94	49-125%	---	---	
2,4'-DDT	50.6	1.00	2.00	ug/kg wet	1	50.0	---	101	66-145%	---	---	
4,4'-DDD	47.3	1.00	2.00	ug/kg wet	1	50.0	---	95	56-139%	---	---	
4,4'-DDE	48.1	1.00	2.00	ug/kg wet	1	50.0	---	96	56-134%	---	---	
4,4'-DDT	50.1	1.00	2.00	ug/kg wet	1	50.0	---	100	50-141%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 72 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*104 %*		*55-130 %*			*"*				
Duplicate (0100834-DUP1)			Prepared: 10/23/20 16:05		Analyzed: 10/26/20 16:06							**C-05**
QC Source Sample: Non-SDG (A0J0344-01RE1)												
2,4'-DDD	ND	10.9	10.9	ug/kg dry	1	---	ND	---	---	---	30%	R-02
2,4'-DDE	ND	7.16	7.16	ug/kg dry	1	---	ND	---	---	---	30%	R-02
2,4'-DDT	ND	5.51	5.51	ug/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDD	**3.64**	2.75	5.51	ug/kg dry	1	---	4.08	---	---	12	30%	P-11, J
4,4'-DDE	ND	5.51	5.51	ug/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDT	ND	2.75	5.51	ug/kg dry	1	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 65 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*90 %*		*55-130 %*			*"*				
Matrix Spike (0100834-MS2)			Prepared: 10/23/20 16:06		Analyzed: 10/27/20 14:25							**C-05**

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Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

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 0100834 - EPA 3546							**Sediment**					
Matrix Spike (0100834-MS2)			Prepared: 10/23/20 16:06		Analyzed: 10/27/20 14:25							**C-05**
QC Source Sample: USMPDI-023SG-201010 (A0J0371-07RE2)												
EPA 8081B												
2,4'-DDD	120	2.50	5.00	ug/kg dry	1	125	ND	96	58-128%	---	---	
2,4'-DDE	111	2.50	5.00	ug/kg dry	1	125	ND	89	49-125%	---	---	
2,4'-DDT	121	2.50	5.00	ug/kg dry	1	125	ND	97	66-145%	---	---	
4,4'-DDD	112	2.50	5.00	ug/kg dry	1	125	2.92	87	56-139%	---	---	
4,4'-DDE	112	2.50	5.00	ug/kg dry	1	125	ND	90	56-134%	---	---	
4,4'-DDT	121	2.50	5.00	ug/kg dry	1	125	ND	97	50-141%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 49 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*73 %*		*55-130 %*			*"*				
Matrix Spike Dup (0100834-MSD2)			Prepared: 10/23/20 16:06		Analyzed: 10/27/20 14:42							**C-05**
QC Source Sample: USMPDI-023SG-201010 (A0J0371-07RE2)												
EPA 8081B												
2,4'-DDD	128	2.50	4.99	ug/kg dry	1	125	ND	102	58-128%	6	30%	
2,4'-DDE	114	2.50	4.99	ug/kg dry	1	125	ND	91	49-125%	3	30%	
2,4'-DDT	125	2.50	4.99	ug/kg dry	1	125	ND	100	66-145%	4	30%	
4,4'-DDD	123	2.50	4.99	ug/kg dry	1	125	2.92	96	56-139%	9	30%	
4,4'-DDE	122	2.50	4.99	ug/kg dry	1	125	ND	98	56-134%	8	30%	
4,4'-DDT	131	2.50	4.99	ug/kg dry	1	125	ND	105	50-141%	8	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 47 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*82 %*		*55-130 %*			*"*				

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

Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0100764 - EPA 3546							**Sediment**					
Blank (0100764-BLK1)			Prepared: 10/22/20 10:40 Analyzed: 10/22/20 17:09									
EPA 8270E												
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	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
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: 44-120 %*			*Dilution: 1x*					
p-Terphenyl-d14 (Surr)			*108 %*	*54-127 %*			*"*					
LCS (0100764-BS1)			Prepared: 10/22/20 10:40 Analyzed: 10/22/20 17:41									
EPA 8270E												
Acenaphthene	19.8	1.25	2.50	ug/kg wet	1	20.0	---	99	40-123%	---	---	
Acenaphthylene	20.5	1.25	2.50	ug/kg wet	1	20.0	---	103	32-132%	---	---	
Anthracene	21.4	1.25	2.50	ug/kg wet	1	20.0	---	107	47-123%	---	---	
Benz(a)anthracene	19.5	1.25	2.50	ug/kg wet	1	20.0	---	97	49-126%	---	---	
Benzo(a)pyrene	22.7	1.25	2.50	ug/kg wet	1	20.0	---	114	45-129%	---	---	
Benzo(b)fluoranthene	20.1	1.25	2.50	ug/kg wet	1	20.0	---	101	45-132%	---	---	
Benzo(k)fluoranthene	19.8	1.25	2.50	ug/kg wet	1	20.0	---	99	47-132%	---	---	
Benzo(g,h,i)perylene	18.7	1.25	2.50	ug/kg wet	1	20.0	---	94	43-134%	---	---	
Chrysene	19.7	1.25	2.50	ug/kg wet	1	20.0	---	98	50-124%	---	---	
Dibenz(a,h)anthracene	18.3	1.25	2.50	ug/kg wet	1	20.0	---	92	45-134%	---	---	
Fluoranthene	20.3	1.25	2.50	ug/kg wet	1	20.0	---	101	50-127%	---	---	

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

Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0100764 - EPA 3546							**Sediment**					
LCS (0100764-BS1)			Prepared: 10/22/20 10:40 Analyzed: 10/22/20 17:41									
Fluorene	21.4	1.25	2.50	ug/kg wet	1	20.0	---	107	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	17.2	1.25	2.50	ug/kg wet	1	20.0	---	86	45-133%	---	---	
2-Methylnaphthalene	20.2	1.25	2.50	ug/kg wet	1	20.0	---	101	38-122%	---	---	
Naphthalene	18.6	1.25	2.50	ug/kg wet	1	20.0	---	93	35-123%	---	---	
Phenanthrene	19.3	1.25	2.50	ug/kg wet	1	20.0	---	96	50-121%	---	---	
Pyrene	19.3	1.25	2.50	ug/kg wet	1	20.0	---	97	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 94 %*	*Limits: 44-120 %*			*Dilution: 1x*					
p-Terphenyl-d14 (Surr)			*106 %*	*54-127 %*			*"*					
Duplicate (0100764-DUP1)			Prepared: 10/22/20 10:40 Analyzed: 10/22/20 18:46									
QC Source Sample: Non-SDG (A0J0344-07)												
Acenaphthene	**1600**	638	1280	ug/kg dry	200	---	747	---	---	**73**	**30%**	Q-04
Acenaphthylene	**789**	638	1280	ug/kg dry	200	---	ND	---	---		**30%**	Q-04, J
Anthracene	**2600**	638	1280	ug/kg dry	200	---	1460	---	---	**56**	**30%**	Q-04
Benz(a)anthracene	**7250**	638	1280	ug/kg dry	200	---	4010	---	---	**57**	**30%**	Q-04
Benzo(a)pyrene	**11000**	638	1280	ug/kg dry	200	---	5840	---	---	**61**	**30%**	Q-04
Benzo(b)fluoranthene	**9570**	638	1280	ug/kg dry	200	---	4530	---	---	**71**	**30%**	Q-04
Benzo(k)fluoranthene	**3430**	638	1280	ug/kg dry	200	---	1630	---	---	**71**	**30%**	M-05, Q-04
Benzo(g,h,i)perylene	**7080**	638	1280	ug/kg dry	200	---	3990	---	---	**56**	**30%**	Q-04
Chrysene	**8220**	638	1280	ug/kg dry	200	---	4970	---	---	**49**	**30%**	Q-04
Dibenz(a,h)anthracene	**870**	638	1280	ug/kg dry	200	---	ND	---	---		**30%**	Q-04, J
Fluoranthene	**13700**	638	1280	ug/kg dry	200	---	6910	---	---	**66**	**30%**	Q-04
Fluorene	**1060**	638	1280	ug/kg dry	200	---	ND	---	---		**30%**	Q-04, J
Indeno(1,2,3-cd)pyrene	**6160**	638	1280	ug/kg dry	200	---	3200	---	---	**63**	**30%**	Q-04
2-Methylnaphthalene	**809**	638	1280	ug/kg dry	200	---	ND	---	---		**30%**	Q-04, J
Naphthalene	**1870**	638	1280	ug/kg dry	200	---	994	---	---	**61**	**30%**	Q-04
Phenanthrene	**7860**	638	1280	ug/kg dry	200	---	4510	---	---	**54**	**30%**	Q-04
Pyrene	**14100**	638	1280	ug/kg dry	200	---	8730	---	---	**47**	**30%**	Q-04
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 74 %*	*Limits: 44-120 %*			*Dilution: 200x*					S-05
p-Terphenyl-d14 (Surr)			*98 %*	*54-127 %*			*"*					S-05
Matrix Spike (0100764-MS1)			Prepared: 10/22/20 10:40 Analyzed: 10/22/20 19:50									
QC Source Sample: USMPDI-045SG-201010 (A0J0371-10)												

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ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0100764 - EPA 3546							**Sediment**					
Matrix Spike (0100764-MS1)				Prepared: 10/22/20 10:40 Analyzed: 10/22/20 19:50								
QC Source Sample: USMPDI-045SG-201010 (A0J0371-10)												
EPA 8270E												
Acenaphthene	ND	310	619	ug/kg dry	100	49.5	ND		**40-123%**	---	---	Q-11
Acenaphthylene	ND	310	619	ug/kg dry	100	49.5	ND		**32-132%**	---	---	Q-11
Anthracene	462	310	619	ug/kg dry	100	49.5	396	**133**	**47-123%**	---	---	Q-11, J
Benz(a)anthracene	1110	310	619	ug/kg dry	100	49.5	1570	**-929**	**49-126%**	---	---	Q-11
Benzo(a)pyrene	1610	310	619	ug/kg dry	100	49.5	2840	**-2490**	**45-129%**	---	---	Q-11
Benzo(b)fluoranthene	1370	310	619	ug/kg dry	100	49.5	2290	**-1860**	**45-132%**	---	---	Q-11
Benzo(k)fluoranthene	480	310	619	ug/kg dry	100	49.5	811	**-667**	**47-132%**	---	---	Q-11, J
Benzo(g,h,i)perylene	1110	310	619	ug/kg dry	100	49.5	1980	**-1760**	**43-134%**	---	---	Q-11
Chrysene	1330	310	619	ug/kg dry	100	49.5	1970	**-1300**	**50-124%**	---	---	Q-11
Dibenz(a,h)anthracene	ND	310	619	ug/kg dry	100	49.5	ND		**45-134%**	---	---	Q-11
Fluoranthene	2110	310	619	ug/kg dry	100	49.5	2200	**-181**	**50-127%**	---	---	Q-11
Fluorene	ND	310	619	ug/kg dry	100	49.5	ND		**43-125%**	---	---	Q-11
Indeno(1,2,3-cd)pyrene	930	310	619	ug/kg dry	100	49.5	1630	**-1420**	**45-133%**	---	---	Q-11
2-Methylnaphthalene	ND	310	619	ug/kg dry	100	49.5	ND		**38-122%**	---	---	Q-11
Naphthalene	ND	310	619	ug/kg dry	100	49.5	639	**-1290**	**35-123%**	---	---	Q-11
Phenanthrene	1340	310	619	ug/kg dry	100	49.5	1150	**394**	**50-121%**	---	---	Q-11
Pyrene	2370	310	619	ug/kg dry	100	49.5	2590	**-453**	**47-127%**	---	---	Q-11
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 74 %*	*Limits: 44-120 %*			*Dilution: 100x*					S-05
p-Terphenyl-d14 (Surr)			*95 %*	*54-127 %*			*"*					S-05

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0100374 - ASTM D7511-12mod (S)							**Soil**					
Blank (0100374-BLK1)			Prepared: 10/12/20 09:51		Analyzed: 10/15/20 13:12							
D7511-12												
Total Cyanide	ND	0.0500	0.100	mg/kg wet	1	---	---	---	---	---	---	
LCS (0100374-BS1)			Prepared: 10/12/20 09:51		Analyzed: 10/15/20 13:14							
D7511-12												
Total Cyanide	0.395	0.0500	0.100	mg/kg wet	1	0.400	---	99	84-116%	---	---	
Matrix Spike (0100374-MS1)			Prepared: 10/12/20 09:51		Analyzed: 10/15/20 14:02							
QC Source Sample: Non-SDG (A0J0278-06)												
D7511-12												
Total Cyanide	0.254	0.0560	0.112	mg/kg dry	1	0.448	0.0584	**44**	**64-136%**	---	---	Q-04
Matrix Spike (0100374-MS3)			Prepared: 10/12/20 14:33		Analyzed: 10/15/20 15:39							
QC Source Sample: USMPDI-023SG-201010 (A0J0371-07)												
D7511-12												
Total Cyanide	2.59	0.129	0.259	mg/kg dry	1	1.04	2.40	**18**	**64-136%**	---	---	Q-04, Q-16
Matrix Spike Dup (0100374-MSD1)			Prepared: 10/12/20 09:51		Analyzed: 10/15/20 14:04							
QC Source Sample: Non-SDG (A0J0278-06)												
Total Cyanide	0.385	0.0554	0.111	mg/kg dry	1	0.443	0.0584	74	64-136%	41	47%	
Matrix Spike Dup (0100374-MSD3)			Prepared: 10/12/20 14:33		Analyzed: 10/15/20 15:41							
QC Source Sample: USMPDI-023SG-201010 (A0J0371-07)												
D7511-12												
Total Cyanide	1.98	0.130	0.259	mg/kg dry	1	1.04	2.40	**-40**	**64-136%**	26	47%	Q-04, Q-16

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Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

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 0100457 - PSEP-5310B TOC							**Soil**					
Blank (0100457-BLK1)			Prepared: 10/14/20 09:59		Analyzed: 10/16/20 11:50							
PSEP_SM 5310B MOD												
Total Organic Carbon	ND	---	0.020	% wet	1	---	---	---	---	---	---	
LCS (0100457-BS1)			Prepared: 10/14/20 09:59		Analyzed: 10/16/20 12:01							
PSEP_SM 5310B MOD												
Total Organic Carbon	9600	---		mg/kg	1	10000	---	96	88-111%	---	---	
Duplicate (0100457-DUP1)			Prepared: 10/14/20 09:59		Analyzed: 10/16/20 12:23							
QC Source Sample: USMPDI-001SG-201011 (A0J0371-01)												
PSEP_SM 5310B MOD												
Total Organic Carbon	**2.3**	---	0.049	% dry	1	---	2.3	---	---	0.5	27%	
Duplicate (0100457-DUP2)			Prepared: 10/14/20 09:59		Analyzed: 10/16/20 12:34							
QC Source Sample: USMPDI-001SG-201011 (A0J0371-01)												
PSEP_SM 5310B MOD												
Total Organic Carbon	**2.3**	---	0.049	% dry	1	---	2.3	---	---	2	27%	
Duplicate (0100457-DUP3)			Prepared: 10/14/20 09:59		Analyzed: 10/16/20 14:11							
QC Source Sample: USMPDI-023SG-201010 (A0J0371-07)												
PSEP_SM 5310B MOD												
Total Organic Carbon	**2.5**	---	0.052	% dry	1	---	2.4	---	---	5	27%	

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

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 0100456 - Total Solids (SM2540G/PSEP)							**Sediment**					
Duplicate (0100456-DUP1)			Prepared: 10/14/20 10:00		Analyzed: 10/15/20 14:45							
QC Source Sample: USMPDI-023SG-201010 (A0J0371-07)												
SM 2540 G												
Total Solids	**37.9**	---	1.00	%	1	---	38.3	---	---	1	10%	
Duplicate (0100456-DUP2)			Prepared: 10/14/20 10:00		Analyzed: 10/15/20 14:45							
QC Source Sample: Non-SDG (A0J0472-06)												
Total Solids	**44.9**	---	1.00	%	1	---	46.3	---	---	3	10%	

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Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0100834							
A0J0371-01RE1	SE	EPA 8081B	10/11/20 12:41	10/23/20 16:05	10.26g/10mL	10g/5mL	1.95
A0J0371-02RE1	SE	EPA 8081B	10/11/20 10:53	10/23/20 16:05	10.44g/10mL	10g/5mL	1.92
A0J0371-03RE1	SE	EPA 8081B	10/10/20 15:46	10/23/20 16:05	10.26g/10mL	10g/5mL	1.95
A0J0371-04RE1	SE	EPA 8081B	10/11/20 15:37	10/23/20 16:05	10.32g/10mL	10g/5mL	1.94
A0J0371-05RE1	SE	EPA 8081B	10/10/20 14:25	10/23/20 16:05	10.5g/10mL	10g/5mL	1.90
A0J0371-06RE1	SE	EPA 8081B	10/10/20 12:20	10/23/20 16:05	10.16g/10mL	10g/5mL	1.97
A0J0371-07RE2	SE	EPA 8081B	10/10/20 11:14	10/23/20 16:05	10.35g/10mL	10g/5mL	1.93
A0J0371-08RE2	SE	EPA 8081B	10/10/20 10:39	10/23/20 16:05	10.5g/10mL	10g/5mL	1.90
A0J0371-09RE1	SE	EPA 8081B	10/10/20 10:39	10/23/20 16:05	10.79g/10mL	10g/5mL	1.85
A0J0371-10RE1	SE	EPA 8081B	10/10/20 09:18	10/23/20 16:05	10.13g/10mL	10g/5mL	1.97

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0100764							
A0J0371-02	SE	EPA 8270E	10/11/20 10:53	10/22/20 10:40	10.34g/5mL	10g/5mL	0.97
A0J0371-05RE1	SE	EPA 8270E	10/10/20 14:25	10/22/20 10:40	10.01g/5mL	10g/5mL	1.00
A0J0371-06	SE	EPA 8270E	10/10/20 12:20	10/22/20 10:40	10.06g/5mL	10g/5mL	0.99
A0J0371-10	SE	EPA 8270E	10/10/20 09:18	10/22/20 10:40	10.17g/5mL	10g/5mL	0.98

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0100374							
A0J0371-01RE1	SE	D7511-12	10/11/20 12:41	10/12/20 14:33	2.5314g/50mL	2.5g/50mL	0.99
A0J0371-02RE1	SE	D7511-12	10/11/20 10:53	10/12/20 14:33	2.554g/50mL	2.5g/50mL	0.98
A0J0371-03RE1	SE	D7511-12	10/10/20 15:46	10/12/20 14:33	2.5295g/50mL	2.5g/50mL	0.99
A0J0371-04	SE	D7511-12	10/11/20 15:37	10/12/20 14:33	2.5449g/50mL	2.5g/50mL	0.98
A0J0371-05RE1	SE	D7511-12	10/10/20 14:25	10/12/20 14:33	2.5395g/50mL	2.5g/50mL	0.98
A0J0371-06RE1	SE	D7511-12	10/10/20 12:20	10/12/20 14:33	2.5506g/50mL	2.5g/50mL	0.98
A0J0371-07RE1	SE	D7511-12	10/10/20 11:14	10/12/20 14:33	2.5429g/50mL	2.5g/50mL	0.98
A0J0371-08RE2	SE	D7511-12	10/10/20 10:39	10/12/20 14:33	2.5027g/50mL	2.5g/50mL	1.00
A0J0371-09RE1	SE	D7511-12	10/10/20 10:39	10/12/20 14:33	2.5391g/50mL	2.5g/50mL	0.99
A0J0371-10RE1	SE	D7511-12	10/10/20 09:18	10/12/20 14:33	2.5192g/50mL	2.5g/50mL	0.99

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC

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

Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

SAMPLE PREPARATION INFORMATION

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Demand Parameters

Prep: PSEP-5310B TOC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0100457							
A0J0371-01	SE	PSEP_SM 5310B MOD	10/11/20 12:41	10/14/20 09:59			NA
A0J0371-02	SE	PSEP_SM 5310B MOD	10/11/20 10:53	10/14/20 09:59			NA
A0J0371-03	SE	PSEP_SM 5310B MOD	10/10/20 15:46	10/14/20 09:59			NA
A0J0371-04	SE	PSEP_SM 5310B MOD	10/11/20 15:37	10/14/20 09:59			NA
A0J0371-05	SE	PSEP_SM 5310B MOD	10/10/20 14:25	10/14/20 09:59			NA
A0J0371-06	SE	PSEP_SM 5310B MOD	10/10/20 12:20	10/14/20 09:59			NA
A0J0371-07	SE	PSEP_SM 5310B MOD	10/10/20 11:14	10/14/20 09:59			NA
A0J0371-08	SE	PSEP_SM 5310B MOD	10/10/20 10:39	10/14/20 09:59			NA
A0J0371-09	SE	PSEP_SM 5310B MOD	10/10/20 10:39	10/14/20 09:59			NA
A0J0371-10	SE	PSEP_SM 5310B MOD	10/10/20 09:18	10/14/20 09:59			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: 0100456							
A0J0371-01	SE	SM 2540 G	10/11/20 12:41	10/14/20 10:00			NA
A0J0371-02	SE	SM 2540 G	10/11/20 10:53	10/14/20 10:00			NA
A0J0371-03	SE	SM 2540 G	10/10/20 15:46	10/14/20 10:00			NA
A0J0371-04	SE	SM 2540 G	10/11/20 15:37	10/14/20 10:00			NA
A0J0371-05	SE	SM 2540 G	10/10/20 14:25	10/14/20 10:00			NA
A0J0371-06	SE	SM 2540 G	10/10/20 12:20	10/14/20 10:00			NA
A0J0371-07	SE	SM 2540 G	10/10/20 11:14	10/14/20 10:00			NA
A0J0371-08	SE	SM 2540 G	10/10/20 10:39	10/14/20 10:00			NA
A0J0371-09	SE	SM 2540 G	10/10/20 10:39	10/14/20 10:00			NA
A0J0371-10	SE	SM 2540 G	10/10/20 09:18	10/14/20 10:00			NA

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6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

SAMPLE PREPARATION INFORMATION

Solid and Moisture Determinations

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QUALIFIER DEFINITIONS

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

Apex Laboratories

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.
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-11	Result estimated. Secondary column confirmation does not meet method criteria due to matrix interference.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
Q-11	Spike recovery cannot be accurately quantified due to sample dilution required for high analyte concentration and/or matrix interference.
Q-16	Reanalysis of an original Batch QC sample.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

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: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

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: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

LABORATORY ACCREDITATION INFORMATION

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

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

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

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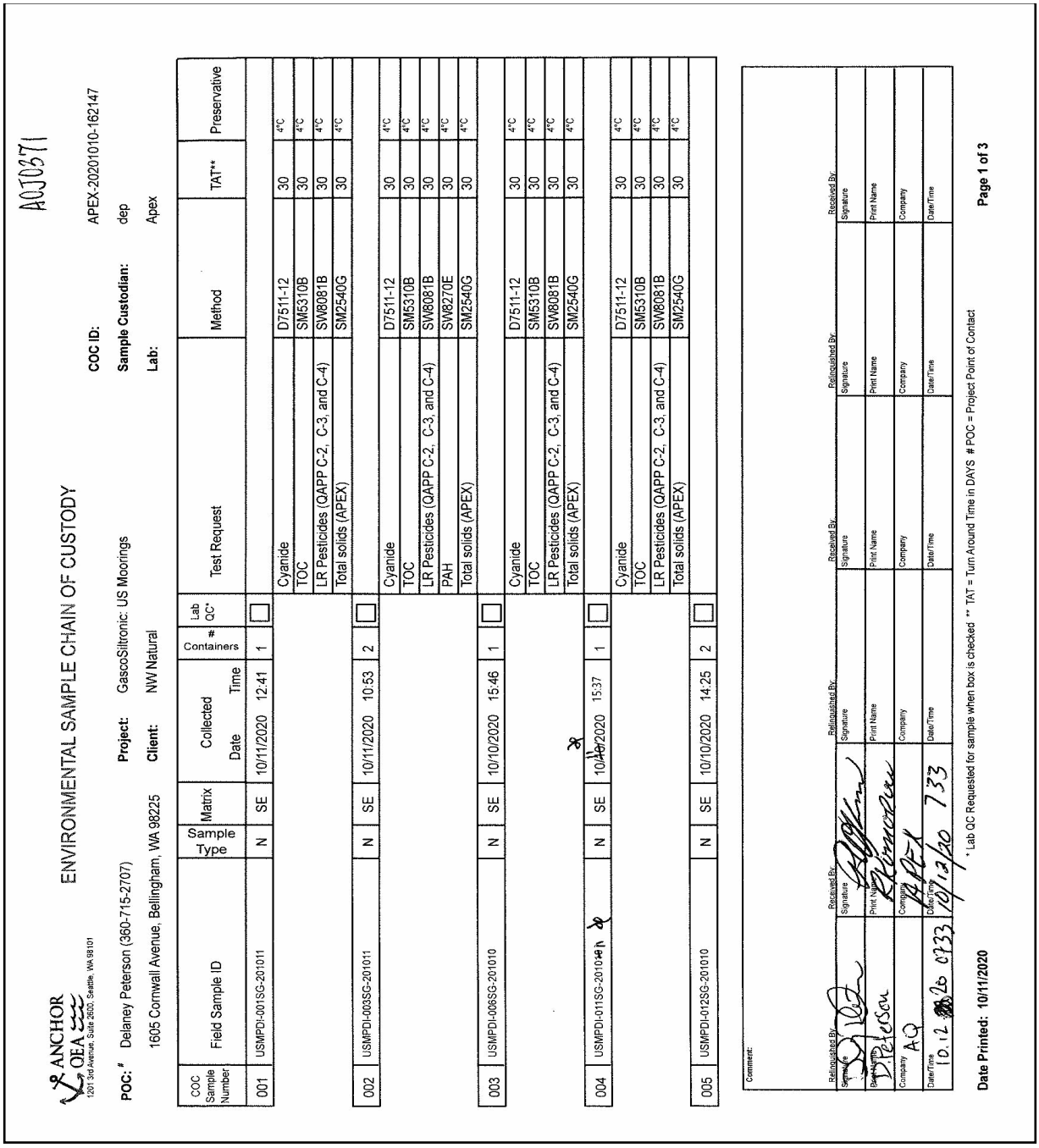

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A0J0371

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: APEX-20201010-162147
Sample Custodian: dep
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-001SG-201011	N	SE	10/11/2020	12:41	1	☐	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
002	USMPDI-003SG-201011	N	SE	10/11/2020	10:53	2	☐	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								PAH	SW8270E	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
003	USMPDI-006SG-201010	N	SE	10/10/2020	15:46	1	☐	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
004	USMPDI-011SG-201010	N	SE	10/10/2020	15:37	1	☐	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
005	USMPDI-012SG-201010	N	SE	10/10/2020	14:25	2	☐				

Comment:

Relinquished By: Signature / Print Name: DPeterson / Company: AQ / Date/Time: 10.12.20 0733
Received By: Signature / Print Name: RKimmerer / Company: APEX / Date/Time: 10/12/20 733
Relinquished By: Signature / Print Name / Company / Date/Time
Received By: Signature / Print Name / Company / Date/Time
Relinquished By: Signature / Print Name / Company / Date/Time
Received By: Signature / Print Name / Company / Date/Time

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

Page 1 of 3

Date Printed: 10/11/2020

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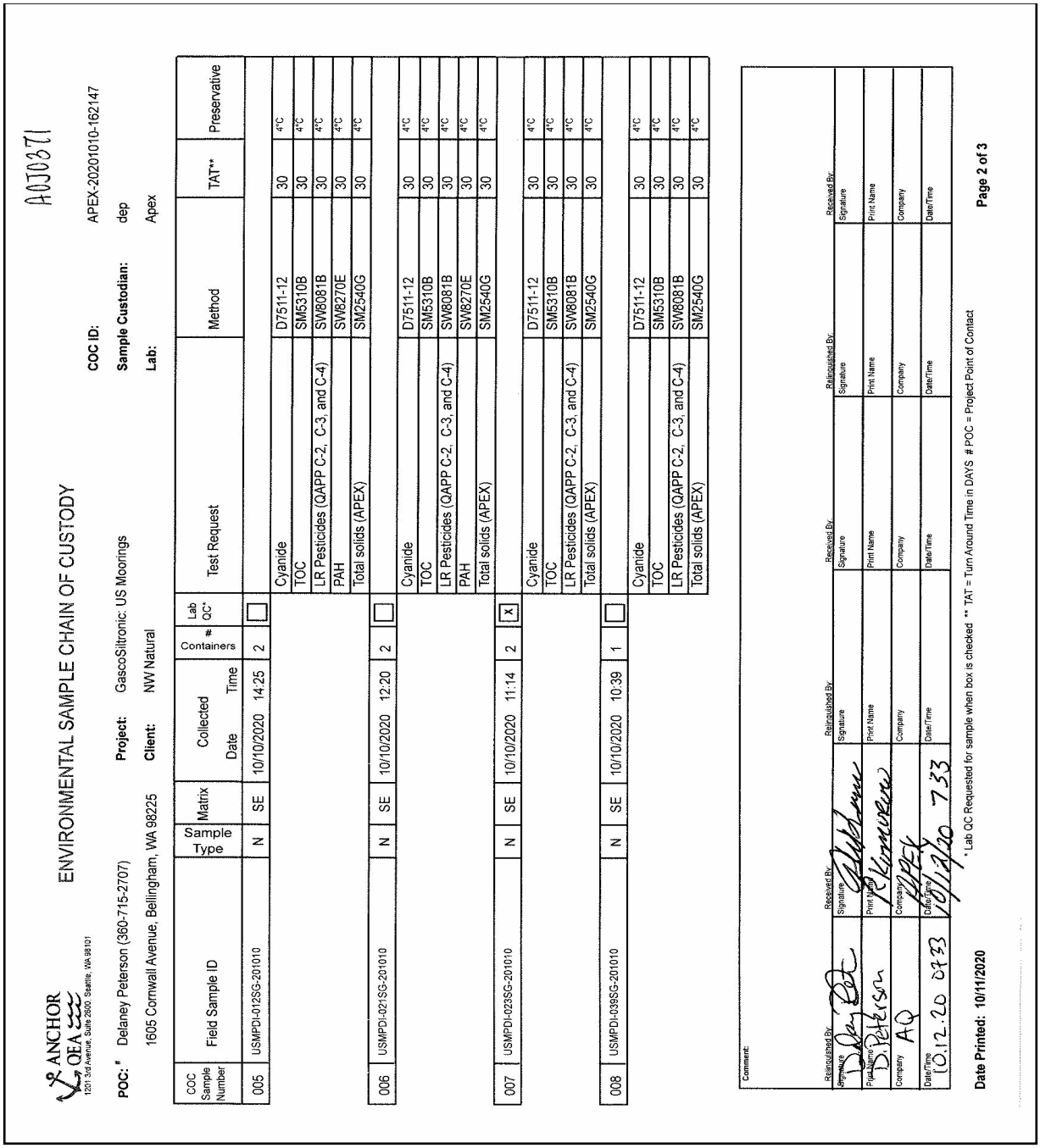
Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**



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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A0J0371

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: APEX-20201010-162147
Sample Custodian: dep
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
005	USMPDI-012SG-201010	N	SE	10/10/2020	14:25	2	☐	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								PAH	SW8270E	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
006	USMPDI-021SG-201010	N	SE	10/10/2020	12:20	2	☐	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								PAH	SW8270E	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
007	USMPDI-023SG-201010	N	SE	10/10/2020	11:14	2	☒	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
008	USMPDI-039SG-201010	N	SE	10/10/2020	10:39	1	☐	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Print Name: D. Peterson	Print Name: R Kinnunen	Print Name:	Print Name:	Print Name:	Print Name:
Company: AQ	Company: APEX	Company:	Company:	Company:	Company:
Date/Time: 10.12.20 0733	Date/Time: 10/12/20 733	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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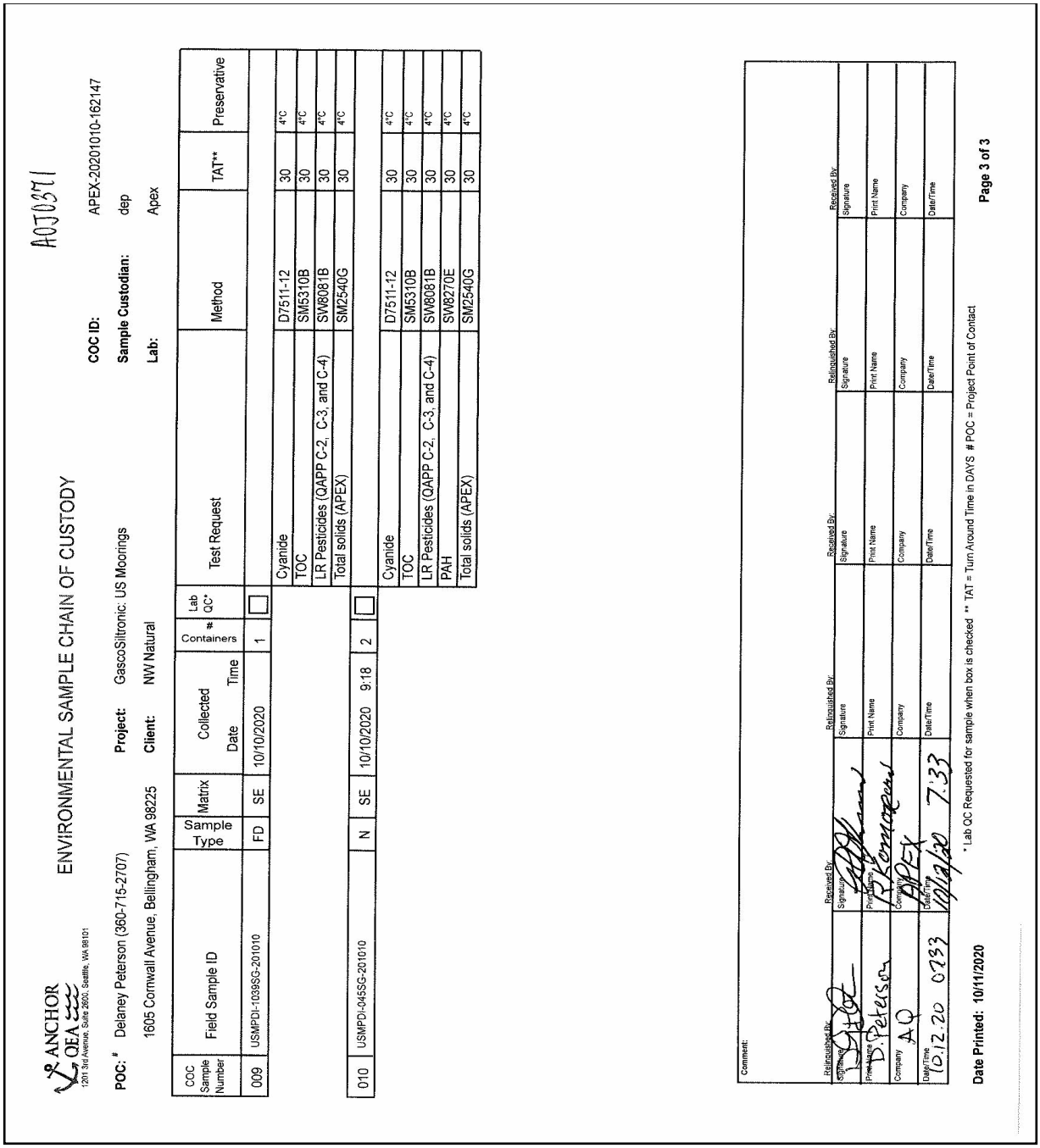
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**



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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A0J0371

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: APEX-20201010-162147
Sample Custodian: dep
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
009	USMPDI-1039SG-201010	FD	SE	10/10/2020		1	☐	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
010	USMPDI-0455G-201010	N	SE	10/10/2020	9:18	2	☐	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								PAH	SW8270E	30	4°C
								Total solids (APEX)	SM2540G	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name D. Peterson	Print Name	Print Name	Print Name	Print Name	Print Name
Company AQ	Company APEX	Company	Company	Company	Company
Date/Time 10.12.20 0733	Date/Time 10/13/20 7:33	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: 10/11/2020

Page 3 of 3

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
ORELAP ID: **OR100062**

Anchor QEA, LLC	Project: **US Moorings -- C2, C3, C4**	
6720 SW Macadam Ave. Suite 125	Project Number: **[none]**	**Report ID:**
Portland, OR 97219	Project Manager: **Delaney Peterson**	**A0J0371 - 11 16 20 0552**

APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA Element WO#: A0 J0371

Project/Project #: Glasco Siltronic : US Moorings

Delivery Info:

Date/time received: 10/12/20 @ 7:33 By: RK

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

Cooler Inspection Date/time inspected: 10/12/20 @ 13:15 By: KMS

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

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)	3.6	5.0					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	Y	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: 10/12/20 @ 1328 By: BC

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes X No ___ Comments: No T on CoC USMPD1-1039SG-201012, container reads T of 1039

COC/container discrepancies form initiated? Yes ___ No X

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

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

Comments ___

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

Comments: ___

Additional information: ___

Labeled by: Witness: Cooler Inspected by: See Project Contact Form: Y

Apex Laboratories

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

Darwin Thomas, Business Development Director

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

A0J0371

Apex Laboratories

Client:	**Anchor QEA, LLC**	**Project Manager:**	**Darwin Thomas**
Project:	**US Moorings -- C2, C3, C4**	**Project Number:**	**[none]**

Report To:

Anchor QEA, LLC
Delaney Peterson
6720 SW Macadam Ave. Suite 125
Portland, OR 97219
Phone: (360) 733-4311
Fax: na

Invoice To:

Anchor QEA, LLC
Delaney Peterson
6720 SW Macadam Ave. Suite 125
Portland, OR 97219
Phone :(360) 733-4311
Fax: na

Date Due:	10/26/20 17:00 (10 day TAT)		
Received By:	Russ Komorow	Date Received:	10/12/20 07:33
Logged In By:	Susan L. Treat	Date Logged In:	10/12/20 13:33

Cooler #1 received at 3.6°C

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

Cooler #2 received at 5.0°C

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

Analysis	Due	TAT	Expires	Comments
A0J0371-01 USMPDI-001SG-201011 [Sediment] Sampled 10/11/20 12:41				
(GMT-08:00) Pacific Time (US & Canada) 1 Containers				
Dry Weight				
Dry Weight	10/15/20 17:00	3	04/09/21 12:41	use TS data, make non-reportabla
Project Mgmt				
Data Package	12/02/20 17:00	10	01/18/21 12:41	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/25/20 12:41	
Wet Chem				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/25/20 12:41	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/09/21 12:41	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/08/20 12:41	5310C is completed; added 10/26, 2 d
~~Total Organic Carbon - Soil (5310 B)~~	10/23/20 17:00	10	11/08/20 12:41	

A0J0371

Apex Laboratories

Client:	**Anchor QEA, LLC**	**Project Manager:**	**Darwin Thomas**
Project:	**US Moorings -- C2, C3, C4**	**Project Number:**	**[none]**

Analysis	Due	TAT	Expires	Comments

Analysis	Due	TAT	Expires	Comments

A0J0371-02 USMPDI-003SG-201011 [Sediment] Sampled 10/11/20 10:53
(GMT-08:00) Pacific Time (US & Canada) 2 Containers

Dry Weight				
Dry Weight	10/15/20 17:00	3	04/09/21 10:53	use TS data, make non-reportabla
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/25/20 10:53	
Semivols (Scan)				
8270E LL PAH Only (Scan)	10/23/20 17:00	10	10/25/20 10:53	
Wet Chem				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/25/20 10:53	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/09/21 10:53	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/08/20 10:53	5310C is completed; added 10/26, 2 d
~~Total Organic Carbon - Soil (5310 B)~~	10/23/20 17:00	10	11/08/20 10:53	

A0J0371-03 USMPDI-006SG-201010 [Sediment] Sampled 10/10/20 15:46
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Dry Weight				
Dry Weight	10/15/20 17:00	3	04/08/21 15:46	use TS data, make non-reportabla
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/24/20 15:46	
Wet Chem				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/24/20 15:46	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/08/21 15:46	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/07/20 15:46	5310C is completed; added 10/26, 2 d
~~Total Organic Carbon - Soil (5310 B)~~	10/23/20 17:00	10	11/07/20 15:46	

A0J0371-04 USMPDI-011SG-201011 [Sediment] Sampled 10/11/20 15:37
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Dry Weight				
Dry Weight	10/15/20 17:00	3	04/09/21 15:37	use TS data, make non-reportabla
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/25/20 15:37	
Wet Chem				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/25/20 15:37	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/09/21 15:37	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/08/20 15:37	5310C is completed; added 10/26, 2 d
~~Total Organic Carbon - Soil (5310 B)~~	10/23/20 17:00	10	11/08/20 15:37	

A0J0371

Apex Laboratories

Client:	**Anchor QEA, LLC**	**Project Manager:**	**Darwin Thomas**
Project:	**US Moorings -- C2, C3, C4**	**Project Number:**	**[none]**

Analysis	Due	TAT	Expires	Comments

Analysis	Due	TAT	Expires	Comments

A0J0371-05 USMPDI-012SG-201010 [Sediment] Sampled 10/10/20 14:25
(GMT-08:00) Pacific Time (US & Canada) 2 Containers

Dry Weight				
Dry Weight	10/15/20 17:00	3	04/08/21 14:25	use TS data, make non-reportabla
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/24/20 14:25	
Semivols (Scan)				
8270E LL PAH Only (Scan)	10/23/20 17:00	10	10/24/20 14:25	
Wet Chem				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/24/20 14:25	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/08/21 14:25	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/07/20 14:25	5310C is completed; added 10/26, 2 d
~~Total Organic Carbon - Soil (5310 B)~~	10/23/20 17:00	10	11/07/20 14:25	

A0J0371-06 USMPDI-021SG-201010 [Sediment] Sampled 10/10/20 12:20
(GMT-08:00) Pacific Time (US & Canada) 2 Containers

Dry Weight				
Dry Weight	10/15/20 17:00	3	04/08/21 12:20	use TS data, make non-reportabla
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/24/20 12:20	
Semivols (Scan)				
8270E LL PAH Only (Scan)	10/23/20 17:00	10	10/24/20 12:20	
Wet Chem				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/24/20 12:20	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/08/21 12:20	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/07/20 12:20	5310C is completed; added 10/26, 2 d
~~Total Organic Carbon - Soil (5310 B)~~	10/23/20 17:00	10	11/07/20 12:20	

A0J0371-07 USMPDI-023SG-201010 [Sediment] Sampled 10/10/20 11:14
(GMT-08:00) Pacific Time (US & Canada) 2 Containers

Dry Weight				
Dry Weight	10/15/20 17:00	3	04/08/21 11:14	use TS data, make non-reportabla
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/24/20 11:14	MS/MSD
Wet Chem				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/24/20 11:14	MS/MSD
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/08/21 11:14	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/07/20 11:14	5310C is completed; added 10/26, 2 d
~~Total Organic Carbon - Soil (5310 B)~~	10/23/20 17:00	10	11/07/20 11:14	Dup this sample

A0J0371

Apex Laboratories

Client:	**Anchor QEA, LLC**	**Project Manager:**	**Darwin Thomas**
Project:	**US Moorings -- C2, C3, C4**	**Project Number:**	**[none]**

Analysis	Due	TAT	Expires	Comments

Analysis	Due	TAT	Expires	Comments

A0J0371-08 USMPDI-039SG-201010 [Sediment] Sampled 10/10/20 10:39
(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Dry Weight				
Dry Weight	10/15/20 17:00	3	04/08/21 10:39	use TS data, make non-reportabla
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/24/20 10:39	
Wet Chem				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/24/20 10:39	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/08/21 10:39	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/07/20 10:39	5310C is completed; added 10/26, 2 d
~~Total Organic Carbon - Soil (5310 B)~~	10/23/20 17:00	10	11/07/20 10:39	

A0J0371-09 USMPDI-1039SG-201010 [Sediment] Sampled 10/10/20 10:39
No T on CoC, container reads T of 1039

(GMT-08:00) Pacific Time (US & Canada) 1 Containers

Dry Weight				
Dry Weight	10/15/20 17:00	3	04/08/21 10:39	use TS data, make non-reportabla
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/24/20 10:39	
Wet Chem				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/24/20 10:39	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/08/21 10:39	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/07/20 10:39	5310C is completed; added 10/26, 2 d
~~Total Organic Carbon - Soil (5310 B)~~	10/23/20 17:00	10	11/07/20 10:39	

A0J0371-10 USMPDI-045SG-201010 [Sediment] Sampled 10/10/20 09:18
(GMT-08:00) Pacific Time (US & Canada) 2 Containers

Dry Weight				
Dry Weight	10/15/20 17:00	3	04/08/21 09:18	use TS data, make non-reportabla
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/24/20 09:18	
Semivols (Scan)				
8270E LL PAH Only (Scan)	10/23/20 17:00	10	10/24/20 09:18	
Wet Chem				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/24/20 09:18	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/08/21 09:18	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/07/20 09:18	5310C is completed; added 10/26, 2 d
~~Total Organic Carbon - Soil (5310 B)~~	10/23/20 17:00	10	11/07/20 09:18	

Reviewed By

Date

A0J0371

Apex Laboratories

Client:	**Anchor QEA, LLC**	**Project Manager:**	**Darwin Thomas**
Project:	**US Moorings -- C2, C3, C4**	**Project Number:**	**[none]**

Reviewed By

Date

AOJ0371

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: APEX-20201010-162147

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: dep
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-001SG-201011	N	SE	10/11/2020	12:41	1	☐				
								Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
002	USMPDI-003SG-201011	N	SE	10/11/2020	10:53	2	☐				
								Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								PAH	SW8270E	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
003	USMPDI-006SG-201010	N	SE	10/10/2020	15:46	1	☐				
								Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
004	USMPDI-011SG-2010~~10~~11	N	SE	10/~~10~~11/2020	15:37	1	☐				
								Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
005	USMPDI-012SG-201010	N	SE	10/10/2020	14:25	2	☐				

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: D. Peterson	Print Name: R Kinnaman	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company: APEX	Company	Company	Company	Company
Date/Time: 10.12.20 0733	Date/Time: 10/12/20 733	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: 10/11/2020

A0J0371

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: APEX-20201010-162147

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: dep
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
005	USMPDI-012SG-201010	N	SE	10/10/2020	14:25	2	☐				
								Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								PAH	SW8270E	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
006	USMPDI-021SG-201010	N	SE	10/10/2020	12:20	2	☐				
								Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								PAH	SW8270E	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
007	USMPDI-023SG-201010	N	SE	10/10/2020	11:14	2	X				
								Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
008	USMPDI-039SG-201010	N	SE	10/10/2020	10:39	1	☐				
								Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: [signature]	Signature: [signature]	Signature	Signature	Signature	Signature
Print Name: D. Peterson	Print Name: R Kimmerer	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company: APEX	Company	Company	Company	Company
Date/Time: 10.12.20 0733	Date/Time: 10/12/20 733	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: 10/11/2020

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

AOJ0371

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: APEX-20201010-162147

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: dep
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
009	USMPDI-1039SG-201010	FD	SE	10/10/2020		1	☐				
								Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
010	USMPDI-045SG-201010	N	SE	10/10/2020	9:18	2	☐				
								Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								PAH	SW8270E	30	4°C
								Total solids (APEX)	SM2540G	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name D. Peterson	Print Name R Komorowski	Print Name	Print Name	Print Name	Print Name
Company AQ	Company APEX	Company	Company	Company	Company
Date/Time 10.12.20 0733	Date/Time 10/12/20 7:33	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: 10/11/2020

APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA Element WO#: A0 J0371

Project/Project #: Gasco Siltronic: US Moorings

Delivery Info:

Date/time received: 10/12/20 @ 7:33 By: RK

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

Cooler Inspection Date/time inspected: 10/12/20 @ 13:15 By: KMS

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

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)	3.6	5.0					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	Y	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: 10/12/20 @ 1328 By: (8)

All samples intact? Yes X No ___ Comments: ___

Bottle labels/COCs agree? Yes X No ___ Comments: No Tom CoC USMPD1-1039SG-201012, container reads T of 1039

COC/container discrepancies form initiated? Yes ___ No X

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

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

Comments ___

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

Comments: ___

Additional information: ___

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

CLP-Like Forms

Apex Laboratories

SDG: A0J0371

CLASS: GC

METHOD: EPA 8081B

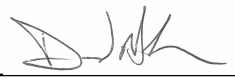
ANALYSES DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4

Client Sample Id:	Lab Sample Id:	Matrix
USMPDI-001SG-201011	A0J0371-01	SE
USMPDI-003SG-201011	A0J0371-02	SE
USMPDI-006SG-201010	A0J0371-03	SE
USMPDI-011SG-201011	A0J0371-04	SE
USMPDI-012SG-201010	A0J0371-05	SE
USMPDI-021SG-201010	A0J0371-06	SE
USMPDI-023SG-201010	A0J0371-07	SE
USMPDI-039SG-201010	A0J0371-08	SE
USMPDI-1039SG-201010	A0J0371-09	SE
USMPDI-045SG-201010	A0J0371-10	SE

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: 11/23/2020 2:11PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: Apex Laboratories **SDG:** A0J0371

Client: Anchor QEA, LLC **Project:** US Moorings -- C2, C3, C4

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 [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

USMPDI-001SG-201011

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	SE	Laboratory ID:	A0J0371-01RE1	File ID:	ECD8-10262025.D
Sampled:	10/11/20 12:41	Prepared:	10/23/20 16:05	Analyzed:	10/26/20 18:35
Solids:	40.84	Preparation:	EPA 3546	Initial/Final:	10.26 g / 10 mL
Batch:	0100834	Sequence:	0J26061	Calibration:	A0J2107
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	2.39	U
3424-82-6	2,4'-DDE	1	2.39	U
789-02-6	2,4'-DDT [2C]	1	2.39	U
72-54-8	4,4'-DDD [2C]	1	4.77	U
72-55-9	4,4'-DDE [2C]	1	4.77	U
50-29-3	4,4'-DDT [2C]	1	2.39	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	119	76.9	64	42 - 129	
Decachlorobiphenyl (Surr) [2C]	119	113	95	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-003SG-201011

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	SE	Laboratory ID:	A0J0371-02RE1	File ID:	ECD8-10262030.D
Sampled:	10/11/20 10:53	Prepared:	10/23/20 16:05	Analyzed:	10/26/20 19:58
Solids:	42.85	Preparation:	EPA 3546	Initial/Final:	10.44 g / 10 mL
Batch:	0100834	Sequence:	0J26061	Calibration:	A0J2107
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	4.69	U
3424-82-6	2,4'-DDE	1	4.47	U
789-02-6	2,4'-DDT [2C]	1	2.24	U
72-54-8	4,4'-DDD [2C]	1	8.87	
72-55-9	4,4'-DDE [2C]	1	4.47	U
50-29-3	4,4'-DDT	1	2.24	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	112	53.0	47	42 - 129	
Decachlorobiphenyl (Surr) [2C]	112	110	99	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-006SG-201010

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	SE	Laboratory ID:	A0J0371-03RE1	File ID:	ECD8-10262026.D
Sampled:	10/10/20 15:46	Prepared:	10/23/20 16:05	Analyzed:	10/26/20 18:52
Solids:	46.36	Preparation:	EPA 3546	Initial/Final:	10.26 g / 10 mL
Batch:	0100834	Sequence:	0J26061	Calibration:	A0J2107
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	4.20	U
3424-82-6	2,4'-DDE	1	4.20	U
789-02-6	2,4'-DDT	1	4.20	U
72-54-8	4,4'-DDD [2C]	1	6.16	
72-55-9	4,4'-DDE [2C]	1	4.20	U
50-29-3	4,4'-DDT	1	4.20	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	105	54.4	52	42 - 129	
Decachlorobiphenyl (Surr) [2C]	105	108	103	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-011SG-201011

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	SE	Laboratory ID:	A0J0371-04RE1	File ID:	ECD8-10262027.D
Sampled:	10/11/20 15:37	Prepared:	10/23/20 16:05	Analyzed:	10/26/20 19:08
Solids:	46.49	Preparation:	EPA 3546	Initial/Final:	10.32 g / 10 mL
Batch:	0100834	Sequence:	0J26061	Calibration:	A0J2107
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	2	66.6	D
3424-82-6	2,4'-DDE [2C]	2	27.5	D
789-02-6	2,4'-DDT	2	4.17	U
72-54-8	4,4'-DDD [2C]	2	181	D
72-55-9	4,4'-DDE	2	24.2	U
50-29-3	4,4'-DDT	2	11.2	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	104	67.5	65	42 - 129	
Decachlorobiphenyl (Surr) [2C]	104	104	100	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-012SG-201010

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	SE	Laboratory ID:	A0J0371-05RE1	File ID:	ECD8-10262028.D
Sampled:	10/10/20 14:25	Prepared:	10/23/20 16:05	Analyzed:	10/26/20 19:25
Solids:	40.59	Preparation:	EPA 3546	Initial/Final:	10.5 g / 10 mL
Batch:	0100834	Sequence:	0J26061	Calibration:	A0J2107
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	2.35	U
3424-82-6	2,4'-DDE [2C]	1	4.69	U
789-02-6	2,4'-DDT [2C]	1	2.35	U
72-54-8	4,4'-DDD [2C]	1	3.71	J
72-55-9	4,4'-DDE [2C]	1	4.69	U
50-29-3	4,4'-DDT [2C]	1	2.35	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	117	62.0	53	42 - 129	
Decachlorobiphenyl (Surr) [2C]	117	99.1	84	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-021SG-201010

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	SE	Laboratory ID:	A0J0371-06RE1	File ID:	ECD8-10262029.D
Sampled:	10/10/20 12:20	Prepared:	10/23/20 16:05	Analyzed:	10/26/20 19:41
Solids:	38.05	Preparation:	EPA 3546	Initial/Final:	10.16 g / 10 mL
Batch:	0100834	Sequence:	0J26061	Calibration:	A0J2107
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	5.17	U
3424-82-6	2,4'-DDE [2C]	1	5.17	U
789-02-6	2,4'-DDT [2C]	1	2.59	U
72-54-8	4,4'-DDD [2C]	1	3.98	J
72-55-9	4,4'-DDE [2C]	1	2.59	U
50-29-3	4,4'-DDT [2C]	1	2.59	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	129	66.3	51	42 - 129	
Decachlorobiphenyl (Surr) [2C]	129	111	86	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-023SG-201010

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	SE	Laboratory ID:	A0J0371-07RE2	File ID:	ECD8-10272011.D
Sampled:	10/10/20 11:14	Prepared:	10/23/20 16:05	Analyzed:	10/27/20 14:09
Solids:	38.32	Preparation:	EPA 3546	Initial/Final:	10.35 g / 10 mL
Batch:	0100834	Sequence:	0J27055	Calibration:	A0J2107
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	2.52	U
3424-82-6	2,4'-DDE	1	2.52	U
789-02-6	2,4'-DDT [2C]	1	2.52	U
72-54-8	4,4'-DDD [2C]	1	2.92	J
72-55-9	4,4'-DDE [2C]	1	2.52	U
50-29-3	4,4'-DDT [2C]	1	2.52	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	126	59.8	47	42 - 129	
Decachlorobiphenyl (Surr) [2C]	126	83.0	66	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-039SG-201010

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	SE	Laboratory ID:	A0J0371-08RE2	File ID:	ECD8-10272014.D
Sampled:	10/10/20 10:39	Prepared:	10/23/20 16:05	Analyzed:	10/27/20 14:58
Solids:	37.72	Preparation:	EPA 3546	Initial/Final:	10.5 g / 10 mL
Batch:	0100834	Sequence:	0J27055	Calibration:	A0J2107
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	1	5.05	U
3424-82-6	2,4'-DDE [2C]	1	5.05	U
789-02-6	2,4'-DDT [2C]	1	2.53	U
72-54-8	4,4'-DDD [2C]	1	6.57	U
72-55-9	4,4'-DDE [2C]	1	5.05	U
50-29-3	4,4'-DDT	1	2.53	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	126	65.2	52	42 - 129	
Decachlorobiphenyl (Surr) [2C]	126	109	86	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-1039SG-201010

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	SE	Laboratory ID:	A0J0371-09RE1	File ID:	ECD8-10272015.D
Sampled:	10/10/20 10:39	Prepared:	10/23/20 16:05	Analyzed:	10/27/20 15:15
Solids:	37.49	Preparation:	EPA 3546	Initial/Final:	10.79 g / 10 mL
Batch:	0100834	Sequence:	0J27055	Calibration:	A0J2107
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	5.19	U
3424-82-6	2,4'-DDE [2C]	1	7.42	U
789-02-6	2,4'-DDT	1	2.47	U
72-54-8	4,4'-DDD [2C]	1	7.17	U
72-55-9	4,4'-DDE	1	4.94	U
50-29-3	4,4'-DDT	1	9.81	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	124	63.2	51	42 - 129	
Decachlorobiphenyl (Surr) [2C]	124	86.3	70	55 - 130	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-045SG-201010

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	SE	Laboratory ID:	A0J0371-10RE1	File ID:	ECD8-10272016.D
Sampled:	10/10/20 09:18	Prepared:	10/23/20 16:05	Analyzed:	10/27/20 15:31
Solids:	39.47	Preparation:	EPA 3546	Initial/Final:	10.13 g / 10 mL
Batch:	0100834	Sequence:	0J27055	Calibration:	A0J2107
Instrument:	DUALECD8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	7.75	U
3424-82-6	2,4'-DDE [2C]	1	9.00	U
789-02-6	2,4'-DDT	1	5.00	U
72-54-8	4,4'-DDD [2C]	1	9.25	U
72-55-9	4,4'-DDE	1	6.25	U
50-29-3	4,4'-DDT	1	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	125	62.7	50	42 - 129	
Decachlorobiphenyl (Surr) [2C]	125	95.6	76	55 - 130	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Batch: 0100834 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0100834-BLK1	ECD8-10262013.D	10/23/20 16:05	
LCS	0100834-BS1	ECD8-10262014.D	10/23/20 16:05	
USMPDI-023SG-201010 (MS)	0100834-MS2	ECD8-10272012.D	10/23/20 16:06	
USMPDI-023SG-201010 (MSD)	0100834-MSD2	ECD8-10272013.D	10/23/20 16:06	
USMPDI-001SG-201011	A0J0371-01RE1	ECD8-10262025.D	10/23/20 16:05	
USMPDI-003SG-201011	A0J0371-02RE1	ECD8-10262030.D	10/23/20 16:05	
USMPDI-006SG-201010	A0J0371-03RE1	ECD8-10262026.D	10/23/20 16:05	
USMPDI-011SG-201011	A0J0371-04RE1	ECD8-10262027.D	10/23/20 16:05	
USMPDI-012SG-201010	A0J0371-05RE1	ECD8-10262028.D	10/23/20 16:05	
USMPDI-021SG-201010	A0J0371-06RE1	ECD8-10262029.D	10/23/20 16:05	
USMPDI-023SG-201010	A0J0371-07RE2	ECD8-10272011.D	10/23/20 16:05	
USMPDI-039SG-201010	A0J0371-08RE2	ECD8-10272014.D	10/23/20 16:05	
USMPDI-1039SG-201010	A0J0371-09RE1	ECD8-10272015.D	10/23/20 16:05	
USMPDI-045SG-201010	A0J0371-10RE1	ECD8-10272016.D	10/23/20 16:05	

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:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	Sediment	Laboratory ID:	0100834-BLK1	File ID:	ECD8-10262013.D
Prepared:	10/23/20 16:05	Preparation:	EPA 3546	Initial/Final:	11 g / 10 mL
Analyzed:	10/26/20 15:17	Instrument:	DUALECD8		
Batch:	0100834	Sequence:	0J26061	Calibration:	A0J2107

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	25.3	56	42 - 129	
Decachlorobiphenyl (Surr) [2C]	45.5	42.2	93	55 - 130	

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Matrix:	Sediment		
Batch:	0100834	Laboratory ID:	0100834-BS1
Preparation:	EPA 3546	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	51.6	103	58 - 128
2,4'-DDE [2C]	50.0	47.0	94	49 - 125
2,4'-DDT [2C]	50.0	50.6	101	66 - 145
4,4'-DDD [2C]	50.0	47.3	95	56 - 139
4,4'-DDE [2C]	50.0	48.1	96	56 - 134
4,4'-DDT [2C]	50.0	50.1	100	50 - 141

* = Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

USMPDI-023SG-201010

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Matrix:	Sediment		
Batch:	0100834	Laboratory ID:	0100834-MS2
Preparation:	EPA 3546	Initial/Final:	10.44 g / 10 mL

Source Sample Name: USMPDI-023SG-201010

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]	125	ND	120	96	58 - 128
2,4'-DDE	125	ND	111	89	49 - 125
2,4'-DDT [2C]	125	ND	121	97	66 - 145
4,4'-DDD [2C]	125	2.92	112	87	56 - 139
4,4'-DDE [2C]	125	ND	112	90	56 - 134
4,4'-DDT [2C]	125	ND	121	97	50 - 141

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8081B

USMPDI-023SG-201010

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Matrix:	Sediment		
Batch:	0100834	Laboratory ID:	0100834-MSD2
Preparation:	EPA 3546	Initial/Final:	10.45 g / 10 mL

Source Sample Name: USMPDI-023SG-201010

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
2,4'-DDD [2C]	125	128	102	6	30	58 - 128
2,4'-DDE	125	114	91	3	30	49 - 125
2,4'-DDT [2C]	125	125	100	4	30	66 - 145
4,4'-DDD [2C]	125	123	96	9	30	56 - 139
4,4'-DDE [2C]	125	122	98	8	30	56 - 134
4,4'-DDT [2C]	125	131	105	8	30	50 - 141

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J15061	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0J2107

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	0J15061-ICB1	ECD8-10152005.D	10/15/20 18:15
Cal Standard	0J15061-CAL1	ECD8-10152006.D	10/15/20 18:32
Cal Standard	0J15061-CAL2	ECD8-10152007.D	10/15/20 18:48
Cal Standard	0J15061-CAL3	ECD8-10152008.D	10/15/20 19:05
Cal Standard	0J15061-CAL4	ECD8-10152009.D	10/15/20 19:21
Cal Standard	0J15061-CAL5	ECD8-10152010.D	10/15/20 19:38
Cal Standard	0J15061-CAL6	ECD8-10152011.D	10/15/20 19:54
Cal Standard	0J15061-CAL7	ECD8-10152012.D	10/15/20 20:11
Cal Standard	0J15061-CAL8	ECD8-10152013.D	10/15/20 20:27
Cal Standard	0J15061-CAL9	ECD8-10152014.D	10/15/20 20:44
Initial Cal Check	0J15061-ICV1	ECD8-10152016.D	10/15/20 21:17
Cal Standard	0J15061-CALA	ECD8-10152017.D	10/15/20 21:33
Cal Standard	0J15061-CALB	ECD8-10152018.D	10/15/20 21:50
Cal Standard	0J15061-CALC	ECD8-10152019.D	10/15/20 22:06
Cal Standard	0J15061-CALD	ECD8-10152020.D	10/15/20 22:23
Cal Standard	0J15061-CALE	ECD8-10152021.D	10/15/20 22:39
Cal Standard	0J15061-CALF	ECD8-10152022.D	10/15/20 22:56
Cal Standard	0J15061-CALG	ECD8-10152023.D	10/15/20 23:12
Cal Standard	0J15061-CALH	ECD8-10152024.D	10/15/20 23:29
Cal Standard	0J15061-CALI	ECD8-10152025.D	10/15/20 23:46
Initial Cal Check	0J15061-ICV2	ECD8-10152027.D	10/16/20 00:19

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:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J26061	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0J2107

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0J26061-CCV2	ECD8-10262009.D	10/26/20 14:10
Calibration Check	0J26061-CCV3	ECD8-10262010.D	10/26/20 14:27
Calibration Blank	0J26061-CCB1	ECD8-10262011.D	10/26/20 14:43
Blank	0100834-BLK1	ECD8-10262013.D	10/26/20 15:17
LCS	0100834-BS1	ECD8-10262014.D	10/26/20 15:33
Calibration Check	0J26061-CCV4	ECD8-10262020.D	10/26/20 17:12
Calibration Check	0J26061-CCV5	ECD8-10262021.D	10/26/20 17:29
Calibration Blank	0J26061-CCB2	ECD8-10262022.D	10/26/20 17:45
USMPDI-001SG-201011	A0J0371-01RE1	ECD8-10262025.D	10/26/20 18:35
USMPDI-006SG-201010	A0J0371-03RE1	ECD8-10262026.D	10/26/20 18:52
USMPDI-011SG-201011	A0J0371-04RE1	ECD8-10262027.D	10/26/20 19:08
USMPDI-012SG-201010	A0J0371-05RE1	ECD8-10262028.D	10/26/20 19:25
USMPDI-021SG-201010	A0J0371-06RE1	ECD8-10262029.D	10/26/20 19:41
USMPDI-003SG-201011	A0J0371-02RE1	ECD8-10262030.D	10/26/20 19:58
Calibration Check	0J26061-CCV6	ECD8-10262032.D	10/26/20 20:31
Calibration Check	0J26061-CCV7	ECD8-10262033.D	10/26/20 20:47
Calibration Blank	0J26061-CCB3	ECD8-10262034.D	10/26/20 21:04

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:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J27055	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0J2107

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0J27055-CCV1	ECD8-10272004.D	10/27/20 12:13
Calibration Check	0J27055-CCV2	ECD8-10272005.D	10/27/20 12:29
Calibration Blank	0J27055-CCB1	ECD8-10272006.D	10/27/20 12:46
USMPDI-023SG-201010	A0J0371-07RE2	ECD8-10272011.D	10/27/20 14:09
USMPDI-023SG-201010 (MS)	0100834-MS2	ECD8-10272012.D	10/27/20 14:25
USMPDI-023SG-201010 (MSD)	0100834-MSD2	ECD8-10272013.D	10/27/20 14:42
USMPDI-039SG-201010	A0J0371-08RE2	ECD8-10272014.D	10/27/20 14:58
USMPDI-1039SG-201010	A0J0371-09RE1	ECD8-10272015.D	10/27/20 15:15
USMPDI-045SG-201010	A0J0371-10RE1	ECD8-10272016.D	10/27/20 15:31
Calibration Check	0J27055-CCV3	ECD8-10272017.D	10/27/20 15:48
Calibration Check	0J27055-CCV4	ECD8-10272018.D	10/27/20 16:05
Calibration Blank	0J27055-CCB2	ECD8-10272019.D	10/27/20 16:21
Calibration Check	0J27055-CCV5	ECD8-10272034.D	10/27/20 20:48
Calibration Check	0J27055-CCV6	ECD8-10272035.D	10/27/20 21:05
Calibration Blank	0J27055-CCB3	ECD8-10272036.D	10/27/20 21:21

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

INITIAL CALIBRATION DATA (Summary)

EPA 8081B

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Calibration: A0J2107 Date: 10/21/20 12:29 Instrument: DUALECD8

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2,4'-DDD	1921377	Ave	9.626247	8.001889	3.406474E-02			20	
2,4'-DDD [2C]	2253990	XXX	10.67664	8.468556	1.995492E-02				
2,4'-DDE	2126918	Ave	7.999272	7.623	3.690063E-02			20	
2,4'-DDT	2145969	Ave	9.33146	8.181667	0.0248323			20	
2,4'-DDT [2C]	2372054	XXX	12.62514	8.689778	0.0071125				
4,4'-DDD [2C]	3114105	XXX	13.37351	8.733556	2.484861E-02				
4,4'-DDE	3151100	Ave	10.12842	7.874444	4.348044E-02			20	
4,4'-DDE [2C]	3634901	XXX	15.92557	8.320222	2.701346E-02				
4,4'-DDT	2669241	XXX	14.07186	8.499222	1.960454E-02				
4,4'-DDT [2C]	2951307	XXX	20.16933	8.957444	4.518711E-03				
2,4,5,6-TCMX (Surr) [2C]	4000851	Ave	6.026316	5.989889	1.267914E-02			20	
Decachlorobiphenyl (Surr) [2C]	2419306	Ave	8.467837	10.50489	4.088253E-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
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Calibration: A0J2107
Instrument: DUALECD8
Calibration Date: 10/21/20 12:29

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	2676466	1	2561702	2	2554366	5	2463434	10	2560811	25	2715372
4,4'-DDD [2C]	0.5	2920602	1	2804997	2	2726823	5	2746150	10	2943807	25	3074127
4,4'-DDE	0.5	2977348	1	2806594	2	2916029	5	2870674	10	3025077	25	3167186
4,4'-DDE [2C]	0.5	3177518	1	3083622	2	3233695	5	3173250	10	3369230	25	3700062
4,4'-DDT	0.5	2405018	1	2340699	2	2388133	5	2338044	10	2509615	25	2748200
4,4'-DDT [2C]	0.5	2455666	1	2447680	2	2432603	5	2550826	10	2696225	25	3041346
2,4,5,6-TCMX (Surr)	0.5	3928930	1	3675375	2	3487494	5	3391336	10	3378580	25	3464495
2,4,5,6-TCMX (Surr) [2C]	0.5	4189348	1	3996914	2	3763994	5	3696812	10	3769119	25	3900728
Decachlorobiphenyl (Surr)	0.5	3732602	1	3197716	2	2850842	5	2572640	10	2566336	25	2492739
Decachlorobiphenyl (Surr) [2C]	0.5	2821606	1	2586506	2	2395772	5	2256766	10	2221992	25	2250438

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Calibration: A0J2107
Instrument: DUALECD8
Matrix:
Calibration Date: 10/21/20 12:29

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	2250420	1	2191428	2	1841175
2,4'-DDD [2C]							0.5	2638212	1	2545735	2	2064664
2,4'-DDE							0.5	2403006	1	2330761	2	1950579
2,4'-DDE [2C]							0.5	2609542	1	2507932	2	2192344
2,4'-DDT							0.5	2443218	1	2264292	2	1871040
2,4'-DDT [2C]							0.5	2710858	1	2394823	2	1994345
4,4'-DDD	50	2681748	100	3139188	200	3123894						
4,4'-DDD [2C]	50	3264048	100	3619428	200	3926966						
4,4'-DDE	50	3302522	100	3627906	200	3666564						
4,4'-DDE [2C]	50	3914178	100	4401254	200	4661297						
4,4'-DDT	50	2757558	100	3214173	200	3321730						
4,4'-DDT [2C]	50	3168274	100	3736752	200	4032396						
2,4,5,6-TCMX (Surr)	50	3426378	100	3539420	200	3535657						
2,4,5,6-TCMX (Surr) [2C]	50	4046088	100	4257161	200	4387498						
Decachlorobiphenyl (Surr)	50	2431280	100	2543656	200	2544531						
Decachlorobiphenyl (Surr) [2C]	50	2248670	100	2423042	200	2568961						

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Calibration: A0J2107
Instrument: DUALECD8
Matrix:
Calibration Date: 10/21/20 12:29

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	1750274	10	1764873	25	1863625	50	1780154	100	1858274	200	1992166
2,4'-DDD [2C]	5	1987760	10	2043638	25	2135228	50	2155648	100	2226407	200	2488622
2,4'-DDE	5	1915228	10	2016633	25	2088811	50	2067330	100	2101327	200	2268587
2,4'-DDE [2C]	5	2163242	10	2214220	25	2396393	50	2355954	100	2561226	200	2838812
2,4'-DDT	5	1917403	10	1970236	25	2099731	50	2163314	100	2207085	200	2377399
2,4'-DDT [2C]	5	2023114	10	2090847	25	2320531	50	2406058	100	2572524	200	2835386

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10152016.D		
Sequence:	0J15061	Inject Date:	10/15/20
Lab Sample ID:	0J15061-ICV1	Inject Time:	21:17

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
4,4'-DDD	50.0	50.4	0.8	70 - 130
4,4'-DDD [2C]	50.0	51.8	3.6	70 - 130
4,4'-DDE	50.0	51.4	2.7	70 - 130
4,4'-DDE [2C]	50.0	50.9	1.7	70 - 130
4,4'-DDT	50.0	51.6	3.3	70 - 130
4,4'-DDT [2C]	50.0	51.9	3.8	70 - 130
2,4,5,6-TCMX (Surr)	50.0	46.6	-6.7	70 - 130
2,4,5,6-TCMX (Surr) [2C]	50.0	48.9	-2.2	70 - 130
Decachlorobiphenyl (Surr)	50.0	47.7	-4.7	70 - 130
Decachlorobiphenyl (Surr) [2C]	50.0	46.5	-7.0	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10152027.D		
Sequence:	0J15061	Inject Date:	10/16/20
Lab Sample ID:	0J15061-ICV2	Inject Time:	00:19

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,4'-DDD	50.0	46.0	-8.0	70 - 130
2,4'-DDD [2C]	50.0	50.4	0.9	70 - 130
2,4'-DDE	50.0	48.3	-3.4	70 - 130
2,4'-DDE [2C]	50.0	50.6	1.2	70 - 130
2,4'-DDT	50.0	51.9	3.9	70 - 130
2,4'-DDT [2C]	50.0	54.6	9.3	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10262009.D	Calibration Date:	10/21/20 12:29
Sequence:	0J26061	Injection Date:	10/26/20
Lab Sample ID:	0J26061-CCV2	Injection Time:	14:10

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	53.2		2719664	2895420	6.5	20
4,4'-DDD [2C]	XXX	50.0	54.6	9.2				20
4,4'-DDE	Ave	50.0	54.5		3151100	3435938	9.0	20
4,4'-DDE [2C]	XXX	50.0	53.6	7.2				20
4,4'-DDT	XXX	50.0	51.4	2.9				20
4,4'-DDT [2C]	XXX	50.0	53.1	6.1				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:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10262010.D	Calibration Date:	10/21/20 12:29
Sequence:	0J26061	Injection Date:	10/26/20
Lab Sample ID:	0J26061-CCV3	Injection Time:	14:27

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	49.7		1921377	1911111	-0.5	20
2,4'-DDD [2C]	XXX	50.0	51.7	3.3				20
2,4'-DDE	Ave	50.0	50.0		2126918	2125972	-0.04	20
2,4'-DDE [2C]	Ave	50.0	50.2		2426629	2437584	0.5	20
2,4'-DDT	Ave	50.0	48.7		2145969	2088308	-2.7	20
2,4'-DDT [2C]	XXX	50.0	51.4	2.9				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:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10262020.D	Calibration Date:	10/21/20 12:29
Sequence:	0J26061	Injection Date:	10/26/20
Lab Sample ID:	0J26061-CCV4	Injection Time:	17:12

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	100	118		2719664	3207332	17.9	20
4,4'-DDD [2C]	XXX	100	112	12.3				20
4,4'-DDE	Ave	100	115		3151100	3638412	15.5	20
4,4'-DDE [2C]	XXX	100	110	10.4				20
4,4'-DDT	XXX	100	98.3	-1.7				20
4,4'-DDT [2C]	XXX	100	98.9	-1.1				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:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10262021.D	Calibration Date:	10/21/20 12:29
Sequence:	0J26061	Injection Date:	10/26/20
Lab Sample ID:	0J26061-CCV5	Injection Time:	17:29

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	100	104		1921377	1995729	3.9	20
2,4'-DDD [2C]	XXX	100	106	6.3				20
2,4'-DDE	Ave	100	103		2126918	2180448	2.5	20
2,4'-DDE [2C]	Ave	100	108		2426629	2615718	7.8	20
2,4'-DDT	Ave	100	100		2145969	2145152	-0.04	20
2,4'-DDT [2C]	XXX	100	99.6	-0.4				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:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10262032.D	Calibration Date:	10/21/20 12:29
Sequence:	0J26061	Injection Date:	10/26/20
Lab Sample ID:	0J26061-CCV6	Injection Time:	20:31

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	57.5		2719664	3128248	15.0	20
4,4'-DDD [2C]	XXX	50.0	59.7	19.3				20
4,4'-DDE	Ave	50.0	54.1		3151100	3407598	8.1	20
4,4'-DDE [2C]	XXX	50.0	56.7	13.5				20
4,4'-DDT	XXX	50.0	47.0	-6.1				20
4,4'-DDT [2C]	XXX	50.0	48.8	-2.4				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:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10262033.D	Calibration Date:	10/21/20 12:29
Sequence:	0J26061	Injection Date:	10/26/20
Lab Sample ID:	0J26061-CCV7	Injection Time:	20:47

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	50.4		1921377	1937736	0.9	20
2,4'-DDD [2C]	XXX	50.0	53.8	7.7				20
2,4'-DDE	Ave	50.0	48.3		2126918	2056150	-3.3	20
2,4'-DDE [2C]	Ave	50.0	50.7		2426629	2461526	1.4	20
2,4'-DDT	Ave	50.0	45.8		2145969	1966529	-8.4	20
2,4'-DDT [2C]	XXX	50.0	48.4	-3.3				20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10272004.D	Calibration Date:	10/21/20 12:29
Sequence:	0J27055	Injection Date:	10/27/20
Lab Sample ID:	0J27055-CCV1	Injection Time:	12:13

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	51.4		2719664	2797322	2.9	20
4,4'-DDD [2C]	XXX	50.0	52.5	5.1				20
4,4'-DDE	Ave	50.0	51.0		3151100	3216730	2.1	20
4,4'-DDE [2C]	XXX	50.0	52.0	4.0				20
4,4'-DDT	XXX	50.0	48.1	-3.9				20
4,4'-DDT [2C]	XXX	50.0	48.6	-2.8				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:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10272005.D	Calibration Date:	10/21/20 12:29
Sequence:	0J27055	Injection Date:	10/27/20
Lab Sample ID:	0J27055-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	46.8		1921377	1798612	-6.4	20
2,4'-DDD [2C]	XXX	50.0	50.8	1.6				20
2,4'-DDE	Ave	50.0	46.6		2126918	1983894	-6.7	20
2,4'-DDE [2C]	Ave	50.0	50.0		2426629	2427250	0.03	20
2,4'-DDT	Ave	50.0	46.9		2145969	2013536	-6.2	20
2,4'-DDT [2C]	XXX	50.0	50.9	1.8				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:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10272017.D	Calibration Date:	10/21/20 12:29
Sequence:	0J27055	Injection Date:	10/27/20
Lab Sample ID:	0J27055-CCV3	Injection Time:	15:48

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	116		2719664	3157645	16.1	20
4,4'-DDD [2C]	XXX	100	109	8.6				20
4,4'-DDE	Ave	100	113		3151100	3563176	13.1	20
4,4'-DDE [2C]	XXX	100	105	5.3				20
4,4'-DDT	XXX	100	102	2.5				20
4,4'-DDT [2C]	XXX	100	104	3.9				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:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10272018.D	Calibration Date:	10/21/20 12:29
Sequence:	0J27055	Injection Date:	10/27/20
Lab Sample ID:	0J27055-CCV4	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	
2,4'-DDD	Ave	100	97.2		1921377	1867451	-2.8	20
2,4'-DDD [2C]	XXX	100	101	0.7				20
2,4'-DDE	Ave	100	95.0		2126918	2020599	-5.0	20
2,4'-DDE [2C]	Ave	100	103		2426629	2494288	2.8	20
2,4'-DDT	Ave	100	93.5		2145969	2006135	-6.5	20
2,4'-DDT [2C]	XXX	100	98.0	-2.0				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:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10272034.D	Calibration Date:	10/21/20 12:29
Sequence:	0J27055	Injection Date:	10/27/20
Lab Sample ID:	0J27055-CCV5	Injection Time:	20:48

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	48.0		2719664	2609206	-4.1	20
4,4'-DDD [2C]	XXX	50.0	52.4	4.8				20
4,4'-DDE	Ave	50.0	47.5		3151100	2994416	-5.0	20
4,4'-DDE [2C]	XXX	50.0	49.9	-0.2				20
4,4'-DDT	XXX	50.0	40.9	-18.2				20
4,4'-DDT [2C]	XXX	50.0	45.2	-9.6				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:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	DUALECD8	Calibration:	A0J2107
Lab File ID:	ECD8-10272035.D	Calibration Date:	10/21/20 12:29
Sequence:	0J27055	Injection Date:	10/27/20
Lab Sample ID:	0J27055-CCV6	Injection Time:	21:05

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		1921377	1699990	-11.5	20
2,4'-DDD [2C]	XXX	50.0	50.6	1.1				20
2,4'-DDE	Ave	50.0	42.5		2126918	1806593	-15.1	20
2,4'-DDE [2C]	Ave	50.0	46.6		2426629	2260260	-6.9	20
2,4'-DDT	Ave	50.0	42.8		2145969	1838160	-14.3	20
2,4'-DDT [2C]	XXX	50.0	48.1	-3.9				20

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

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J15061	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0J2107

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0J15061-ICV1)				Lab File ID: ECD8-10152016.D		Analyzed: 10/15/20 21:17		
2,4,5,6-TCMX (Surr)	50.0	93	70 - 130	5.683	5.682556	0.0004	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	98	70 - 130	5.99	5.989889	0.0001	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	95	70 - 130	9.905	9.902556	0.0024	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	93	70 - 130	10.507	10.50489	0.0021	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J26061	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0J2107

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0J26061-CCV2)			Lab File ID: ECD8-10262009.D		Analyzed: 10/26/20 14:10			
2,4,5,6-TCMX (Surr)	50.0	94	80 - 120	5.663	5.682556	-0.0196	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	101	80 - 120	5.966	5.989889	-0.0239	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	100	80 - 120	9.884	9.902556	-0.0186	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	97	80 - 120	10.477	10.50489	-0.0279	+/-1.0	
Calibration Blank (0J26061-CCB1)			Lab File ID: ECD8-10262011.D		Analyzed: 10/26/20 14:43			
2,4,5,6-TCMX (Surr) [2C]	100	99	42 - 129	5.967	5.989889	-0.0229	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	95	55 - 130	10.477	10.50489	-0.0279	+/-1.0	
Blank (0100834-BLK1)			Lab File ID: ECD8-10262013.D		Analyzed: 10/26/20 15:17			
2,4,5,6-TCMX (Surr) [2C]	45.5	56	42 - 129	5.966	5.989889	-0.0239	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	93	55 - 130	10.475	10.50489	-0.0299	+/-1.0	
LCS (0100834-BS1)			Lab File ID: ECD8-10262014.D		Analyzed: 10/26/20 15:33			
2,4,5,6-TCMX (Surr) [2C]	50.0	72	42 - 129	5.966	5.989889	-0.0239	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	104	55 - 130	10.476	10.50489	-0.0289	+/-1.0	
Calibration Check (0J26061-CCV4)			Lab File ID: ECD8-10262020.D		Analyzed: 10/26/20 17:12			
2,4,5,6-TCMX (Surr)	100	101	80 - 120	5.663	5.682556	-0.0196	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	108	80 - 120	5.966	5.989889	-0.0239	+/-1.0	
Decachlorobiphenyl (Surr)	100	103	80 - 120	9.882	9.902556	-0.0206	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	107	80 - 120	10.475	10.50489	-0.0299	+/-1.0	
Calibration Blank (0J26061-CCB2)			Lab File ID: ECD8-10262022.D		Analyzed: 10/26/20 17:45			
2,4,5,6-TCMX (Surr) [2C]	100	97	42 - 129	5.965	5.989889	-0.0249	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	95	55 - 130	10.475	10.50489	-0.0299	+/-1.0	
USMPDI-001SG-201011 (A0J0371-01RE1)			Lab File ID: ECD8-10262025.D		Analyzed: 10/26/20 18:35			
2,4,5,6-TCMX (Surr) [2C]	119	64	42 - 129	5.965	5.989889	-0.0249	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	119	95	55 - 130	10.475	10.50489	-0.0299	+/-1.0	
USMPDI-006SG-201010 (A0J0371-03RE1)			Lab File ID: ECD8-10262026.D		Analyzed: 10/26/20 18:52			
2,4,5,6-TCMX (Surr) [2C]	105	52	42 - 129	5.964	5.989889	-0.0259	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	105	103	55 - 130	10.474	10.50489	-0.0309	+/-1.0	
USMPDI-011SG-201011 (A0J0371-04RE1)			Lab File ID: ECD8-10262027.D		Analyzed: 10/26/20 19:08			
2,4,5,6-TCMX (Surr) [2C]	104	65	42 - 129	5.965	5.989889	-0.0249	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	104	100	55 - 130	10.474	10.50489	-0.0309	+/-1.0	
USMPDI-012SG-201010 (A0J0371-05RE1)			Lab File ID: ECD8-10262028.D		Analyzed: 10/26/20 19:25			
2,4,5,6-TCMX (Surr) [2C]	117	53	42 - 129	5.964	5.989889	-0.0259	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	117	84	55 - 130	10.474	10.50489	-0.0309	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J26061	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0J2107

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
USMPDI-021SG-201010 (A0J0371-06RE1)			Lab File ID: ECD8-10262029.D		Analyzed: 10/26/20 19:41			
2,4,5,6-TCMX (Surr) [2C]	129	51	42 - 129	5.964	5.989889	-0.0259	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	129	86	55 - 130	10.473	10.50489	-0.0319	+/-1.0	
USMPDI-003SG-201011 (A0J0371-02RE1)			Lab File ID: ECD8-10262030.D		Analyzed: 10/26/20 19:58			
2,4,5,6-TCMX (Surr) [2C]	112	47	42 - 129	5.964	5.989889	-0.0259	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	112	99	55 - 130	10.472	10.50489	-0.0329	+/-1.0	
Calibration Check (0J26061-CCV6)			Lab File ID: ECD8-10262032.D		Analyzed: 10/26/20 20:31			
2,4,5,6-TCMX (Surr)	50.0	100	80 - 120	5.661	5.682556	-0.0216	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	104	80 - 120	5.964	5.989889	-0.0259	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	104	80 - 120	9.88	9.902556	-0.0226	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	107	80 - 120	10.474	10.50489	-0.0309	+/-1.0	
Calibration Blank (0J26061-CCB3)			Lab File ID: ECD8-10262034.D		Analyzed: 10/26/20 21:04			
2,4,5,6-TCMX (Surr) [2C]	100	98	42 - 129	5.964	5.989889	-0.0259	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	103	55 - 130	10.474	10.50489	-0.0309	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J27055	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0J2107

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0J27055-CCV1)			Lab File ID: ECD8-10272004.D		Analyzed: 10/27/20 12:13			
2,4,5,6-TCMX (Surr)	50.0	93	80 - 120	5.661	5.682556	-0.0216	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	98	80 - 120	5.964	5.989889	-0.0259	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	99	80 - 120	9.88	9.902556	-0.0226	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	99	80 - 120	10.473	10.50489	-0.0319	+/-1.0	
Calibration Blank (0J27055-CCB1)			Lab File ID: ECD8-10272006.D		Analyzed: 10/27/20 12:46			
2,4,5,6-TCMX (Surr) [2C]	100	93	25 - 140	5.964	5.989889	-0.0259	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	93	30 - 135	10.474	10.50489	-0.0309	+/-1.0	
USMPDI-023SG-201010 (A0J0371-07RE2)			Lab File ID: ECD8-10272011.D		Analyzed: 10/27/20 14:09			
2,4,5,6-TCMX (Surr) [2C]	126	47	42 - 129	5.963	5.989889	-0.0269	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	126	66	55 - 130	10.473	10.50489	-0.0319	+/-1.0	
Matrix Spike (0100834-MS2)			Lab File ID: ECD8-10272012.D		Analyzed: 10/27/20 14:25			
2,4,5,6-TCMX (Surr) [2C]	125	49	42 - 129	5.963	5.989889	-0.0269	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	125	73	55 - 130	10.471	10.50489	-0.0339	+/-1.0	
Matrix Spike Dup (0100834-MSD2)			Lab File ID: ECD8-10272013.D		Analyzed: 10/27/20 14:42			
2,4,5,6-TCMX (Surr) [2C]	125	47	42 - 129	5.963	5.989889	-0.0269	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	125	82	55 - 130	10.471	10.50489	-0.0339	+/-1.0	
USMPDI-039SG-201010 (A0J0371-08RE2)			Lab File ID: ECD8-10272014.D		Analyzed: 10/27/20 14:58			
2,4,5,6-TCMX (Surr) [2C]	126	52	42 - 129	5.963	5.989889	-0.0269	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	126	86	55 - 130	10.472	10.50489	-0.0329	+/-1.0	
USMPDI-1039SG-201010 (A0J0371-09RE1)			Lab File ID: ECD8-10272015.D		Analyzed: 10/27/20 15:15			
2,4,5,6-TCMX (Surr) [2C]	124	51	42 - 129	5.962	5.989889	-0.0279	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	124	70	55 - 130	10.471	10.50489	-0.0339	+/-1.0	
USMPDI-045SG-201010 (A0J0371-10RE1)			Lab File ID: ECD8-10272016.D		Analyzed: 10/27/20 15:31			
2,4,5,6-TCMX (Surr) [2C]	125	50	42 - 129	5.963	5.989889	-0.0269	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	125	76	55 - 130	10.471	10.50489	-0.0339	+/-1.0	
Calibration Check (0J27055-CCV3)			Lab File ID: ECD8-10272017.D		Analyzed: 10/27/20 15:48			
2,4,5,6-TCMX (Surr)	100	98	80 - 120	5.66	5.682556	-0.0226	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	106	80 - 120	5.963	5.989889	-0.0269	+/-1.0	
Decachlorobiphenyl (Surr)	100	104	80 - 120	9.878	9.902556	-0.0246	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	107	80 - 120	10.472	10.50489	-0.0329	+/-1.0	
Calibration Blank (0J27055-CCB2)			Lab File ID: ECD8-10272019.D		Analyzed: 10/27/20 16:21			
2,4,5,6-TCMX (Surr) [2C]	100	92	25 - 140	5.963	5.989889	-0.0269	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	96	30 - 135	10.473	10.50489	-0.0319	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J27055	Instrument:	DUALECD8
Matrix:	Sediment	Calibration:	A0J2107

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0J27055-CCV5)				Lab File ID: ECD8-10272034.D		Analyzed: 10/27/20 20:48		
2,4,5,6-TCMX (Surr)	50.0	88	80 - 120	5.658	5.682556	-0.0246	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	93	80 - 120	5.962	5.989889	-0.0279	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	103	80 - 120	9.876	9.902556	-0.0266	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	105	80 - 120	10.469	10.50489	-0.0359	+/-1.0	
Calibration Blank (0J27055-CCB3)				Lab File ID: ECD8-10272036.D		Analyzed: 10/27/20 21:21		
2,4,5,6-TCMX (Surr) [2C]	100	94	25 - 140	5.962	5.989889	-0.0279	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	99	30 - 135	10.47	10.50489	-0.0349	+/-1.0	

HOLDING TIME SUMMARY

EPA 8081B

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

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
USMPDI-001SG-201011	10/11/20 12:41	10/12/20 07:33	10/23/20 16:05	12.14	14.00	10/26/20 18:35	3.10	40.00	
USMPDI-003SG-201011	10/11/20 10:53	10/12/20 07:33	10/23/20 16:05	12.22	14.00	10/26/20 19:58	3.16	40.00	
USMPDI-006SG-201010	10/10/20 15:46	10/12/20 07:33	10/23/20 16:05	13.01	14.00	10/26/20 18:52	3.12	40.00	
USMPDI-011SG-201011	10/11/20 15:37	10/12/20 07:33	10/23/20 16:05	12.02	14.00	10/26/20 19:08	3.13	40.00	
USMPDI-012SG-201010	10/10/20 14:25	10/12/20 07:33	10/23/20 16:05	13.07	14.00	10/26/20 19:25	3.14	40.00	
USMPDI-021SG-201010	10/10/20 12:20	10/12/20 07:33	10/23/20 16:05	13.16	14.00	10/26/20 19:41	3.15	40.00	
USMPDI-023SG-201010	10/10/20 11:14	10/12/20 07:33	10/23/20 16:05	13.20	14.00	10/27/20 14:09	3.92	40.00	
USMPDI-039SG-201010	10/10/20 10:39	10/12/20 07:33	10/23/20 16:05	13.23	14.00	10/27/20 14:58	3.95	40.00	
USMPDI-1039SG-201010	10/10/20 10:39	10/12/20 07:33	10/23/20 16:05	13.23	14.00	10/27/20 15:15	3.97	40.00	
USMPDI-045SG-201010	10/10/20 09:18	10/12/20 07:33	10/23/20 16:05	13.28	14.00	10/27/20 15:31	3.98	40.00	

Apex Laboratories

SDG: A0J0371

CLASS: GCMS

METHOD: EPA 8270E

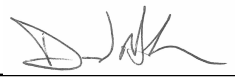
ANALYSES DATA PACKAGE COVER PAGE

EPA 8270E

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4

Client Sample Id:	Lab Sample Id:	Matrix
USMPDI-003SG-201011	A0J0371-02	SE
USMPDI-012SG-201010	A0J0371-05	SE
USMPDI-021SG-201010	A0J0371-06	SE
USMPDI-045SG-201010	A0J0371-10	SE

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: 11/23/2020 2:11PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Apex Laboratories **SDG:** A0J0371

Client: Anchor QEA, LLC **Project:** US Moorings -- C2, C3, C4

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 8270E

USMPDI-003SG-201011

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	SE	Laboratory ID:	A0J0371-02	File ID:	N10222011.D
Sampled:	10/11/20 10:53	Prepared:	10/22/20 10:40	Analyzed:	10/22/20 20:22
Solids:	42.85	Preparation:	EPA 3546	Initial/Final:	10.34 g / 5 mL
Batch:	0100764	Sequence:	0J22053	Calibration:	A0H1005
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	100	282	U
208-96-8	Acenaphthylene	100	282	U
120-12-7	Anthracene	100	282	U
56-55-3	Benz(a)anthracene	100	444	JD
50-32-8	Benzo(a)pyrene	100	749	D
205-99-2	Benzo(b)fluoranthene	100	634	D
207-08-9	Benzo(k)fluoranthene	100	282	U
191-24-2	Benzo(g,h,i)perylene	100	553	JD
218-01-9	Chrysene	100	489	JD
53-70-3	Dibenz(a,h)anthracene	100	282	U
206-44-0	Fluoranthene	100	927	D
86-73-7	Fluorene	100	282	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	478	JD
91-57-6	2-Methylnaphthalene	100	282	U
91-20-3	Naphthalene	100	282	U
85-01-8	Phenanthrene	100	544	JD
129-00-0	Pyrene	100	1010	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	113	74.5	66	44 - 120	D
p-Terphenyl-d14 (Surr)	113	94.8	84	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	265037	7.743	262328	7.743	
Acenaphthene-d10 (ISTD)	168216	9.492	160377	9.492	
Phenanthrene-d10 (ISTD)	329765	10.996	305267	10.996	
Chrysene-d12 (ISTD)	307959	14.633	260148	14.633	
Perylene-d12 (ISTD)	302945	18.083	221037	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	255992	20.467	163573	20.467	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

USMPDI-012SG-201010

Laboratory:	Apex Laboratories		SDG:	A0J0371	
Client:	Anchor QEA, LLC		Project:	US Moorings -- C2, C3, C4	
Matrix:	SE	Laboratory ID:	A0J0371-05RE1	File ID:	N10232006.D
Sampled:	10/10/20 14:25	Prepared:	10/22/20 10:40	Analyzed:	10/23/20 15:00
Solids:	40.59	Preparation:	EPA 3546	Initial/Final:	10.01 g / 5 mL
Batch:	0100764	Sequence:	0J23034	Calibration:	A0H1005
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	40	366	D
208-96-8	Acenaphthylene	40	123	U
120-12-7	Anthracene	40	141	JD
56-55-3	Benz(a)anthracene	40	223	JD
50-32-8	Benzo(a)pyrene	40	335	D
205-99-2	Benzo(b)fluoranthene	40	281	D
207-08-9	Benzo(k)fluoranthene	40	123	U
191-24-2	Benzo(g,h,i)perylene	40	282	D
218-01-9	Chrysene	40	266	D
53-70-3	Dibenz(a,h)anthracene	40	123	U
206-44-0	Fluoranthene	40	822	D
86-73-7	Fluorene	40	147	JD
193-39-5	Indeno(1,2,3-cd)pyrene	40	230	JD
91-57-6	2-Methylnaphthalene	40	123	U
91-20-3	Naphthalene	40	123	U
85-01-8	Phenanthrene	40	991	D
129-00-0	Pyrene	40	842	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	123	86.6	70	44 - 120	D
p-Terphenyl-d14 (Surr)	123	114	92	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	257576	7.738	253522	7.737	
Acenaphthene-d10 (ISTD)	163352	9.492	162584	9.492	
Phenanthrene-d10 (ISTD)	322942	10.996	317283	10.995	
Chrysene-d12 (ISTD)	309036	14.633	307582	14.638	
Perylene-d12 (ISTD)	307302	18.083	282846	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	258106	20.467	220112	20.467	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

USMPDI-021SG-201010

Laboratory: Apex Laboratories | SDG: A0J0371

Client: Anchor QEA, LLC | Project: US Moorings -- C2, C3, C4

Matrix: SE | Laboratory ID: A0J0371-06 | File ID: N10222013.D

Sampled: 10/10/20 12:20 | Prepared: 10/22/20 10:40 | Analyzed: 10/22/20 21:26

Solids: 38.05 | Preparation: EPA 3546 | Initial/Final: 10.06 g / 5 mL

Batch: 0100764 | Sequence: 0J22053 | Calibration: A0H1005 | Instrument: SV-GCMS14

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	100	327	U
208-96-8	Acenaphthylene	100	327	U
120-12-7	Anthracene	100	327	U
56-55-3	Benz(a)anthracene	100	419	JD
50-32-8	Benzo(a)pyrene	100	669	D
205-99-2	Benzo(b)fluoranthene	100	551	JD
207-08-9	Benzo(k)fluoranthene	100	327	U
191-24-2	Benzo(g,h,i)perylene	100	481	JD
218-01-9	Chrysene	100	487	JD
53-70-3	Dibenz(a,h)anthracene	100	327	U
206-44-0	Fluoranthene	100	815	D
86-73-7	Fluorene	100	327	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	400	JD
91-57-6	2-Methylnaphthalene	100	327	U
91-20-3	Naphthalene	100	327	U
85-01-8	Phenanthrene	100	509	JD
129-00-0	Pyrene	100	1010	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	131	83.6	64	44 - 120	D
p-Terphenyl-d14 (Surr)	131	124	95	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	260107	7.743	262328	7.743	
Acenaphthene-d10 (ISTD)	169906	9.492	160377	9.492	
Phenanthrene-d10 (ISTD)	335965	10.996	305267	10.996	
Chrysene-d12 (ISTD)	300553	14.633	260148	14.633	
Perylene-d12 (ISTD)	291648	18.083	221037	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	250855	20.467	163573	20.467	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

USMPDI-045SG-201010

Laboratory:	Apex Laboratories		SDG:	A0J0371	
Client:	Anchor QEA, LLC		Project:	US Moorings -- C2, C3, C4	
Matrix:	SE	Laboratory ID:	A0J0371-10	File ID:	N10222009.D
Sampled:	10/10/20 09:18	Prepared:	10/22/20 10:40	Analyzed:	10/22/20 19:18
Solids:	39.47	Preparation:	EPA 3546	Initial/Final:	10.17 g / 5 mL
Batch:	0100764	Sequence:	0J22053	Calibration:	A0H1005
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	100	311	U
208-96-8	Acenaphthylene	100	311	U
120-12-7	Anthracene	100	396	JD
56-55-3	Benz(a)anthracene	100	1570	D
50-32-8	Benzo(a)pyrene	100	2840	D
205-99-2	Benzo(b)fluoranthene	100	2290	D
207-08-9	Benzo(k)fluoranthene	100	811	D
191-24-2	Benzo(g,h,i)perylene	100	1980	D
218-01-9	Chrysene	100	1970	D
53-70-3	Dibenz(a,h)anthracene	100	311	U
206-44-0	Fluoranthene	100	2200	D
86-73-7	Fluorene	100	311	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	1630	D
91-57-6	2-Methylnaphthalene	100	311	U
91-20-3	Naphthalene	100	639	D
85-01-8	Phenanthrene	100	1150	D
129-00-0	Pyrene	100	2590	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	125	83.5	67	44 - 120	D
p-Terphenyl-d14 (Surr)	125	106	85	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	252371	7.743	262328	7.743	
Acenaphthene-d10 (ISTD)	164397	9.492	160377	9.492	
Phenanthrene-d10 (ISTD)	325875	10.996	305267	10.996	
Chrysene-d12 (ISTD)	312942	14.633	260148	14.633	
Perylene-d12 (ISTD)	308858	18.083	221037	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	256337	20.467	163573	20.467	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Batch: 0100764 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0100764-BLK1	N10222005.D	10/22/20 10:40	
LCS	0100764-BS1	N10222006.D	10/22/20 10:40	
USMPDI-045SG-201010 (MS)	0100764-MS1	N10222010.D	10/22/20 10:40	
USMPDI-003SG-201011	A0J0371-02	N10222011.D	10/22/20 10:40	
USMPDI-012SG-201010	A0J0371-05RE1	N10232006.D	10/22/20 10:40	
USMPDI-021SG-201010	A0J0371-06	N10222013.D	10/22/20 10:40	
USMPDI-045SG-201010	A0J0371-10	N10222009.D	10/22/20 10:40	

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 8270E

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	Sediment	Laboratory ID:	0100764-BLK1	File ID:	N10222005.D
Prepared:	10/22/20 10:40	Preparation:	EPA 3546	Initial/Final:	11 g / 5 mL
Analyzed:	10/22/20 17:09	Instrument:	SV-GCMS14		
Batch:	0100764	Sequence:	0J22053	Calibration:	A0H1005

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	1.14	U
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	41.5	91	44 - 120	
p-Terphenyl-d14 (Surr)	45.5	49.1	108	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	249163	7.743	262328	7.743	
Acenaphthene-d10 (ISTD)	159162	9.492	160377	9.492	
Phenanthrene-d10 (ISTD)	313430	10.996	305267	10.996	
Chrysene-d12 (ISTD)	282228	14.633	260148	14.633	
Perylene-d12 (ISTD)	268366	18.083	221037	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	230260	20.467	163573	20.467	

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Matrix:	Sediment		
Batch:	0100764	Laboratory ID:	0100764-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	19.8	99	40 - 123
Acenaphthylene	20.0	20.5	103	32 - 132
Anthracene	20.0	21.4	107	47 - 123
Benz(a)anthracene	20.0	19.5	97	49 - 126
Benzo(a)pyrene	20.0	22.7	114	45 - 129
Benzo(b)fluoranthene	20.0	20.1	101	45 - 132
Benzo(k)fluoranthene	20.0	19.8	99	47 - 132
Benzo(g,h,i)perylene	20.0	18.7	94	43 - 134
Chrysene	20.0	19.7	98	50 - 124
Dibenz(a,h)anthracene	20.0	18.3	92	45 - 134
Fluoranthene	20.0	20.3	101	50 - 127
Fluorene	20.0	21.4	107	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	17.2	86	45 - 133
2-Methylnaphthalene	20.0	20.2	101	38 - 122
Naphthalene	20.0	18.6	93	35 - 123
Phenanthrene	20.0	19.3	96	50 - 121
Pyrene	20.0	19.3	97	47 - 127

* = Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270E

USMPDI-045SG-201010

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Matrix:	Sediment		
Batch:	0100764	Laboratory ID:	0100764-MS1
Preparation:	EPA 3546	Initial/Final:	10.23 g / 5 mL

Source Sample Name: USMPDI-045SG-201010

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	49.5	ND	ND	*	40 - 123
Acenaphthylene	49.5	ND	ND	*	32 - 132
Anthracene	49.5	396	462	133 *	47 - 123
Benz(a)anthracene	49.5	1570	1110	-929 *	49 - 126
Benzo(a)pyrene	49.5	2840	1610	-2490 *	45 - 129
Benzo(b)fluoranthene	49.5	2290	1370	-1860 *	45 - 132
Benzo(k)fluoranthene	49.5	811	480	-667 *	47 - 132
Benzo(g,h,i)perylene	49.5	1980	1110	-1760 *	43 - 134
Chrysene	49.5	1970	1330	-1300 *	50 - 124
Dibenz(a,h)anthracene	49.5	ND	ND	*	45 - 134
Fluoranthene	49.5	2200	2110	-181 *	50 - 127
Fluorene	49.5	ND	ND	*	43 - 125
Indeno(1,2,3-cd)pyrene	49.5	1630	930	-1420 *	45 - 133
2-Methylnaphthalene	49.5	ND	ND	*	38 - 122
Naphthalene	49.5	639	ND	-1290 *	35 - 123
Phenanthrene	49.5	1150	1340	394 *	50 - 121
Pyrene	49.5	2590	2370	-453 *	47 - 127

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0H07053	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0H07053-TUN1	N08072008.D	08/07/20 15:49
Initial Cal Blank	0H07053-ICB1	N08072009.D	08/07/20 16:17
Cal Standard	0H07053-CAL1	N08072010.D	08/07/20 16:50
Cal Standard	0H07053-CAL2	N08072011.D	08/07/20 17:23
Cal Standard	0H07053-CAL3	N08072012.D	08/07/20 17:56
Cal Standard	0H07053-CAL4	N08072013.D	08/07/20 18:29
Cal Standard	0H07053-CAL5	N08072014.D	08/07/20 19:02
Cal Standard	0H07053-CAL6	N08072015.D	08/07/20 19:35
Cal Standard	0H07053-CAL7	N08072016.D	08/07/20 20:07
Cal Standard	0H07053-CAL8	N08072017.D	08/07/20 20:40
Cal Standard	0H07053-CAL9	N08072018.D	08/07/20 21:12
Cal Standard	0H07053-CALA	N08072019.D	08/07/20 21:45
Initial Cal Check	0H07053-ICV1	N08072022.D	08/07/20 23:23

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 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J22053	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0J22053-TUN1	N10222001.D	10/22/20 15:05
Calibration Check	0J22053-CCV1	N10222003.D	10/22/20 16:05
Calibration Blank	0J22053-CCB1	N10222004.D	10/22/20 16:37
Blank	0100764-BLK1	N10222005.D	10/22/20 17:09
LCS	0100764-BS1	N10222006.D	10/22/20 17:41
USMPDI-045SG-201010	A0J0371-10	N10222009.D	10/22/20 19:18
USMPDI-045SG-201010 (MS)	0100764-MS1	N10222010.D	10/22/20 19:50
USMPDI-003SG-201011	A0J0371-02	N10222011.D	10/22/20 20:22
USMPDI-021SG-201010	A0J0371-06	N10222013.D	10/22/20 21:26

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J23034	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0J23034-TUN1	N10232001.D	10/23/20 10:00
Calibration Check	0J23034-CCV1	N10232003.D	10/23/20 10:59
Calibration Blank	0J23034-CCB1	N10232004.D	10/23/20 11:31
USMPDI-012SG-201010	A0J0371-05RE1	N10232006.D	10/23/20 15:00

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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Lab File ID:	N08072008.D	Injection Date:	08/07/20
Instrument ID:	SV-GCMS14	Injection Time:	15:49
Sequence:	0H07053	Lab Sample ID:	0H07053-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.94	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.48	PASS
m/z 197	Less than 2% of m/z 198	0.00	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.87	PASS
m/z 365	1 - 100% of m/z 198	4.48	PASS
m/z 441	Less than 150% of m/z 443	77.10	PASS
m/z 442	0.1 - 200% of m/z 198	160.18	PASS
m/z 443	15 - 24% of m/z 442	19.73	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Lab File ID:	N10222001.D	Injection Date:	10/22/20
Instrument ID:	SV-GCMS14	Injection Time:	15:05
Sequence:	0J22053	Lab Sample ID:	0J22053-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.79	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.50	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	6.82	PASS
m/z 365	1 - 100% of m/z 198	4.51	PASS
m/z 441	Less than 150% of m/z 443	77.76	PASS
m/z 442	0.1 - 200% of m/z 198	160.72	PASS
m/z 443	15 - 24% of m/z 442	19.63	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Lab File ID:	N10232001.D	Injection Date:	10/23/20
Instrument ID:	SV-GCMS14	Injection Time:	10:00
Sequence:	0J23034	Lab Sample ID:	0J23034-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.77	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.52	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	6.79	PASS
m/z 365	1 - 100% of m/z 198	4.35	PASS
m/z 441	Less than 150% of m/z 443	76.62	PASS
m/z 442	0.1 - 200% of m/z 198	150.40	PASS
m/z 443	15 - 24% of m/z 442	19.59	PASS

INITIAL CALIBRATION DATA (Summary)

EPA 8270E

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Calibration: A0H1005 Date: 08/10/20 14:04 Instrument: SV-GCMS14

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.224777	Ave	3.28774	9.521667	1.529013E-02			20	
Acenaphthylene	1.676085	Ave	6.64947	9.346666	1.797138E-02			20	
Anthracene	0.8864905	Ave	6.420735	11.072	7.521604E-03			20	
Benz(a)anthracene	0.9997107	Ave	8.090332	14.612	3.897712E-02			20	
Benzo(a)pyrene	0.7351622	Ave	8.286794	17.94644	5.617144E-02			20	
Benzo(b)fluoranthene	1.013983	Ave	4.444269	17.17922	5.423954E-02			20	
Benzo(k)fluoranthene	0.9566106	Ave	6.313553	17.24389	6.995392E-02			20	
Benzo(g,h,i)perylene	1.094263	Ave	7.72528	21.01056	6.176028E-02			20	
Chrysene	1.032987	Ave	2.369351	14.69089	5.186376E-02			20	
Dibenz(a,h)anthracene	1.058201	Ave	3.82909	20.53556	4.836268E-02			20	
Fluoranthene	1.122704	Ave	6.327389	12.26044	1.770666E-02			20	
Fluorene	1.246869	Ave	6.297717	10.04578	1.694453E-02			20	
Indeno(1,2,3-cd)pyrene	1.07625	Ave	3.581026	20.47555	0.0624759			20	
2-Methylnaphthalene	0.7456587	Ave	5.017066	8.443	1.801969E-02			20	
Naphthalene	1.031219	Ave	6.62107	7.761	8.103876E-03			20	
Phenanthrene	1.082295	Ave	5.452007	11.01967	2.384211E-02			20	
Pyrene	1.338996	Ave	10.87983	12.53633	3.221527E-02			20	
2-Fluorobiphenyl (Surr)	1.42981	Ave	3.043226	8.804667	0.021133			20	
p-Terphenyl-d14 (Surr)	0.9614652	Ave	4.151337	12.73078	3.086798E-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 8270E

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Calibration: A0H1005
Instrument: SV-GCMS14
Calibration Date: 08/10/20 14:04

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	1.266588	2	1.259815	5	1.265777	10	1.192073	20	1.235865	50	1.231708
Acenaphthylene	1	1.473633	2	1.566064	5	1.592098	10	1.684731	20	1.685739	50	1.756836
Anthracene	1	0.8682272	2	0.8626834	5	0.8328087	10	0.7750112	20	0.9046703	50	0.9389991
Benz(a)anthracene	1	1.184899	2	1.074494	5	0.9605319	10	0.9221166	20	0.9631404	50	0.963527
Benzo(a)pyrene	1	0.7540831	2	0.6814332	5	0.6490017	10	0.6616363	20	0.7174292	50	0.7561626
Benzo(b)fluoranthene	1	1.008465	2	1.004204	5	0.9228586	10	0.9823829	20	1.012913	50	1.015306
Benzo(k)fluoranthene	1	0.9262896	2	0.85418	5	0.9182004	10	0.919192	20	0.9394501	50	0.9839213
Benzo(b+k)fluoranthene(s)	2	0.9673774	4	0.9991685	10	0.981519	20	1.014628	40	1.033446	100	1.051087
Benzo(g,h,i)perylene	1	1.002955	2	1.024852	5	1.002527	10	1.045448	20	1.075362	50	1.105886
Chrysene	1	1.049666	2	1.051325	5	1.062643	10	1.01291	20	1.045981	50	1.034519
Dibenz(a,h)anthracene	1	1.062196	2	1.058074	5	1.012511	10	1.009203	20	1.045319	50	1.024115
Fluoranthene	1	1.056056	2	1.074463	5	1.057517	10	1.022427	20	1.136697	50	1.169593
Fluorene	1	1.207642	2	1.215405	5	1.185375	10	1.104056	20	1.246986	50	1.30179
Indeno(1,2,3-cd)pyrene	1	1.056685	2	1.049768	5	1.042339	10	1.056869	20	1.057141	50	1.051176
1-Methylnaphthalene	1	0.7088105	2	0.7198507	5	0.7441939	10	0.7430097	20	0.7567288	50	0.7691963
2-Methylnaphthalene	1	0.674944	2	0.7345506	5	0.735525	10	0.7034539	20	0.7538713	50	0.7799008
Naphthalene	1	1.192481	2	1.065522	5	1.023012	10	1.030426	20	1.027633	50	1.001125
Phenanthrene	1	1.194887	2	1.147992	5	1.072126	10	1.061079	20	1.080868	50	1.07704
Pyrene	1	1.284177	2	1.2849	5	1.313924	10	1.6735	20	1.366347	50	1.310469
Carbazole	1	0.5952944	2	0.5751223	5	0.6089076	10	0.5022022	20	0.7240911	50	0.7596221
Dibenzofuran	1	1.495001	2	1.486482	5	1.487576	10	1.397071	20	1.543034	50	1.598791
2-Fluorobiphenyl (Surr)	1	1.376373	2	1.392688	5	1.424779	10	1.394323	20	1.45977	50	1.49245
p-Terphenyl-d14 (Surr)	1	0.9477046	2	0.8995485	5	0.9648729	10	1.002554	20	1.009059	50	0.9827495

INITIAL CALIBRATION DATA (Continued)

EPA 8270E

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Calibration: A0H1005
Instrument: SV-GCMS14
Matrix:
Calibration Date: 08/10/20 14:04

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	1.219383	200	1.209551	400	~~1.232999~~	600	1.142233				
Acenaphthylene	100	1.792244	200	1.80289	400	~~1.876483~~	600	1.730527				
Anthracene	100	0.9382494	200	0.9420696	400	~~0.7901208~~	600	0.9156957				
Benz(a)anthracene	100	0.9611599	200	0.9726267	400	~~1.048637~~	600	0.9949005				
Benzo(a)pyrene	100	0.7782665	200	0.805154	400	~~0.779903~~	600	0.8132936				
Benzo(b)fluoranthene	100	1.048428	200	1.053598	400	~~1.236261~~	600	1.077695				
Benzo(k)fluoranthene	100	1.002326	200	1.040167	400	~~1.122845~~	600	1.025769				
Benzo(b+k)fluoranthene(s)	200	1.07179	400	1.085373	800	~~1.279903~~	1200	1.083246				
Benzo(g,h,i)perylene	100	1.171739	200	1.213194	400	~~1.249126~~	600	1.206407				
Chrysene	100	1.039442	200	1.016506	400	~~1.177632~~	600	0.983888				
Dibenz(a,h)anthracene	100	1.110137	200	1.122575	400	~~1.227273~~	600	1.079675				
Fluoranthene	100	1.203197	200	1.211771	400	~~0.7562554~~	600	1.172611				
Fluorene	100	1.348499	200	1.339774	400	~~0.6662483~~	600	1.272294				
Indeno(1,2,3-cd)pyrene	100	1.095671	200	1.128245	400	~~1.095863~~	600	1.148353				
1-Methylnaphthalene	100	0.7690295	200	0.7635127	400	~~0.5641224~~	600	0.7411247				
2-Methylnaphthalene	100	0.7823918	200	0.7797779	400	~~0.5409846~~	600	0.7665129				
Naphthalene	100	1.004707	200	0.982835	400	~~1.031776~~	600	0.9532298				
Phenanthrene	100	1.069398	200	1.050309	400	~~1.062338~~	600	0.9869592				
Pyrene	100	1.405048	200	1.277676	400	~~1.615837~~	600	1.134926				
Carbazole	100	0.7145441	200	0.7306888	400	~~0.4921268~~	600	0.7203112				
Dibenzofuran	100	1.622159	200	1.641018	400	~~1.146223~~	600	1.587827				
2-Fluorobiphenyl (Surr)	100	1.471634	200	1.467201	400	~~1.885155~~	600	1.389068				
p-Terphenyl-d14 (Surr)	100	0.9901441	200	0.9535586	400	~~1.311325~~	600	0.9029958				

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	SV-GCMS14	Calibration:	A0H1005
Lab File ID:	N08072022.D		
Sequence:	0H07053	Inject Date:	08/07/20
Lab Sample ID:	0H07053-ICV1	Inject Time:	23:23

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Acenaphthene	50.0	49.6	-0.8	70 - 130
Acenaphthylene	50.0	52.1	4.2	70 - 130
Anthracene	50.0	52.8	5.7	70 - 130
Benz(a)anthracene	50.0	46.0	-8.0	70 - 130
Benzo(a)pyrene	50.0	56.6	13.2	70 - 130
Benzo(b)fluoranthene	50.0	49.2	-1.6	70 - 130
Benzo(k)fluoranthene	50.0	50.6	1.2	70 - 130
Benzo(g,h,i)perylene	50.0	51.2	2.4	70 - 130
Chrysene	50.0	48.9	-2.3	70 - 130
Dibenz(a,h)anthracene	50.0	49.2	-1.7	70 - 130
Fluoranthene	50.0	53.0	6.0	70 - 130
Fluorene	50.0	50.7	1.4	70 - 130
Indeno(1,2,3-cd)pyrene	50.0	46.6	-6.9	70 - 130
2-Methylnaphthalene	50.0	50.7	1.4	70 - 130
Naphthalene	50.0	48.3	-3.4	70 - 130
Phenanthrene	50.0	49.2	-1.6	70 - 130
Pyrene	50.0	51.2	2.3	70 - 130
2-Fluorobiphenyl (Surr)	50.0	50.2	0.5	70 - 130
p-Terphenyl-d14 (Surr)	50.0	50.3	0.6	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	SV-GCMS14	Calibration:	A0H1005
Lab File ID:	N10222003.D	Calibration Date:	08/10/20 14:04
Sequence:	0J22053	Injection Date:	10/22/20
Lab Sample ID:	0J22053-CCV1	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	
Acenaphthene	Ave	100	96.7		1.224777	1.184135	-3.3	20
Acenaphthylene	Ave	100	106		1.676085	1.784882	6.5	20
Anthracene	Ave	100	105		0.8864905	0.9325771	5.2	20
Benz(a)anthracene	Ave	100	95.4		0.9997107	0.9532689	-4.6	20
Benzo(a)pyrene	Ave	100	102		0.7351622	0.7464633	1.5	20
Benzo(b)fluoranthene	Ave	100	97.9		1.013983	0.9926438	-2.1	20
Benzo(k)fluoranthene	Ave	100	105		0.9566106	1.003004	4.8	20
Benzo(g,h,i)perylene	Ave	100	99.5		1.094263	1.088328	-0.5	20
Chrysene	Ave	100	99.5		1.032987	1.027407	-0.5	20
Dibenz(a,h)anthracene	Ave	100	94.8		1.058201	1.003381	-5.2	20
Fluoranthene	Ave	100	99.5		1.122704	1.116698	-0.5	20
Fluorene	Ave	100	101		1.246869	1.262232	1.2	20
Indeno(1,2,3-cd)pyrene	Ave	100	93.6		1.07625	1.006823	-6.5	20
2-Methylnaphthalene	Ave	100	99.6		0.7456587	0.7428067	-0.4	20
Naphthalene	Ave	100	94.7		1.031219	0.97672	-5.3	20
Phenanthrene	Ave	100	96.9		1.082295	1.048535	-3.1	20
Pyrene	Ave	100	101		1.338996	1.348332	0.7	20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	SV-GCMS14	Calibration:	A0H1005
Lab File ID:	N10232003.D	Calibration Date:	08/10/20 14:04
Sequence:	0J23034	Injection Date:	10/23/20
Lab Sample ID:	0J23034-CCV1	Injection Time:	10:59

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	100	99.8		1.224777	1.222162	-0.2	20
Acenaphthylene	Ave	100	104		1.676085	1.74615	4.2	20
Anthracene	Ave	100	111		0.8864905	0.9806986	10.6	20
Benz(a)anthracene	Ave	100	97.7		0.9997107	0.9767672	-2.3	20
Benzo(a)pyrene	Ave	100	103		0.7351622	0.7541135	2.6	20
Benzo(b)fluoranthene	Ave	100	100		1.013983	1.015089	0.1	20
Benzo(k)fluoranthene	Ave	100	100		0.9566106	0.9606889	0.4	20
Benzo(g,h,i)perylene	Ave	100	98.1		1.094263	1.073285	-1.9	20
Chrysene	Ave	100	99.8		1.032987	1.031384	-0.2	20
Dibenz(a,h)anthracene	Ave	100	95.2		1.058201	1.007133	-4.8	20
Fluoranthene	Ave	100	104		1.122704	1.169937	4.2	20
Fluorene	Ave	100	109		1.246869	1.353467	8.5	20
Indeno(1,2,3-cd)pyrene	Ave	100	92.7		1.07625	0.9981191	-7.3	20
2-Methylnaphthalene	Ave	100	101		0.7456587	0.7538399	1.1	20
Naphthalene	Ave	100	95.7		1.031219	0.9866363	-4.3	20
Phenanthrene	Ave	100	97.1		1.082295	1.051144	-2.9	20
Pyrene	Ave	100	92.2		1.338996	1.235261	-7.7	20

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

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0H07053	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0H07053-ICV1)				Lab File ID: N08072022.D		Analyzed: 08/07/20 23:23		
2-Fluorobiphenyl (Surr)	50.0	100	70 - 130	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	101	70 - 130	12.733	12.73078	0.0022	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J22053	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0J22053-CCV1)			Lab File ID: N10222003.D		Analyzed: 10/22/20 16:05			
2-Fluorobiphenyl (Surr)	100	103	80 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	100	106	80 - 120	12.732	12.73078	0.0012	+/-1.0	
Calibration Blank (0J22053-CCB1)			Lab File ID: N10222004.D		Analyzed: 10/22/20 16:37			
2-Fluorobiphenyl (Surr)			44 - 120	0	8.804667	-8.8047	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	12.733	12.73078	0.0022	+/-1.0	
Blank (0100764-BLK1)			Lab File ID: N10222005.D		Analyzed: 10/22/20 17:09			
2-Fluorobiphenyl (Surr)	45.5	91	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	108	54 - 127	12.733	12.73078	0.0022	+/-1.0	
LCS (0100764-BS1)			Lab File ID: N10222006.D		Analyzed: 10/22/20 17:41			
2-Fluorobiphenyl (Surr)	50.0	94	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	106	54 - 127	12.727	12.73078	-0.0038	+/-1.0	
USMPDI-045SG-201010 (A0J0371-10)			Lab File ID: N10222009.D		Analyzed: 10/22/20 19:18			
2-Fluorobiphenyl (Surr)	125	67	44 - 120	8.81	8.804667	0.0053	+/-1.0	
p-Terphenyl-d14 (Surr)	125	85	54 - 127	12.733	12.73078	0.0022	+/-1.0	
Matrix Spike (0100764-MS1)			Lab File ID: N10222010.D		Analyzed: 10/22/20 19:50			
2-Fluorobiphenyl (Surr)	124	74	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	124	95	54 - 127	12.727	12.73078	-0.0038	+/-1.0	
USMPDI-003SG-201011 (A0J0371-02)			Lab File ID: N10222011.D		Analyzed: 10/22/20 20:22			
2-Fluorobiphenyl (Surr)	113	66	44 - 120	8.81	8.804667	0.0053	+/-1.0	
p-Terphenyl-d14 (Surr)	113	84	54 - 127	12.732	12.73078	0.0012	+/-1.0	
USMPDI-021SG-201010 (A0J0371-06)			Lab File ID: N10222013.D		Analyzed: 10/22/20 21:26			
2-Fluorobiphenyl (Surr)	131	64	44 - 120	8.81	8.804667	0.0053	+/-1.0	
p-Terphenyl-d14 (Surr)	131	95	54 - 127	12.733	12.73078	0.0022	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J23034	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0J23034-CCV1)			Lab File ID: N10232003.D		Analyzed: 10/23/20 10:59			
2-Fluorobiphenyl (Surr)	100	100	80 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	100	103	80 - 120	12.732	12.73078	0.0012	+/-1.0	
Calibration Blank (0J23034-CCB1)			Lab File ID: N10232004.D		Analyzed: 10/23/20 11:31			
2-Fluorobiphenyl (Surr)			44 - 120	0	8.804667	-8.8047	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	12.733	12.73078	0.0022	+/-1.0	
USMPDI-012SG-201010 (A0J0371-05RE1)			Lab File ID: N10232006.D		Analyzed: 10/23/20 15:00			
2-Fluorobiphenyl (Surr)	123	70	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	123	92	54 - 127	12.733	12.73078	0.0022	+/-1.0	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J22053	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (0J22053-CCV1)			Lab File ID: N10222003.D			Analyzed: 10/22/20 16:05			
Naphthalene-d8 (ISTD)	262328	7.743	239628	7.737	109	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	160377	9.492	160491	9.492	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	305267	10.996	310167	10.996	98	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	260148	14.633	274150	14.633	95	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	221037	18.083	244609	18.083	90	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	163573	20.467	188292	20.467	87	50 - 200	0.0000	+/-0.50	
Calibration Blank (0J22053-CCB1)			Lab File ID: N10222004.D			Analyzed: 10/22/20 16:37			
Naphthalene-d8 (ISTD)	242049	7.743	262328	7.743	92	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	152210	9.492	160377	9.492	95	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	281216	10.996	305267	10.996	92	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	206900	14.633	260148	14.633	80	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	185109	18.083	221037	18.083	84	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	158429	20.467	163573	20.467	97	50 - 200	0.0000	+/-0.50	
Blank (0100764-BLK1)			Lab File ID: N10222005.D			Analyzed: 10/22/20 17:09			
Naphthalene-d8 (ISTD)	249163	7.743	262328	7.743	95	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	159162	9.492	160377	9.492	99	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	313430	10.996	305267	10.996	103	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	282228	14.633	260148	14.633	108	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	268366	18.083	221037	18.083	121	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	230260	20.467	163573	20.467	141	50 - 200	0.0000	+/-0.50	
LCS (0100764-BS1)			Lab File ID: N10222006.D			Analyzed: 10/22/20 17:41			
Naphthalene-d8 (ISTD)	250949	7.737	262328	7.743	96	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	165335	9.492	160377	9.492	103	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	326376	10.996	305267	10.996	107	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	292477	14.633	260148	14.633	112	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	266297	18.083	221037	18.083	120	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	216323	20.461	163573	20.467	132	50 - 200	-0.0060	+/-0.50	
Duplicate (0100764-DUP1)			Lab File ID: N10222008.D			Analyzed: 10/22/20 18:46			
Naphthalene-d8 (ISTD)	255913	7.737	262328	7.743	98	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	166139	9.492	160377	9.492	104	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	327117	10.996	305267	10.996	107	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	315304	14.633	260148	14.633	121	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	310832	18.083	221037	18.083	141	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	253664	20.467	163573	20.467	155	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J22053	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
USMPDI-045SG-201010 (A0J0371-10)			Lab File ID: N10222009.D			Analyzed: 10/22/20 19:18			
Naphthalene-d8 (ISTD)	252371	7.743	262328	7.743	96	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	164397	9.492	160377	9.492	103	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	325875	10.996	305267	10.996	107	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	312942	14.633	260148	14.633	120	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	308858	18.083	221037	18.083	140	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	256337	20.467	163573	20.467	157	50 - 200	0.0000	+/-0.50	
Matrix Spike (0100764-MS1)			Lab File ID: N10222010.D			Analyzed: 10/22/20 19:50			
Naphthalene-d8 (ISTD)	251515	7.738	262328	7.743	96	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10 (ISTD)	163680	9.492	160377	9.492	102	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	319187	10.996	305267	10.996	105	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	310634	14.633	260148	14.633	119	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	307981	18.083	221037	18.083	139	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	258683	20.461	163573	20.467	158	50 - 200	-0.0060	+/-0.50	
USMPDI-003SG-201011 (A0J0371-02)			Lab File ID: N10222011.D			Analyzed: 10/22/20 20:22			
Naphthalene-d8 (ISTD)	265037	7.743	262328	7.743	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	168216	9.492	160377	9.492	105	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	329765	10.996	305267	10.996	108	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	307959	14.633	260148	14.633	118	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	302945	18.083	221037	18.083	137	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	255992	20.467	163573	20.467	157	50 - 200	0.0000	+/-0.50	
USMPDI-021SG-201010 (A0J0371-06)			Lab File ID: N10222013.D			Analyzed: 10/22/20 21:26			
Naphthalene-d8 (ISTD)	260107	7.743	262328	7.743	99	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	169906	9.492	160377	9.492	106	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	335965	10.996	305267	10.996	110	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	300553	14.633	260148	14.633	116	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	291648	18.083	221037	18.083	132	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	250855	20.467	163573	20.467	153	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J23034	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (0J23034-CCV1)			Lab File ID: N10232003.D			Analyzed: 10/23/20 10:59			
Naphthalene-d8 (ISTD)	253522	7.737	239628	7.737	106	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	162584	9.492	160491	9.492	101	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	317283	10.995	310167	10.996	102	50 - 200	-0.0010	+/-0.50	
Chrysene-d12 (ISTD)	307582	14.638	274150	14.633	112	50 - 200	0.0050	+/-0.50	
Perylene-d12 (ISTD)	282846	18.083	244609	18.083	116	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	220112	20.467	188292	20.467	117	50 - 200	0.0000	+/-0.50	
Calibration Blank (0J23034-CCB1)			Lab File ID: N10232004.D			Analyzed: 10/23/20 11:31			
Naphthalene-d8 (ISTD)	251766	7.743	253522	7.737	99	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	158870	9.492	162584	9.492	98	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	302890	10.996	317283	10.995	95	50 - 200	0.0010	+/-0.50	
Chrysene-d12 (ISTD)	242940	14.633	307582	14.638	79	50 - 200	-0.0050	+/-0.50	
Perylene-d12 (ISTD)	225473	18.083	282846	18.083	80	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	193610	20.467	220112	20.467	88	50 - 200	0.0000	+/-0.50	
USMPDI-012SG-201010 (A0J0371-05RE1)			Lab File ID: N10232006.D			Analyzed: 10/23/20 15:00			
Naphthalene-d8 (ISTD)	257576	7.738	253522	7.737	102	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10 (ISTD)	163352	9.492	162584	9.492	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	322942	10.996	317283	10.995	102	50 - 200	0.0010	+/-0.50	
Chrysene-d12 (ISTD)	309036	14.633	307582	14.638	100	50 - 200	-0.0050	+/-0.50	
Perylene-d12 (ISTD)	307302	18.083	282846	18.083	109	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	258106	20.467	220112	20.467	117	50 - 200	0.0000	+/-0.50	

HOLDING TIME SUMMARY

EPA 8270E

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

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
USMPDI-003SG-201011	10/11/20 10:53	10/12/20 07:33	10/22/20 10:40	10.99	14.00	10/22/20 20:22	0.40	40.00	
USMPDI-012SG-201010	10/10/20 14:25	10/12/20 07:33	10/22/20 10:40	11.84	14.00	10/23/20 15:00	1.18	40.00	
USMPDI-021SG-201010	10/10/20 12:20	10/12/20 07:33	10/22/20 10:40	11.93	14.00	10/22/20 21:26	0.45	40.00	
USMPDI-045SG-201010	10/10/20 09:18	10/12/20 07:33	10/22/20 10:40	12.06	14.00	10/22/20 19:18	0.36	40.00	

Apex Laboratories

SDG: A0J0371

CLASS: WET

METHOD: D7511-12

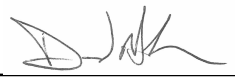
ANALYSES DATA PACKAGE COVER PAGE

D7511-12

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4

Client Sample Id:	Lab Sample Id:	Matrix
USMPDI-001SG-201011	A0J0371-01	SE
USMPDI-003SG-201011	A0J0371-02	SE
USMPDI-006SG-201010	A0J0371-03	SE
USMPDI-011SG-201011	A0J0371-04	SE
USMPDI-012SG-201010	A0J0371-05	SE
USMPDI-021SG-201010	A0J0371-06	SE
USMPDI-023SG-201010	A0J0371-07	SE
USMPDI-039SG-201010	A0J0371-08	SE
USMPDI-1039SG-201010	A0J0371-09	SE
USMPDI-045SG-201010	A0J0371-10	SE

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: 11/23/2020 2:11PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

D7511-12

Laboratory: Apex Laboratories **SDG:** A0J0371

Client: Anchor QEA, LLC **Project:** US Moorings -- C2, C3, C4

Batch Matrix: Soil

Analyte	MDL	MRL	Units
Total Cyanide	0.0500	0.100	mg/kg

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

INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-001SG-201011

Laboratory: Apex Laboratories | SDG: A0J0371

Client: Anchor QEA, LLC | Project: US Moorings -- C2, C3, C4

Matrix: SE | Laboratory ID: A0J0371-01RE1 | File ID: 0J15041A-080

Sampled: 10/11/20 12:41 | Prepared: 10/12/20 14:33 | Analyzed: 10/15/20 15:16

Solids: 40.84 | Preparation: ASTM D7511-12mod (S) | Initial/Final: 2.5314 g / 50 mL

Batch: 0100374 | Sequence: 0J15041 | Calibration: A0J1509 | Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	1.21	1		D7511-12

INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-003SG-201011

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-02RE1
File ID: 0J15041A-081
Sampled: 10/11/20 10:53
Prepared: 10/12/20 14:33
Analyzed: 10/15/20 15:18
Solids: 42.85
Preparation: ASTM D7511-12mod (S)
Initial/Final: 2.554 g / 50 mL
Batch: 0100374
Sequence: 0J15041
Calibration: A0J1509
Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	1.18	1		D7511-12

INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-006SG-201010

Laboratory: Apex Laboratories | SDG: A0J0371

Client: Anchor QEA, LLC | Project: US Moorings -- C2, C3, C4

Matrix: SE | Laboratory ID: A0J0371-03RE1 | File ID: 0J15041A-083

Sampled: 10/10/20 15:46 | Prepared: 10/12/20 14:33 | Analyzed: 10/15/20 15:22

Solids: 46.36 | Preparation: ASTM D7511-12mod (S) | Initial/Final: 2.5295 g / 50 mL

Batch: 0100374 | Sequence: 0J15041 | Calibration: A0J1509 | Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	0.975	1		D7511-12

INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-011SG-201011

Laboratory: Apex Laboratories | SDG: A0J0371

Client: Anchor QEA, LLC | Project: US Moorings -- C2, C3, C4

Matrix: SE | Laboratory ID: A0J0371-04 | File ID: 0J15041A-059

Sampled: 10/11/20 15:37 | Prepared: 10/12/20 14:33 | Analyzed: 10/15/20 14:22

Solids: 46.49 | Preparation: ASTM D7511-12mod (S) | Initial/Final: 2.5449 g / 50 mL

Batch: 0100374 | Sequence: 0J15041 | Calibration: A0J1509 | Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	9.96	10	D	D7511-12

INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-012SG-201010

Laboratory: Apex Laboratories | SDG: A0J0371

Client: Anchor QEA, LLC | Project: US Moorings -- C2, C3, C4

Matrix: SE | Laboratory ID: A0J0371-05RE1 | File ID: 0J15041A-084

Sampled: 10/10/20 14:25 | Prepared: 10/12/20 14:33 | Analyzed: 10/15/20 15:24

Solids: 40.59 | Preparation: ASTM D7511-12mod (S) | Initial/Final: 2.5395 g / 50 mL

Batch: 0100374 | Sequence: 0J15041 | Calibration: A0J1509 | Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	1.31	1		D7511-12

INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-021SG-201010

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Matrix: SE Laboratory ID: A0J0371-06RE1 File ID: 0J15041A-085

Sampled: 10/10/20 12:20 Prepared: 10/12/20 14:33 Analyzed: 10/15/20 15:26

Solids: 38.05 Preparation: ASTM D7511-12mod (S) Initial/Final: 2.5506 g / 50 mL

Batch: 0100374 Sequence: 0J15041 Calibration: A0J1509 Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	1.32	1		D7511-12

INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-023SG-201010

Laboratory: Apex Laboratories | SDG: A0J0371

Client: Anchor QEA, LLC | Project: US Moorings -- C2, C3, C4

Matrix: SE | Laboratory ID: A0J0371-07RE1 | File ID: 0J15041A-090

Sampled: 10/10/20 11:14 | Prepared: 10/12/20 14:33 | Analyzed: 10/15/20 15:37

Solids: 38.32 | Preparation: ASTM D7511-12mod (S) | Initial/Final: 2.5429 g / 50 mL

Batch: 0100374 | Sequence: 0J15041 | Calibration: A0J1509 | Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	2.02	1		D7511-12

INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-039SG-201010

Laboratory: Apex Laboratories | SDG: A0J0371

Client: Anchor QEA, LLC | Project: US Moorings -- C2, C3, C4

Matrix: SE | Laboratory ID: A0J0371-08RE2 | File ID: 0J15041A-109

Sampled: 10/10/20 10:39 | Prepared: 10/12/20 14:33 | Analyzed: 10/15/20 16:15

Solids: 37.72 | Preparation: ASTM D7511-12mod (S) | Initial/Final: 2.5027 g / 50 mL

Batch: 0100374 | Sequence: 0J15041 | Calibration: A0J1509 | Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	5.00	2	D	D7511-12

INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-1039SG-201010

Laboratory: Apex Laboratories | SDG: A0J0371

Client: Anchor QEA, LLC | Project: US Moorings -- C2, C3, C4

Matrix: SE | Laboratory ID: A0J0371-09RE1 | File ID: 0J15041A-095

Sampled: 10/10/20 10:39 | Prepared: 10/12/20 14:33 | Analyzed: 10/15/20 15:47

Solids: 37.49 | Preparation: ASTM D7511-12mod (S) | Initial/Final: 2.5391 g / 50 mL

Batch: 0100374 | Sequence: 0J15041 | Calibration: A0J1509 | Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	4.17	2	D	D7511-12

INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-045SG-201010

Laboratory: Apex Laboratories | SDG: A0J0371

Client: Anchor QEA, LLC | Project: US Moorings -- C2, C3, C4

Matrix: SE | Laboratory ID: A0J0371-10RE1 | File ID: 0J15041A-096

Sampled: 10/10/20 09:18 | Prepared: 10/12/20 14:33 | Analyzed: 10/15/20 15:49

Solids: 39.47 | Preparation: ASTM D7511-12mod (S) | Initial/Final: 2.5192 g / 50 mL

Batch: 0100374 | Sequence: 0J15041 | Calibration: A0J1509 | Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	11.8	10	D	D7511-12

PREPARATION BATCH SUMMARY

D7511-12

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Batch: 0100374 Batch Matrix: Soil Preparation: ASTM D7511-12mod (S)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0100374-BLK1	0J15041A-024	10/12/20 09:51	
LCS	0100374-BS1	0J15041A-025	10/12/20 09:51	
USMPDI-023SG-201010 (MS)	0100374-MS3	0J15041A-091	10/12/20 14:33	
USMPDI-023SG-201010 (MSD)	0100374-MSD3	0J15041A-092	10/12/20 14:33	
USMPDI-001SG-201011	A0J0371-01RE1	0J15041A-080	10/12/20 14:33	
USMPDI-003SG-201011	A0J0371-02RE1	0J15041A-081	10/12/20 14:33	
USMPDI-006SG-201010	A0J0371-03RE1	0J15041A-083	10/12/20 14:33	
USMPDI-011SG-201011	A0J0371-04	0J15041A-059	10/12/20 14:33	
USMPDI-012SG-201010	A0J0371-05RE1	0J15041A-084	10/12/20 14:33	
USMPDI-021SG-201010	A0J0371-06RE1	0J15041A-085	10/12/20 14:33	
USMPDI-023SG-201010	A0J0371-07RE1	0J15041A-090	10/12/20 14:33	
USMPDI-039SG-201010	A0J0371-08RE2	0J15041A-109	10/12/20 14:33	
USMPDI-1039SG-201010	A0J0371-09RE1	0J15041A-095	10/12/20 14:33	
USMPDI-045SG-201010	A0J0371-10RE1	0J15041A-096	10/12/20 14:33	

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
D7511-12

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	Soil	Laboratory ID:	0100374-BLK1	File ID:	0J15041A-024
Prepared:	10/12/20 09:51	Preparation:	ASTM D7511-12mod (S)	Initial/Final:	2.5 g / 50 mL
Analyzed:	10/15/20 13:12	Instrument:	OIA FS3000-2		
Batch:	0100374	Sequence:	0J15041	Calibration:	A0J1509

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
57-12-5	Total Cyanide	0.0500	U

LCS / LCS DUPLICATE RECOVERY

D7511-12

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Matrix:	Soil		
Batch:	0100374	Laboratory ID:	0100374-BS1
Preparation:	ASTM D7511-12mod (S)	Initial/Final:	2.5 g / 50 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
Total Cyanide	0.400	0.395	99	84 - 116

* = Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

D7511-12

USMPDI-023SG-201010

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Matrix:	Soil		
Batch:	0100374	Laboratory ID:	0100374-MS3
Preparation:	ASTM D7511-12mod (S)	Initial/Final:	2.52 g / 50 mL

Source Sample Name: USMPDI-023SG-201010

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Total Cyanide	1.04	2.40	2.59	18 *	64 - 136

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

D7511-12

USMPDI-023SG-201010

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Matrix:	Soil		
Batch:	0100374	Laboratory ID:	0100374-MSD3
Preparation:	ASTM D7511-12mod (S)	Initial/Final:	2.5179 g / 50 mL

Source Sample Name: USMPDI-023SG-201010

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS RPD	QC LIMITS REC.
Total Cyanide	1.04	1.98	-40 *	26	47	64 - 136

ANALYSIS BATCH (SEQUENCE) SUMMARY

D7511-12

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J15041	Instrument:	OIA FS3000-2
Matrix:	Soil	Calibration:	A0J1509

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0J15041-CAL2	0J15041A-008	10/15/20 12:40
Cal Standard	0J15041-CAL3	0J15041A-009	10/15/20 12:42
Cal Standard	0J15041-CAL4	0J15041A-010	10/15/20 12:44
Cal Standard	0J15041-CAL5	0J15041A-011	10/15/20 12:46
Cal Standard	0J15041-CAL6	0J15041A-012	10/15/20 12:48
Cal Standard	0J15041-CAL7	0J15041A-013	10/15/20 12:50
Initial Cal Check	0J15041-ICV1	0J15041A-016	10/15/20 12:56
Initial Cal Blank	0J15041-ICB1	0J15041A-017	10/15/20 12:58
Blank	0100374-BLK1	0J15041A-024	10/15/20 13:12
LCS	0100374-BS1	0J15041A-025	10/15/20 13:14
Calibration Check	0J15041-CCV1	0J15041A-034	10/15/20 13:32
Calibration Blank	0J15041-CCB1	0J15041A-035	10/15/20 13:34
Calibration Check	0J15041-CCV2	0J15041A-052	10/15/20 14:08
Calibration Blank	0J15041-CCB2	0J15041A-053	10/15/20 14:10
USMPDI-011SG-201011	A0J0371-04	0J15041A-059	10/15/20 14:22
Calibration Check	0J15041-CCV3	0J15041A-070	10/15/20 14:44
Calibration Blank	0J15041-CCB3	0J15041A-071	10/15/20 14:46
USMPDI-001SG-201011	A0J0371-01RE1	0J15041A-080	10/15/20 15:16
USMPDI-003SG-201011	A0J0371-02RE1	0J15041A-081	10/15/20 15:18
USMPDI-006SG-201010	A0J0371-03RE1	0J15041A-083	10/15/20 15:22
USMPDI-012SG-201010	A0J0371-05RE1	0J15041A-084	10/15/20 15:24
USMPDI-021SG-201010	A0J0371-06RE1	0J15041A-085	10/15/20 15:26
Calibration Check	0J15041-CCV4	0J15041A-087	10/15/20 15:30
Calibration Blank	0J15041-CCB4	0J15041A-088	10/15/20 15:32
USMPDI-023SG-201010	A0J0371-07RE1	0J15041A-090	10/15/20 15:37
USMPDI-023SG-201010 (MS)	0100374-MS3	0J15041A-091	10/15/20 15:39
USMPDI-023SG-201010 (MSD)	0100374-MSD3	0J15041A-092	10/15/20 15:41
USMPDI-1039SG-201010	A0J0371-09RE1	0J15041A-095	10/15/20 15:47
USMPDI-045SG-201010	A0J0371-10RE1	0J15041A-096	10/15/20 15:49
Calibration Check	0J15041-CCV5	0J15041A-098	10/15/20 15:53
Calibration Blank	0J15041-CCB5	0J15041A-099	10/15/20 15:55
USMPDI-039SG-201010	A0J0371-08RE2	0J15041A-109	10/15/20 16:15
Calibration Check	0J15041-CCV6	0J15041A-112	10/15/20 16:33

ANALYSIS BATCH (SEQUENCE) SUMMARY

D7511-12

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J15041	Instrument:	OIA FS3000-2
Matrix:	Soil	Calibration:	A0J1509

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	0J15041-CCB6	0J15041A-113	10/15/20 16:35

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.

INITIAL CALIBRATION DATA (Summary)

D7511-12

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Calibration: A0J1509 Date: 10/15/20 16:57 Instrument: OIA FS3000-2

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Total Cyanide	31457.36	Q **	54.81802				0.9997577		

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

D7511-12

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Calibration:	A0J1509	Instrument:	OIA FS3000-2
		Calibration Date:	10/15/20 16:57

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Total Cyanide	50	44917.86	25	44584.92	10	42832.5	5	31089.4	2	24847.5	1	472

INITIAL AND CONTINUING CALIBRATION CHECK

D7511-12

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Instrument ID: OIA FS3000-2
Calibration: A0J1509
Control Limt: +/- 10.00%
Sequence: 0J15041

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0J15041-ICV1	Total Cyanide	25.0	23.8	95	ug/L	D7511-12
0J15041-CCV1	Total Cyanide	25.0	24.5	98	ug/L	D7511-12
0J15041-CCV2	Total Cyanide	25.0	24.5	98	ug/L	D7511-12
0J15041-CCV3	Total Cyanide	25.0	24.2	97	ug/L	D7511-12
0J15041-CCV4	Total Cyanide	25.0	25.3	101	ug/L	D7511-12
0J15041-CCV5	Total Cyanide	25.0	25.9	104	ug/L	D7511-12
0J15041-CCV6	Total Cyanide	25.0	26.7	107	ug/L	D7511-12

* Values outside of QC limits

INSTRUMENT BLANKS
D7511-12

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Instrument ID: OIA FS3000-2
Project: US Moorings -- C2, C3, C4
Sequence: 0J15041
Calibration: A0J1509

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0J15041-ICB1	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J15041-CCB1	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J15041-CCB2	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J15041-CCB3	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J15041-CCB4	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J15041-CCB5	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J15041-CCB6	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12

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

HOLDING TIME SUMMARY

D7511-12

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

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
USMPDI-001SG-201011	10/11/20 12:41	10/12/20 07:33	10/12/20 14:33	1.08	14.00	10/15/20 15:16	4.11	14.00	
USMPDI-003SG-201011	10/11/20 10:53	10/12/20 07:33	10/12/20 14:33	1.15	14.00	10/15/20 15:18	4.18	14.00	
USMPDI-006SG-201010	10/10/20 15:46	10/12/20 07:33	10/12/20 14:33	1.95	14.00	10/15/20 15:22	4.98	14.00	
USMPDI-011SG-201011	10/11/20 15:37	10/12/20 07:33	10/12/20 14:33	0.96	14.00	10/15/20 14:22	3.95	14.00	
USMPDI-012SG-201010	10/10/20 14:25	10/12/20 07:33	10/12/20 14:33	2.01	14.00	10/15/20 15:24	5.04	14.00	
USMPDI-021SG-201010	10/10/20 12:20	10/12/20 07:33	10/12/20 14:33	2.09	14.00	10/15/20 15:26	5.13	14.00	
USMPDI-023SG-201010	10/10/20 11:14	10/12/20 07:33	10/12/20 14:33	2.14	14.00	10/15/20 15:37	5.18	14.00	
USMPDI-039SG-201010	10/10/20 10:39	10/12/20 07:33	10/12/20 14:33	2.16	14.00	10/15/20 16:15	5.23	14.00	
USMPDI-1039SG-201010	10/10/20 10:39	10/12/20 07:33	10/12/20 14:33	2.16	14.00	10/15/20 15:47	5.21	14.00	
USMPDI-045SG-201010	10/10/20 09:18	10/12/20 07:33	10/12/20 14:33	2.22	14.00	10/15/20 15:49	5.27	14.00	

Apex Laboratories

SDG: A0J0371

CLASS: WET

METHOD: PSEP_SM 5310B MOD

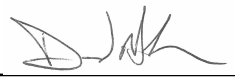
ANALYSES DATA PACKAGE COVER PAGE

PSEP_SM 5310B MOD

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4

Client Sample Id:	Lab Sample Id:	Matrix
USMPDI-001SG-201011	A0J0371-01	SE
USMPDI-003SG-201011	A0J0371-02	SE
USMPDI-006SG-201010	A0J0371-03	SE
USMPDI-011SG-201011	A0J0371-04	SE
USMPDI-012SG-201010	A0J0371-05	SE
USMPDI-021SG-201010	A0J0371-06	SE
USMPDI-023SG-201010	A0J0371-07	SE
USMPDI-039SG-201010	A0J0371-08	SE
USMPDI-1039SG-201010	A0J0371-09	SE
USMPDI-045SG-201010	A0J0371-10	SE

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: 11/23/2020 2:11PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

PSEP_SM 5310B MOD

Laboratory: Apex Laboratories **SDG:** A0J0371

Client: Anchor QEA, LLC **Project:** US Moorings -- C2, C3, C4

Batch Matrix: Soil

Analyte	MDL	MRL	Units
Total Organic Carbon	0.020	0.020	%

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

INORGANIC ANALYSIS DATA SHEET

PSEP_SM 5310B MOD

USMPDI-001SG-201011

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Matrix: SE Laboratory ID: A0J0371-01 File ID: 0J16020.txt-007

Sampled: 10/11/20 12:41 Prepared: 10/14/20 09:59 Analyzed: 10/16/20 12:12

Solids: 40.84 Preparation: PSEP-5310B TOC Initial/Final: 0.2 N/A / 0.2 N/A

Batch: 0100457 Sequence: 0J16020 Calibration: A0H1904 Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.3	1		PSEP_SM 5310B MOD

INORGANIC ANALYSIS DATA SHEET

PSEP_SM 5310B MOD

USMPDI-003SG-201011

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Matrix: SE Laboratory ID: A0J0371-02 File ID: 0J16020.txt-010

Sampled: 10/11/20 10:53 Prepared: 10/14/20 09:59 Analyzed: 10/16/20 12:44

Solids: 42.85 Preparation: PSEP-5310B TOC Initial/Final: 0.2 N/A / 0.2 N/A

Batch: 0100457 Sequence: 0J16020 Calibration: A0H1904 Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.2	1		PSEP_SM 5310B MOD

INORGANIC ANALYSIS DATA SHEET

PSEP_SM 5310B MOD

USMPDI-006SG-201010

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Matrix: SE Laboratory ID: A0J0371-03 File ID: 0J16020.txt-011

Sampled: 10/10/20 15:46 Prepared: 10/14/20 09:59 Analyzed: 10/16/20 12:55

Solids: 46.36 Preparation: PSEP-5310B TOC Initial/Final: 0.2 N/A / 0.2 N/A

Batch: 0100457 Sequence: 0J16020 Calibration: A0H1904 Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	1.8	1		PSEP_SM 5310B MOD

INORGANIC ANALYSIS DATA SHEET

PSEP_SM 5310B MOD

USMPDI-011SG-201011

Laboratory: Apex Laboratories | SDG: A0J0371

Client: Anchor QEA, LLC | Project: US Moorings -- C2, C3, C4

Matrix: SE | Laboratory ID: A0J0371-04 | File ID: 0J16020.txt-012

Sampled: 10/11/20 15:37 | Prepared: 10/14/20 09:59 | Analyzed: 10/16/20 13:06

Solids: 46.49 | Preparation: PSEP-5310B TOC | Initial/Final: 0.2 N/A / 0.2 N/A

Batch: 0100457 | Sequence: 0J16020 | Calibration: A0H1904 | Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.2	1		PSEP_SM 5310B MOD

INORGANIC ANALYSIS DATA SHEET

PSEP_SM 5310B MOD

USMPDI-012SG-201010

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-05
File ID: 0J16020.txt-013
Sampled: 10/10/20 14:25
Prepared: 10/14/20 09:59
Analyzed: 10/16/20 13:17
Solids: 40.59
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0100457
Sequence: 0J16020
Calibration: A0H1904
Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.4	1		PSEP_SM 5310B MOD

INORGANIC ANALYSIS DATA SHEET

PSEP_SM 5310B MOD

USMPDI-021SG-201010

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Matrix: SE Laboratory ID: A0J0371-06 File ID: 0J16020.txt-014

Sampled: 10/10/20 12:20 Prepared: 10/14/20 09:59 Analyzed: 10/16/20 13:28

Solids: 38.05 Preparation: PSEP-5310B TOC Initial/Final: 0.2 N/A / 0.2 N/A

Batch: 0100457 Sequence: 0J16020 Calibration: A0H1904 Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.5	1		PSEP_SM 5310B MOD

INORGANIC ANALYSIS DATA SHEET

PSEP_SM 5310B MOD

USMPDI-023SG-201010

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Matrix: SE Laboratory ID: A0J0371-07 File ID: 0J16020.txt-017

Sampled: 10/10/20 11:14 Prepared: 10/14/20 09:59 Analyzed: 10/16/20 14:00

Solids: 38.32 Preparation: PSEP-5310B TOC Initial/Final: 0.2 N/A / 0.2 N/A

Batch: 0100457 Sequence: 0J16020 Calibration: A0H1904 Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.4	1		PSEP_SM 5310B MOD

INORGANIC ANALYSIS DATA SHEET

PSEP_SM 5310B MOD

USMPDI-039SG-201010

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Matrix: SE Laboratory ID: A0J0371-08 File ID: 0J16020.txt-019

Sampled: 10/10/20 10:39 Prepared: 10/14/20 09:59 Analyzed: 10/16/20 14:22

Solids: 37.72 Preparation: PSEP-5310B TOC Initial/Final: 0.2 N/A / 0.2 N/A

Batch: 0100457 Sequence: 0J16020 Calibration: A0H1904 Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.7	1		PSEP_SM 5310B MOD

INORGANIC ANALYSIS DATA SHEET

PSEP_SM 5310B MOD

USMPDI-1039SG-201010

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-09
File ID: 0J16020.txt-020
Sampled: 10/10/20 10:39
Prepared: 10/14/20 09:59
Analyzed: 10/16/20 14:32
Solids: 37.49
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0100457
Sequence: 0J16020
Calibration: A0H1904
Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.7	1		PSEP_SM 5310B MOD

INORGANIC ANALYSIS DATA SHEET

PSEP_SM 5310B MOD

USMPDI-045SG-201010

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-10
File ID: 0J16020.txt-021
Sampled: 10/10/20 09:18
Prepared: 10/14/20 09:59
Analyzed: 10/16/20 14:43
Solids: 39.47
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Batch: 0100457
Sequence: 0J16020
Calibration: A0H1904
Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.7	1		PSEP_SM 5310B MOD

PREPARATION BATCH SUMMARY

PSEP_SM 5310B MOD

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Batch: 0100457 Batch Matrix: Soil
Preparation: PSEP-5310B TOC

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0100457-BLK1	0J16020.txt-005	10/14/20 09:59	
LCS	0100457-BS1	0J16020.txt-006	10/14/20 09:59	
USMPDI-001SG-201011 (Dup)	0100457-DUP1	0J16020.txt-008	10/14/20 09:59	
USMPDI-001SG-201011 (Dup)	0100457-DUP2	0J16020.txt-009	10/14/20 09:59	
USMPDI-023SG-201010 (Dup)	0100457-DUP3	0J16020.txt-018	10/14/20 09:59	
USMPDI-001SG-201011	A0J0371-01	0J16020.txt-007	10/14/20 09:59	
USMPDI-003SG-201011	A0J0371-02	0J16020.txt-010	10/14/20 09:59	
USMPDI-006SG-201010	A0J0371-03	0J16020.txt-011	10/14/20 09:59	
USMPDI-011SG-201011	A0J0371-04	0J16020.txt-012	10/14/20 09:59	
USMPDI-012SG-201010	A0J0371-05	0J16020.txt-013	10/14/20 09:59	
USMPDI-021SG-201010	A0J0371-06	0J16020.txt-014	10/14/20 09:59	
USMPDI-023SG-201010	A0J0371-07	0J16020.txt-017	10/14/20 09:59	
USMPDI-039SG-201010	A0J0371-08	0J16020.txt-019	10/14/20 09:59	
USMPDI-1039SG-201010	A0J0371-09	0J16020.txt-020	10/14/20 09:59	
USMPDI-045SG-201010	A0J0371-10	0J16020.txt-021	10/14/20 09:59	

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
PSEP_SM 5310B MOD

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	Soil	Laboratory ID:	0100457-BLK1	File ID:	0J16020.txt-005
Prepared:	10/14/20 09:59	Preparation:	PSEP-5310B TOC	Initial/Final:	0.2 N/A / 0.2 N/A
Analyzed:	10/16/20 11:50	Instrument:	TOC6		
Batch:	0100457	Sequence:	0J16020	Calibration:	A0H1904

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

LCS / LCS DUPLICATE RECOVERY

PSEP_SM 5310B MOD

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Matrix:	Soil		
Batch:	0100457	Laboratory ID:	0100457-BS1
Preparation:	PSEP-5310B TOC	Initial/Final:	0.2 N/A / 0.2 N/A

COMPOUND	SPIKE ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS % REC. (*=Out)	QC LIMITS REC.
Total Organic Carbon	10000	9600	96	88 - 111

* = Values outside of QC limits

DUPLICATES

USMPDI-001SG-201011

PSEP_SM 5310B MOD

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: Soil
Laboratory ID: 0100457-DUP1
Batch: 0100457
Lab Source ID: A0J0371-01
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Source Sample Name: USMPDI-001SG-201011
% Solids: 40.84

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% dry)	C	DUPLICATE CONCENTRATION (% dry)	C	RPD %	Q	METHOD
Total Organic Carbon	27	2.3		2.3		0.5		*SEP_SM 5310B MOI

* Values outside of QC limits

DUPLICATES

USMPDI-001SG-201011

PSEP_SM 5310B MOD

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: Soil
Laboratory ID: 0100457-DUP2
Batch: 0100457
Lab Source ID: A0J0371-01
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Source Sample Name: USMPDI-001SG-201011
% Solids: 40.84

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% dry)	C	DUPLICATE CONCENTRATION (% dry)	C	RPD %	Q	METHOD
Total Organic Carbon	27	2.3		2.3		2		PSEP_SM 5310B MOD

* Values outside of QC limits

DUPLICATES

USMPDI-023SG-201010

PSEP_SM 5310B MOD

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: Soil
Laboratory ID: 0100457-DUP3
Batch: 0100457
Lab Source ID: A0J0371-07
Preparation: PSEP-5310B TOC
Initial/Final: 0.2 N/A / 0.2 N/A
Source Sample Name: USMPDI-023SG-201010
% Solids: 38.32

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% dry)	C	DUPLICATE CONCENTRATION (% dry)	C	RPD %	Q	METHOD
Total Organic Carbon	27	2.4		2.5		5		PSEP_SM 5310B MOD

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

PSEP_SM 5310B MOD

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0H18059	Instrument:	TOC6
Matrix:	Soil	Calibration:	A0H1904

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0H18059-CAL2	0H18059.txt-005	08/18/20 17:43
Cal Standard	0H18059-CAL3	0H18059.txt-006	08/18/20 17:53
Cal Standard	0H18059-CAL4	0H18059.txt-007	08/18/20 18:04
Cal Standard	0H18059-CAL5	0H18059.txt-008	08/18/20 18:15
Cal Standard	0H18059-CAL6	0H18059.txt-009	08/18/20 18:26
Cal Standard	0H18059-CAL7	0H18059.txt-010	08/18/20 18:37
Cal Standard	0H18059-CAL8	0H18059.txt-011	08/18/20 18:47
Cal Standard	0H18059-CAL9	0H18059.txt-012	08/18/20 18:58
Initial Cal Check	0H18059-ICV1	0H18059.txt-014	08/18/20 19:20
Initial Cal Blank	0H18059-ICB1	0H18059.txt-015	08/18/20 19:31

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

PSEP_SM 5310B MOD

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J16020	Instrument:	TOC6
Matrix:	Soil	Calibration:	A0H1904

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0J16020-CCV1	0J16020.txt-003	10/16/20 11:29
Calibration Blank	0J16020-CCB1	0J16020.txt-004	10/16/20 11:40
Blank	0100457-BLK1	0J16020.txt-005	10/16/20 11:50
LCS	0100457-BS1	0J16020.txt-006	10/16/20 12:01
USMPDI-001SG-201011	A0J0371-01	0J16020.txt-007	10/16/20 12:12
USMPDI-001SG-201011 (Dup)	0100457-DUP1	0J16020.txt-008	10/16/20 12:23
USMPDI-001SG-201011 (Dup)	0100457-DUP2	0J16020.txt-009	10/16/20 12:34
USMPDI-003SG-201011	A0J0371-02	0J16020.txt-010	10/16/20 12:44
USMPDI-006SG-201010	A0J0371-03	0J16020.txt-011	10/16/20 12:55
USMPDI-011SG-201011	A0J0371-04	0J16020.txt-012	10/16/20 13:06
USMPDI-012SG-201010	A0J0371-05	0J16020.txt-013	10/16/20 13:17
USMPDI-021SG-201010	A0J0371-06	0J16020.txt-014	10/16/20 13:28
Calibration Check	0J16020-CCV2	0J16020.txt-015	10/16/20 13:38
Calibration Blank	0J16020-CCB2	0J16020.txt-016	10/16/20 13:49
USMPDI-023SG-201010	A0J0371-07	0J16020.txt-017	10/16/20 14:00
USMPDI-023SG-201010 (Dup)	0100457-DUP3	0J16020.txt-018	10/16/20 14:11
USMPDI-039SG-201010	A0J0371-08	0J16020.txt-019	10/16/20 14:22
USMPDI-1039SG-201010	A0J0371-09	0J16020.txt-020	10/16/20 14:32
USMPDI-045SG-201010	A0J0371-10	0J16020.txt-021	10/16/20 14:43
Calibration Check	0J16020-CCV3	0J16020.txt-027	10/16/20 15:48
Calibration Blank	0J16020-CCB3	0J16020.txt-028	10/16/20 15:59

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)

PSEP_SM 5310B MOD

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Calibration: A0H1904 Date: 08/19/20 16:15 Instrument: TOC6

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Total Organic Carbon	138.9486	Lin	5.543524			0.99974			

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

PSEP_SM 5310B MOD

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Calibration: A0H1904
Instrument: TOC6
Calibration Date: 08/19/20 16:15

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	200	152.6808	500	143.8895	1000	143.7313	2500	130.8668	5000	130.5313	12500	139.2529
Total Organic Carbon	200	152.6808	500	143.8895	1000	143.7313	2500	130.8668	5000	130.5313	12500	139.2529

INITIAL CALIBRATION DATA (Continued)

PSEP_SM 5310B MOD

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Calibration:	A0H1904	Instrument:	TOC6
Matrix:		Calibration Date:	08/19/20 16:15

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	138.2198	50000	132.4167								
Total Organic Carbon	25000	138.2198	50000	132.4167								

INITIAL AND CONTINUING CALIBRATION CHECK

PSEP_SM 5310B MOD

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Instrument ID: TOC6
Calibration: A0H1904
Control Limt: +/- 10.00%
Sequence: 0H18059

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0H18059-ICV1	Total Organic Carbon	10000	9800	98	mg/kg	PSEP_SM 5310B MOD

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

PSEP_SM 5310B MOD

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Instrument ID: TOC6
Calibration: A0H1904
Control Limt: +/- 10.00%
Sequence: 0J16020

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0J16020-CCV1	Total Organic Carbon	10000	9500	95	mg/kg	PSEP_SM 5310B MOD
0J16020-CCV2	Total Organic Carbon	10000	9300	93	mg/kg	PSEP_SM 5310B MOD
0J16020-CCV3	Total Organic Carbon	10000	9400	94	mg/kg	PSEP_SM 5310B MOD

* Values outside of QC limits

INSTRUMENT BLANKS
PSEP_SM 5310B MOD

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Instrument ID: TOC6
Project: US Moorings -- C2, C3, C4
Sequence: 0H18059
Calibration: A0H1904

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0H18059-ICB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		PSEP_SM 5310B MOD

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

INSTRUMENT BLANKS
PSEP_SM 5310B MOD

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Instrument ID: TOC6
Project: US Moorings -- C2, C3, C4
Sequence: 0J16020
Calibration: A0H1904

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0J16020-CCB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		PSEP_SM 5310B MOD
0J16020-CCB2	Total Organic Carbon	ND	200 (Inst)	mg/kg		PSEP_SM 5310B MOD
0J16020-CCB3	Total Organic Carbon	ND	200 (Inst)	mg/kg		PSEP_SM 5310B MOD

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

HOLDING TIME SUMMARY

PSEP_SM 5310B MOD

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

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
USMPDI-001SG-201011	10/11/20 12:41	10/12/20 07:33	10/14/20 09:59	2.89	28.00	10/16/20 12:12	4.98	28.00	
USMPDI-003SG-201011	10/11/20 10:53	10/12/20 07:33	10/14/20 09:59	2.96	28.00	10/16/20 12:44	5.08	28.00	
USMPDI-006SG-201010	10/10/20 15:46	10/12/20 07:33	10/14/20 09:59	3.76	28.00	10/16/20 12:55	5.88	28.00	
USMPDI-011SG-201011	10/11/20 15:37	10/12/20 07:33	10/14/20 09:59	2.77	28.00	10/16/20 13:06	4.90	28.00	
USMPDI-012SG-201010	10/10/20 14:25	10/12/20 07:33	10/14/20 09:59	3.82	28.00	10/16/20 13:17	5.95	28.00	
USMPDI-021SG-201010	10/10/20 12:20	10/12/20 07:33	10/14/20 09:59	3.90	28.00	10/16/20 13:28	6.05	28.00	
USMPDI-023SG-201010	10/10/20 11:14	10/12/20 07:33	10/14/20 09:59	3.95	28.00	10/16/20 14:00	6.12	28.00	
USMPDI-039SG-201010	10/10/20 10:39	10/12/20 07:33	10/14/20 09:59	3.97	28.00	10/16/20 14:22	6.15	28.00	
USMPDI-1039SG-201010	10/10/20 10:39	10/12/20 07:33	10/14/20 09:59	3.97	28.00	10/16/20 14:32	6.16	28.00	
USMPDI-045SG-201010	10/10/20 09:18	10/12/20 07:33	10/14/20 09:59	4.03	28.00	10/16/20 14:43	6.23	28.00	

Apex Laboratories

SDG: A0J0371

CLASS: WET

METHOD: SM 2540 G

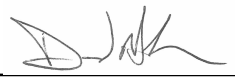
ANALYSES DATA PACKAGE COVER PAGE

SM 2540 G

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4

Client Sample Id:	Lab Sample Id:	Matrix
USMPDI-001SG-201011	A0J0371-01	SE
USMPDI-003SG-201011	A0J0371-02	SE
USMPDI-006SG-201010	A0J0371-03	SE
USMPDI-011SG-201011	A0J0371-04	SE
USMPDI-012SG-201010	A0J0371-05	SE
USMPDI-021SG-201010	A0J0371-06	SE
USMPDI-023SG-201010	A0J0371-07	SE
USMPDI-039SG-201010	A0J0371-08	SE
USMPDI-1039SG-201010	A0J0371-09	SE
USMPDI-045SG-201010	A0J0371-10	SE

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: 11/23/2020 2:11PM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G

Laboratory: Apex Laboratories **SDG:** A0J0371

Client: Anchor QEA, LLC **Project:** US Moorings -- C2, C3, C4

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Total Solids	1.00	1.00	%

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

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-001SG-201011

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-01
Sampled: 10/11/20 12:41
Prepared: 10/14/20 10:00
Analyzed: 10/15/20 14:45
Solids: 40.84
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0100456
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	40.8	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-003SG-201011

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-02
Sampled: 10/11/20 10:53
Prepared: 10/14/20 10:00
Analyzed: 10/15/20 14:45
Solids: 42.85
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0100456
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	42.8	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-006SG-201010

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-03
Sampled: 10/10/20 15:46
Prepared: 10/14/20 10:00
Analyzed: 10/15/20 14:45
Solids: 46.36
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0100456
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	46.4	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-011SG-201011

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-04
Sampled: 10/11/20 15:37
Prepared: 10/14/20 10:00
Analyzed: 10/15/20 14:45
Solids: 46.49
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0100456
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	46.5	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-012SG-201010

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-05
Sampled: 10/10/20 14:25
Prepared: 10/14/20 10:00
Analyzed: 10/15/20 14:45
Solids: 40.59
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0100456
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	40.6	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-021SG-201010

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-06
Sampled: 10/10/20 12:20
Prepared: 10/14/20 10:00
Analyzed: 10/15/20 14:45
Solids: 38.05
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0100456
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	38.0	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-023SG-201010

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-07
Sampled: 10/10/20 11:14
Prepared: 10/14/20 10:00
Analyzed: 10/16/20 09:59
Solids: 38.32
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0100456
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	38.3	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-039SG-201010

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-08
Sampled: 10/10/20 10:39
Prepared: 10/14/20 10:00
Analyzed: 10/15/20 14:45
Solids: 37.72
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0100456
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	37.7	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-1039SG-201010

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-09
Sampled: 10/10/20 10:39
Prepared: 10/14/20 10:00
Analyzed: 10/15/20 14:45
Solids: 37.49
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0100456
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	37.5	1		SM 2540 G

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-045SG-201010

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Matrix: SE
Laboratory ID: A0J0371-10
Sampled: 10/10/20 09:18
Prepared: 10/14/20 10:00
Analyzed: 10/15/20 14:45
Solids: 39.47
Preparation: Total Solids (SM2540G/PSEP)
Initial/Final: 1 N/A / 1 N/A
Batch: 0100456
Calibration:
Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	39.5	1		SM 2540 G

PREPARATION BATCH SUMMARY

SM 2540 G

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Batch: 0100456 Batch Matrix: Sediment Preparation: Total Solids (SM2540G/PSEP)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
USMPDI-023SG-201010 (Dup)	0100456-DUP1		10/14/20 10:00	
USMPDI-001SG-201011	A0J0371-01		10/14/20 10:00	
USMPDI-003SG-201011	A0J0371-02		10/14/20 10:00	
USMPDI-006SG-201010	A0J0371-03		10/14/20 10:00	
USMPDI-011SG-201011	A0J0371-04		10/14/20 10:00	
USMPDI-012SG-201010	A0J0371-05		10/14/20 10:00	
USMPDI-021SG-201010	A0J0371-06		10/14/20 10:00	
USMPDI-023SG-201010	A0J0371-07		10/14/20 10:00	
USMPDI-039SG-201010	A0J0371-08		10/14/20 10:00	
USMPDI-1039SG-201010	A0J0371-09		10/14/20 10:00	
USMPDI-045SG-201010	A0J0371-10		10/14/20 10:00	

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.

DUPLICATES

USMPDI-023SG-201010

SM 2540 G

Laboratory: Apex Laboratories
Client: Anchor QEA, LLC
Matrix: Sediment
Batch: 0100456
Preparation: Total Solids (SM2540G/PSEP)
Source Sample Name: USMPDI-023SG-201010

SDG: A0J0371
Project: US Moorings -- C2, C3, C4
Laboratory ID: 0100456-DUP1
Lab Source ID: A0J0371-07
Initial/Final: 1 N/A / 1 N/A
% Solids: 38.32

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (%)	C	DUPLICATE CONCENTRATION (%)	C	RPD %	Q	METHOD
Total Solids	10	38.3		37.9		1		SM 2540 G

* Values outside of QC limits

HOLDING TIME SUMMARY

SM 2540 G

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

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
USMPDI-001SG-201011	10/11/20 12:41	10/12/20 07:33	10/14/20 10:00	2.89	180.00	10/15/20 14:45	1.20		
USMPDI-003SG-201011	10/11/20 10:53	10/12/20 07:33	10/14/20 10:00	2.96	180.00	10/15/20 14:45	1.20		
USMPDI-006SG-201010	10/10/20 15:46	10/12/20 07:33	10/14/20 10:00	3.76	180.00	10/15/20 14:45	1.20		
USMPDI-011SG-201011	10/11/20 15:37	10/12/20 07:33	10/14/20 10:00	2.77	180.00	10/15/20 14:45	1.20		
USMPDI-012SG-201010	10/10/20 14:25	10/12/20 07:33	10/14/20 10:00	3.82	180.00	10/15/20 14:45	1.20		
USMPDI-021SG-201010	10/10/20 12:20	10/12/20 07:33	10/14/20 10:00	3.90	180.00	10/15/20 14:45	1.20		
USMPDI-023SG-201010	10/10/20 11:14	10/12/20 07:33	10/14/20 10:00	3.95	180.00	10/16/20 09:59	2.00		
USMPDI-039SG-201010	10/10/20 10:39	10/12/20 07:33	10/14/20 10:00	3.97	180.00	10/15/20 14:45	1.20		
USMPDI-1039SG-201010	10/10/20 10:39	10/12/20 07:33	10/14/20 10:00	3.97	180.00	10/15/20 14:45	1.20		
USMPDI-045SG-201010	10/10/20 09:18	10/12/20 07:33	10/14/20 10:00	4.03	180.00	10/15/20 14:45	1.20		

Raw Data

Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data

Batch 0100834
Sequence 0J26061 (A0J0371-01RE1,02RE1,03RE1,04RE1,05RE1,06RE1)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0100834 (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
	0100834-BLK1		QC	10/23/20 16:05	11	10				100					
	0100834-BS1		QC	10/23/20 16:05	10	10	A20I454		100	100					
	A0J0344-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.21	10				100	USMPDI-041SG-201009	From 0100734 by agr on 10/23/20			
	0100834-DUP1		QC	10/23/20 16:05	10.15	10		A0J0344-01RE1		100					
	A0J0344-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.13	10				100	USMPDI-042SG-201009	From 0100734 by agr on 10/23/20			
	A0J0344-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.64	10				100	USMPDI-043SG-201009	From 0100734 by agr on 10/23/20			
	A0J0344-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.28	10				100	USMPDI-047SG-201009	From 0100734 by agr on 10/23/20			
	A0J0344-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.1	10				100	USMPDI-050SG-201009	From 0100734 by agr on 10/23/20			
	A0J0344-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.33	10				100	USMPDI-051SG-201009	From 0100734 by agr on 10/23/20			
	A0J0344-07RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.15	10				100	USMPDI-054SG-201009	From 0100734 by agr on 10/23/20			
	A0J0371-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.26	10				100	USMPDI-001SG-201011	From 0100734 by agr on 10/23/20			
	A0J0371-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.44	10				100	USMPDI-003SG-201011	From 0100734 by agr on 10/23/20			
	A0J0371-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.26	10				100	USMPDI-006SG-201010	From 0100734 by agr on 10/23/20			
	A0J0371-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.32	10				100	USMPDI-011SG-201011	From 0100734 by agr on 10/23/20			
	A0J0371-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.5	10				100	USMPDI-012SG-201010	From 0100734 by agr on 10/23/20			
	A0J0371-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.16	10				100	USMPDI-021SG-201010	From 0100734 by agr on 10/23/20			
	A0J0371-07RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.35	5				100	USMPDI-023SG-201010	MS/MSD			
	0100834-MS1		QC	10/23/20 16:05	10.44	5	A20I454	A0J0371-07RE1	100	100					
	0100834-MSD1		QC	10/23/20 16:06	10.45	5	A20I454	A0J0371-07RE1	100	100					
	A0J0371-07RE2	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.35	10				100	USMPDI-023SG-201010	MS/MSD			
	0100834-MS2		QC	10/23/20 16:06	10.44	10	A20I454	A0J0371-07RE2	100	100					

Prepared By: Date

MJB 10/28/20
Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0100834 (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
	0100834-MSD2		QC	10/23/20 16:06	10.45	10	A20I454	A0J0371-07RE2	100	100					
	A0J0371-08RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.5	5				100	USMPDI-039SG-201010	From 0100734 by agr on 10/23/20			
	A0J0371-08RE2	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.5	10				100	USMPDI-039SG-201010	Added 10/26/2020 by gwh			
	A0J0371-09RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.79	10				100	USMPDI-1039SG-201010	From 0100734 by agr on 10/23/20			
	A0J0371-10RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.13	10				100	USMPDI-045SG-201010	From 0100734 by agr on 10/23/20			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20H026	01/31/21	DCM CHEM PROD. DZ242-US
A20J198	04/11/24	n-Hexane Lot# 0000265075

Analyte Spike(s)

Std ID	Exp. Date	Description
A20I454	03/30/21	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20J393	04/19/21	8082 PCB Surrogate Spike

From 0100734 on 10/23/2020 by agr

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0100834 (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
	0100834-BLK1		QC	10/23/20 16:05	11	5				100					
	0100834-BS1		QC	10/23/20 16:05	10	5	A20I454		100	100					
	A0J0344-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.21	5				100	USMPDI-041SG-201009	From 0100734 by agr on 10/23/20			
	0100834-DUP1		QC	10/23/20 16:05	10.15	5		A0J0344-01RE1		100					
	A0J0344-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.13	5				100	USMPDI-042SG-201009	From 0100734 by agr on 10/23/20			
	A0J0344-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.64	5				100	USMPDI-043SG-201009	From 0100734 by agr on 10/23/20			
	A0J0344-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.28	5				100	USMPDI-047SG-201009	From 0100734 by agr on 10/23/20			
	A0J0344-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.1	5				100	USMPDI-050SG-201009	From 0100734 by agr on 10/23/20			
	A0J0344-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.33	5				100	USMPDI-051SG-201009	From 0100734 by agr on 10/23/20			
	A0J0344-07RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.15	5				100	USMPDI-054SG-201009	From 0100734 by agr on 10/23/20			
	A0J0371-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.26	5				100	USMPDI-001SG-201011	From 0100734 by agr on 10/23/20			
	A0J0371-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.44	5				100	USMPDI-003SG-201011	From 0100734 by agr on 10/23/20			
	A0J0371-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.26	5				100	USMPDI-006SG-201010	From 0100734 by agr on 10/23/20			
	A0J0371-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.32	5				100	USMPDI-011SG-201011	From 0100734 by agr on 10/23/20			
	A0J0371-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.5	5				100	USMPDI-012SG-201010	From 0100734 by agr on 10/23/20			
	A0J0371-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.16	5				100	USMPDI-021SG-201010	From 0100734 by agr on 10/23/20			
	A0J0371-07RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.35	5				100	USMPDI-023SG-201010	MS/MSD			
	0100834-MS1		QC	10/23/20 16:05	10.44	5	A20I454	A0J0371-07RE1	100	100					
	0100834-MSD1		QC	10/23/20 16:06	10.45	5	A20I454	A0J0371-07RE1	100	100					
4	A0J0371-07RE2	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.35	5/10				100	USMPDI-023SG-201010	MS/MSD 1mL	2mL		
5	0100834-MS2		QC	10/23/20 16:06	10.44	5/10	A20I454	A0J0371-07RE2	100	100		1mL	2mL		

Prepared By: [signature] Date: 10/26/20

Reviewed By: CAS Date: 10/27/2020

ADD 10/27/20

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0100834 (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
6	0100834-MSD2		QC	10/23/20 16:06	10.45	5 10	A20I454	A0J0371-07RE2	100	100		1mL 2mL			
	A0J0371-08RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.5	5 10				100	USMPDI-039SG-201010	From 0100734 by agr on 10/23/20 2mL AM 10/27			
7	A0J0371-08RE2	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.5	5 10				100	USMPDI-039SG-201010	Added 10/26/2020 by gwh 1mL 2mL			
8	A0J0371-09RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.79	5 10				100	USMPDI-1039SG-201010	From 0100734 by agr on 10/23/20 1mL 2mL			
9	A0J0371-10RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.13	5 10				100	USMPDI-045SG-201010	From 0100734 by agr on 10/23/20 1mL 2mL			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20H026	01/31/21	DCM CHEM PROD. DZ242-US
A20J198	04/11/24	n-Hexane Lot# 0000265075

Analyte Spike(s)

Std ID	Exp. Date	Description
A20I454	03/30/21	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20J393	04/19/21	8082 PCB Surrogate Spike

From 0100734 on 10/23/2020 by agr

On GPC#2

Prepared By: Date

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0100834 (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
2	0100834-BLK1		QC	10/23/20 16:05	11	~~5~~ 10				100		1mL 2mL			
3	0100834-BS1		QC	10/23/20 16:05	10	~~5~~ 10	A20I454		100	100		1mL 2mL			
4	A0J0344-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.21	~~5~~ 10				100	USMPDI-041SG-201009	From 0100734 by agr on 10/23/20 1mL 2mL			
5	0100834-DUP1		QC	10/23/20 16:05	10.15	~~5~~ 10		A0J0344-01RE1		100		1mL 2mL			
6	A0J0344-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.13	~~5~~ 10				100	USMPDI-042SG-201009	From 0100734 by agr on 10/23/20 1mL 2mL			
7	A0J0344-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.64	~~5~~ 10				100	USMPDI-043SG-201009	From 0100734 by agr on 10/23/20 1mL 2mL			
8	A0J0344-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.28	~~5~~ 10				100	USMPDI-047SG-201009	From 0100734 by agr on 10/23/20 1mL 2mL			
9	A0J0344-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.1	~~5~~ 10				100	USMPDI-050SG-201009	From 0100734 by agr on 10/23/20 1mL 2mL			
10	A0J0344-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.33	~~5~~ 10				100	USMPDI-051SG-201009	From 0100734 by agr on 10/23/20 1mL 2mL			
11	A0J0344-07RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.15	~~5~~ 10				100	USMPDI-054SG-201009	From 0100734 by agr on 10/23/20 1mL 2mL			
12	A0J0371-01RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.26	~~5~~ 10				100	USMPDI-001SG-201011	From 0100734 by agr on 10/23/20 1mL 2mL			
13	A0J0371-02RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.44	~~5~~ 10				100	USMPDI-003SG-201011	From 0100734 by agr on 10/23/20 1mL 2mL			
14	A0J0371-03RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.26	~~5~~ 10				100	USMPDI-006SG-201010	From 0100734 by agr on 10/23/20 1mL 2mL			
15	A0J0371-04RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.32	~~5~~ 10				100	USMPDI-011SG-201011	From 0100734 by agr on 10/23/20 1mL 2mL			
16	A0J0371-05RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.5	~~5~~ 10				100	USMPDI-012SG-201010	From 0100734 by agr on 10/23/20 1mL 2mL			
17	A0J0371-06RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.16	~~5~~ 10				100	USMPDI-021SG-201010	From 0100734 by agr on 10/23/20 1mL 2mL			
18	A0J0371-07RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.35	5				100	USMPDI-023SG-201010	MS/MSD 1mL ##			
19	0100834-MS1		QC	10/23/20 16:05	10.44	5	A20I454	A0J0371-07RE1	100	100		1mL ##			
20	0100834-MSD1		QC	10/23/20 16:06	10.45	5	A20I454	A0J0371-07RE1	100	100		1mL ##			
21	A0J0371-08RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.5	5				100	USMPDI-039SG-201010	From 0100734 by agr on 10/23/20 1mL ##			

Prepared By: [signature] 10·23·2020 Date

Reviewed By: CAS 10/27/2020 Date

[signature] 10/23/20
SCC 10/26/2020

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0100834 (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
22	A0J0371-09RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.79	5				100	USMPDI-1039SG-201010	From 0100734 by agr on 10/23/20 1mL *			
23	A0J0371-10RE1	A	8081B 2,4+4,4-DDx Only (+Add)	10/23/20 16:05	10.13	5				100	USMPDI-045SG-201010	From 0100734 by agr on 10/23/20 1mL #			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A20H026	01/31/21	DCM CHEM PROD. DZ242-US
~~A20J198~~ A20J335	~~04/11/24~~ 04/15/21	n-Hexane Lot# ~~0000265075~~ 205656 } SCC 10/23/20

Analyte Spike(s)

Std ID	Exp. Date	Description
A20I454	03/30/21	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s)

Std ID	Exp. Date	Description
A20J393	04/19/21	8082 PCB Surrogate Spike

From 0100734 on 10/23/2020 by agr

On GPC #2

*= GPC error to be re-GPC'd.

#-Sample lost

Prepared By: Date

Reviewed By: Date

APEX LABORATORIES

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0100734 (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	0100734-BLK1		QC	10/21/20 16:05	~~10~~ 11	5 ✓				100					
2	0100734-BS1		QC	10/21/20 16:05	10	5 ✓	A20I454		100	100					
3	A0J0344-01	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.21	5 ✓				100	USMPDI-041SG-201009	sludge			
4	0100734-DUP1		QC	10/21/20 16:05	~~10~~ 10.15	5 ✓		A0J0344-01		100					
5	A0J0344-02	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.13	5 ✓				100	USMPDI-042SG-201009	sludge			
6	A0J0344-03	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.64	5 ✓				100	USMPDI-043SG-201009	sludge			
7	A0J0344-04	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.28	5 ✓				100	USMPDI-047SG-201009	sludge			
8	A0J0344-05	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.10	5 ✓				100	USMPDI-050SG-201009	sludge			
9	A0J0344-06	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.33	5 ✓				100	USMPDI-051SG-201009	sludge			
10	A0J0344-07	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.15	5 ✓				100	USMPDI-054SG-201009	sludge			
11	A0J0371-01	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.26	5 ✓				100	USMPDI-001SG-201011	sludge			
12	A0J0371-02	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.44	5 ✓				100	USMPDI-003SG-201011	sludge			
13	A0J0371-03	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.26	5 ✓				100	USMPDI-006SG-201010	sludge			
14	A0J0371-04	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.32	5 ✓				100	USMPDI-011SG-201011	sludge			
15	A0J0371-05	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.50	5 ✓				100	USMPDI-012SG-201010	sludge			
16	A0J0371-06	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.16	5 ✓				100	USMPDI-021SG-201010	sludge			
17	A0J0371-07	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.35	5 ✓				100	USMPDI-023SG-201010	MS/MSD sludge			
18	0100734-MS1		QC	10/21/20 16:05	~~10~~ 10.44	5 ✓	A20I454	A0J0371-07	100	100					
19	0100734-MSD1		QC	10/21/20 16:06	~~10~~ 10.45	5 ✓	A20I454	A0J0371-07	100	100					
20	A0J0371-08	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.50	5 ✓				100	USMPDI-039SG-201010	sludge			

CAS 10/21/2020
Prepared By: Date

CAS 10/21/2020
Reviewed By: Date

Can 10-21-2020

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0100734 (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
21	A0J0371-09	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.79	5 ✓				100	USMPDI-1039SG-201010	sludge			
22	A0J0371-10	A	8081B 2,4+4,4-DDx Only (+Add)	10/21/20 16:05	~~10~~ 10.13	5 ✓				100	USMPDI-045SG-201010	sludge			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A20B017	02/01/21	Glass Wool
A20F023	11/29/22	Sodium Sulfate Lot # 196476
A20H026	01/31/21	DCM CHEM PROD. DZ242-US

Analyte Spike(s) cm

Std ID	Exp. Date	Description
A20I454	03/30/21	2,4 + 4,4 DDx Pesticide Matrix Spike

Surrogate(s) cm

Std ID	Exp. Date	Description
~~A20J060~~ A20J349	~~03/09/21~~ 04/14/21	8082 PCB Surrogate Spike

cas 10/21/2020

Method 3546 digestion time and temperture achieved.
Initial: cm

Witness: cas 10/21/2020

Prepared By: Date

Reviewed By: Date

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 0J26061 Instrument: DUALECD8

Date: **10/26/20 11:21** Calibration: **A0J2107**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J26061-BKD1	Soil	QC	QC				A20H479
2	0J26061-CCV1	Soil	QC	QC				A20H475
3	0J26061-BKD2	Soil	QC	QC				A20H479
4	0J26061-BKD3	Soil	QC	QC				A20H479
5	0J26061-CCV2	Soil	QC	QC				A20H475
6	0J26061-CCV3	Soil	QC	QC				A20I185
7	0J26061-CCB1	Soil	QC	QC				A20J148
8	A0J0608-03RE1	Water	8081B Pesticides + Add		10/29/20	0100766		
9	0100834-BLK1	Sediment	QC	QC		0100834		
10	0100834-BS1	Sediment	QC	QC		0100834		
11	A0J0344-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
12	0100834-DUP1	Sediment	QC	QC		0100834		
13	A0J0344-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
14	A0J0344-03RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
15	A0J0344-04RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
16	0J26061-CCV4	Soil	QC	QC				A20H476
17	0J26061-CCV5	Soil	QC	QC				A20I186
18	0J26061-CCB2	Soil	QC	QC				A20J148
19	A0J0344-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
20	A0J0344-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
21	A0J0371-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
22	A0J0371-03RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
23	A0J0371-04RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
24	A0J0371-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
25	A0J0371-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
26	A0J0371-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
27	A0J0344-07RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
28	0J26061-CCV6	Soil	QC	QC				A20H475
29	0J26061-CCV7	Soil	QC	QC				A20I185
30	0J26061-CCB3	Soil	QC	QC				A20J148
31	0J26061-IBL1	Soil	QC	QC				

HML 10/28/20

Comments:

Data Entered By/Date:

Data Reviewed By/Date: MKZ 10/29/2020

10/28/2020 4:06:49PM

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 12:03
Operator : MJB
Sample : 0J26061-BKD1
Misc : A20H479
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:06:53 2020
Quant Method : J:\methods\PestBreakdownCHK_2010015.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m x 0.32mm x 0. Signal #2 Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.866	24719959	NoCal	ng/mL
2)	Endrin	8.257	874523516	NoCal	ng/mL
3)	4,4'-DDD	8.294	161507999	NoCal	ng/mL
4)	4,4'-DDT	8.488	1913276638	NoCal	ng/mL
5)	Endrin Aldehyde	8.714	190023255	NoCal	ng/mL
6)	Endrin Ketone	9.219	281380582	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.304	19009877	NoCal	ng/mL
9)	Endrin [2C]	8.671	915154087	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.717	151632065	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.053	178224476	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.940	2037692512	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.636	233891798	NoCal	ng/mL

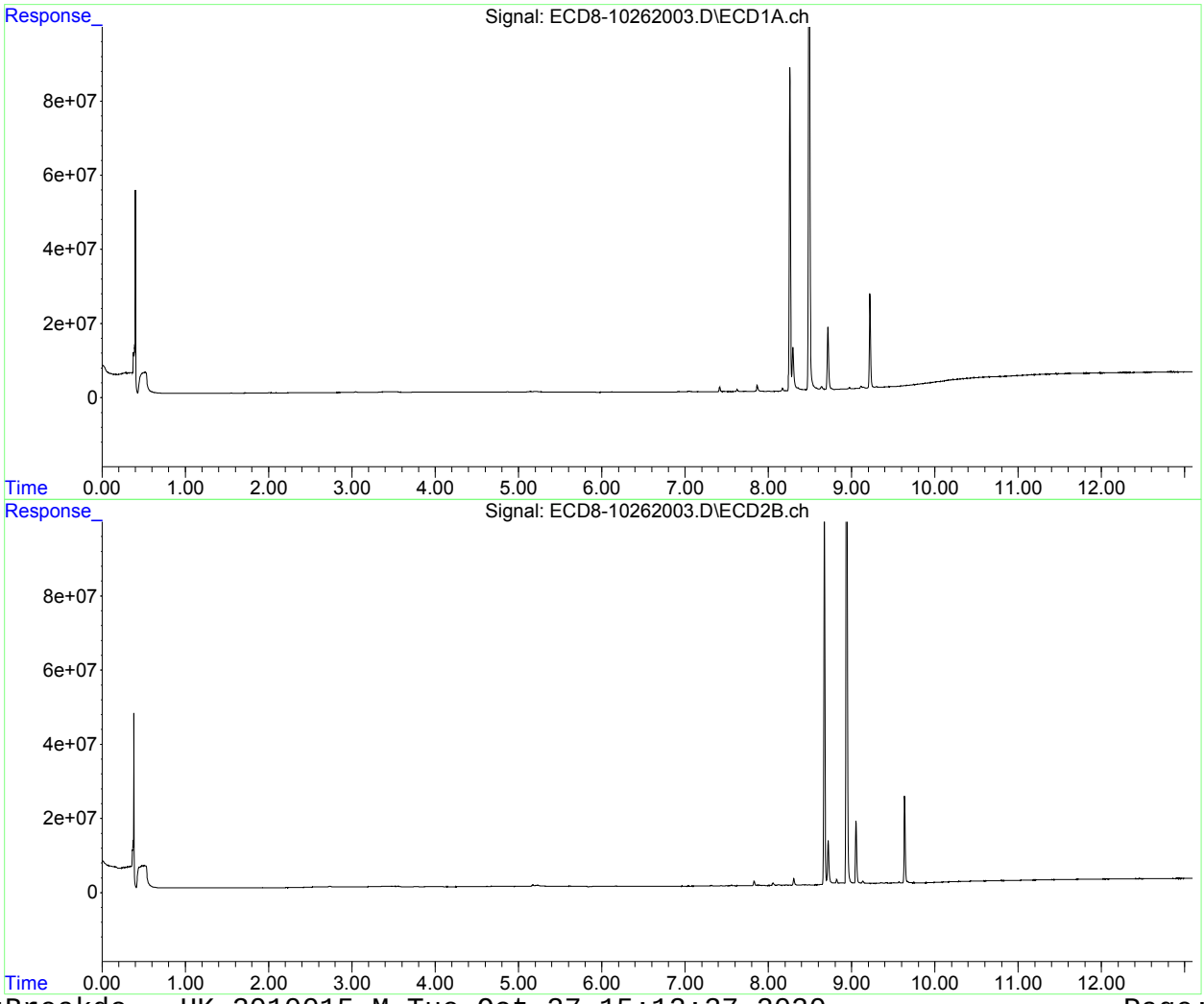
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 12:03
Operator : MJB
Sample : 0J26061-BKD1
Misc : A20H479
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:06:53 2020
Quant Method : J:\methods\PestBreakdownCHK_2010015.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m x 0.32mm x 0. Signal #2 Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed) HML 10/27/20

A01: BREAKDOWN FAILED

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 12:19
Operator : MJB
Sample : 0J26061-CCV1
Misc : A20H475, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:31:05 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.672	5.975	127.3E6	160.0E6	36.011	39.979	
22) S	DCBP (S)	9.891	10.485	110.5E6	101.6E6	44.094	41.999	
	Target Compounds							
2)	a-BHC	6.224	6.569	188.7E6	233.9E6	40.048	43.720	
3)	g-BHC	6.510	6.884	158.5E6	195.7E6	39.387	42.084	
4)	b-BHC	6.593	6.952	58880393	77225621	37.723	39.469	
5)	Heptachlor	6.908	7.257	154.0E6	179.2E6	37.940	39.144	
6)	d-BHC	6.747	7.200	136.5E6	182.0E6	41.409	41.846	
7)	Aldrin	7.151	7.520	168.3E6	187.6E6	42.856	43.945	
8)	Heptachlo...	7.619	7.954	146.6E6	166.2E6	40.101	41.376	
9)	trans-Chl...	7.713	8.095	148.2E6	166.8E6	40.240	41.910	
10)	cis-Chlor...	7.809	8.201	145.9E6	164.8E6	40.280	42.487	
11)	Endosulfa...	7.913	8.250	139.8E6	152.5E6	41.089	42.402	
12)	4,4'-DDE	7.862	8.303	140.4E6	163.9E6	44.556	44.240	
13)	Dieldrin	8.086	8.449	151.4E6	169.9E6	40.305	41.875	
14)	Endrin	8.256	8.671	94099309	102.9E6	34.314	36.798	
15)	4,4'-DDD	8.293	8.717	111.0E6	130.6E6	40.806	42.057	
16)	Endosulfa...	8.418	8.818	117.3E6	137.0E6	39.825	42.072	
17)	4,4'-DDT	8.487	8.940	93823463	104.4E6	35.265	35.332	
18)	Endrin Al...	8.713	9.053	120.3E6	131.0E6	42.089	43.191	
19)	Endosulfa...	9.018	9.247	112.7E6	125.8E6	37.713	37.870	
20)	Methoxychlor	8.821	9.407	43786160	52735216	31.808	35.248	
21)	Endrin Ke...	9.220	9.637	142.8E6	160.1E6	38.627	40.996	
23)	Hexachlor...	3.477	3.706	71754	37949	BelowCal	BelowCal	
24)	Hexachlor...	6.046	6.436	462566	13970	0.138	0.004	#
25)	Oxychlordane	7.554	7.867	662605	371153	0.205	0.105	#

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 12:19
Operator : MJB
Sample : 0J26061-CCV1
Misc : A20H475, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:31:05 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.619	8.095	146.6E6	166.8E6	68.930	68.741	
27)	trans-Non...	7.809	8.145	145.9E6	826609	40.380	0.210	#
28)	2,4'-DDD	8.005	8.449	1347534	169.9E6	0.701	77.559	#
29)	2,4'-DDT	8.169	8.671	369138	102.9E6	0.172	45.633	#
30)	cis-Nonac...	8.256	8.717	94099309	130.6E6	23.861	30.537	#
31)	Mirex	8.972f	9.637	1054919	160.1E6	0.142	64.591	#
32)	Chlordane...	7.713	8.095	148.2E6	166.8E6	359.725	342.423	
33)	Chlordane...	7.809	8.201	145.9E6	164.8E6	348.089	398.155	
34)	Chlordane...	0.000	8.894f	0	1289263	N.D.	9.532	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.809	8.449	145.9E6	169.9E6	9807.560	4470.235	#
37)	Toxaphene...	8.086	8.818f	151.4E6	137.0E6	4596.953	2905.675	#
38)	Toxaphene...	8.418	8.818	117.3E6	137.0E6	1692.084	1947.691	
39)	Toxaphene...	8.637	8.894	4170604	1289263	56.041	10.822	#
40)	Toxaphene...	8.892	9.053	614212	131.0E6	10.347	1901.661	#
41)	Toxaphene...	8.972	9.407f	1054919	52735216	15.669	704.247	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

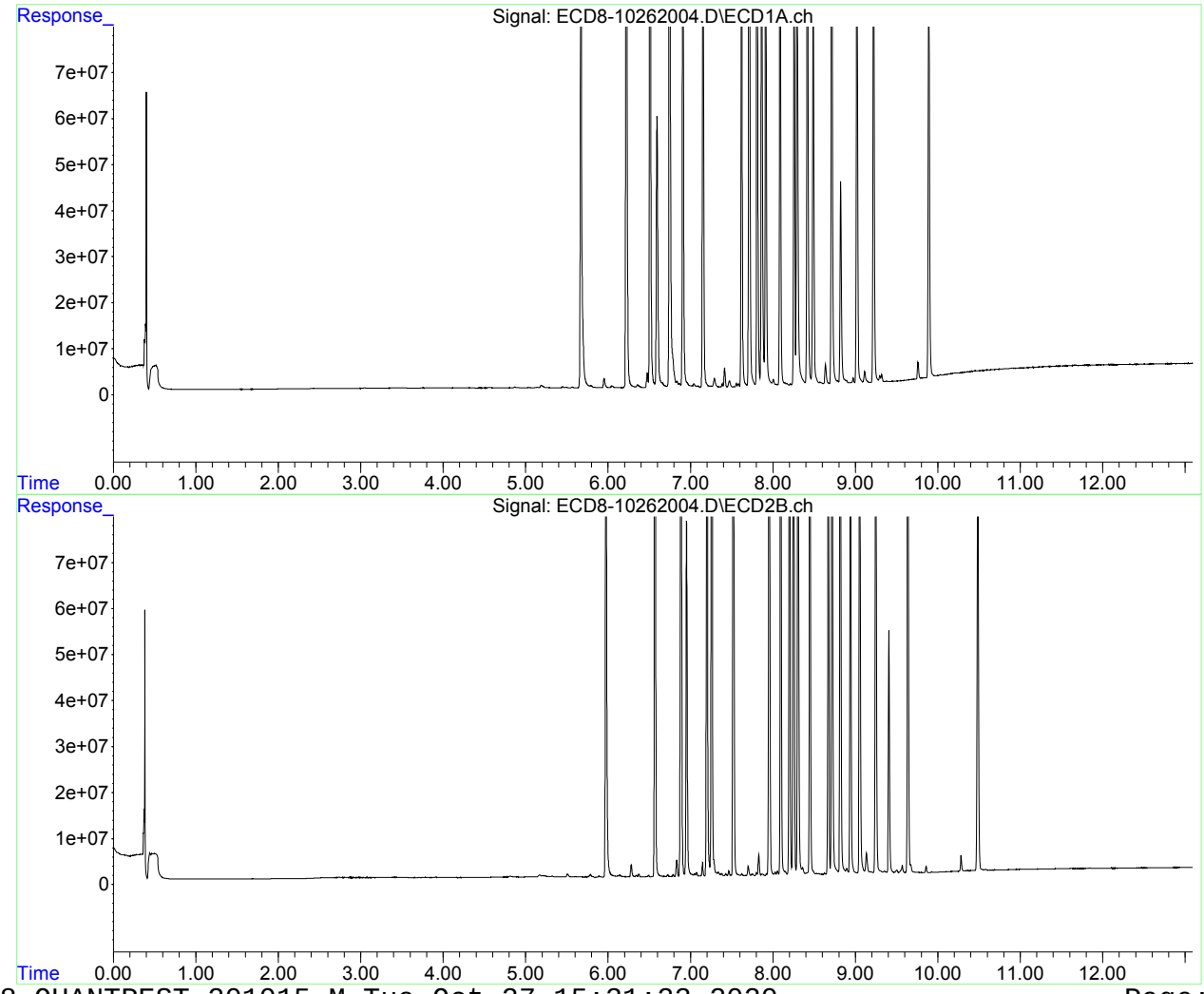
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 12:19
Operator : MJB
Sample : 0J26061-CCV1
Misc : A20H475, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:31:05 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



HML 10/27/20

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0J26061 BKD2
Data File: ECD8-10262006.D

First Column Area Counts		Percent Breakdown	
DDE	781881		
DDD	11714664		
DDT	92787744	**11.87**	**PASS**
Endrin	56417160	**22.78**	**FAIL**
Endrin Aldehyde	4308667		
Endrin Ketone	12337311		

Second Column Area Counts		Percent Breakdown	
DDE	631917		
DDD	9696538		
DDT	59755154	**14.74**	**PASS**
Endrin	38786282	**22.63**	**FAIL**
Endrin Aldehyde	3105471		
Endrin Ketone	8241505		

Breakdown must be less than 20% for Method 608. For method 8081 it must be less than 15% or within 7.5% of the breakdown prior to the most recent calibration.

BREAKDOWN STILL FAILED AFTER REPLACING INLET LINER. ADDITIONAL MANTENNACE TO BE PERFORMED.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 13:07
Operator : MJB
Sample : 0J26061-BKD2
Misc : A20H479
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 26 13:22:14 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_2010015.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m x 0.32mm x 0. Signal #2 Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.866	11692861	NoCal	ng/mL
2)	Endrin	8.258	1292864827	NoCal	ng/mL
3)	4,4'-DDD	8.294	130324148	NoCal	ng/mL
4)	4,4'-DDT	8.489	2718965625	NoCal	ng/mL
5)	Endrin Aldehyde	8.714	130611808	NoCal	ng/mL
6)	Endrin Ketone	9.221	253872749	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.305	10257935	NoCal	ng/mL
9)	Endrin [2C]	8.672	1350585105	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.718	119621350	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.053	115932397	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.941	2938144631	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.638	214230587	NoCal	ng/mL

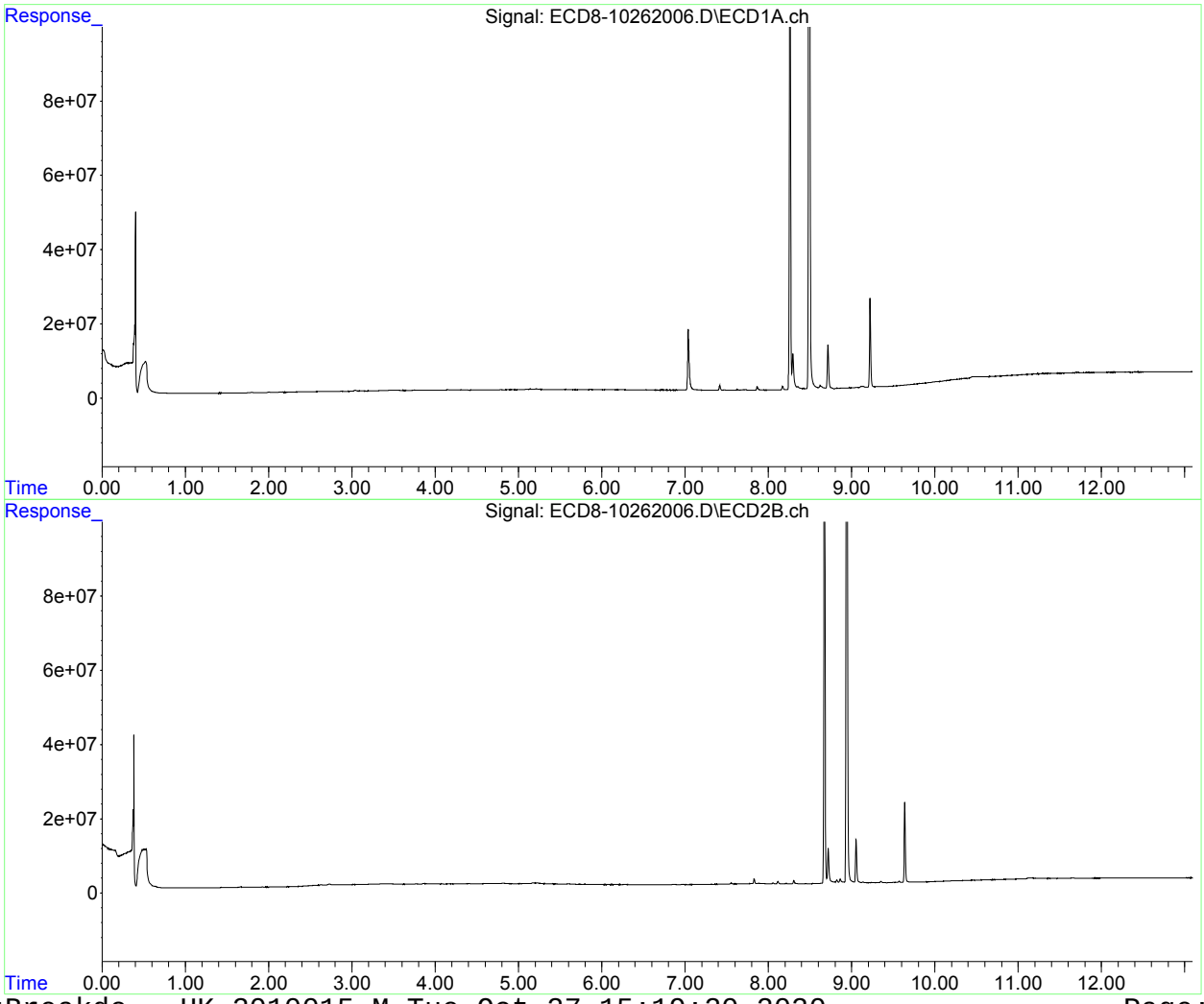
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 13:07
Operator : MJB
Sample : 0J26061-BKD2
Misc : A20H479
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 26 13:22:14 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_2010015.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m x 0.32mm x 0. Signal #2 Info : 30m x 0.32mm x 0.25um



HML 10/27/20

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0J26061 BKD3
Data File: ECD8-10262008.D

First Column Area Counts		Percent Breakdown	
DDE	781881		
DDD	11714664		
DDT	92787744	**11.87**	**PASS**
Endrin	56417160	**22.78**	**FAIL**
Endrin Aldehyde	4308667		
Endrin Ketone	12337311		

Second Column Area Counts		Percent Breakdown	
DDE	631917		
DDD	9696538		
DDT	59755154	**14.74**	**PASS**
Endrin	38786282	**22.63**	**FAIL**
Endrin Aldehyde	3105471		
Endrin Ketone	8241505		

Breakdown must be less than 20% for Method 608. For method 8081 it must be less than 15% or within 7.5% of the breakdown prior to the most recent calibration.

BREAKDOWN FOR ENDRIN IS WITHIN 7.5% AFTER GUARD COLUMN CUTTING (~6")

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 13:54
Operator : MJB
Sample : 0J26061-BKD3
Misc : A20H479
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:22:33 2020
Quant Method : J:\methods\PestBreakdownCHK_2010015.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m x 0.32mm x 0. Signal #2 Info : 30m x 0.32mm x 0.25um

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.855	11677663	NoCal	ng/mL
2)	Endrin	8.249	1438989853	NoCal	ng/mL
3)	4,4'-DDD	8.283	62306417	NoCal	ng/mL
4)	4,4'-DDT	8.479	2913734889	NoCal	ng/mL
5)	Endrin Aldehyde	8.706	113907018	NoCal	ng/mL
6)	Endrin Ketone	9.213	152123962	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.296	12703089	NoCal	ng/mL
9)	Endrin [2C]	8.664	1481514441	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.708	59174029	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.045	102964922	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.932	3159103097	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.629	132966507	NoCal	ng/mL

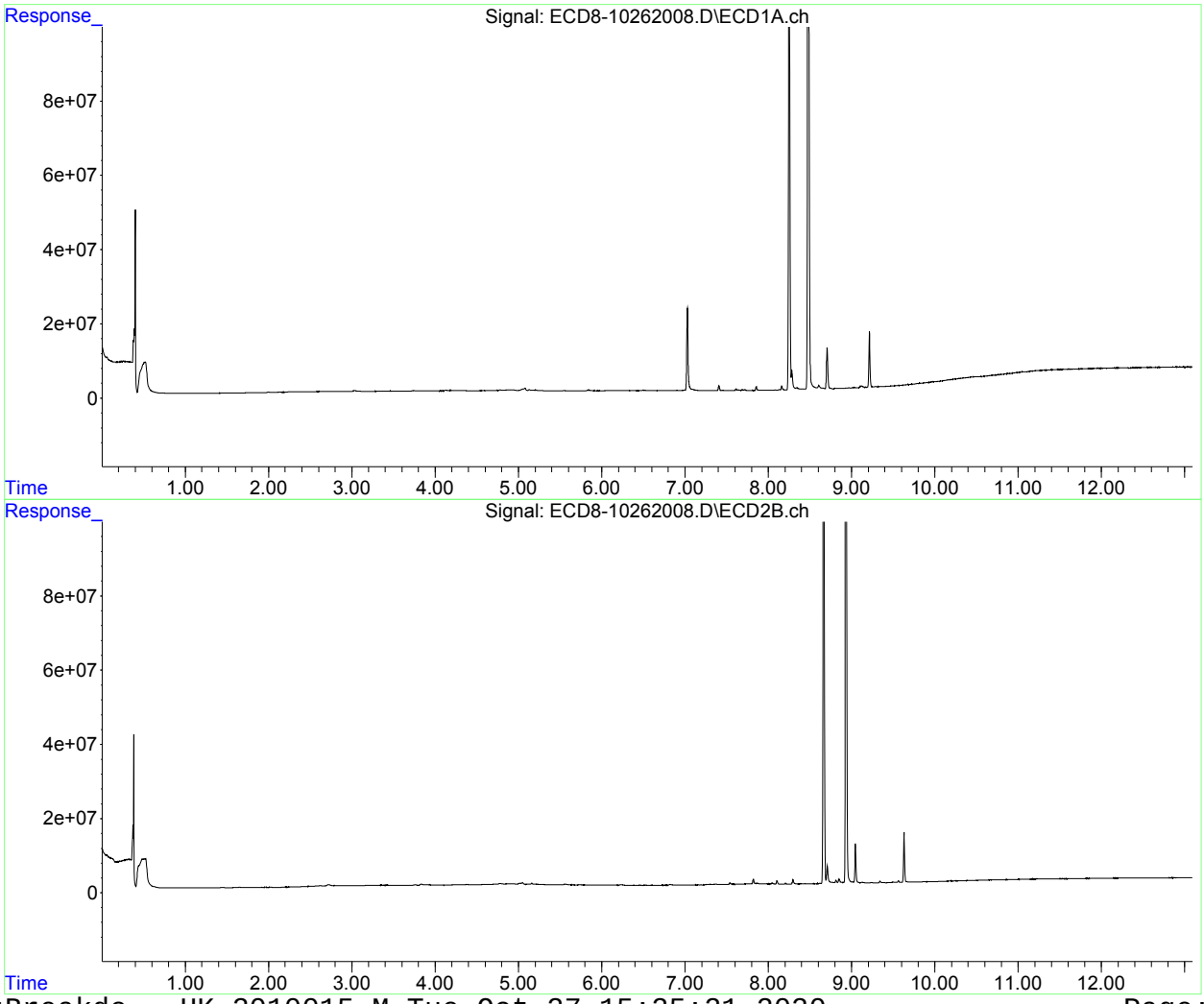
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 13:54
Operator : MJB
Sample : 0J26061-BKD3
Misc : A20H479
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:22:33 2020
Quant Method : J:\methods\PestBreakdownCHK_2010015.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m x 0.32mm x 0. Signal #2 Info : 30m x 0.32mm x 0.25um



Quantitation Report (Not Reviewed) HML 10/27/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 14:10
Operator : MJB
Sample : 0J26061-CCV2
Misc : A20H475, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:41:54 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.663	5.966	165.9E6	202.7E6	46.900	50.677	
22) S	DCBP (S)	9.884	10.477	124.9E6	117.7E6	49.861	48.657	
	Target Compounds							
2)	a-BHC	6.214	6.561	235.2E6	285.4E6	49.918	53.353	
3)	g-BHC	6.501	6.876	204.8E6	243.0E6	50.890	52.255	
4)	b-BHC	6.582	6.943	78470743	97593245	50.274	49.878	
5)	Heptachlor	6.899	7.249	196.8E6	234.0E6	48.497	51.134	
6)	d-BHC	6.736	7.191	181.5E6	238.5E6	53.909	53.673	
7)	Aldrin	7.142	7.512	195.7E6	224.2E6	49.830	52.515	
8)	Heptachlo...	7.611	7.947	180.7E6	209.3E6	49.417	52.112	
9)	trans-Chl...	7.704	8.086	183.2E6	209.5E6	49.734	52.638	
10)	cis-Chlor...	7.801	8.192	179.4E6	203.7E6	49.523	52.516	
11)	Endosulfa...	7.905	8.242	170.4E6	187.0E6	50.086	52.005	
12)	4,4'-DDE	7.853	8.295	171.8E6	202.2E6	54.520	53.590	
13)	Dieldrin	8.078	8.441	192.2E6	210.1E6	51.151	51.119	
14)	Endrin	8.248	8.664	139.4E6	150.2E6	50.836	52.033	
15)	4,4'-DDD	8.283	8.708	144.8E6	173.7E6	53.231	54.607	
16)	Endosulfa...	8.409	8.810	148.5E6	169.1E6	50.416	51.923	
17)	4,4'-DDT	8.479	8.933	140.9E6	164.1E6	51.438	53.069	
18)	Endrin Al...	8.705	9.045	136.5E6	149.9E6	47.786	49.205	
19)	Endosulfa...	9.010	9.239	143.7E6	160.9E6	48.081	48.427	
20)	Methoxychlor	8.812	9.399	71580860	80787557	51.999	52.432	
21)	Endrin Ke...	9.212	9.629	184.4E6	202.7E6	49.872	51.902	
23)	Hexachlor...	3.460	3.694	166362	107281	BelowCal	BelowCal	
24)	Hexachlor...	6.051	6.428	320268	13582	0.096	0.003	#
25)	Oxychlordane	7.545	7.867	790015	112867	0.245	0.032	#

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 14:10
Operator : MJB
Sample : 0J26061-CCV2
Misc : A20H475, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:41:54 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.611	8.086	180.7E6	209.5E6	84.944	86.337	
27)	trans-Non...	7.801	8.151	179.4E6	514501	49.647	0.130	#
28)	2,4'-DDD	8.026f	8.441	249569	210.1E6	0.130	94.165	#
29)	2,4'-DDT	8.160	8.664	516783	150.2E6	0.241	64.324	#
30)	cis-Nonac...	8.283	8.708	144.8E6	173.7E6	36.710	40.601	
31)	Mirex	8.942	9.629	129103	202.7E6	BelowCal	80.964	
32)	Chlordane...	7.704	8.086f	183.2E6	209.5E6	444.597	430.078	
33)	Chlordane...	7.801	8.192f	179.4E6	203.7E6	427.966	492.132	
34)	Chlordane...	8.409f	8.884	148.5E6	669995	1151.520	4.954	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.801	8.441	179.4E6	210.1E6	12058.133	5527.695	#
37)	Toxaphene...	8.078f	8.810	192.2E6	169.1E6	5834.090	3586.008	#
38)	Toxaphene...	8.409	8.810	148.5E6	169.1E6	2142.075	2403.722	
39)	Toxaphene...	8.628f	8.884	1837265	669995	24.688	5.624	#
40)	Toxaphene...	8.863f	9.045f	795780	149.9E6	13.405	2175.197	#
41)	Toxaphene...	8.964	0.000	252146	0	3.745	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

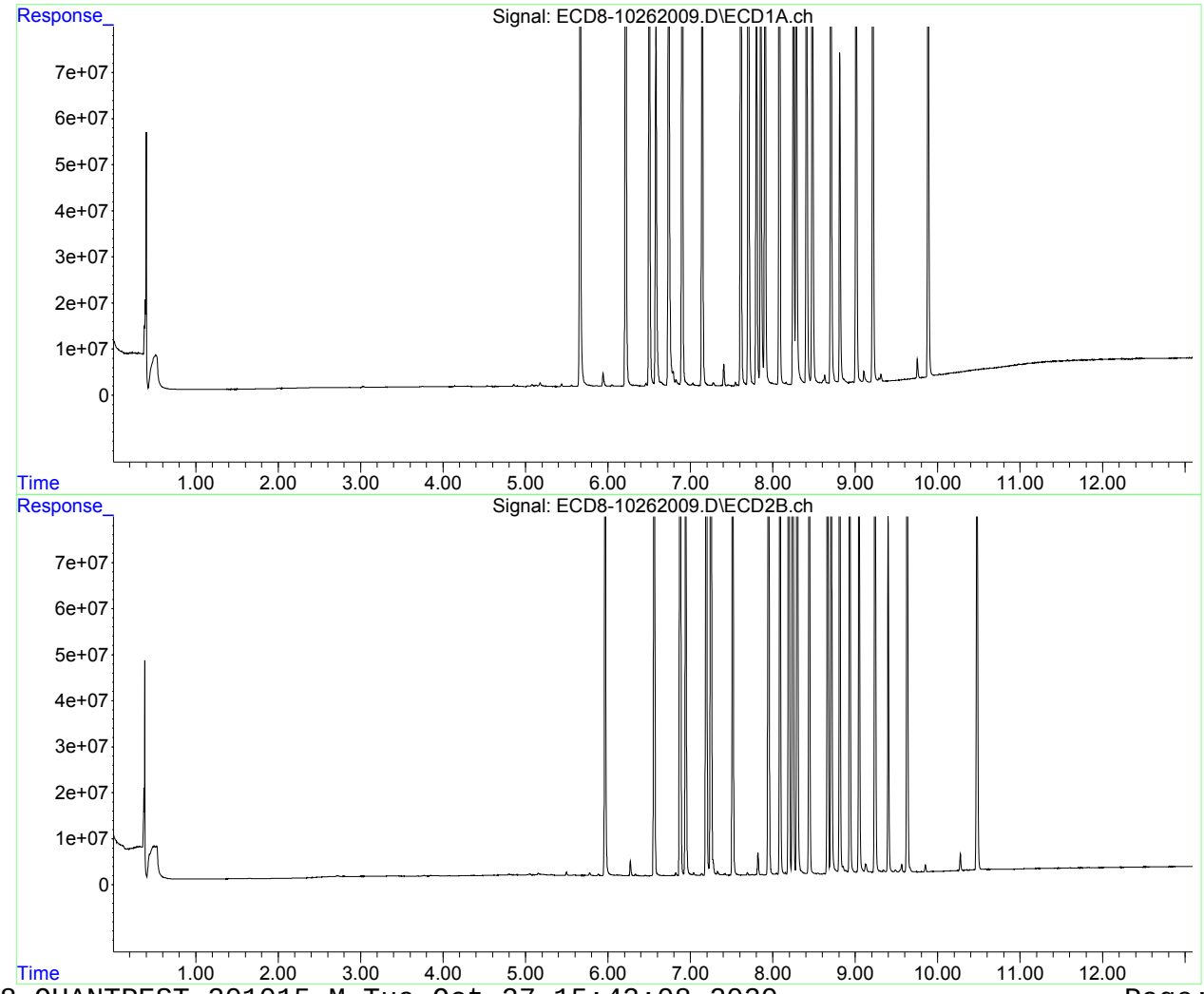
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 14:10
Operator : MJB
Sample : 0J26061-CCV2
Misc : A20H475, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:41:54 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



Quantitation Report (Not Reviewed) HML 10/27/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 14:27
Operator : MJB
Sample : 0J26061-CCV3
Misc : A20I185, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:51:52 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.634f	6.003f	1202051	1395157	0.340	0.349	
22) S	DCBP (S)	9.846f	10.504f	295490	231268	BelowCal	0.096	
	Target Compounds							
2)	a-BHC	6.213	6.559	288732	223417	0.061	0.042	#
3)	g-BHC	6.492	6.875	134997	77414	0.034	0.017	#
4)	b-BHC	6.593	6.948	99846	103267	0.064	0.053	
5)	Heptachlor	6.899	7.248	437714	484133	0.108	0.106	
6)	d-BHC	6.739	7.192	87539	78848	0.087	0.087	
7)	Aldrin	7.114f	7.511	68699	36693	0.017	0.009	#
8)	Heptachlo...	7.602	7.943	106.3E6	229544	29.075	0.057	#
9)	trans-Chl...	7.702	8.072	515984	121.9E6	0.140	30.621	#
10)	cis-Chlor...	7.787	8.152f	173.5E6	191.5E6	47.901	49.347	
11)	Endosulfa...	7.898	8.243	367531	181371	0.108	0.050	#
12)	4,4'-DDE	0.000	8.302	0	365992	N.D.	0.156	#
13)	Dieldrin	8.055f	8.444	1081393	110.0E6	0.288	27.662	#
14)	Endrin	8.266	8.665	187.2E6	117.3E6	68.253	41.526	#
15)	4,4'-DDD	8.266	8.710	187.2E6	209.3E6	68.822	64.607	
16)	Endosulfa...	8.417	8.811	119492	133612	0.041	0.041	
17)	4,4'-DDT	8.480	8.925	88628	112173	0.068	0.105	#
18)	Endrin Al...	8.706	9.052	108885	191560	BelowCal	BelowCal	
19)	Endosulfa...	8.984f	9.239	651269	54097	0.218	0.016	#
20)	Methoxychlor	8.815	9.401	18187	24054	0.013	BelowCal	#
21)	Endrin Ke...	9.215	9.619	54299	121.7E6	0.015	31.146	#
23)	Hexachlor...	3.454	3.679	180.0E6	215.2E6	55.345	54.542	
24)	Hexachlor...	6.050	6.430	147.3E6	191.2E6	44.031	48.037	
25)	Oxychlordane	7.533	7.877	152.5E6	169.4E6	47.210	48.136	

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 14:27
Operator : MJB
Sample : 0J26061-CCV3
Misc : A20I185, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:51:52 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.602	8.072	106.3E6	121.9E6	49.978	50.226	
27)	trans-Non...	7.787	8.152	173.5E6	191.5E6	48.020	48.556	
28)	2,4'-DDD	7.980	8.444	95555541	110.0E6	49.733	51.675	
29)	2,4'-DDT	8.161	8.665	104.4E6	117.3E6	48.657	51.447	
30)	cis-Nonac...	8.266	8.710	187.2E6	209.3E6	47.462	48.933	
31)	Mirex	8.940	9.619	115.4E6	121.7E6	48.931	49.500	
32)	Chlordane...	7.702f	8.072f	515984	121.9E6	1.253	250.193	#
33)	Chlordane...	7.787f	8.238f	173.5E6	177708	413.945	0.429	#
34)	Chlordane...	8.372	8.890	144102	123524	1.117	0.913	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.787	8.444	173.5E6	110.0E6	11663.080	2893.942	#
37)	Toxaphene...	8.133f	8.811f	1523466	133612	46.252	2.834	#
38)	Toxaphene...	8.417	8.811	119492	133612	1.724	1.900	
39)	Toxaphene...	8.656	8.890	180727	123524	2.428	1.037	#
40)	Toxaphene...	8.898	9.074	11541	20313	0.194	0.295	#
41)	Toxaphene...	8.940f	9.428	115.4E6	22934	1713.537	0.306	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

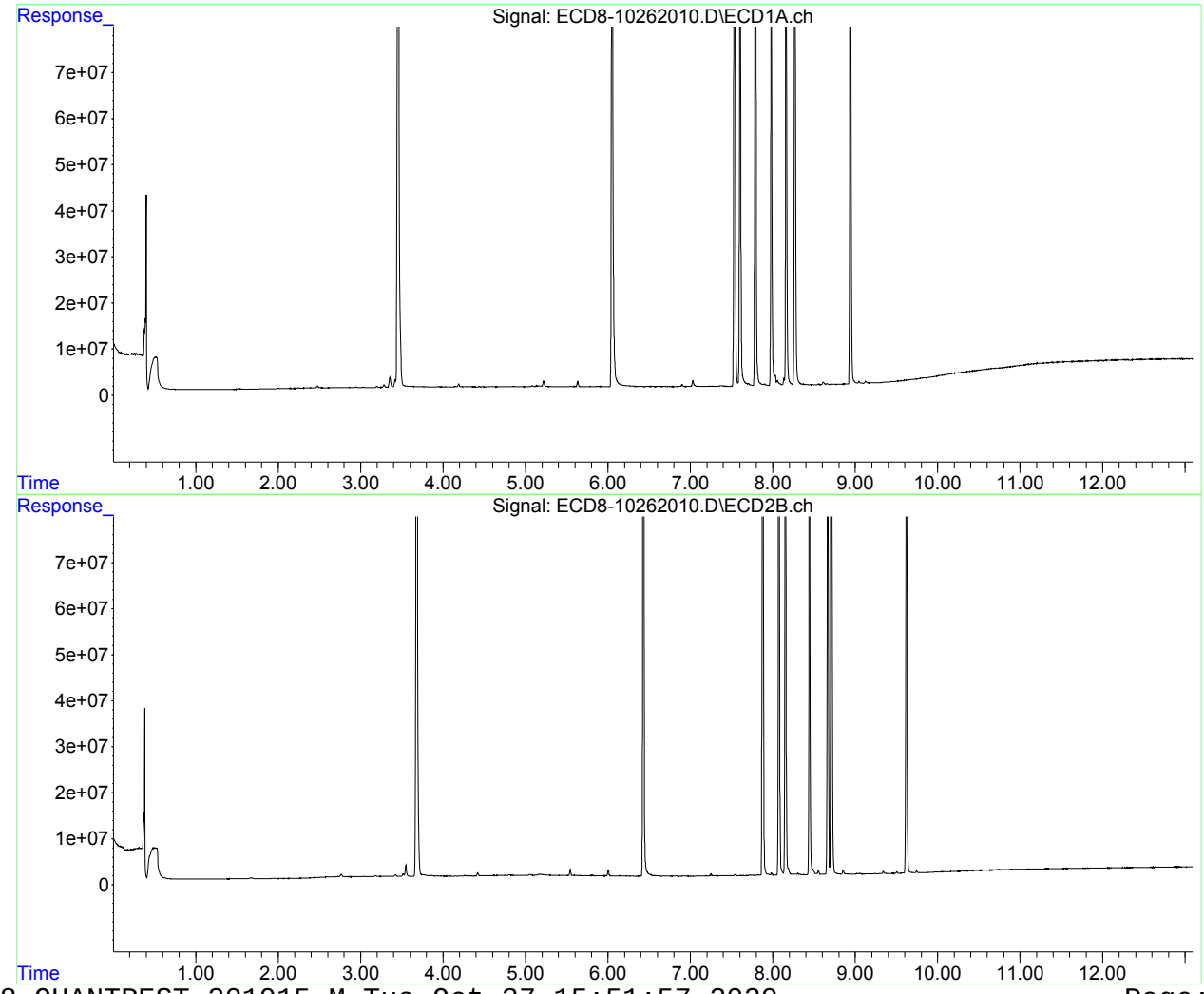
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 14:27
Operator : MJB
Sample : 0J26061-CCV3
Misc : A20I185, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:51:52 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



Quantitation Report (Not Reviewed) HML 10/27/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 14:43
Operator : MJB
Sample : 0J26061-CCB1
Misc : A2J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:55:33 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.663	5.967	312.8E6	397.6E6	88.448	99.391	
22)	S	DCBP (S)	9.882	10.477	238.4E6	230.5E6	94.894	95.295	
		Target Compounds							
2)		a-BHC	6.223	6.531f	63028	41515	0.013	0.008	#
3)		g-BHC	6.488	6.909f	40397	13484	0.010	0.003	#
4)		b-BHC	0.000	6.948	0	18707	N.D.	0.010	#
5)		Heptachlor	0.000	7.246	0	14159	N.D.	0.003	#
6)		d-BHC	6.748	7.196	45550	36347	0.073	0.076	
7)		Aldrin	7.104f	7.544f	67451	222461	0.017	0.052	#
8)		Heptachlo...	7.610	7.941	14277	15903	0.004	0.004	
9)		trans-Chl...	7.693	8.106f	97633	41907	0.027	0.011	#
10)		cis-Chlor...	7.773f	8.195	6429	14700	0.002	0.004	#
11)		Endosulfa...	7.911	8.254	9454	17575	0.003	0.005	#
12)		4,4'-DDE	7.834	8.287	5954	8612	0.002	0.050	#
13)		Dieldrin	8.103f	8.416f	10315	8254	0.003	0.019	#
14)		Endrin	0.000	8.661	0	28412	N.D.	0.037	#
15)		4,4'-DDD	0.000	8.716	0	19901	N.D.	0.009	#
16)		Endosulfa...	0.000	8.811	0	15035	N.D.	0.005	#
17)		4,4'-DDT	8.452f	8.945	480103	18813	0.225	0.070	#
18)		Endrin Al...	8.707	9.017f	64502	343175	BelowCal	BelowCal	
19)		Endosulfa...	0.000	9.239	0	31106	N.D.	0.009	#
20)		Methoxychlor	0.000	9.396	0	30563	N.D.	BelowCal	
21)		Endrin Ke...	0.000	9.631	0	70243	N.D.	0.018	#
23)		Hexachlor...	3.478f	3.665	44548	16097	BelowCal	BelowCal	
24)		Hexachlor...	6.051	6.428	581980	33006	0.174	0.008	#
25)		Oxychlordane	7.531	7.866	13897	49442	0.004	0.014	#

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 14:43
Operator : MJB
Sample : 0J26061-CCB1
Misc : A2J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:55:33 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.610	8.106f	14277	41907	0.007	0.017	#
27)	trans-Non...	7.773	8.157	6429	10626	0.002	0.003	#
28)	2,4'-DDD	0.000	8.416f	0	8254	N.D.	BelowCal	
29)	2,4'-DDT	8.146	8.661	27117	28412	0.013	BelowCal	#
30)	cis-Nonac...	0.000	8.716	0	19901	N.D.	0.005	#
31)	Mirex	0.000	9.631	0	70243	N.D.	BelowCal	
32)	Chlordane...	7.750f	8.106	10554	41907	0.026	0.086	#
33)	Chlordane...	7.834	8.195f	5954	14700	0.014	0.036	#
34)	Chlordane...	0.000	8.853	0	811764	N.D.	6.002	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.773f	8.416f	6429	8254	0.432	0.217	#
37)	Toxaphene...	8.103	8.780	10315	9960	0.313	0.211	#
38)	Toxaphene...	8.452f	8.811	480103	15035	6.926	0.214	#
39)	Toxaphene...	8.659	8.853f	310386	811764	4.171	6.814	#
40)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
41)	Toxaphene...	0.000	9.447	0	30966	N.D.	0.414	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

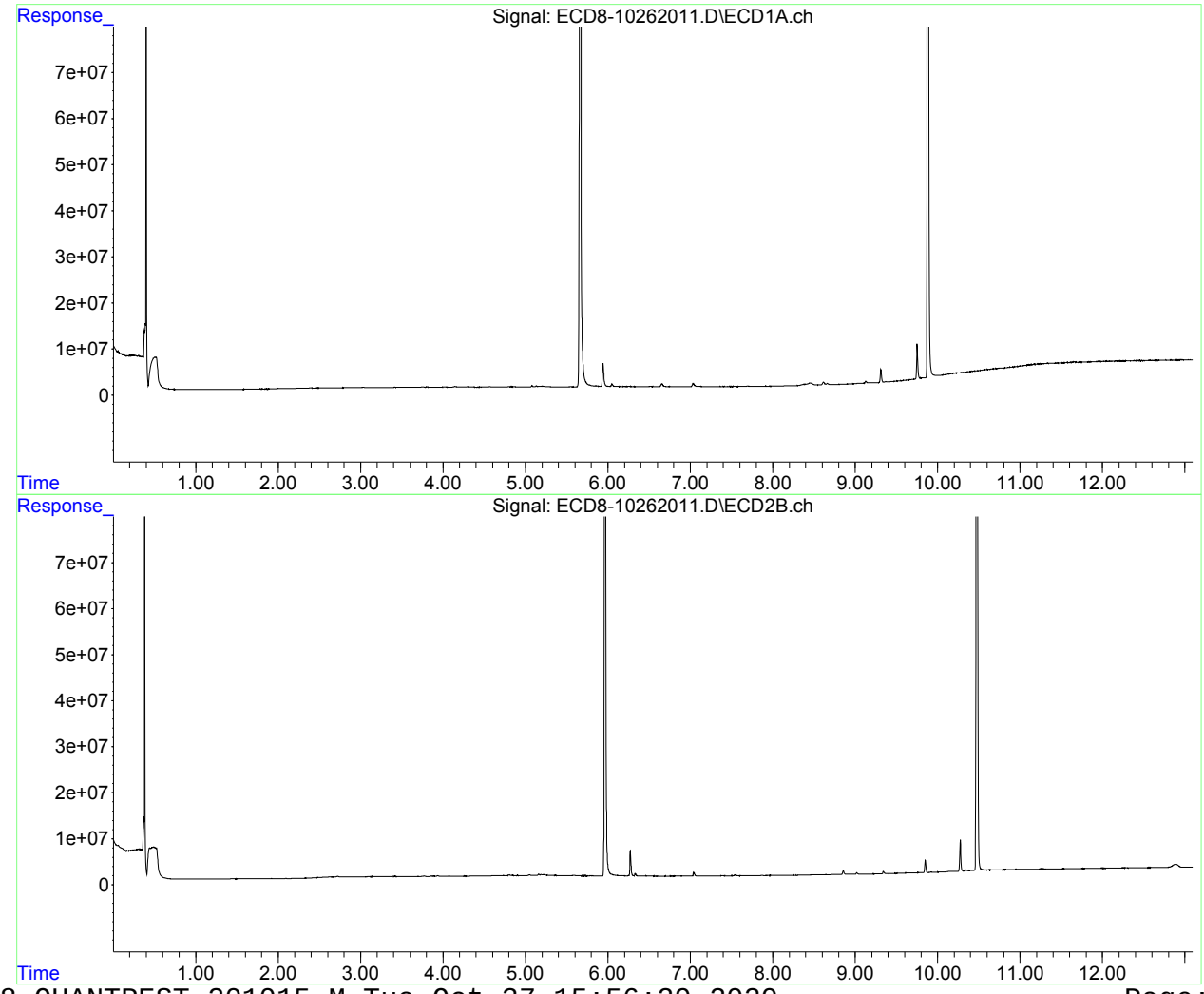
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 14:43
Operator : MJB
Sample : 0J26061-CCB1
Misc : A2J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 15:55:33 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



Quantitation Report (Not Reviewed) HML 10/27/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 15:17
Operator : MJB
Sample : 0100834-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:43:22 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.663	5.966	96587271	111.3E6	27.312	27.807	
22) S	DCBP (S)	9.882	10.475	120.9E6	112.4E6	48.262	46.453	
	Target Compounds							
2)	a-BHC	6.226	6.554	593887	101198	0.126	0.019	#
3)	g-BHC	6.512	6.894	222126	68339	0.055	0.015	#
4)	b-BHC	6.572	6.944	385876	87150	0.247	0.045	#
5)	Heptachlor	6.891	7.247	1453857	548757	0.358	0.120	#
6)	d-BHC	6.735	7.157f	109017	1775915	0.094	0.507	#
7)	Aldrin	7.147	7.499	119767	100798	0.030	0.024	
8)	Heptachlo...	7.593	7.932	611682	200356	0.167	0.050	#
9)	trans-Chl...	7.694	8.106f	322254	773737	0.088	0.194	#
10)	cis-Chlor...	7.762f	8.211	1127758	2622269	0.311	0.676	#
11)	Endosulfa...	7.918	8.249	178092	248235	0.052	0.069	#
12)	4,4'-DDE	7.839	8.300	2444383	271839	0.776	0.128	#
13)	Dieldrin	8.073	8.434	118185	209350	0.031	0.071	#
14)	Endrin	8.254	8.658	81686	128973	0.030	0.076	#
15)	4,4'-DDD	8.311f	8.714	268818	75018	0.099	0.028	#
16)	Endosulfa...	8.385f	8.793	1020470	189597	0.346	0.058	#
17)	4,4'-DDT	8.478	8.931	42929	365683	0.049	0.199	#
18)	Endrin Al...	8.704	9.054	96988	158497	BelowCal	BelowCal	
19)	Endosulfa...	8.996	9.248	123810	310928	0.041	0.094	#
20)	Methoxychlor	8.808	9.397	367777	595940	0.267	0.374	#
21)	Endrin Ke...	9.203	9.633	252481	621904	0.068	0.159	#
23)	Hexachlor...	3.452	3.642f	481688	67639302	BelowCal	17.922	
24)	Hexachlor...	6.050	6.454f	602511	2274723	0.180	0.572	#
25)	Oxychlordane	0.000	7.903f	0	826386	N.D.	0.235	#

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 15:17
Operator : MJB
Sample : 0100834-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:43:22 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.593	8.061	611682	1392370	0.288	0.574	#
27)	trans-Non...	7.762f	8.147	1127758	920659	0.312	0.233	#
28)	2,4'-DDD	7.981	8.434	169417	209350	0.088	BelowCal	#
29)	2,4'-DDT	8.164	8.658	327592	128973	0.153	BelowCal	#
30)	cis-Nonac...	8.254	8.714	81686	75018	0.021	0.018	
31)	Mirex	8.967f	9.633	231242	621904	BelowCal	BelowCal	
32)	Chlordane...	7.694f	8.106	322254	773737	0.782	1.588	#
33)	Chlordane...	7.839f	8.211	2444383	2622269	5.832	6.334	
34)	Chlordane...	8.385	8.877	1020470	168344	7.913	1.245	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.839f	8.434	2444383	209350	164.309	5.508	#
37)	Toxaphene...	8.116	8.793	23133	189597	0.702	4.022	#
38)	Toxaphene...	8.385f	8.826	1020470	403401	14.720	5.736	#
39)	Toxaphene...	8.645	8.901	406387	227065	5.461	1.906	#
40)	Toxaphene...	8.899	9.054	29376	158497	0.495	2.301	#
41)	Toxaphene...	8.967	9.442	231242	1474401	3.435	19.690	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

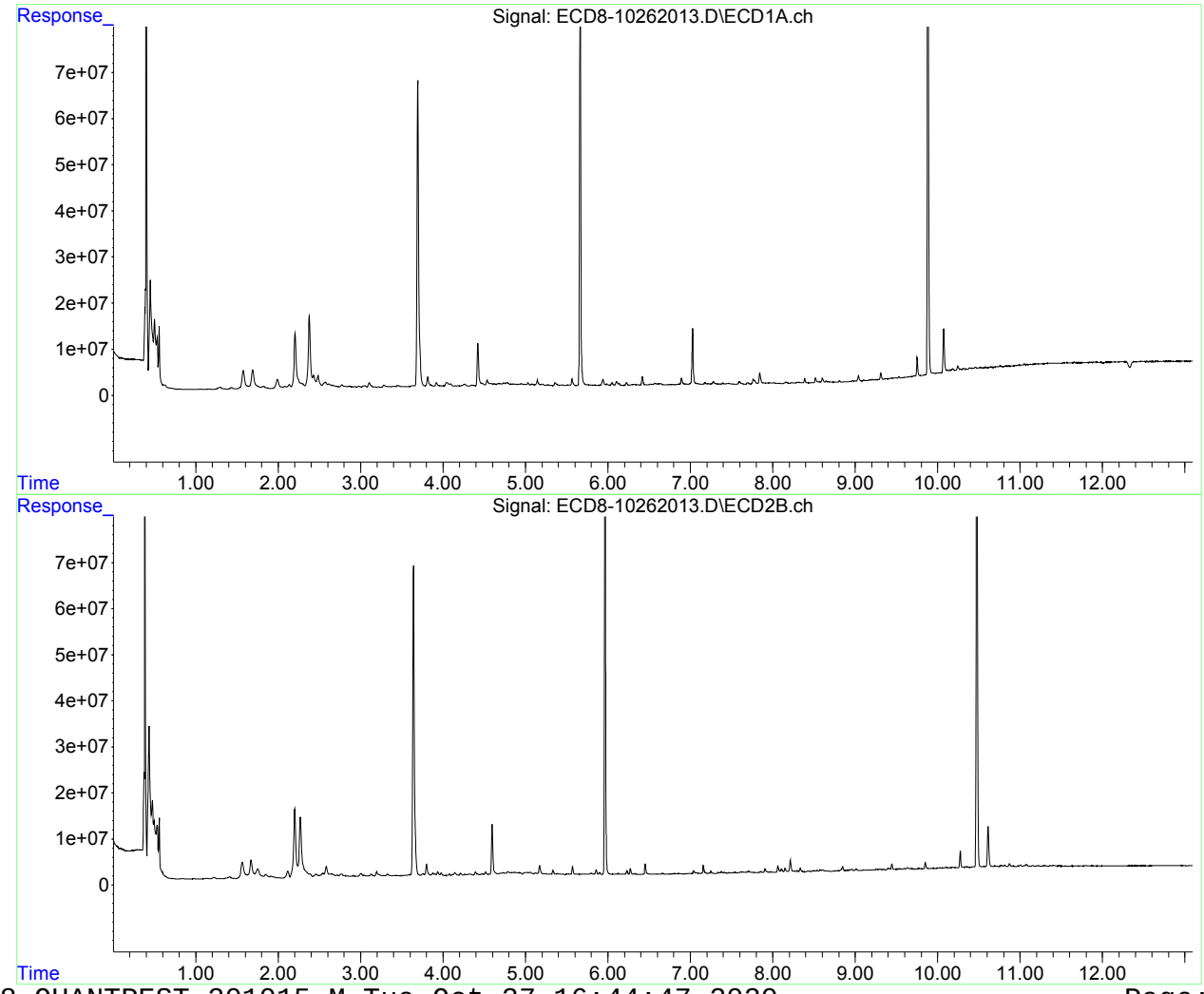
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 15:17
Operator : MJB
Sample : 0100834-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:43:22 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



Quantitation Report (Not Reviewed) HML 10/27/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 15:33
Operator : MJB
Sample : 0100834-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:45:14 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.663	5.966	120.7E6	144.6E6	34.126	36.142	
22)	S DCBP (S)	9.882	10.476	133.3E6	125.7E6	53.183	51.945	
	Target Compounds							
2)	a-BHC	6.230	6.562	530978	89772	0.113	0.017	#
3)	g-BHC	6.490	6.861	142327	87021	0.035	0.019	#
4)	b-BHC	6.575	6.945	254846	59764	0.163	0.031	#
5)	Heptachlor	6.892	7.248	1620599	130941	0.399	0.029	#
6)	d-BHC	6.735	7.158f	138705	1953876	0.103	0.551	#
7)	Aldrin	7.179f	7.497	212959	75179	0.054	0.018	#
8)	Heptachlo...	7.599	7.981f	100.6E6	156848	27.513	0.039	#
9)	trans-Chl...	7.691	8.071	415547	114.1E6	0.113	28.663	#
10)	cis-Chlor...	7.763f	8.210	1285850	2457639	0.355	0.633	#
11)	Endosulfa...	0.000	8.261	0	282974	N.D.	0.079	#
12)	4,4'-DDE	7.851	8.294	159.9E6	179.5E6	50.742	48.090	
13)	Dieldrin	8.063	8.441	377772	109.9E6	0.101	27.646	#
14)	Endrin	8.228	8.664	355528	115.2E6	0.130	40.860	#
15)	4,4'-DDD	8.280	8.707	131.6E6	148.3E6	48.372	47.284	
16)	Endosulfa...	8.386f	8.794	832187	385594	0.283	0.118	#
17)	4,4'-DDT	8.477	8.931	144.6E6	153.8E6	52.676	50.110	
18)	Endrin Al...	8.710	9.035	332282	220543	BelowCal	BelowCal	
19)	Endosulfa...	8.996	9.263f	21313	218785	0.007	0.066	#
20)	Methoxychlor	8.808	9.395	257632	347174	0.187	0.197	
21)	Endrin Ke...	9.203	9.638	69201	616339	0.019	0.158	#
23)	Hexachlor...	3.451	3.642f	549474	81752749	BelowCal	21.586	
24)	Hexachlor...	6.049	6.457f	837527	451718	0.250	0.113	#
25)	Oxychlordane	7.538	7.865	30414	134880	0.009	0.038	#

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 15:33
Operator : MJB
Sample : 0100834-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:45:14 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.599	8.071	100.6E6	114.1E6	47.293	47.013	
27)	trans-Non...	7.763f	8.148	1285850	1440145	0.356	0.365	
28)	2,4'-DDD	7.977	8.441	96525326	109.9E6	50.238	51.646	
29)	2,4'-DDT	8.159	8.664	109.1E6	115.2E6	50.832	50.629	
30)	cis-Nonac...	8.280	8.707	131.6E6	148.3E6	33.359	34.675	
31)	Mirex	8.924	9.608	788539	122940	0.028	BelowCal	#
32)	Chlordane...	7.691f	8.071f	415547	114.1E6	1.009	234.190	#
33)	Chlordane...	7.851f	8.210	159.9E6	2457639	381.465	5.936	#
34)	Chlordane...	8.386	8.877	832187	200535	6.453	1.483	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	8.441	0	109.9E6	N.D.	2892.256	#
37)	Toxaphene...	8.131f	8.794	2506304	385594	76.090	8.179	#
38)	Toxaphene...	8.386f	8.826	832187	519469	12.004	7.386	#
39)	Toxaphene...	8.646	8.898	340374	244071	4.574	2.049	#
40)	Toxaphene...	8.881	9.093f	81457	105760	1.372	1.535	
41)	Toxaphene...	8.965	9.442	78407	210814	1.165	2.815	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

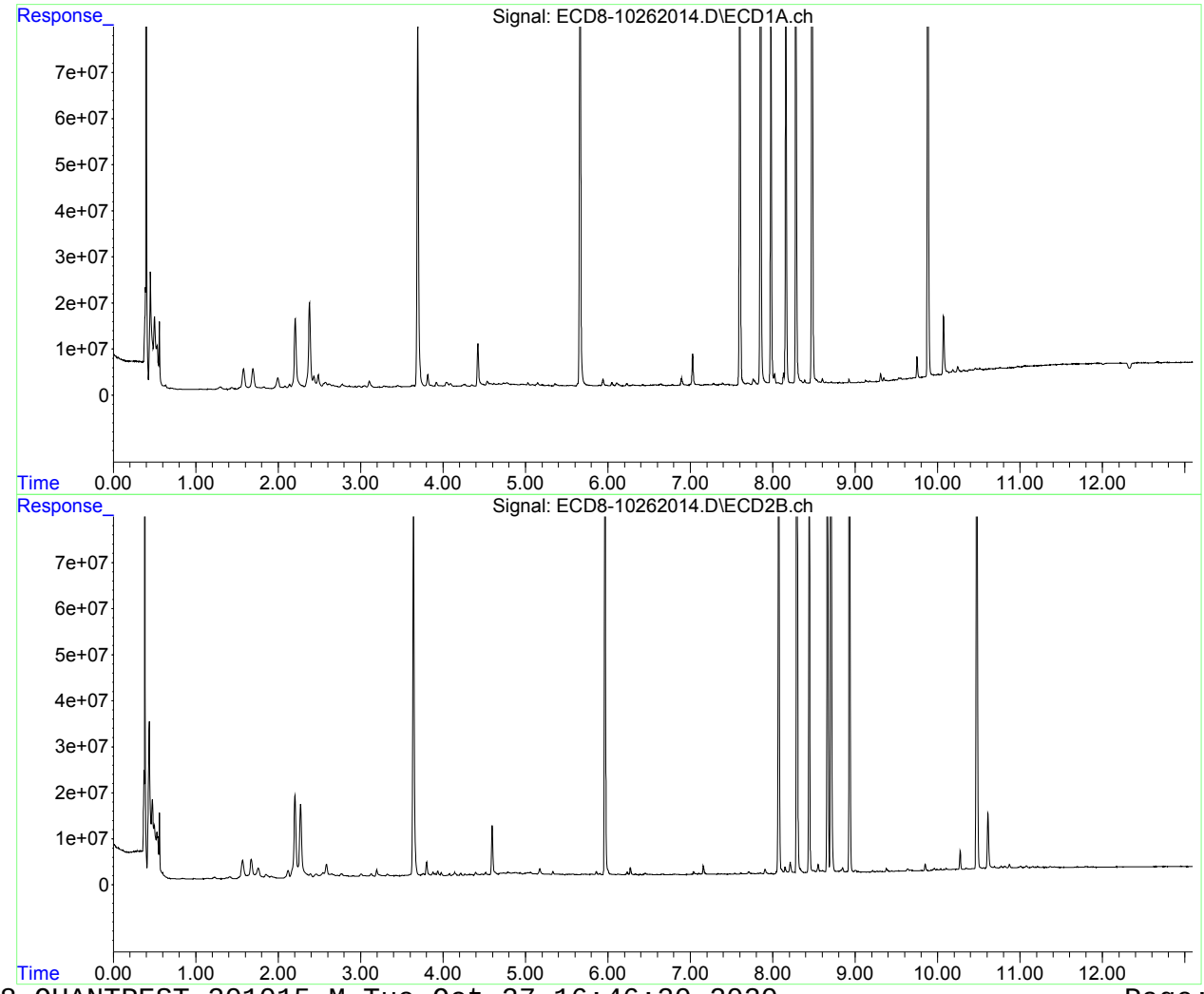
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 15:33
Operator : MJB
Sample : 0100834-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:45:14 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



Quantitation Report (Not Reviewed) HML 10/27/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 17:12
Operator : MJB
Sample : 0J26061-CCV4
Misc : A20H476, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 17:49:24 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.663	5.966	355.8E6	432.2E6	100.607	108.016	
22) S	DCBP (S)	9.882	10.475	258.4E6	258.4E6	102.764	106.805	
	Target Compounds							
2)	a-BHC	6.214	6.560	491.4E6	622.8E6	104.298	116.428	
3)	g-BHC	6.500	6.875	439.3E6	528.4E6	109.155	113.618	
4)	b-BHC	6.578	6.940	173.0E6	214.8E6	110.860	109.758	
5)	Heptachlor	6.897	7.247	404.5E6	476.9E6	99.661	104.205	
6)	d-BHC	6.731	7.188	395.9E6	521.8E6	107.797	107.249	
7)	Aldrin	7.139	7.510	426.7E6	484.3E6	108.620	113.429	
8)	Heptachlo...	7.609	7.944	379.3E6	442.7E6	103.757	110.247	
9)	trans-Chl...	7.702	8.084	391.0E6	457.5E6	106.182	114.951	
10)	cis-Chlor...	7.799	8.191	371.0E6	426.1E6	102.427	109.831	
11)	Endosulfa...	7.903	8.240	351.5E6	413.1E6	103.331	114.859	
12)	4,4'-DDE	7.850	8.293	363.8E6	462.9E6	115.465	110.406	
13)	Dieldrin	8.077	8.439	400.0E6	453.5E6	106.464	102.987	
14)	Endrin	8.246	8.662	292.2E6	339.3E6	106.545	105.972	
15)	4,4'-DDD	8.280	8.705	320.7E6	395.7E6	117.931	112.305	
16)	Endosulfa...	8.407	8.808	310.1E6	353.2E6	105.269	108.480	
17)	4,4'-DDT	8.477	8.930	291.7E6	340.5E6	98.319	98.906	
18)	Endrin Al...	8.703	9.044	292.9E6	331.9E6	102.879	104.706	
19)	Endosulfa...	9.009	9.237	304.9E6	356.9E6	102.018	107.397	
20)	Methoxychlor	8.807	9.396	153.8E6	176.8E6	111.747	105.244	
21)	Endrin Ke...	9.211	9.628	398.5E6	466.2E6	107.770	119.347	
23)	Hexachlor...	3.452	3.680	55363	42271	BelowCal	BelowCal	
24)	Hexachlor...	6.050	6.432	690249	180913	0.206	0.045	#
25)	Oxychlordane	7.542	7.866	1574707	440151	0.488	0.125	#

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 17:12
Operator : MJB
Sample : 0J26061-CCV4
Misc : A20H476, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 17:49:24 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.609	8.084	379.3E6	457.5E6	178.350	188.545	
27)	trans-Non...	7.799	8.149	371.0E6	1450534	102.681	0.368	#
28)	2,4'-DDD	7.971	8.439	615569	453.5E6	0.320	184.760	#
29)	2,4'-DDT	8.158	8.662	1022232	339.3E6	0.476	129.660	#
30)	cis-Nonac...	8.280	8.705	320.7E6	395.7E6	81.330	92.498	
31)	Mirex	8.936	9.628	570897	466.2E6	BelowCal	175.482	
32)	Chlordane...	7.702f	8.084f	391.0E6	457.5E6	949.220	939.213	
33)	Chlordane...	7.799	8.240f	371.0E6	413.1E6	885.139	997.761	
34)	Chlordane...	8.407f	8.881	310.1E6	1617191	2404.405	11.957	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.799	8.439	371.0E6	453.5E6	24939.199	11932.171	#
37)	Toxaphene...	8.077f	8.808	400.0E6	353.2E6	12142.745	7492.100	#
38)	Toxaphene...	8.407	8.808	310.1E6	353.2E6	4472.709	5021.997	
39)	Toxaphene...	8.626f	8.881	2914162	1617191	39.158	13.575	#
40)	Toxaphene...	8.881	9.044f	869822	331.9E6	14.653	4818.333	#
41)	Toxaphene...	8.962	9.481f	796419	1659816	11.829	22.166	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

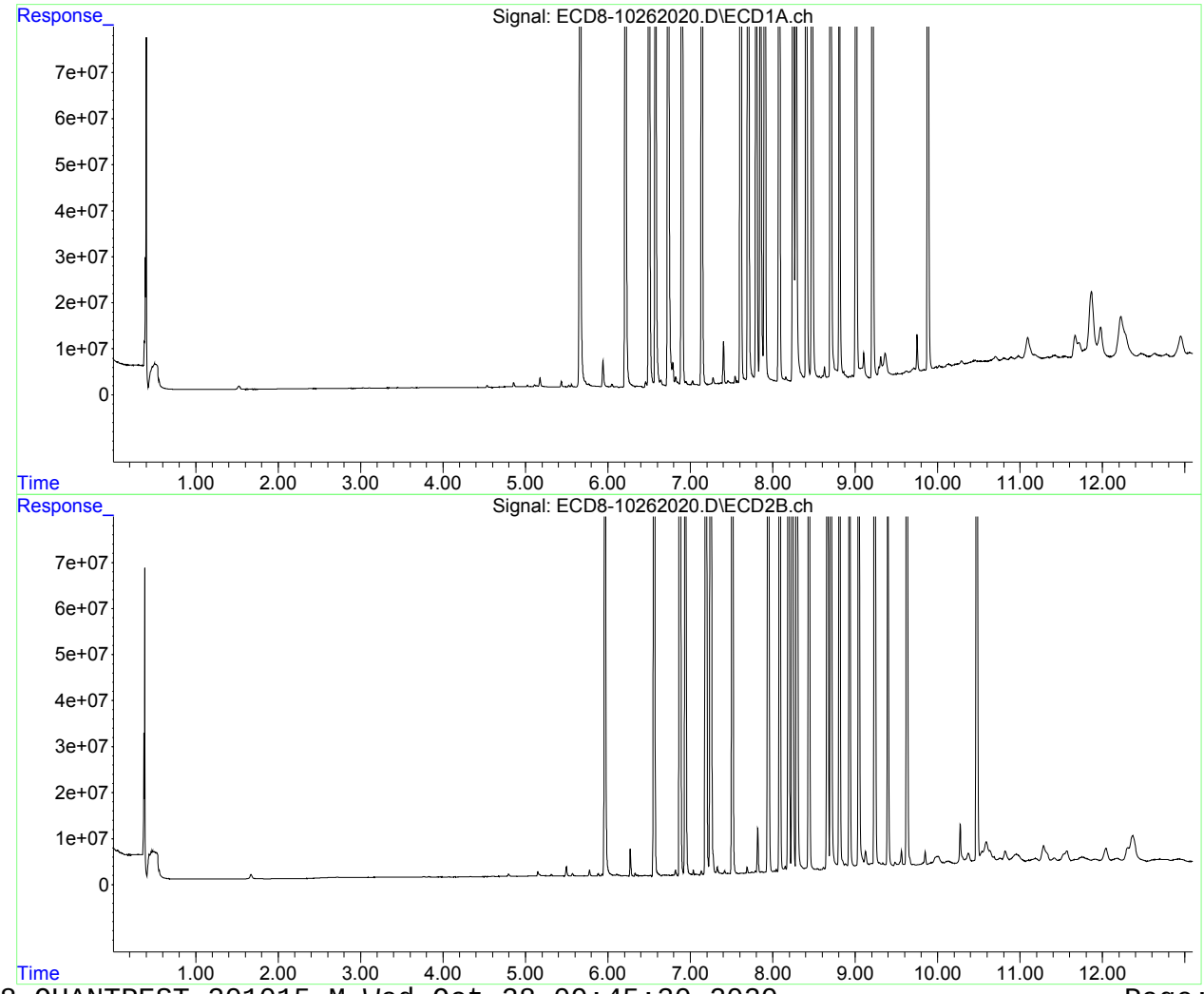
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 17:12
Operator : MJB
Sample : 0J26061-CCV4
Misc : A20H476, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 17:49:24 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



Quantitation Report (Not Reviewed) HML 10/27/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 17:29
Operator : MJB
Sample : 0J26061-CCV5
Misc : A20I186, 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 09:36:42 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.633f	5.968	2392131	20504	0.676	0.005	#
22) S	DCBP (S)	9.893	10.438f	755144	704886	0.043	0.291	#
	Target Compounds							
2)	a-BHC	6.242f	6.557	305041	267865	0.065	0.050	
3)	g-BHC	6.493	6.874	129568	28973	0.032	0.006	#
4)	b-BHC	6.591	6.946	109012	83194	0.070	0.043	#
5)	Heptachlor	6.899	7.247	754095	837574	0.186	0.183	
6)	d-BHC	6.739	7.190	102447	74125	0.091	0.085	
7)	Aldrin	7.142	7.508	15510	40259	0.004	0.009	#
8)	Heptachlo...	7.599	7.981f	218.0E6	1088576	59.640	0.271	#
9)	trans-Chl...	7.700	8.070	1007002	261.6E6	0.273	65.718	#
10)	cis-Chlor...	7.786	8.184	356.3E6	3061793	98.355	0.789	#
11)	Endosulfa...	7.895	8.267f	460269	446879	0.135	0.124	
12)	4,4'-DDE	7.882f	8.299	514493	346908	0.163	0.150	
13)	Dieldrin	8.090	8.441	657836	240.3E6	0.175	57.922	#
14)	Endrin	8.264	8.663	379.6E6	247.7E6	138.439	81.038	#
15)	4,4'-DDD	8.264	8.709	379.6E6	451.8E6	139.593	125.439	
16)	Endosulfa...	8.417	8.809	523544	364693	0.178	0.112	#
17)	4,4'-DDT	8.477	8.924	317833	546793	0.160	0.266	#
18)	Endrin Al...	8.705	9.050	99062	661413	BelowCal	BelowCal	
19)	Endosulfa...	8.983f	9.237	1234120	399922	0.413	0.120	#
20)	Methoxychlor	0.000	9.401	0	347220	N.D.	0.197	#
21)	Endrin Ke...	9.212	9.617	128238	264.3E6	0.035	67.654	#
23)	Hexachlor...	3.453	3.678	359.3E6	445.0E6	106.973	105.591	
24)	Hexachlor...	6.050	6.429	322.0E6	407.2E6	96.252	102.305	
25)	Oxychlordane	7.532	7.875	305.6E6	366.0E6	94.613	103.992	

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 17:29
Operator : MJB
Sample : 0J26061-CCV5
Misc : A20I186, 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 09:36:42 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.599	8.070	218.0E6	261.6E6	102.517	107.792	
27)	trans-Non...	7.786	8.150	356.3E6	411.0E6	98.600	104.242	
28)	2,4'-DDD	7.978	8.441	199.6E6	240.3E6	103.870	106.282	
29)	2,4'-DDT	8.159	8.663	214.5E6	247.7E6	99.962	99.595	
30)	cis-Nonac...	8.264	8.709	379.6E6	451.8E6	96.269	105.603	
31)	Mirex	8.939	9.617	239.7E6	264.3E6	101.604	104.027	
32)	Chlordane...	7.700f	8.070f	1007002	261.6E6	2.444	536.953	#
33)	Chlordane...	7.786f	8.184f	356.3E6	3061793	849.955	7.396	#
34)	Chlordane...	8.378	8.876	551182	434920	4.274	3.216	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.786	8.441	356.3E6	240.3E6	23947.887	6322.075	#
37)	Toxaphene...	8.090	8.809	657836	364693	19.972	7.736	#
38)	Toxaphene...	8.417	8.809	523544	364693	7.552	5.185	#
39)	Toxaphene...	8.655	8.894	61515	506002	0.827	4.247	#
40)	Toxaphene...	8.889	9.074	356228	377699	6.001	5.483	
41)	Toxaphene...	8.983f	9.435	1234120	361976	18.331	4.834	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

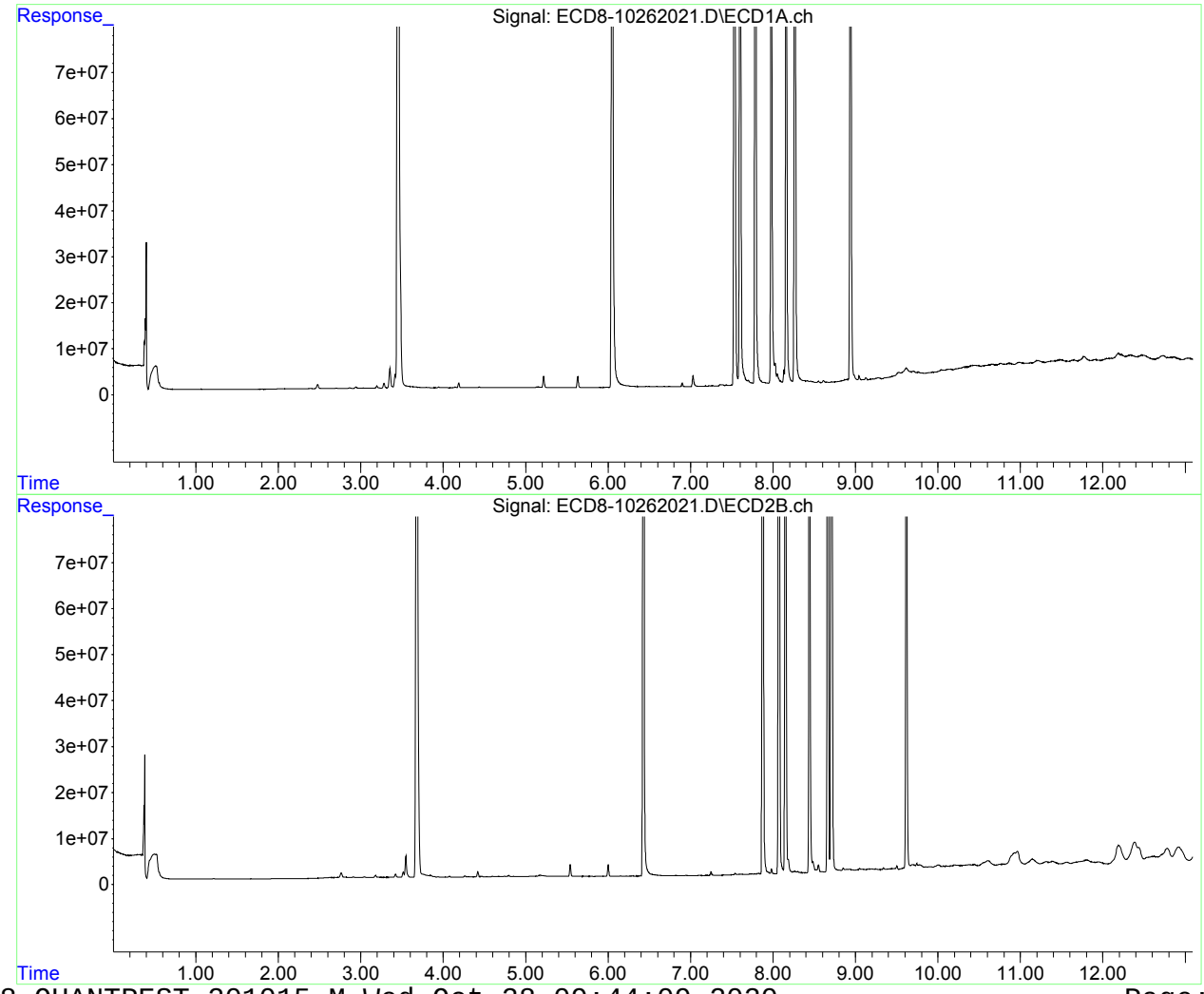
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 17:29
Operator : MJB
Sample : 0J26061-CCV5
Misc : A20I186, 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 09:36:42 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



Quantitation Report (Not Reviewed) HML 10/27/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 17:45
Operator : MJB
Sample : 0J26061-CCB2
Misc : A20J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 09:47:03 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.663	5.965	321.2E6	389.0E6	90.816	97.219	
22)	S	DCBP (S)	9.883	10.475	237.2E6	230.6E6	94.423	95.335	
		Target Compounds							
2)		a-BHC	6.192f	6.580	42132	237375	0.009	0.044	#
3)		g-BHC	6.490	6.876	67119	377265	0.017	0.081	#
4)		b-BHC	6.587	6.943	9108	447661	0.006	0.229	#
5)		Heptachlor	6.901	0.000	36400	0	0.009	N.D.	#
6)		d-BHC	6.734	7.190	30593	324047	0.068	0.147	#
7)		Aldrin	7.103f	7.507	82975	8993	0.021	0.002	#
8)		Heptachlo...	7.601	7.946	12633	111520	0.003	0.028	#
9)		trans-Chl...	7.690	8.080	99619	195283	0.027	0.049	#
10)		cis-Chlor...	7.802	8.191	11918	77646	0.003	0.020	#
11)		Endosulfa...	7.908	8.240	18696	78787	0.005	0.022	#
12)		4,4'-DDE	7.858	8.296	25323	95755	0.008	0.076	#
13)		Dieldrin	8.085	8.437	9003	66572	0.002	0.034	#
14)		Endrin	8.227f	8.650	4215	91706	0.002	0.062	#
15)		4,4'-DDD	0.000	8.711	0	299689	N.D.	0.107	#
16)		Endosulfa...	8.397	8.812	445504	472294	0.151	0.145	
17)		4,4'-DDT	8.461	8.908f	927181	443404	0.404	0.228	#
18)		Endrin Al...	8.707	9.053	93556	1503355	BelowCal	0.243	
19)		Endosulfa...	9.007	9.225	126855	2020228	0.042	0.608	#
20)		Methoxychlor	0.000	9.415	0	414738	N.D.	0.245	#
21)		Endrin Ke...	9.216	9.632	93130	715525	0.025	0.183	#
23)		Hexachlor...	3.455	3.693	31172	50811	BelowCal	BelowCal	
24)		Hexachlor...	6.050	6.427	610897	247749	0.183	0.062	#
25)		Oxychlordane	7.529	7.870	12803	133976	0.004	0.038	#

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 17:45
Operator : MJB
Sample : 0J26061-CCB2
Misc : A20J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 09:47:03 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.601	8.072	12633	198333	0.006	0.082	#
27)	trans-Non...	7.802	8.179f	11918	79642	0.003	0.020	#
28)	2,4'-DDD	7.979	8.444	27023	67495	0.014	BelowCal	#
29)	2,4'-DDT	8.177	8.650	7232	91706	0.003	BelowCal	#
30)	cis-Nonac...	8.227f	8.711	4215	299689	0.001	0.070	#
31)	Mirex	8.938	9.620	217915	702937	BelowCal	BelowCal	
32)	Chlordane...	7.718	8.107	18123	193370	0.044	0.397	#
33)	Chlordane...	7.820	8.217	10499	68220	0.025	0.165	#
34)	Chlordane...	8.397	8.884	445504	461454	3.455	3.412	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.802	8.444	11918	67495	0.801	1.776	#
37)	Toxaphene...	8.090	8.779	6968	360845	0.212	7.654	#
38)	Toxaphene...	8.397f	8.826	445504	485695	6.426	6.906	
39)	Toxaphene...	8.655	8.892	289855	445239	3.895	3.737	
40)	Toxaphene...	8.888	9.071	169601	1499593	2.857	21.768	#
41)	Toxaphene...	8.953	9.442	211574	407144	3.143	5.437	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

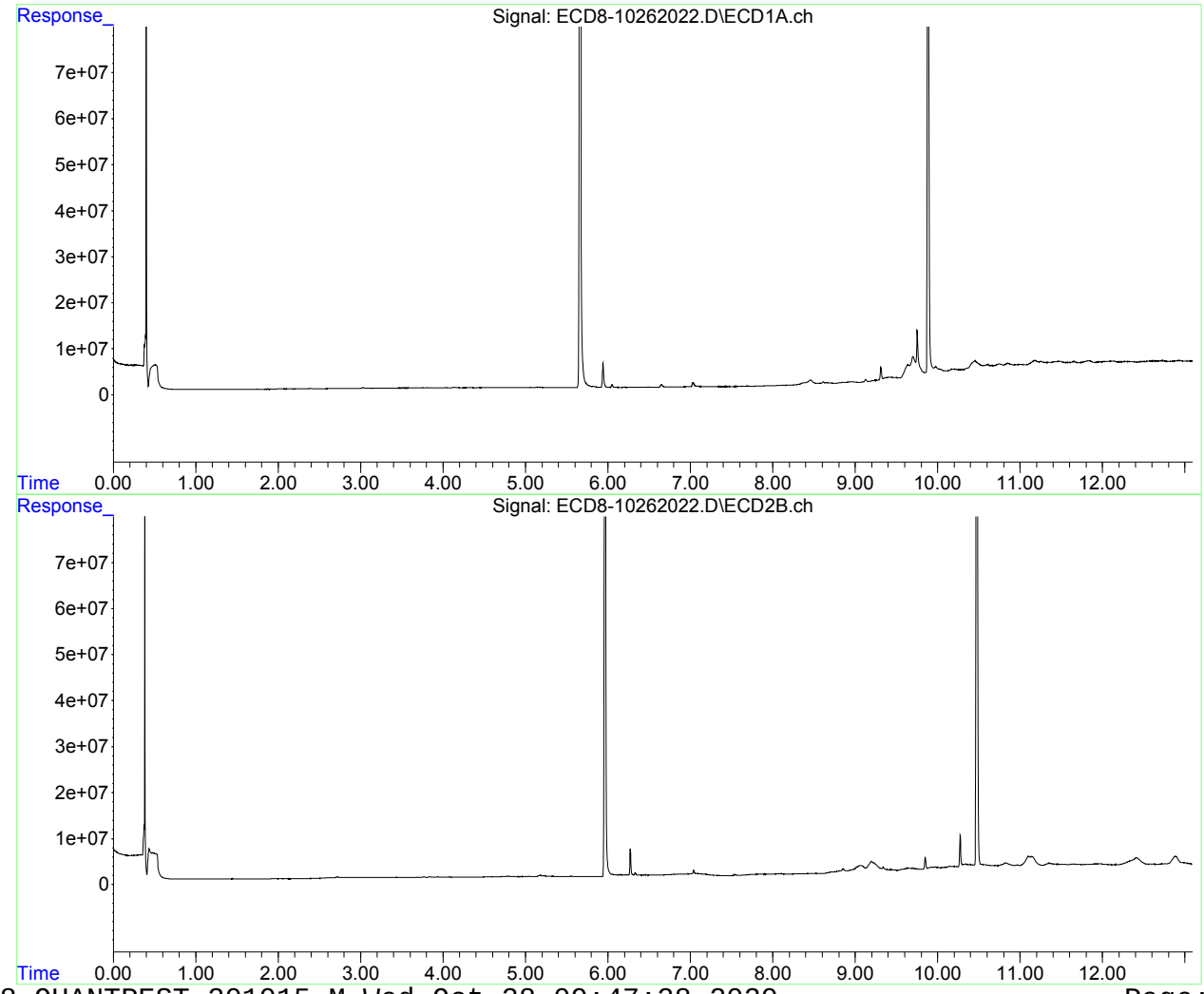
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 17:45
Operator : MJB
Sample : 0J26061-CCB2
Misc : A20J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 09:47:03 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



Quantitation Report (QT Reviewed) HML 10/28/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 18:35
Operator : MJB
Sample : A0J0371-01RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:08:54 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.660	5.965	137.8E6	128.9E6	38.964	32.218	
22) S	DCBP (S)	9.880	10.475	120.7E6	114.9E6	48.191	47.508	
	Target Compounds							
2)	a-BHC	6.217	6.568	2421815	1688603	0.514	0.316	#
3)	g-BHC	6.485	6.904f	2712887	4394630	0.674	0.945	#
4)	b-BHC	6.577	6.944	6741771	1952255	4.319	0.998	#
5)	Heptachlor	6.879	7.258	3023578	5257548	0.745	1.149	#
6)	d-BHC	6.752	7.207	1448037	2823136	0.530	0.767	#
7)	Aldrin	7.116f	7.499	1796248	1278022	0.457	0.299	#
8)	Heptachlo...	7.595	7.979f	1673064	3692735	0.458	0.920	#
9)	trans-Chl...	7.715	8.086	1425253	3936654	0.387	0.989	#
10)	cis-Chlor...	7.780f	8.201	1847296	8456909	0.510	2.180	#
11)	Endosulfa...	7.912	8.258	1134603	2098850	0.334	0.584	#
12)	4,4'-DDE	7.831f	8.291	6733348	3839532	2.137	1.180	#MDL
13)	Dieldrin	8.064	8.417f	608689	7399391	0.162	1.947	#=
14)	Endrin	8.256	8.652	537065	1651786	0.196	0.665	#
15)	4,4'-DDD	8.280	8.704	8512507	5029299	3.130	1.756	#MDL
16)	Endosulfa...	8.414	8.818	607939	1760475	0.206	0.541	#=
17)	4,4'-DDT	8.474	8.927	749010	2187601	0.332	0.874	#
18)	Endrin Al...	8.700	9.048	1044793	3141620	0.068	0.806	#
19)	Endosulfa...	9.005	9.245	1983801	2611917	0.664	0.786	
20)	Methoxychlor	8.808	9.389	1052861	3119691	0.765	2.167	#
21)	Endrin Ke...	9.192	9.626	514392	2690034	0.139	0.689	#
23)	Hexachlor...	3.453	3.642f	747742	99820417	0.020	26.223	#
24)	Hexachlor...	6.048	6.445	2106908	60318499	0.630	15.155	#
25)	Oxychlordane	7.541	7.896	765666	2991532	0.237	0.850	#

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 18:35
Operator : MJB
Sample : A0J0371-01RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:08:54 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.595	8.086	1673064	3936654	0.787	1.622	#P01
27)	trans-Non...	7.780	8.152	1847296	5328803	0.511	1.352	#
28)	2,4'-DDD	8.003f	8.417f	1158763	7399391	0.603	3.520	#P01
29)	2,4'-DDT	8.162	8.676	522712	1756781	0.244	0.706	#
30)	cis-Nonac...	8.256	8.704	537065	5029299	0.136	1.176	#
31)	Mirex	8.920	9.626	1120464	2690034	0.170	0.795	#
32)	Chlordane...	7.715	8.086f	1425253	3936654	3.460	8.081	#
33)	Chlordane...	7.831	8.201	6733348	8456909	16.064	20.427	#
34)	Chlordane...	8.378	8.877	1084828	1800815	8.412	13.315	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.780f	8.417f	1847296	7399391	124.173	194.692	#
37)	Toxaphene...	8.114	8.794	1631509	1782598	49.532	37.811	
38)	Toxaphene...	8.414	8.818	607939	1760475	8.770	25.031	#
39)	Toxaphene...	8.638	8.897	527130	1847912	7.083	15.511	#
40)	Toxaphene...	8.920f	9.048f	1120464	3141620	18.875	45.603	#
41)	Toxaphene...	8.972	9.439	1284629	3492417	19.081	46.639	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

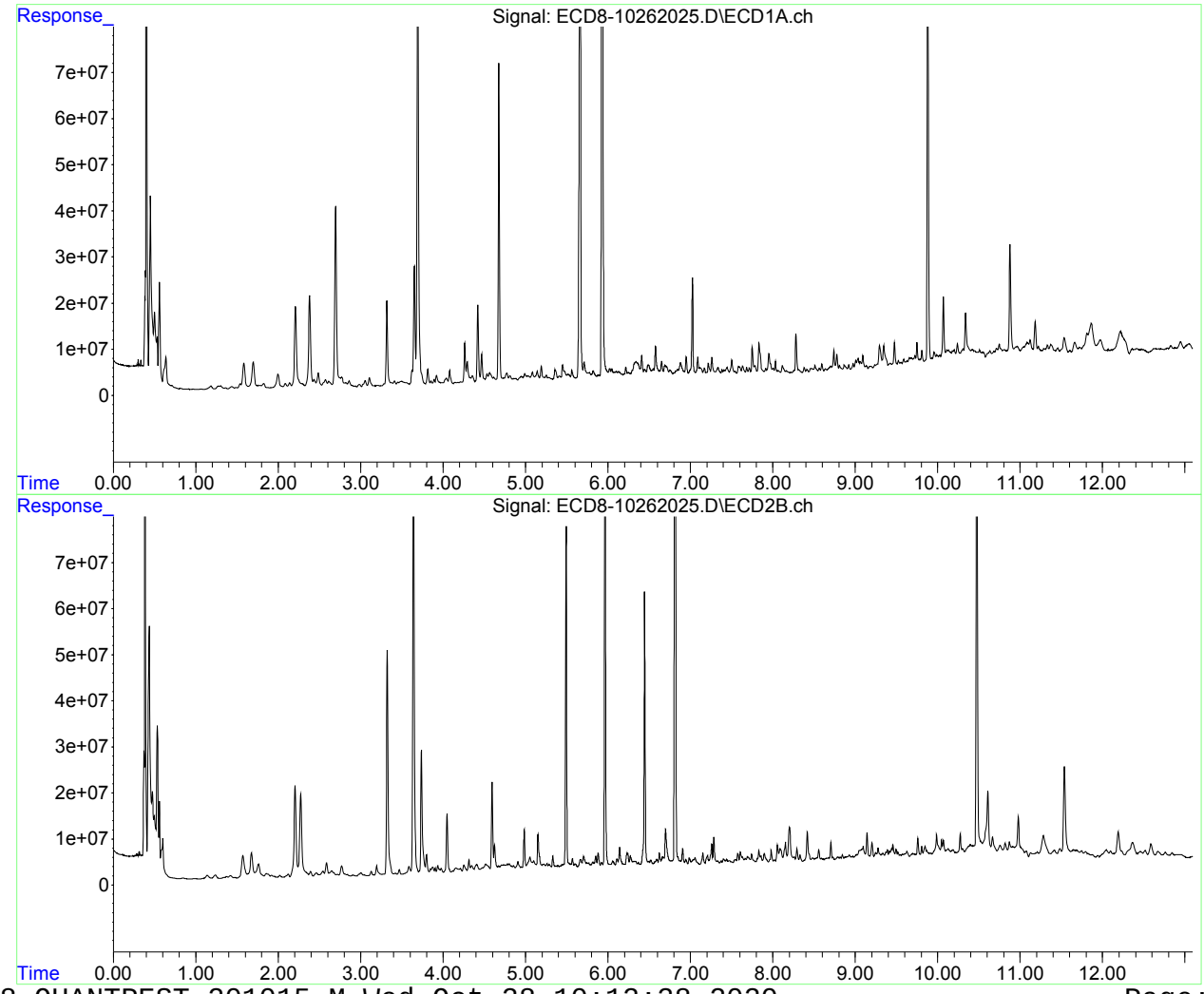
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 18:35
Operator : MJB
Sample : A0J0371-01RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:08:54 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

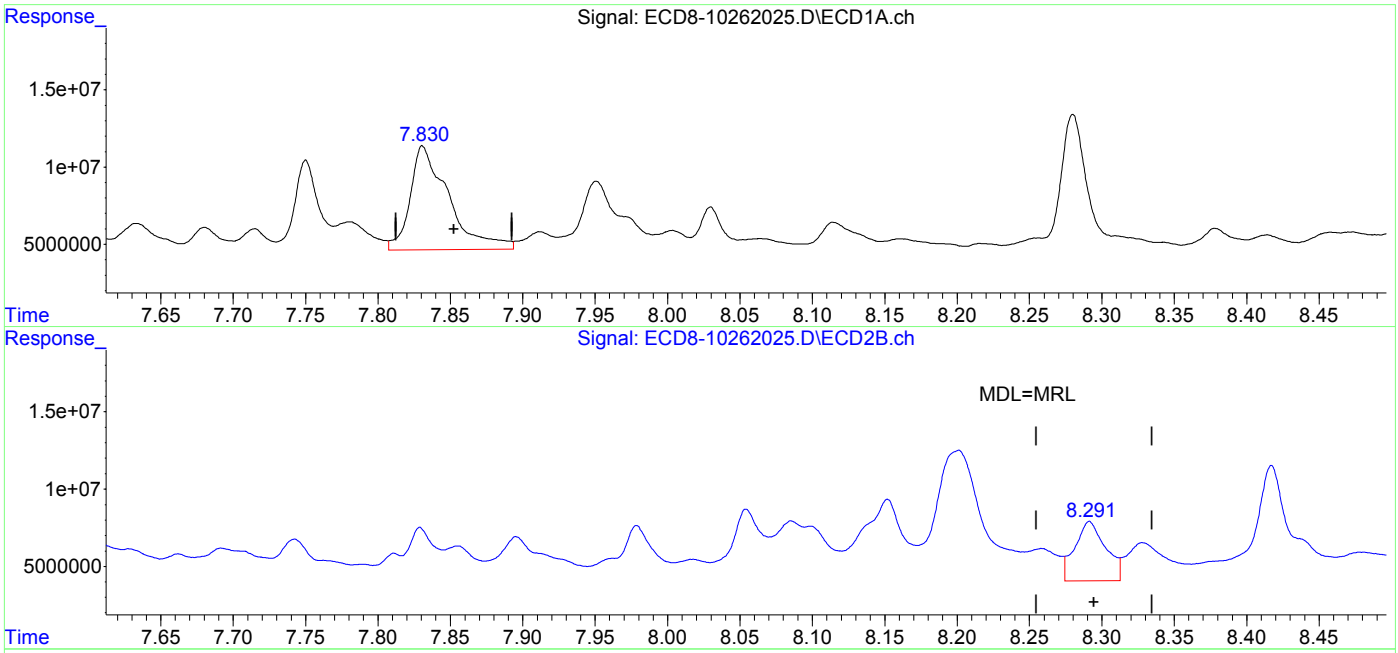


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 18:35
Operator : MJB
Sample   : A0J0371-01RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:08:54 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(12) 4,4'-DDE
7.831min 2.137 ng/mL
response 6733348

(12) 4,4'-DDE #2
8.291min 1.180 ng/mL
response 3839532

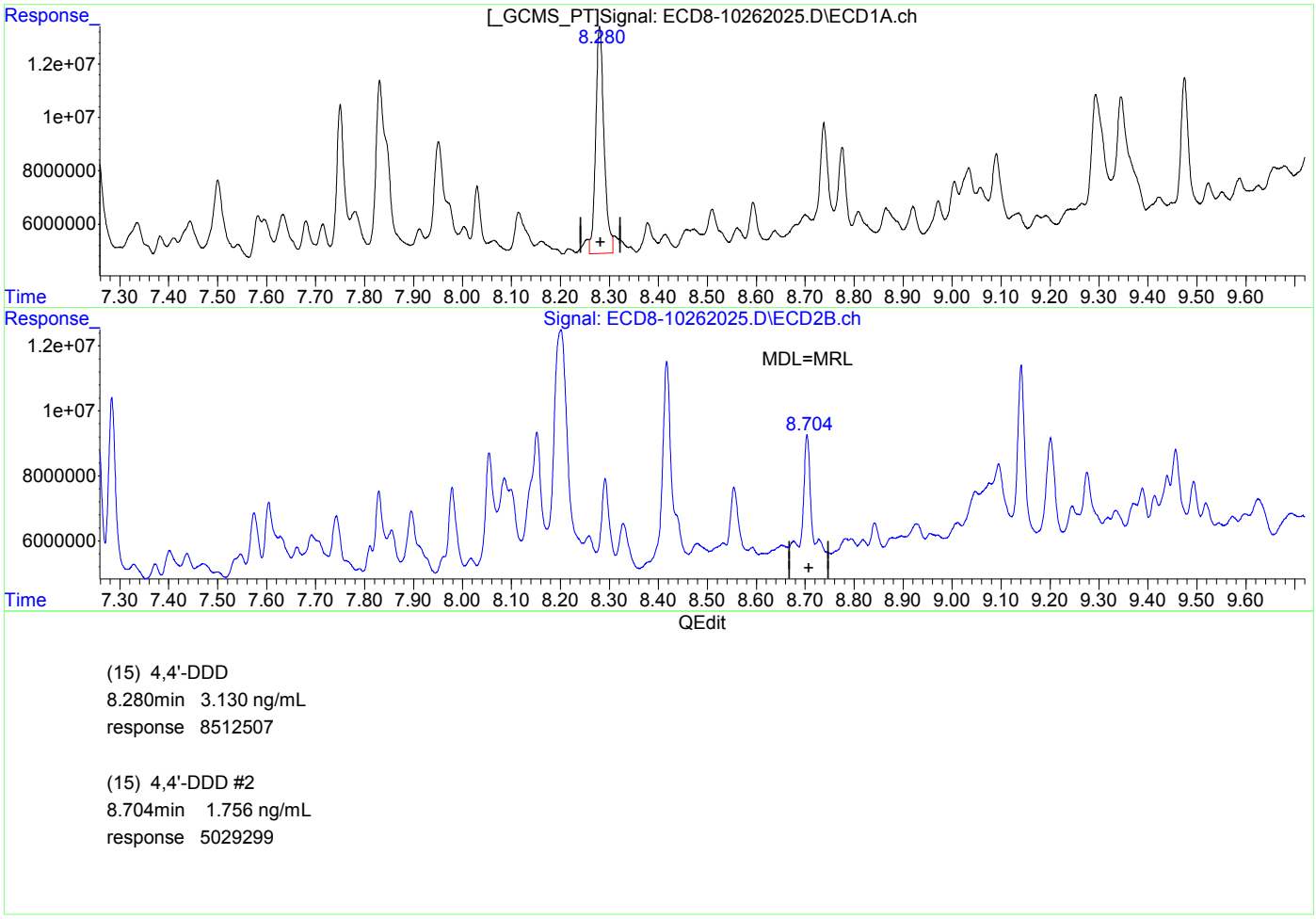
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 18:35
Operator : MJB
Sample : A0J0371-01RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:08:54 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(15) 4,4'-DDD
8.280min 3.130 ng/mL
response 8512507

(15) 4,4'-DDD #2
8.704min 1.756 ng/mL
response 5029299

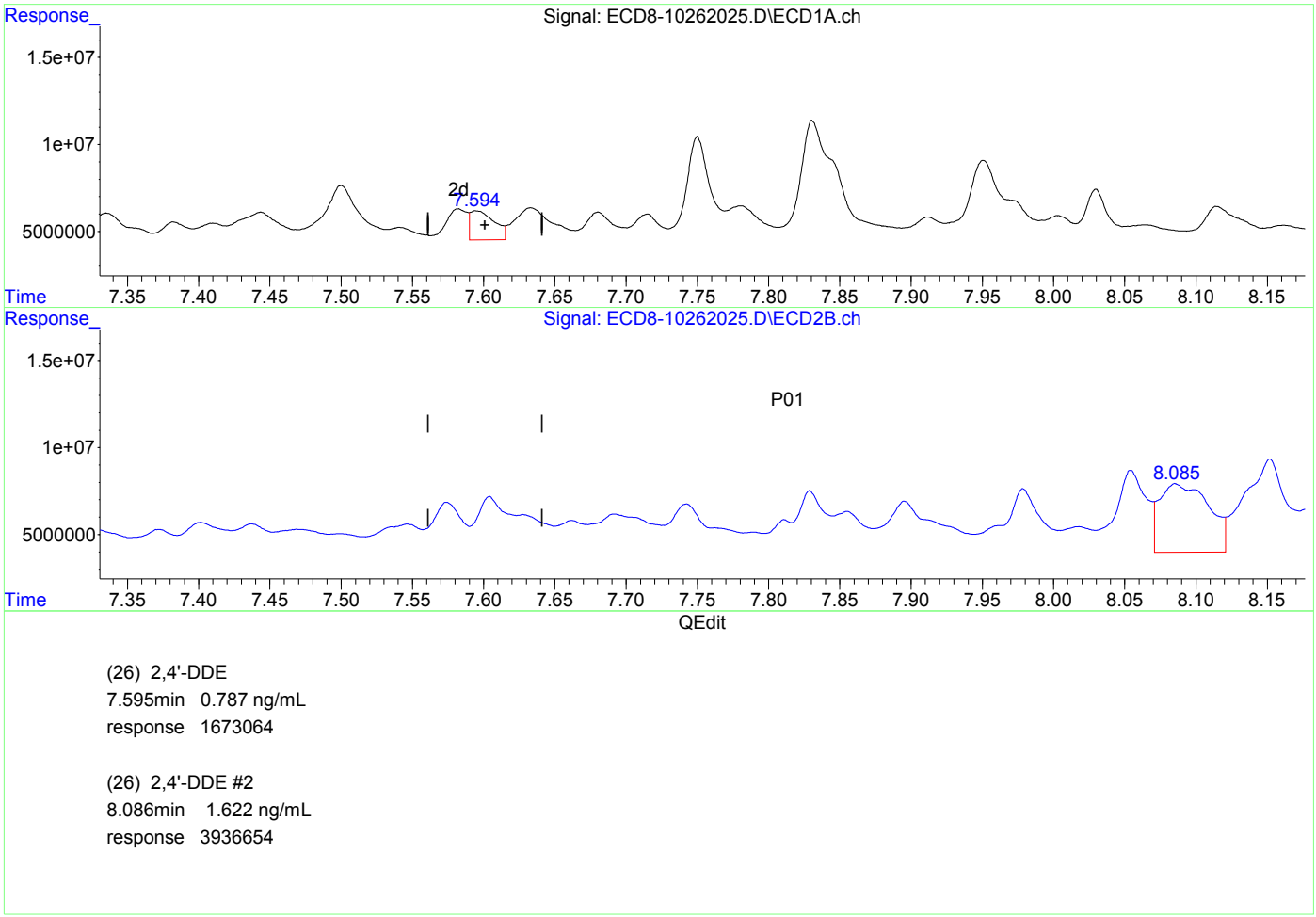
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 18:35
Operator : MJB
Sample   : A0J0371-01RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:08:54 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE
7.595min 0.787 ng/mL
response 1673064

(26) 2,4'-DDE #2
8.086min 1.622 ng/mL
response 3936654

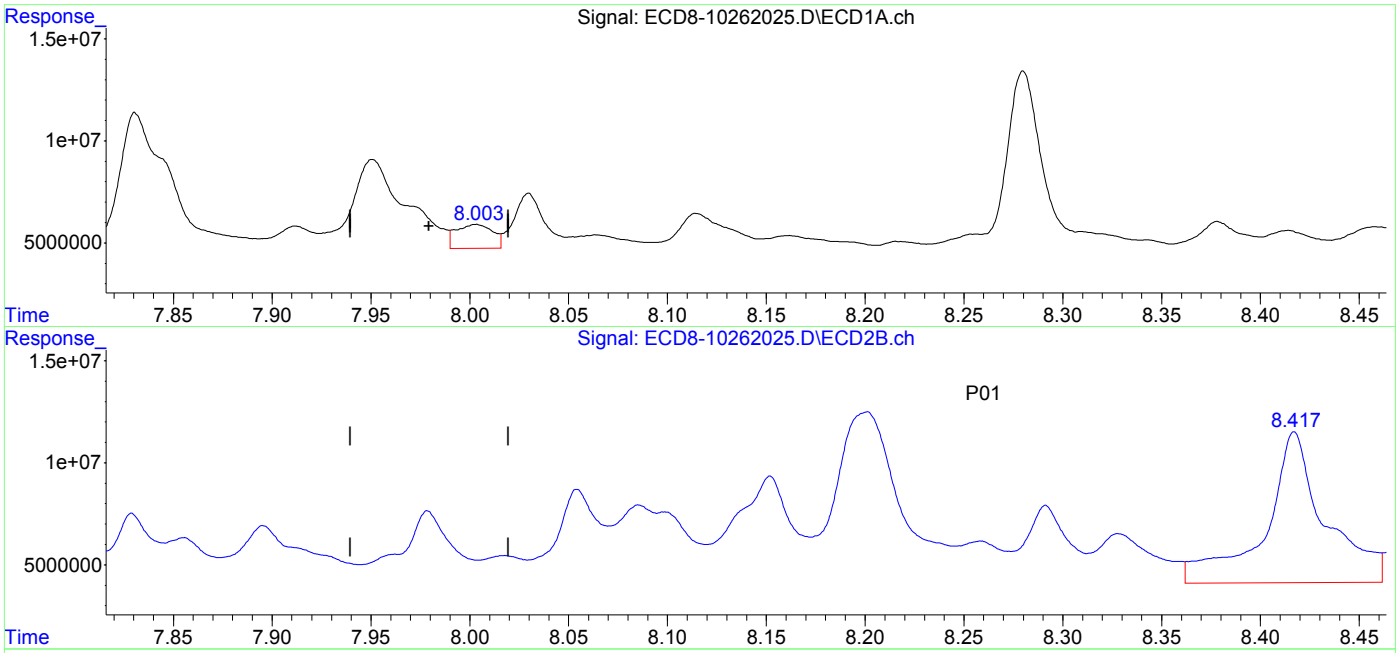
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 18:35
Operator : MJB
Sample   : A0J0371-01RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 18   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:08:54 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD
8.003min 0.603 ng/mL
response 1158763

(28) 2,4'-DDD #2
8.417min 3.520 ng/mL
response 7399391

(+) = Expected Retention Time

Quantitation Report (QT Reviewed) HML 10/28/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 18:52
Operator : MJB
Sample : A0J037103RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:14:22 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL		
	System Monitoring Compounds								
1)	S TCMX (S)	5.658	5.964	134.5E6	103.5E6	38.035	25.873	#	
22)	S DCBP (S)	9.879	10.474	128.2E6	124.4E6	51.163	51.428		
	Target Compounds								
2)	a-BHC	6.195	6.570	829431	3053494	0.176	0.571	#	
3)	g-BHC	6.479f	6.903f	3564438	6099468	0.886	1.312	#	
4)	b-BHC	6.572	6.943	10478529	2512727	6.713	1.284	#	
5)	Heptachlor	6.876f	7.256	3764743	8265992	0.928	1.806	#	
6)	d-BHC	6.748	7.190	1974286	4219705	0.701	1.112	#	
7)	Aldrin	7.158	7.497	1249643	1731559	0.318	0.406	#	
8)	Heptachlo...	7.596	7.958	2373385	1992268	0.649	0.496		
9)	trans-Chl...	7.714	8.084	2092983	5362184	0.568	1.347	#	
10)	cis-Chlor...	7.830f	8.202	9873237	11350802	2.726	2.926		
11)	Endosulfa...	7.911	8.258	1916477	2934181	0.563	0.816	#	
12)	4,4'-DDE	7.830f	8.292	9873237	6100273	3.133	1.844	#	MDL
13)	Dieldrin	8.067	8.437	918463	4161009	0.244	1.103	#	
14)	Endrin	8.278f	8.660	14963984	3093907	5.457	1.221	#	
15)	4,4'-DDD	8.278	8.704	14963984	8415509	5.502	2.930	#	R02
16)	Endosulfa...	8.414	8.818	676276	2048619	0.230	0.629	#	
17)	4,4'-DDT	8.473	8.928	3104177	4574290	1.274	1.754	#	MDL=MRL P01
18)	Endrin Al...	8.700	9.057	581912	3239501	BelowCal	0.839		
19)	Endosulfa...	9.005	9.245	8969298	3943417	3.001	1.187	#	
20)	Methoxychlor	8.807	9.388	1746816	3486150	1.269	2.426	#	
21)	Endrin Ke...	9.192	9.625	981096	3306710	0.265	0.847	#	
23)	Hexachlor...	3.452	3.712f	746247	511483	0.020	BelowCal	#	
24)	Hexachlor...	6.050	6.445	2124999	93391157	0.635	23.465	#	
25)	Oxychlordane	7.539	7.892	1186469	5445094	0.367	1.547	#	

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 18:52
Operator : MJB
Sample : A0J037103RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:14:22 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.596	8.084	2373385	5362184	1.116 MDL=MRL	2.210 #	P01
27)	trans-Non...	7.750f	8.138	89139655	4224289	24.670	1.071 #	
28)	2,4'-DDD	7.973	8.437	3411603	4161009	1.776 MDL=MRL	1.906	P01
29)	2,4'-DDT	8.154	8.660	2210689	3093907	1.030 MDL=MRL	1.356 #	P01
30)	cis-Nonac...	8.278	8.704	14963984	8415509	3.795	1.967 #	
31)	Mirex	8.919f	9.625	2005035	3306710	0.549	1.056 #	
32)	Chlordane...	7.714	8.097	2092983	5144449	5.081	10.561 #	
33)	Chlordane...	7.830	8.202	9873237	11350802	23.555	27.417	
34)	Chlordane...	8.378	8.897f	748564	1871106	5.805	13.834 #	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.830f	8.437	9873237	4161009	663.668	109.484 #	
37)	Toxaphene...	8.112	8.794	3002475	2244302	91.154	47.605 #	
38)	Toxaphene...	8.414	8.818	676276	2048619	9.755	29.128 #	
39)	Toxaphene...	8.637	8.897	763494	1871106	10.259	15.706 #	
40)	Toxaphene...	8.871f	9.057	2814593	3239501	47.413	47.024	
41)	Toxaphene...	8.970	9.430	1817011	4592228	26.989	61.326 #	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

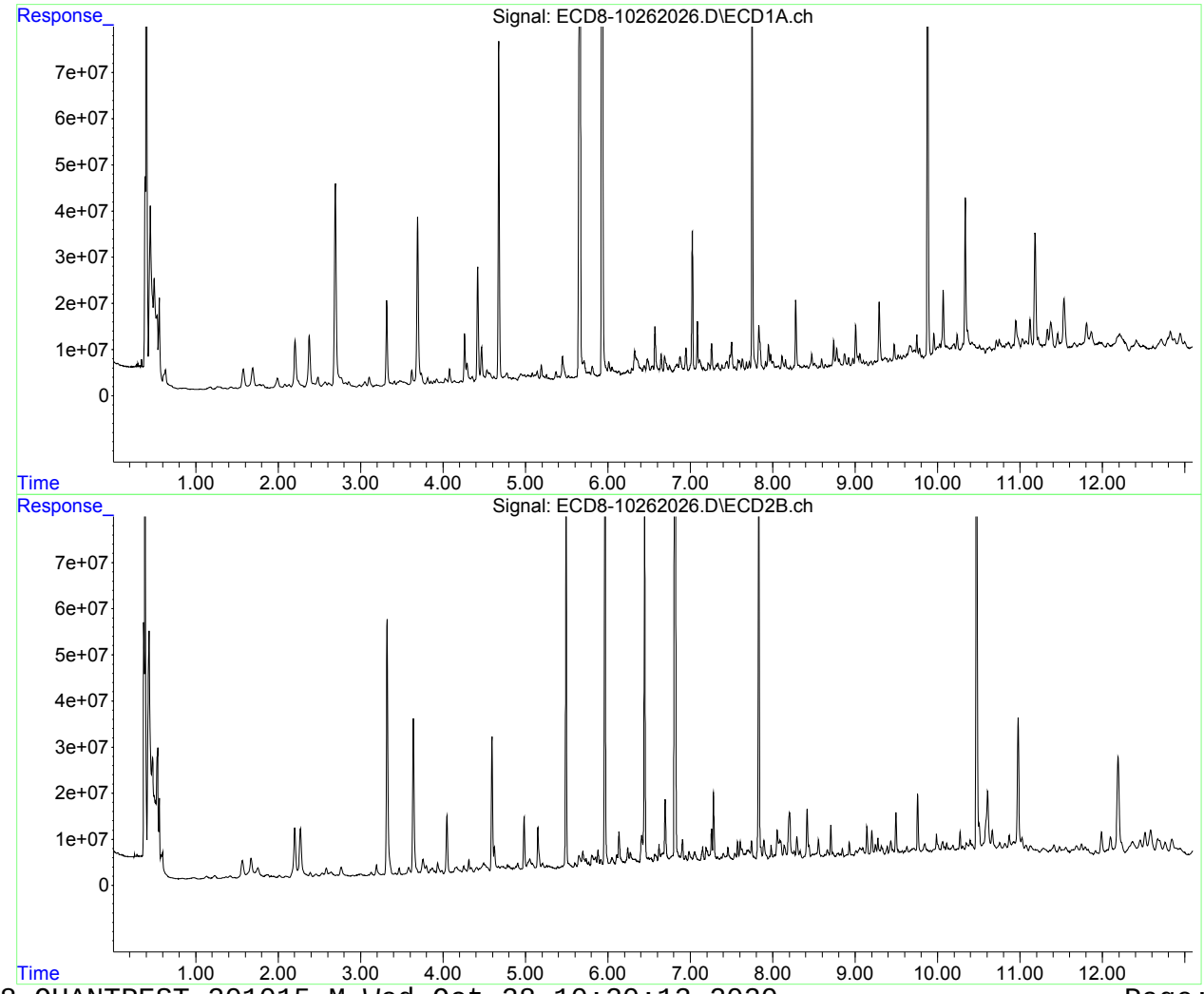
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 18:52
Operator : MJB
Sample : A0J037103RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:14:22 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

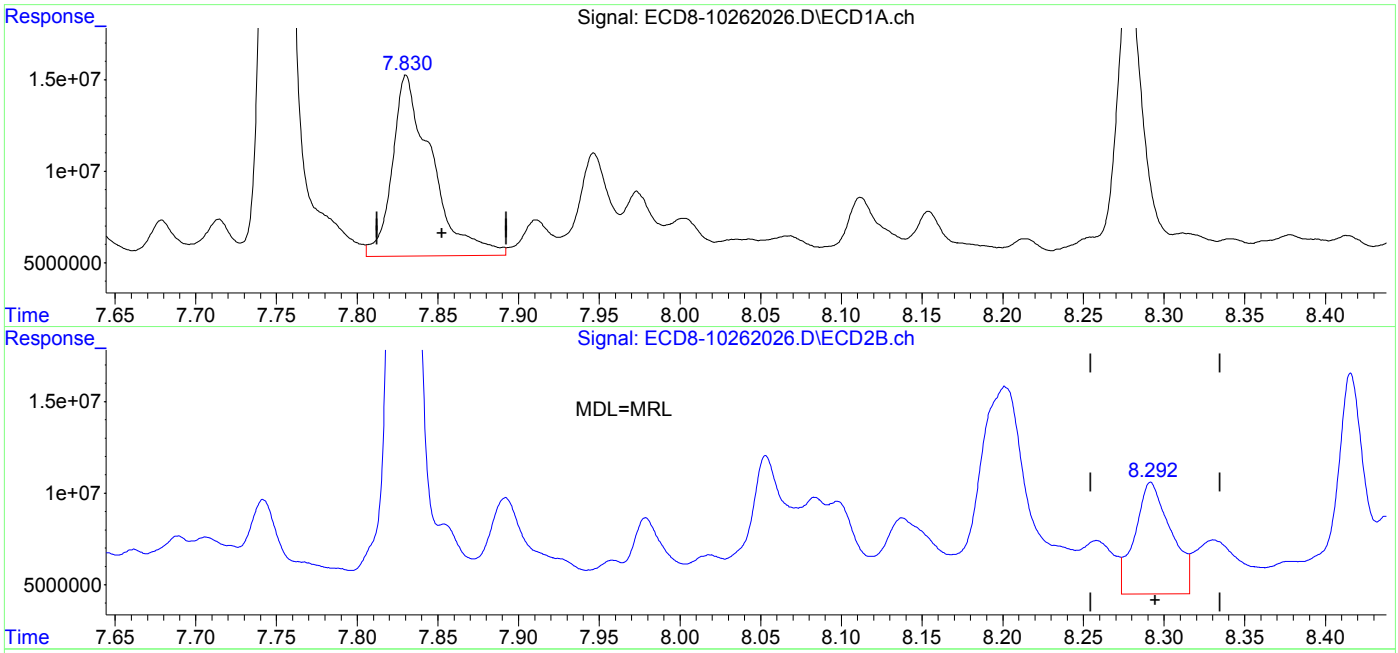


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 18:52
Operator : MJB
Sample   : A0J037103RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:14:22 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(12) 4,4'-DDE
7.830min 3.133 ng/mL
response 9873237

(12) 4,4'-DDE #2
8.292min 1.844 ng/mL
response 6100273

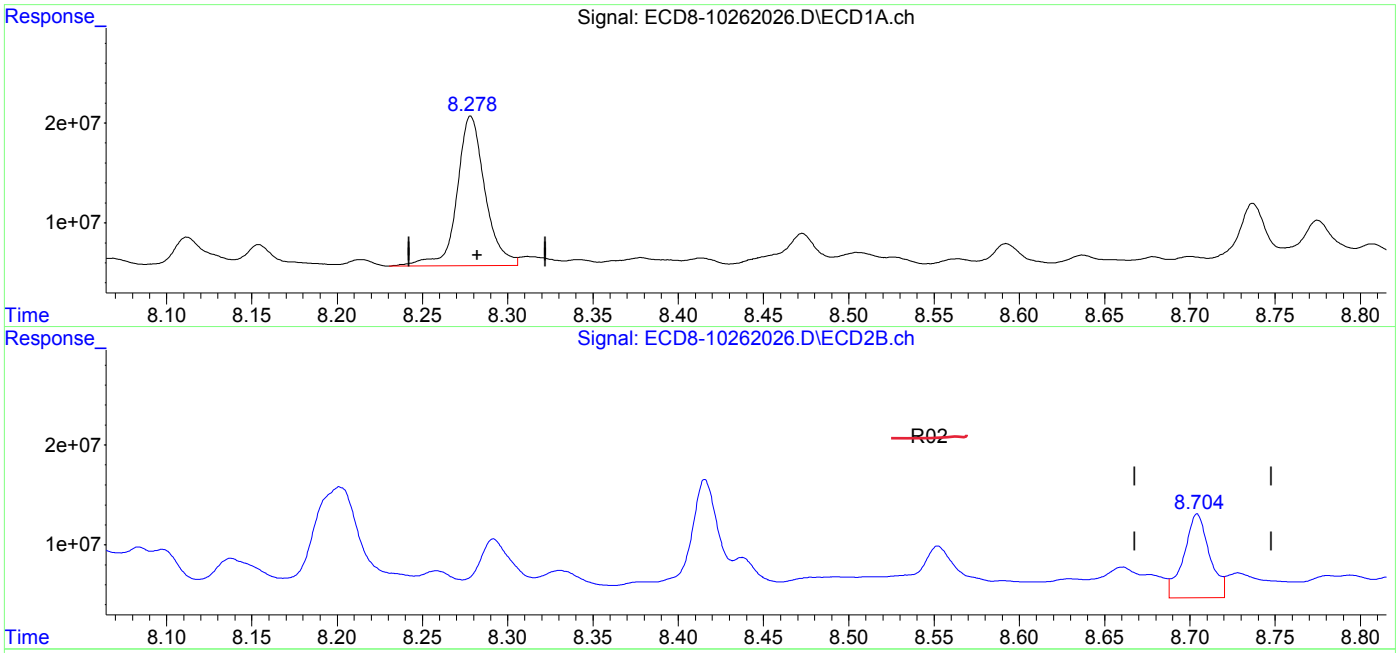
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 18:52
Operator : MJB
Sample   : A0J037103RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:14:22 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(15) 4,4'-DDD
8.278min 5.502 ng/mL
response 14963984

(15) 4,4'-DDD #2
8.704min 2.930 ng/mL
response 8415509

Reort with P-11

MKZ 10/29/2020

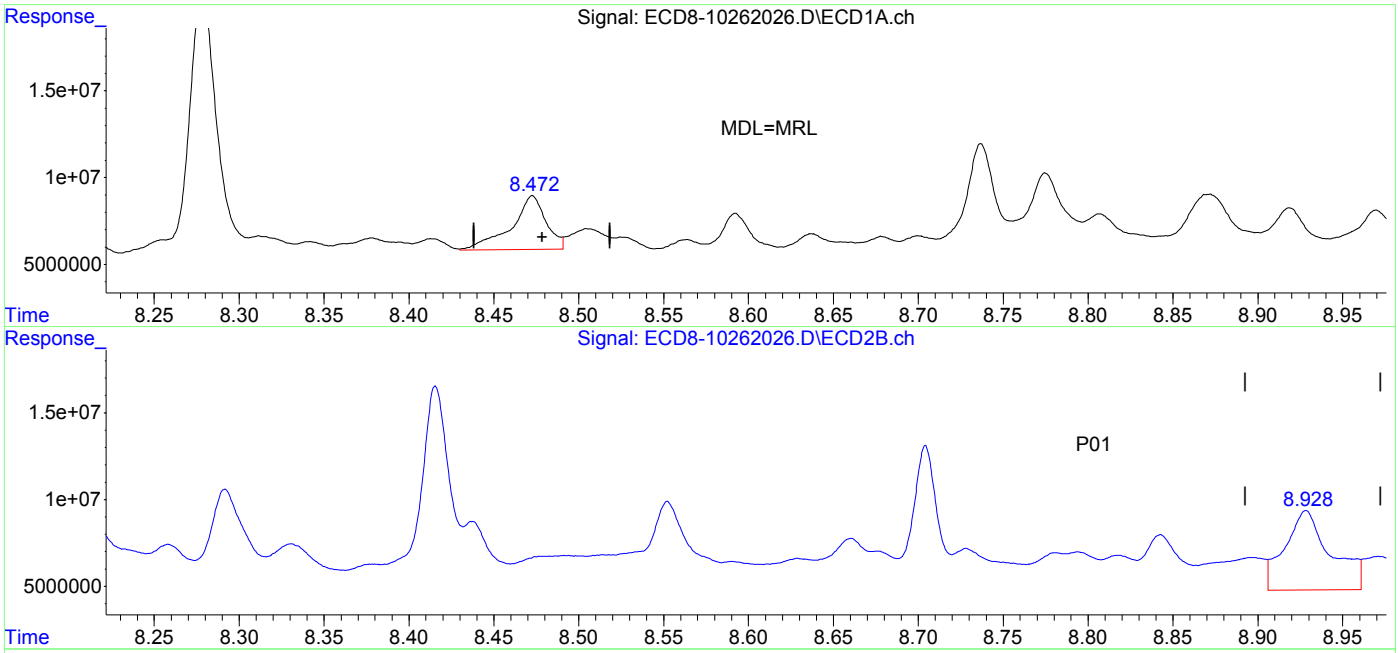
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 18:52
Operator : MJB
Sample   : A0J037103RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:14:22 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(17) 4,4'-DDT
8.473min 1.274 ng/mL
response 3104177

(17) 4,4'-DDT #2
8.928min 1.754 ng/mL
response 4574290

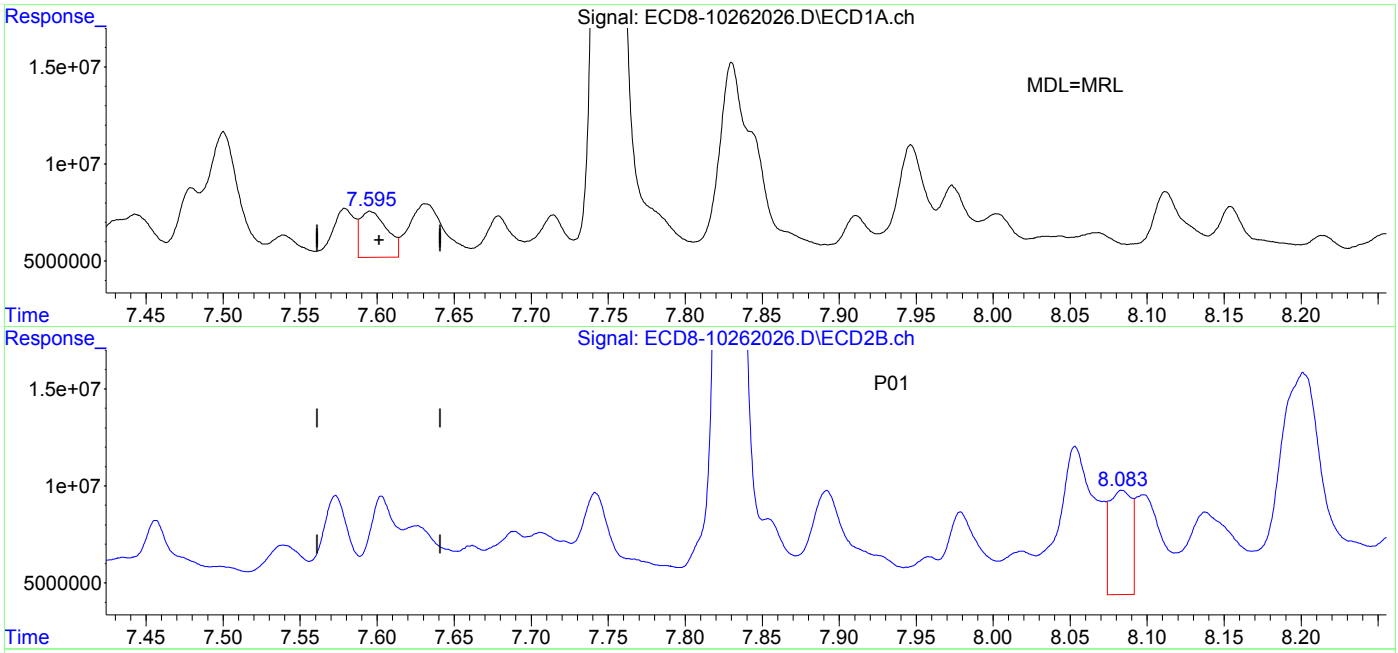
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 18:52
Operator : MJB
Sample   : A0J037103RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:14:22 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE
7.596min 1.116 ng/mL
response 2373385

(26) 2,4'-DDE #2
8.084min 2.210 ng/mL
response 5362184

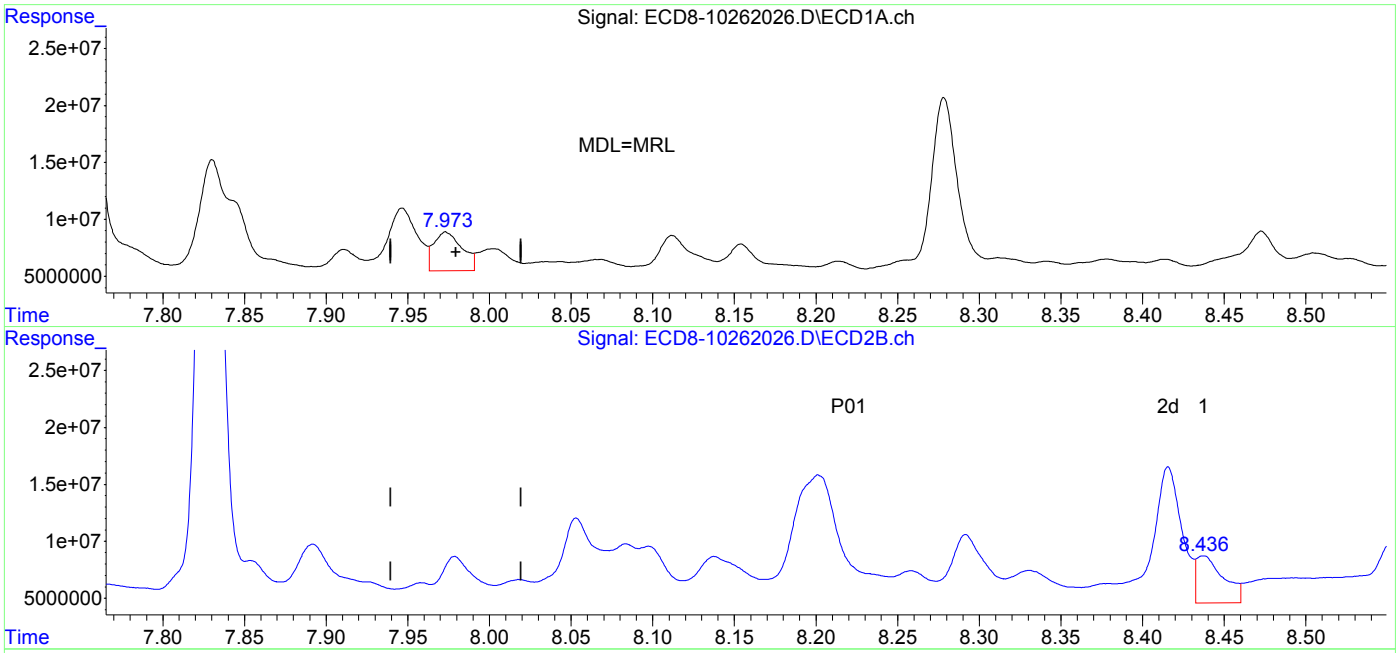
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 18:52
Operator : MJB
Sample   : A0J037103RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:14:22 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD
7.973min 1.776 ng/mL
response 3411603

(28) 2,4'-DDD #2
8.437min 1.906 ng/mL
response 4161009

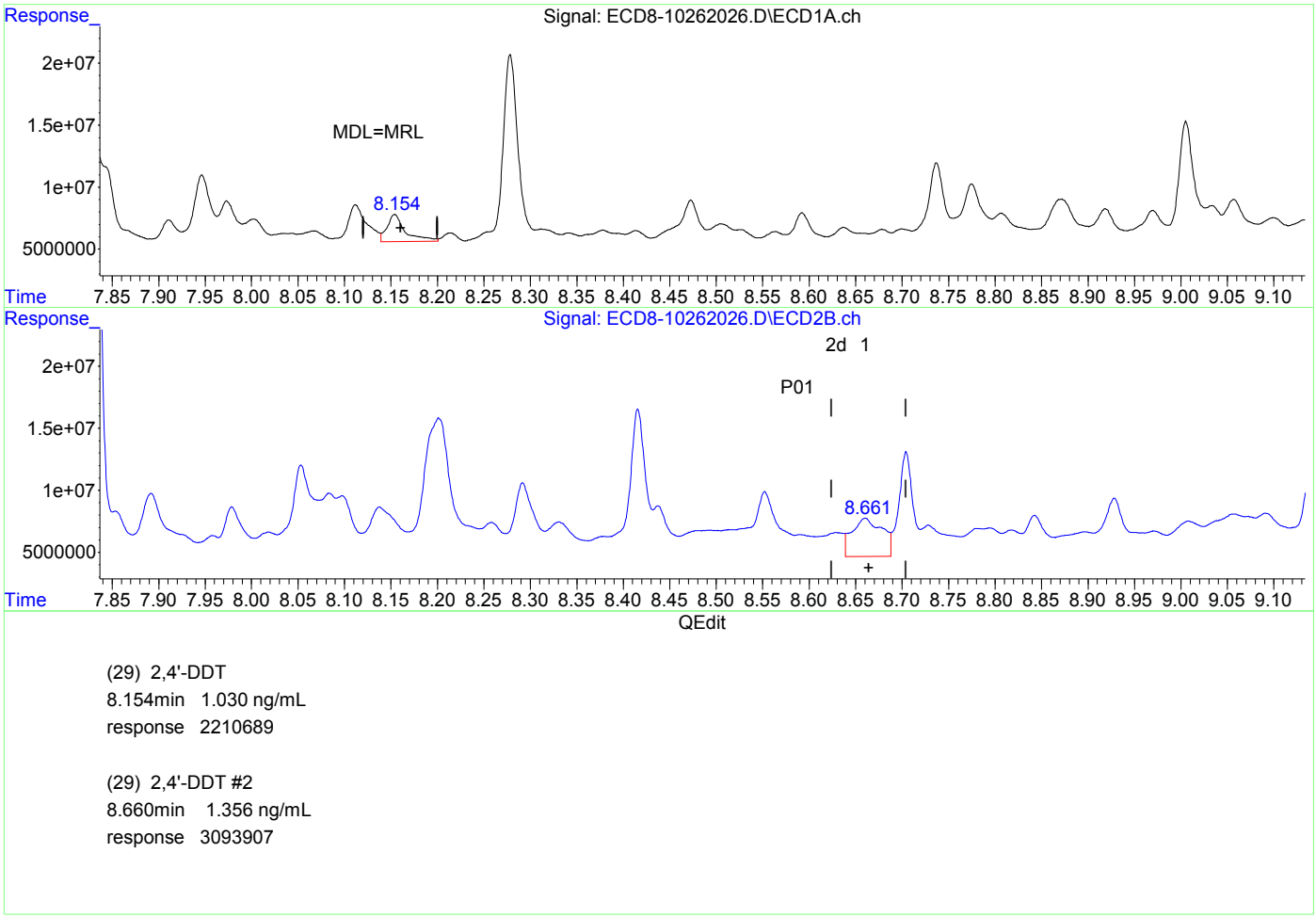
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 18:52
Operator : MJB
Sample   : A0J037103RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 19   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:14:22 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(29) 2,4'-DDT
8.154min 1.030 ng/mL
response 2210689

(29) 2,4'-DDT #2
8.660min 1.356 ng/mL
response 3093907

(+) = Expected Retention Time

Quantitation Report (QT Reviewed) HML 10/28/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:08
Operator : MJB
Sample : A0J0344-04RE1@2 [71]
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:22:34 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.656	5.965	132.3E6	64827815	37.403	16.204	#
22)	S DCBP (S)	9.879	10.474	63703804	60531217	25.368	25.020	
	Target Compounds							
2)	a-BHC	6.214	6.566	1197405	1003650	0.254	0.188	#
3)	g-BHC	6.497	6.904f	1471368	2122132	0.366	0.456	
4)	b-BHC	6.576	6.942	4397407	1906976	2.817	0.975	#
5)	Heptachlor	6.886	7.258	4001530	3086621	0.986	0.674	#
6)	d-BHC	6.764f	7.206	735560	4355157	0.298	1.145	#
7)	Aldrin	7.158	7.501	2092739	1288543	0.533	0.302	#
8)	Heptachlo...	7.598	7.960	15684429	1966167	4.290	0.490	#
9)	trans-Chl...	7.708	8.101	2686773	3098468	0.730	0.778	
10)	cis-Chlor...	7.779f	8.205	2032008	5764724	0.561	1.486	#
11)	Endosulfa...	7.911	8.238	48554004	2128545	14.275	0.592	#
12)	4,4'-DDE	7.845	8.301	18145834	62232639	5.759 R02	17.760	# P01
13)	Dieldrin	8.091	8.439	374786	34156917	0.100	8.838	#
14)	Endrin	8.276f	8.675	123.4E6	2453864	44.993	0.974	#
15)	4,4'-DDD	8.276	8.704	123.4E6	134.8E6	45.368	43.305	
16)	Endosulfa...	8.412	8.816	1498071	1494531	0.509	0.459	
17)	4,4'-DDT	8.472	8.928	6622160	7969298	2.675	2.998	P01
18)	Endrin Al...	8.704	9.040	1677368	2377475	0.291	0.543	#
19)	Endosulfa...	9.005	9.244	13409567	4756766	4.487	1.432	#
20)	Methoxychlor	8.806	9.387	1634193	2658948	1.187	1.840	#
21)	Endrin Ke...	9.193	9.624	753879	4089118	0.204	1.047	#
23)	Hexachlor...	3.455	3.686	386765	869992	BelowCal	0.050	
24)	Hexachlor...	6.048	6.445	2232037	124.0E6	0.667	31.155	#
25)	Oxychlordane	7.541	7.896	1201453	2986256	0.372	0.848	#

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:08
Operator : MJB
Sample : A0J0344-04RE1@2 [71]
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:22:34 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.598	8.066	15684429	15982623	7.374	6.580	
27)	trans-Non...	7.779	8.140	2032008	2624303	0.562	0.666	
28)	2,4'-DDD	7.973	8.439	30686018	34156917	15.971	16.616	P01
29)	2,4'-DDT	8.155	8.675	1853061	2453864	0.864	1.045	P01
30)	cis-Nonac...	8.276	8.704	123.4E6	134.8E6	31.288	31.518	
31)	Mirex	8.919f	9.624	2308635	4089118	0.679	1.387	#
32)	Chlordane...	7.708	8.101	2686773	3098468	6.522	6.361	
33)	Chlordane...	7.845f	8.205	18145834	5764724	43.291	13.924	#
34)	Chlordane...	8.376	8.881	618643	1769380	4.797	13.082	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.779f	8.439	2032008	34156917	136.589	898.735	#
37)	Toxaphene...	8.091	8.793	374786	2468241	11.378	52.355	#
38)	Toxaphene...	8.412	8.816	1498071	1494531	21.610	21.249	
39)	Toxaphene...	8.636f	8.881	508379	1769380	6.831	14.852	#
40)	Toxaphene...	8.873	9.077	3590001	2692793	60.475	39.088	#
41)	Toxaphene...	8.967	9.430	1051066	4919744	15.612	65.700	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

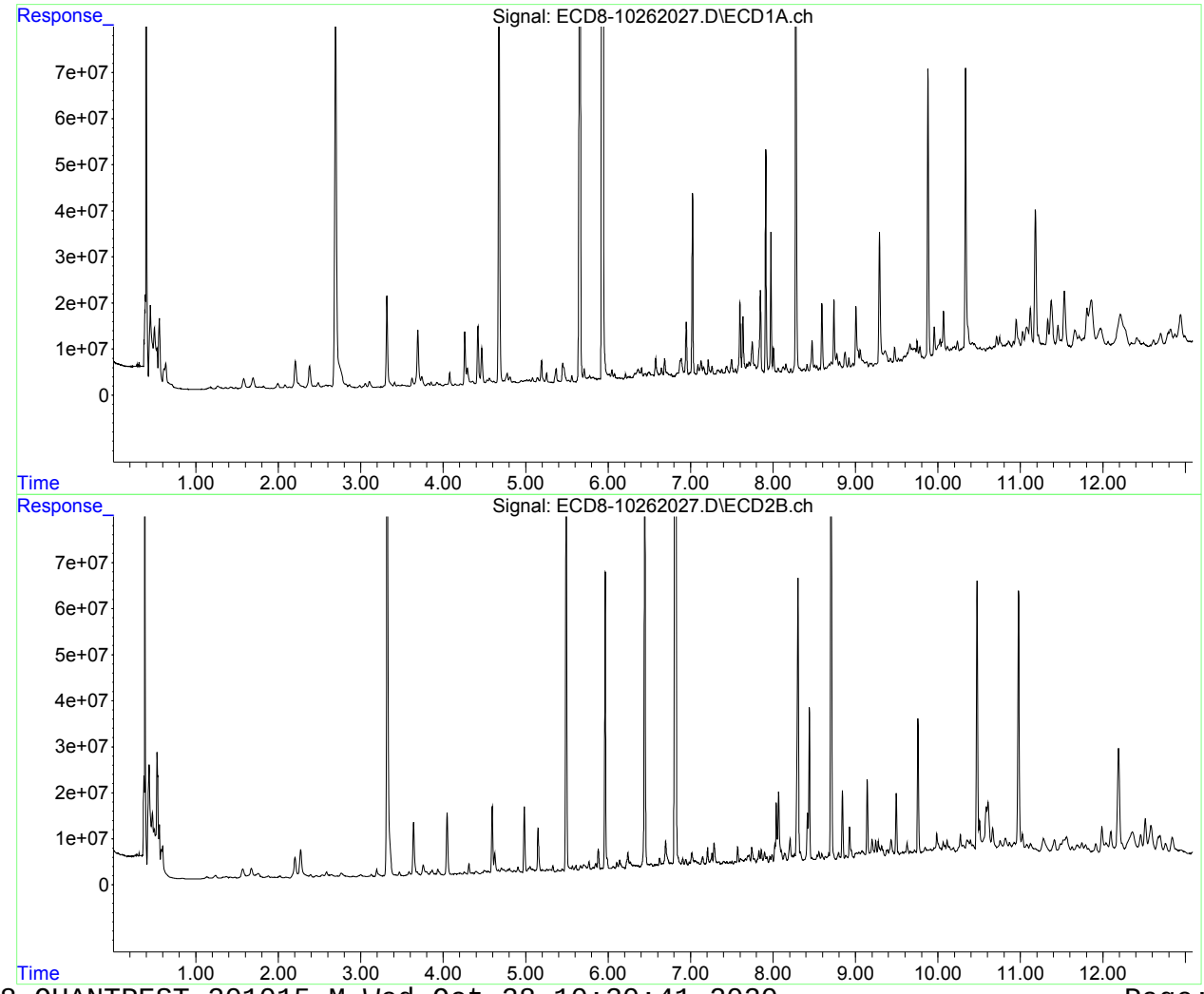
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:08
Operator : MJB
Sample : A0J0344-04RE1@2 71
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:22:34 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

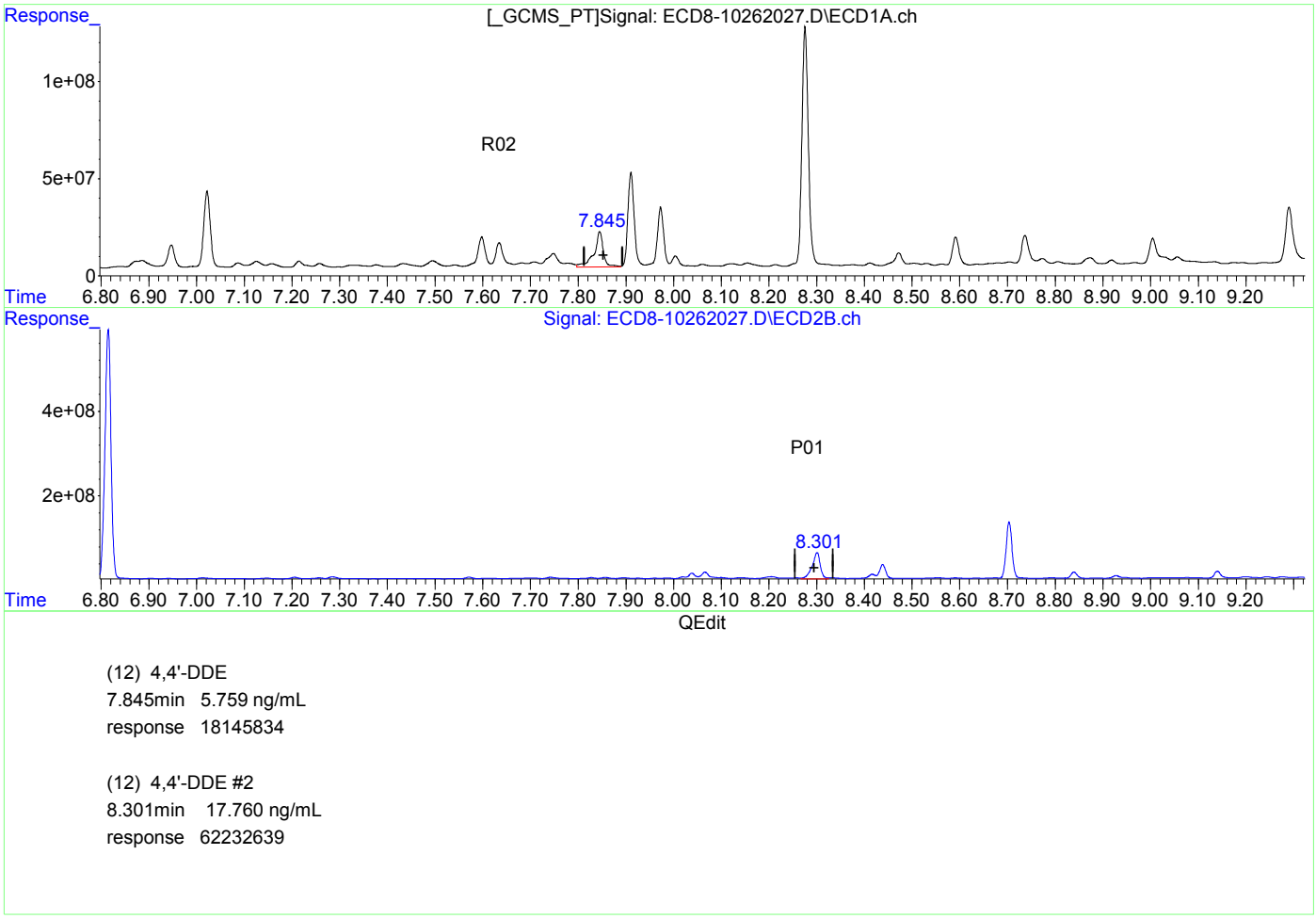


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:08
Operator : MJB
Sample : A0J0344-04RE1@2 7711
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:22:34 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(12) 4,4'-DDE
7.845min 5.759 ng/mL
response 18145834

(12) 4,4'-DDE #2
8.301min 17.760 ng/mL
response 62232639

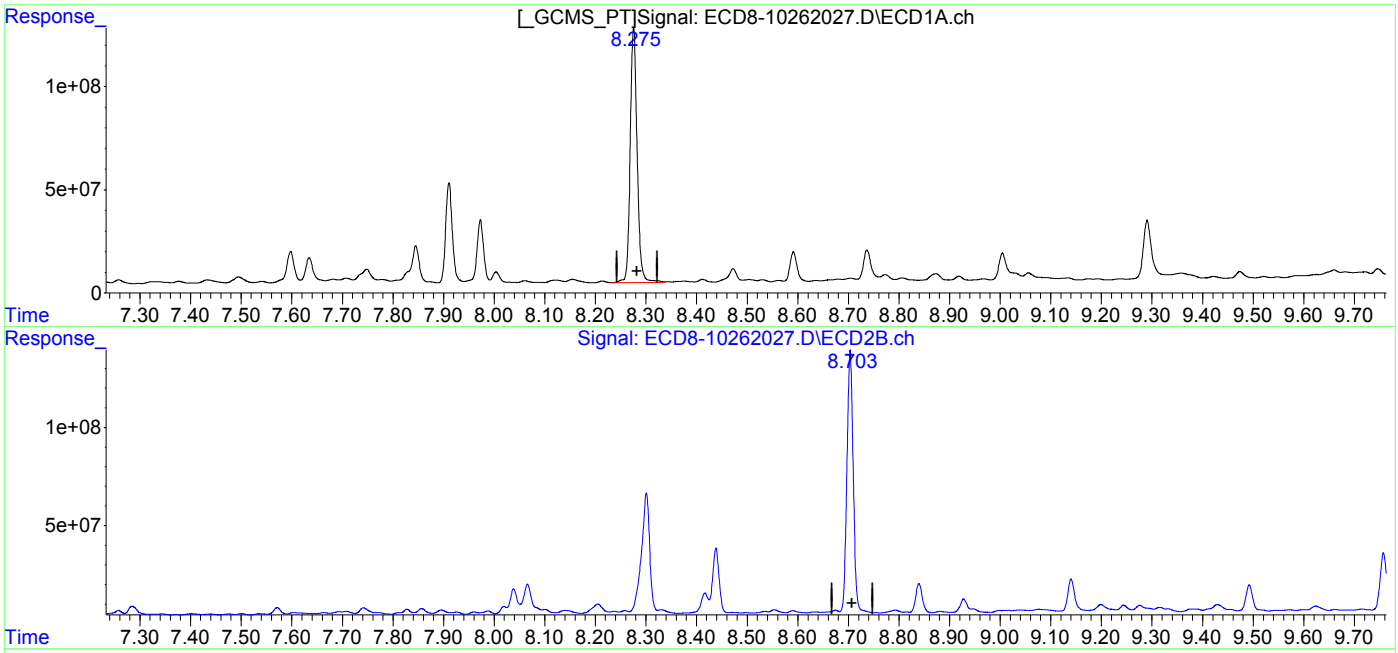
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:08
Operator : MJB
Sample   : A0J0344-04RE1@2 [71]
Misc   : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 20   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:22:34 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(15) 4,4'-DDD
8.276min 45.368 ng/mL
response 123385587

(15) 4,4'-DDD #2
8.704min 43.305 ng/mL
response 134831114

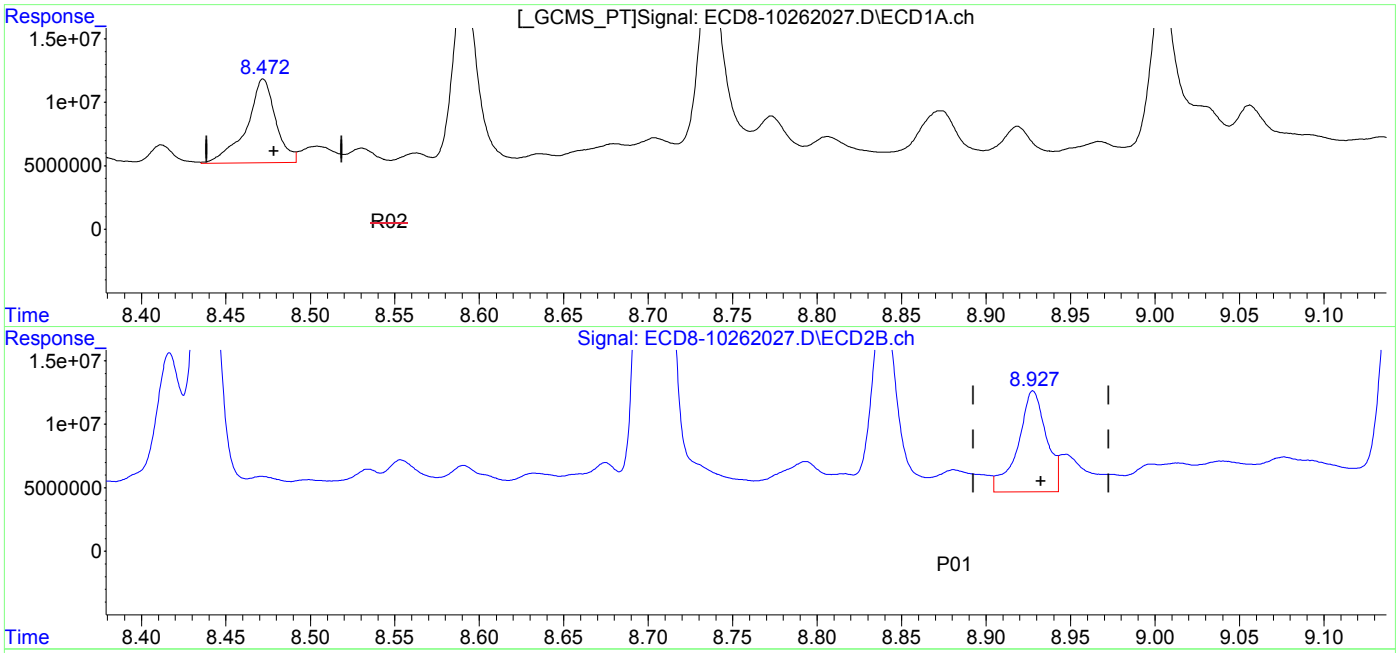
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:08
Operator : MJB
Sample   : A0J0344-04RE1@2 7711
Misc   : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 20   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:22:34 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(17) 4,4'-DDT
8.472min 2.675 ng/mL
response 6622160

(17) 4,4'-DDT #2
8.928min 2.998 ng/mL
response 7969298

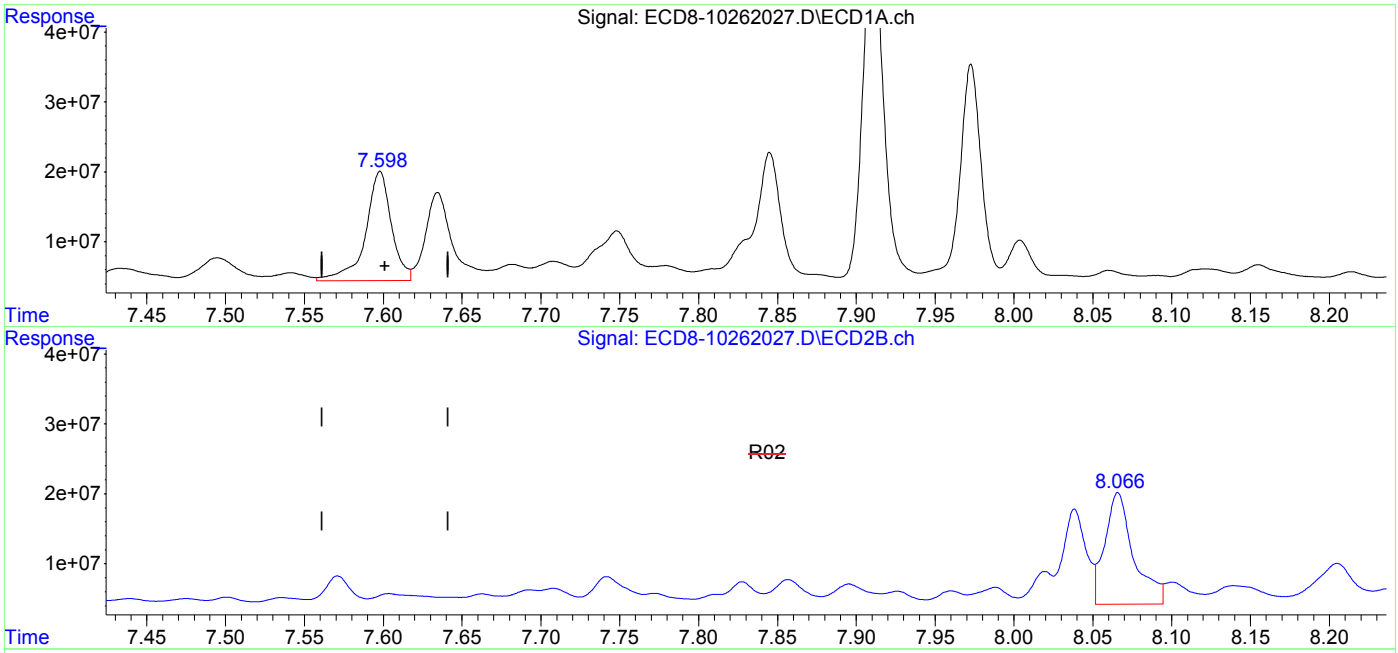
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:08
Operator : MJB
Sample   : A0J0344-04RE1@2 71
Misc   : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 20   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:22:34 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE
7.598min 7.374 ng/mL
response 15684429

(26) 2,4'-DDE #2
8.066min 6.586 ng/mL
response 15982623

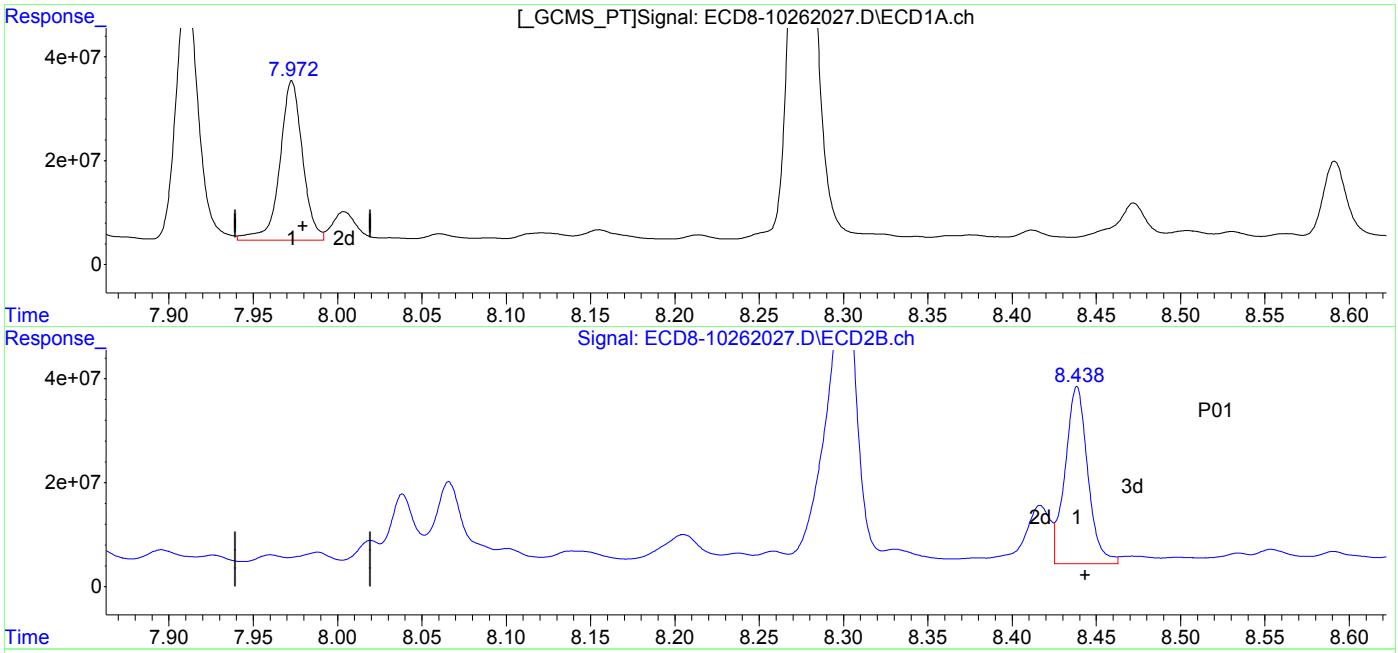
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:08
Operator : MJB
Sample   : A0J0344-04RE1@2 71
Misc   : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 20   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:22:34 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD
7.973min 15.971 ng/mL
response 30686018

(28) 2,4'-DDD #2
8.439min 16.616 ng/mL
response 34156917

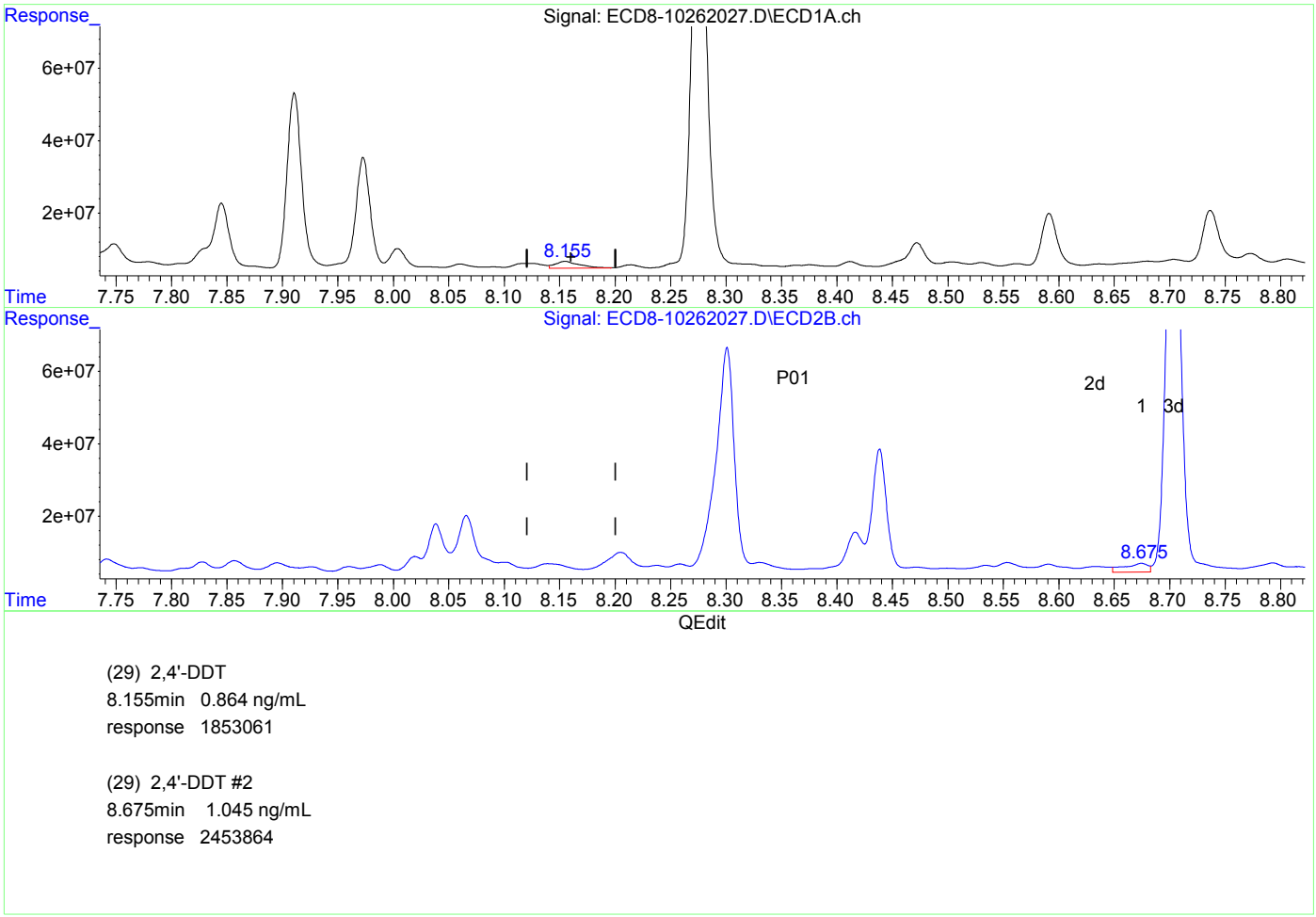
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:08
Operator : MJB
Sample : A0J0344-04RE1@2 71
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:22:34 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(29) 2,4'-DDT
8.155min 0.864 ng/mL
response 1853061

(29) 2,4'-DDT #2
8.675min 1.045 ng/mL
response 2453864

(+) = Expected Retention Time

Quantitation Report (QT Reviewed) HML 10/28/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:25
Operator : MJB
Sample : A0J0371-05RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:50:28 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.660	5.964	109.4E6	105.7E6	30.931	26.415	
22)	S DCBP (S)	9.879	10.474	108.2E6	102.2E6	43.166	42.232	
	Target Compounds							
2)	a-BHC	6.216	6.569	2097227	1329573	0.445	0.249	#
3)	g-BHC	6.485	6.875	2124525	1095223	0.528	0.236	#
4)	b-BHC	6.577	6.944	5581972	1008163	3.576	0.515	#
5)	Heptachlor	6.879	7.258	2297927	4053570	0.566	0.886	#
6)	d-BHC	6.712f	7.207	1257285	2306097	0.468	0.639	#
7)	Aldrin	7.118f	7.546f	1306454	1180673	0.333	0.277	
8)	Heptachlo...	7.605	7.979f	6056715	2781170	1.657	0.693	#
9)	trans-Chl...	7.713	8.083	3370463	3433128	0.915	0.863	
10)	cis-Chlor...	7.781	8.204	3248916	7323407	0.897	1.888	#
11)	Endosulfa...	7.910	8.256	1065499	1350796	0.313	0.376	
12)	4,4'-DDE	7.838	8.291	5643885	3959886	1.791m	1.215	#
13)	Dieldrin	8.058	8.417f	696962	6344346	0.186	1.672	#
14)	Endrin	8.279f	8.675	7689452	1694252	2.804	0.681	#
15)	4,4'-DDD	8.279	8.703	7689452	4531456	2.827	1.583	#MDL=
16)	Endosulfa...	8.414	8.813	537538	1616035	0.182	0.496	#
17)	4,4'-DDT	8.473	8.928	1408545	2073739	0.597	0.832	#
18)	Endrin Al...	8.699	9.037	1889440	1623659	0.365	0.285	
19)	Endosulfa...	9.006	9.244	1841008	2255832	0.616	0.679	
20)	Methoxychlor	8.807	9.386	2324418	2459058	1.689	1.699	
21)	Endrin Ke...	9.191f	9.624	502360	2125561	0.136	0.544	#
23)	Hexachlor...	3.451	3.710f	667874	515411	BelowCal	BelowCal	
24)	Hexachlor...	6.047	6.445	1769100	43879993	0.529	11.025	#
25)	Oxychlordane	7.542	7.893	846170	2808393	0.262	0.798	#

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:25
Operator : MJB
Sample : A0J0371-05RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:50:28 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.605	8.083	6056715	3433128	2.848	1.415	#MDL=P01
27)	trans-Non...	7.781	8.139	3248916	2560053	0.899	0.649	#
28)	2,4'-DDD	7.971	8.417f	1738160	6344346	0.905	2.995	#
29)	2,4'-DDT	8.155	8.675	560242	1694252	0.261	0.676	#
30)	cis-Nonac...	8.279	8.703	7689452	4531456	1.950	1.059	#
31)	Mirex	8.919f	9.624	1563183	2125561	0.360	0.556	#
32)	Chlordane...	7.713	8.100	3370463	3405728	8.182	6.991	
33)	Chlordane...	7.831	8.204	7758964	7323407	18.511	17.689	
34)	Chlordane...	8.377	8.879	771322	1341231	5.981	9.917	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.781f	8.417f	3248916	6344346	218.388	166.932	
37)	Toxaphene...	8.114	8.784	1399206	1553928	42.479	32.961	
38)	Toxaphene...	8.414	8.813	537538	1616035	7.754	22.977	#
39)	Toxaphene...	8.636f	8.879	571331	1341231	7.677	11.258	#
40)	Toxaphene...	8.867f	9.090f	1613248	2176912	27.176	31.600	
41)	Toxaphene...	8.968	9.435	1413586	2790818	20.996	37.270	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

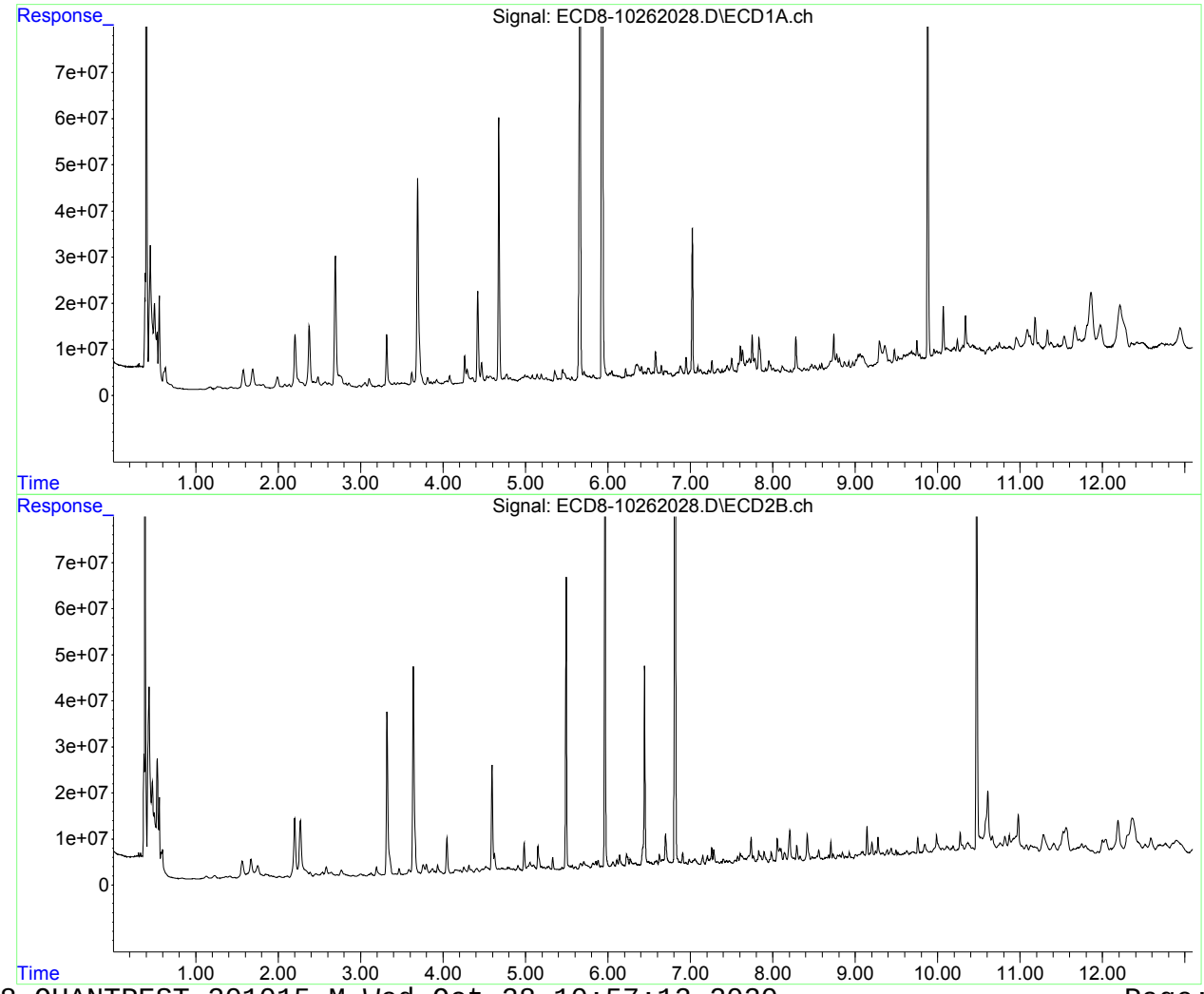
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:25
Operator : MJB
Sample : A0J0371-05RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:50:28 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

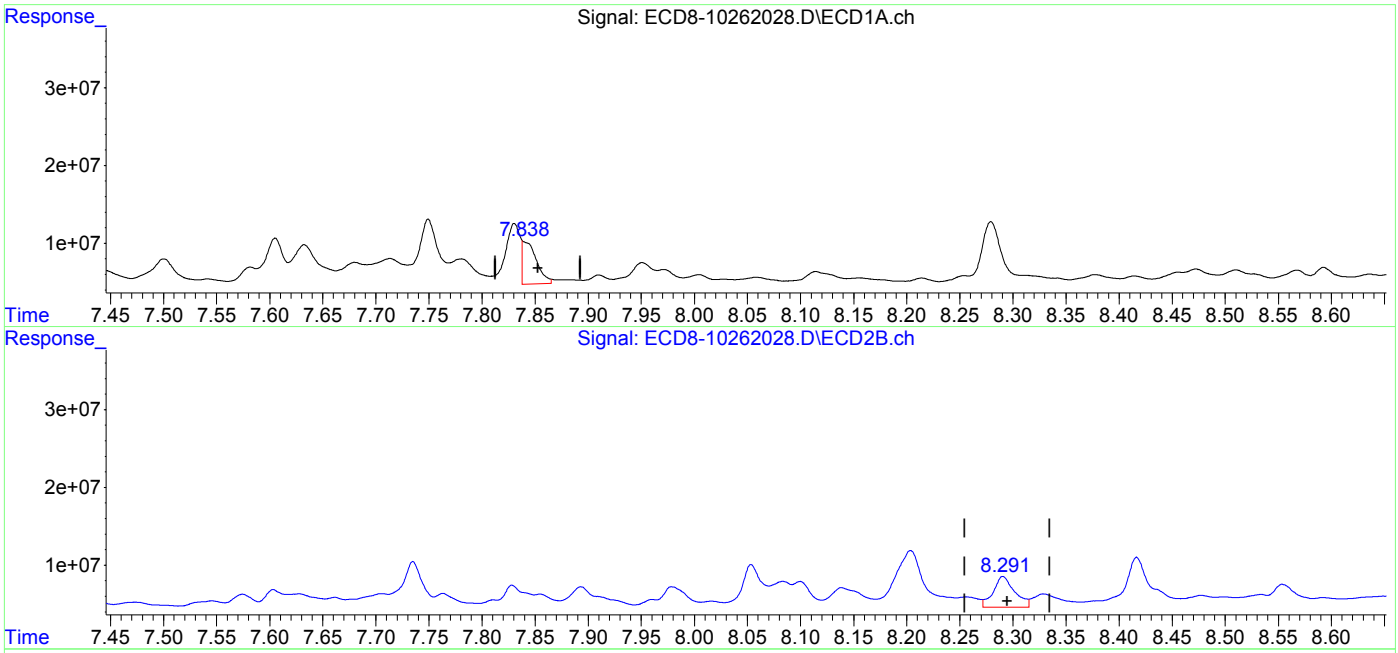


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:25
Operator : MJB
Sample   : A0J0371-05RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:49:31 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(12) 4,4'-DDE
7.838min 1.791 ng/mL m
response 5643885

MDL=MRL MKZ 10/29/2020

(12) 4,4'-DDE #2
8.291min 1.215 ng/mL
response 3959886

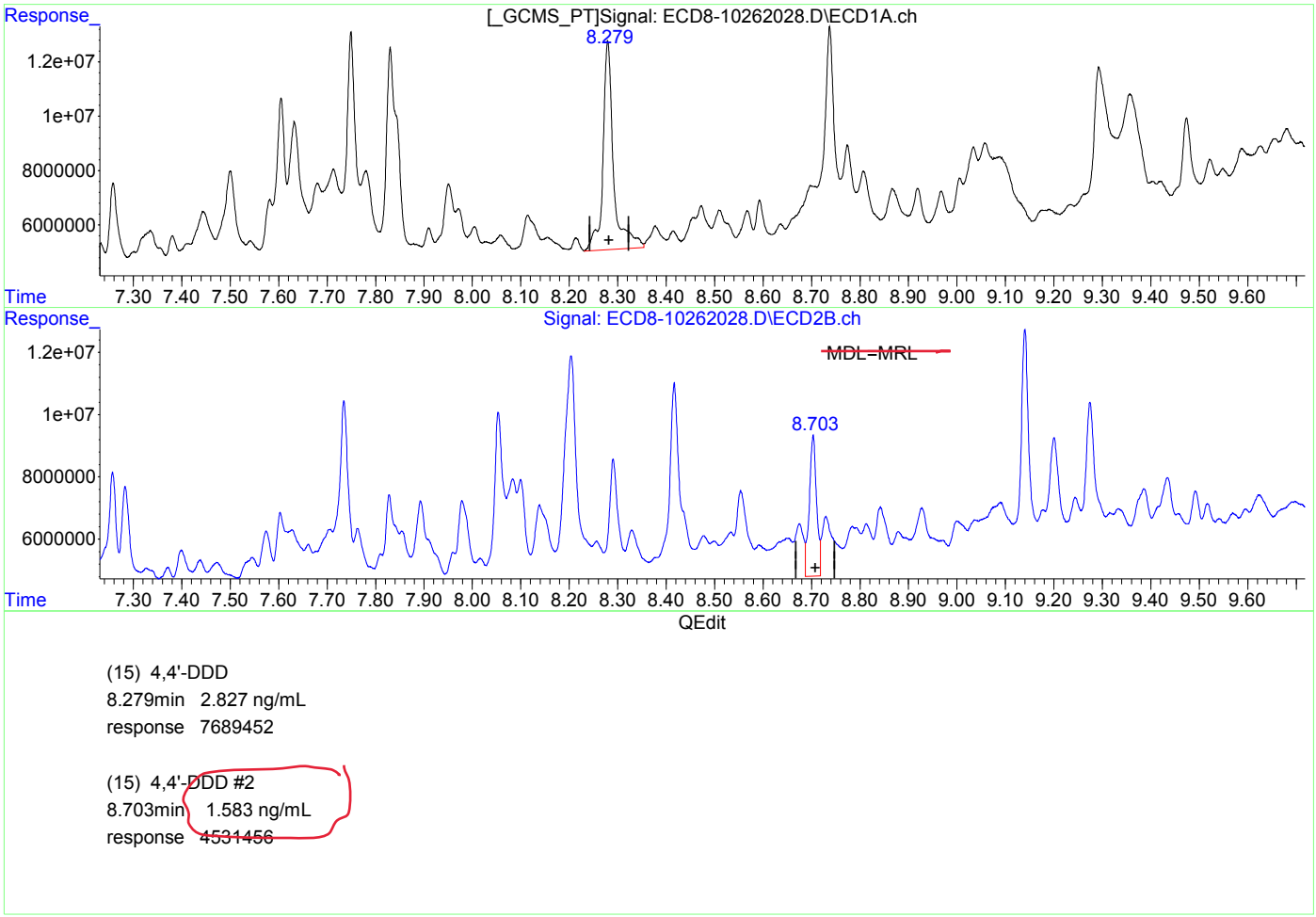
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:25
Operator : MJB
Sample   : A0J0371-05RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:49:31 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(15) 4,4'-DDD
8.279min 2.827 ng/mL
response 7689452

(15) 4,4'-DDD #2
8.703min 1.583 ng/mL
response 4531456

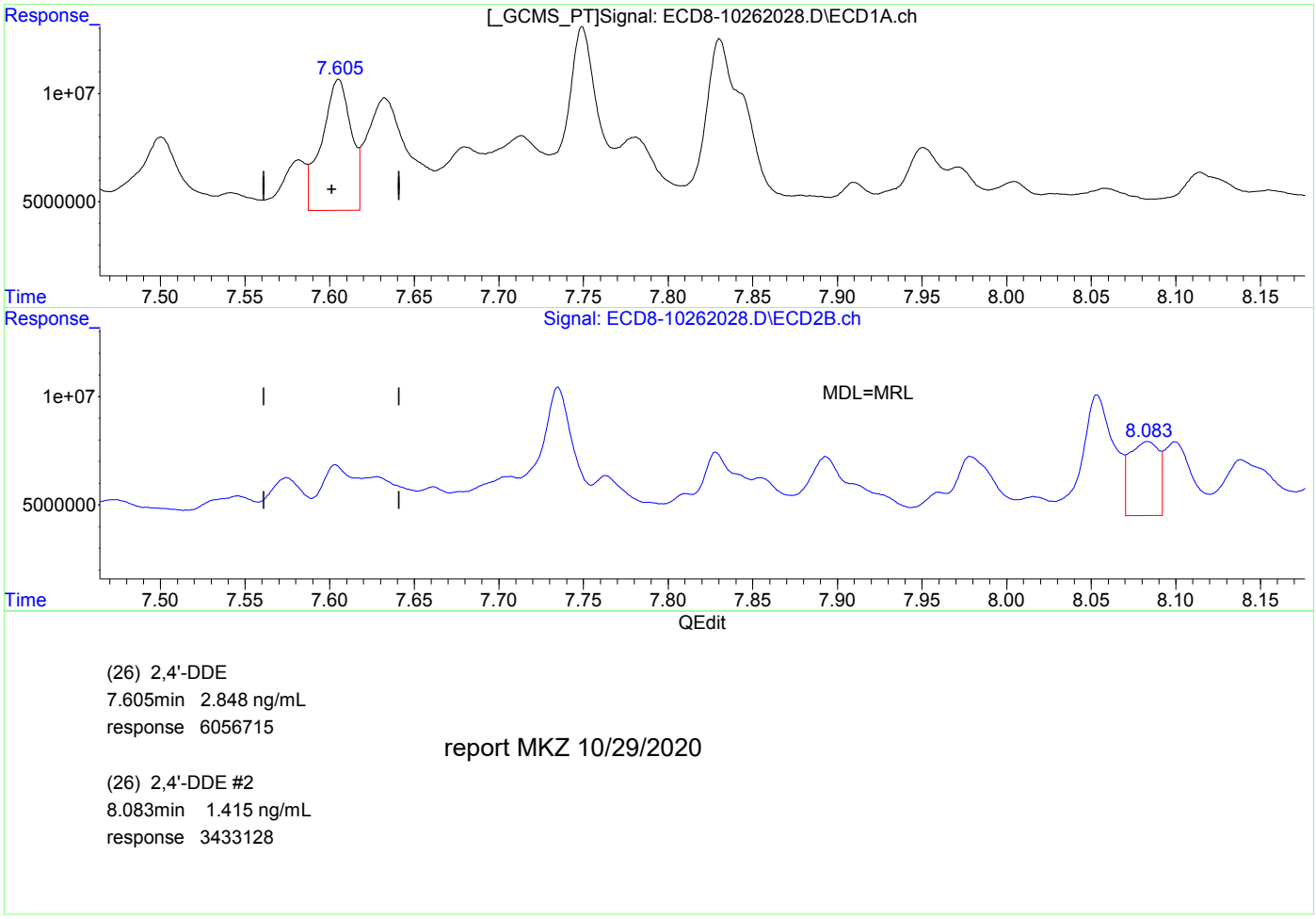
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:25
Operator : MJB
Sample   : A0J0371-05RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:49:31 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE
7.605min 2.848 ng/mL
response 6056715

report MKZ 10/29/2020

(26) 2,4'-DDE #2
8.083min 1.415 ng/mL
response 3433128

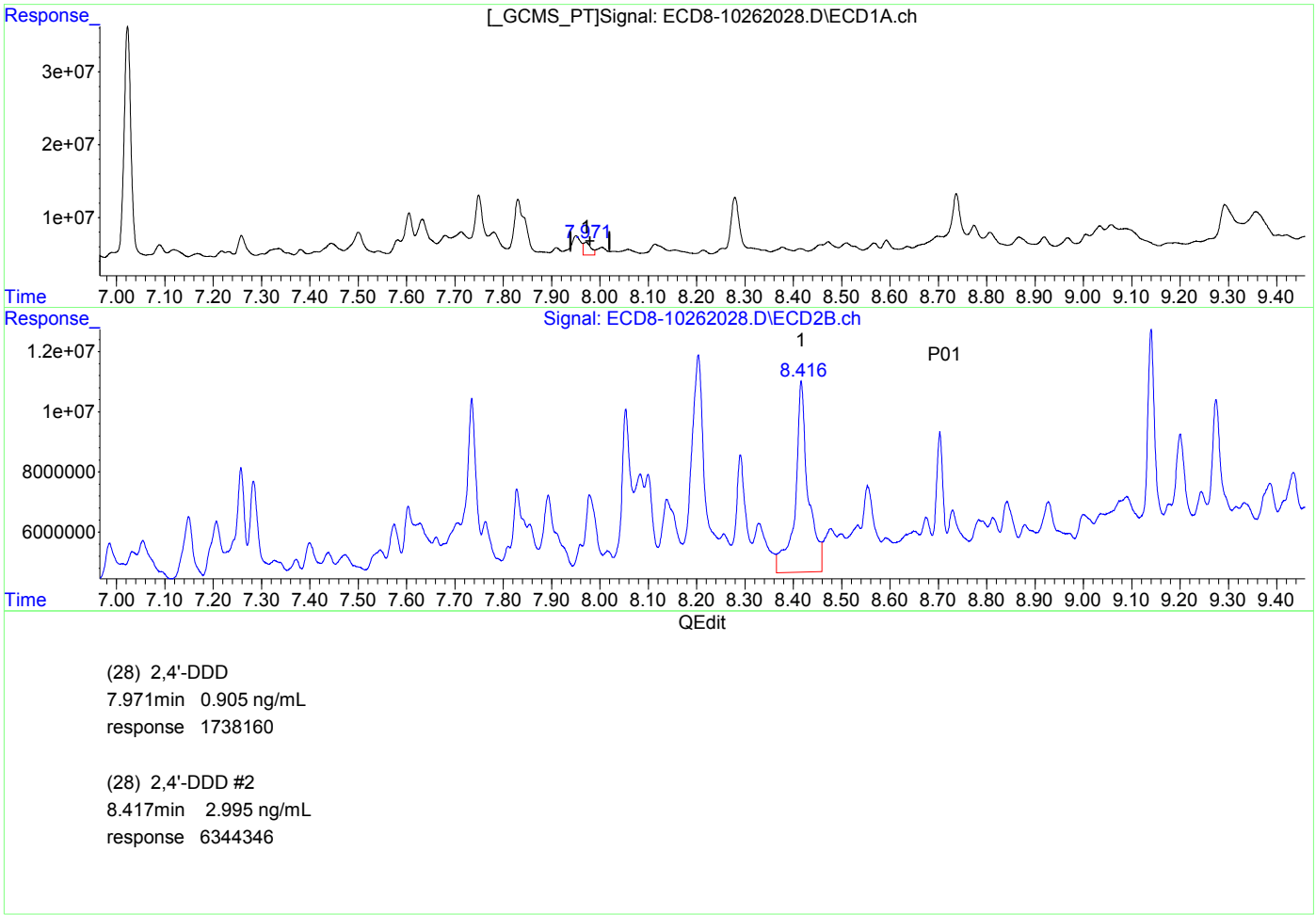
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:25
Operator : MJB
Sample   : A0J0371-05RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:49:31 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD
7.971min 0.905 ng/mL
response 1738160

(28) 2,4'-DDD #2
8.417min 2.995 ng/mL
response 6344346

(+) = Expected Retention Time

Quantitation Report (QT Reviewed) HML 10/28/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:41
Operator : MJB
Sample : A0J0371-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:58:57 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.660	5.964	107.9E6	102.5E6	30.517	25.626	
22)	S DCBP (S)	9.879	10.473	114.2E6	103.4E6	45.578	42.748	
	Target Compounds							
2)	a-BHC	6.215	6.590f	1751461	2028591	0.372	0.379	
3)	g-BHC	6.483	6.872	3961110	1400747	0.984	0.301	#
4)	b-BHC	6.576	6.946	7937571	1370670	5.085	0.701	#
5)	Heptachlor	6.882	7.257	3841916	5118543	0.947	1.118	
6)	d-BHC	6.751	7.206	2521900	2837241	0.879	0.770	
7)	Aldrin	7.158	7.545f	2439146	1261621	0.621	0.296	#
8)	Heptachlo...	7.604	7.961	5037471	1079628	1.378	0.269	#
9)	trans-Chl...	7.714	8.084	3575626	2936418	0.971	0.738	
10)	cis-Chlor...	7.781	8.205	3655605	7490394	1.009	1.931	#
11)	Endosulfa...	7.911	8.258	3312414	1539851	0.974	0.428	#
12)	4,4'-DDE	7.831f	8.291	8222898	3190192	2.610	0.989	#
13)	Dieldrin	8.061	8.417f	2658509	5764791	0.708	1.521	#
14)	Endrin	8.279f	8.659	9852457	1277493	3.593	0.520	#
15)	4,4'-DDD	8.279	8.704	9852457	4398253	3.623	1.537	#MDL=
16)	Endosulfa...	8.413	8.819	2706903	1149015	0.919	0.353	#
17)	4,4'-DDT	8.472	8.928	3646723	2053105	1.491	0.824	#
18)	Endrin Al...	8.699	9.060	3094194	2183675	0.790	0.477	#
19)	Endosulfa...	9.006	9.244	4712052	2477737	1.577	0.746	#
20)	Methoxychlor	8.806	9.387	3505651	1979610	2.547	1.358	#
21)	Endrin Ke...	9.194	9.626	3346691	1917004	0.905	0.491	#
23)	Hexachlor...	3.451	3.711f	949619	598862	0.085	BelowCal	#
24)	Hexachlor...	6.047	6.420	2543890	5947333	0.760	1.494	#
25)	Oxychlordane	7.540	7.895	2586158	2535816	0.801	0.720	

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:41
Operator : MJB
Sample : A0J0371-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:58:57 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL		
26)	2,4'-DDE	7.604	8.084	5037471	2936418	2.368	1.210	#	MDL
27)	trans-Non...	7.781	8.138	3655605	2448806	1.012	0.621	#	F
28)	2,4'-DDD	8.003f	8.417f	3374991	5764791	1.757	2.706	#	MDL=MRL P01
29)	2,4'-DDT	8.154	8.659	3333566	1277493	1.553	0.473	#	
30)	cis-Nonac...	8.279	8.704	9852457	4398253	2.498	1.028	#	
31)	Mirex	8.918f	9.626	3881976	1917004	1.353	0.468	#	
32)	Chlordane...	7.714	8.084f	3575626	2936418	8.680	6.028	#	
33)	Chlordane...	7.831	8.205	8222898	7490394	19.618	18.093		
34)	Chlordane...	8.378	8.898f	3796940	1022380	29.444	7.559	#	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.		
36)	Toxaphene...	7.781f	8.417f	3655605	5764791	245.726	151.683	#	
37)	Toxaphene...	8.114	8.794	3730741	1128281	113.263	23.932	#	
38)	Toxaphene...	8.413	8.819	2706903	1149015	39.047	16.337	#	
39)	Toxaphene...	8.636f	8.898	2682109	1022380	36.040	8.582	#	
40)	Toxaphene...	8.918f	9.060	3881976	2183675	65.394	31.698	#	
41)	Toxaphene...	8.968	9.437	3738515	2889551	55.529	38.588	#	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.		

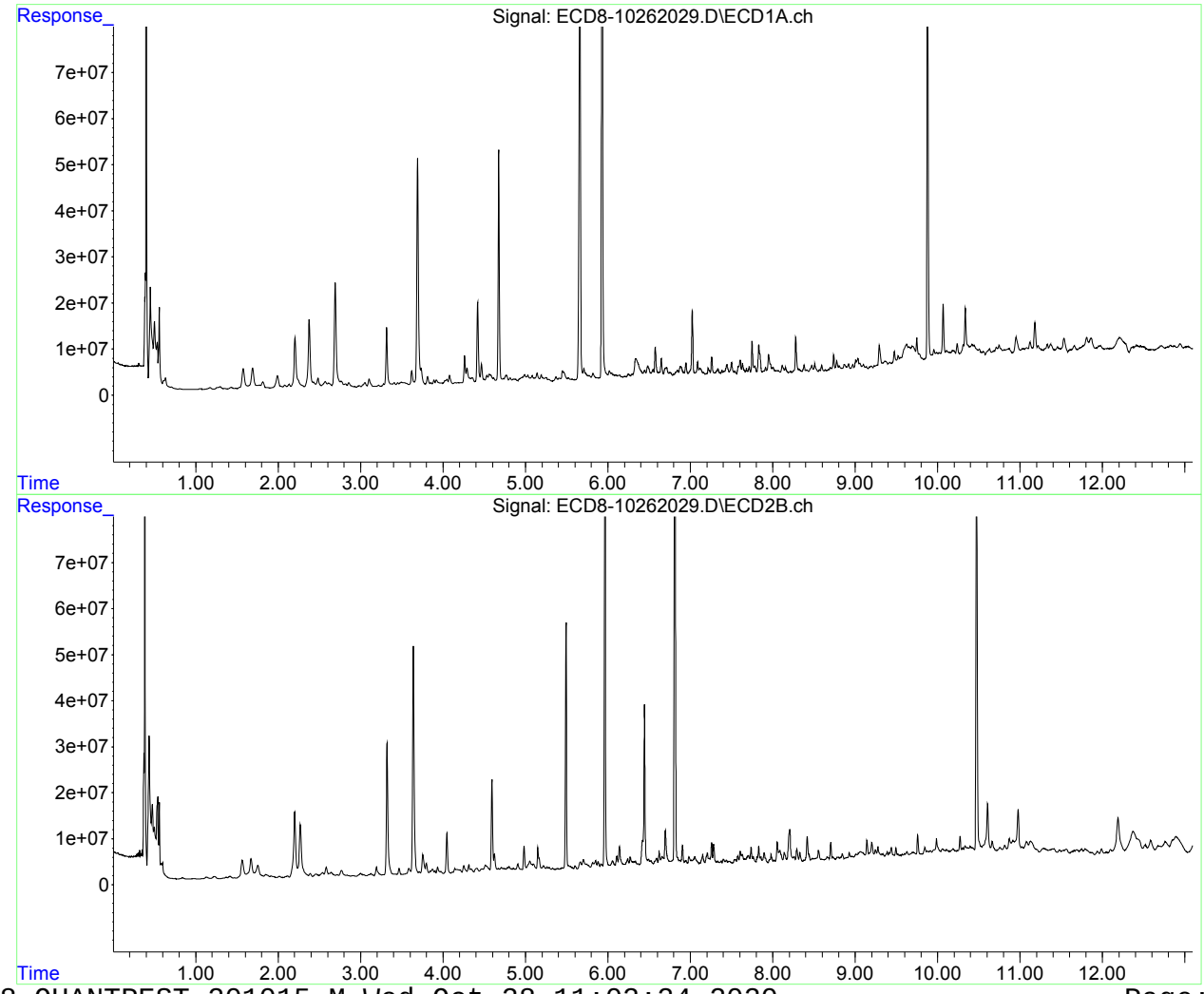
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:41
Operator : MJB
Sample : A0J0371-06RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:58:57 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

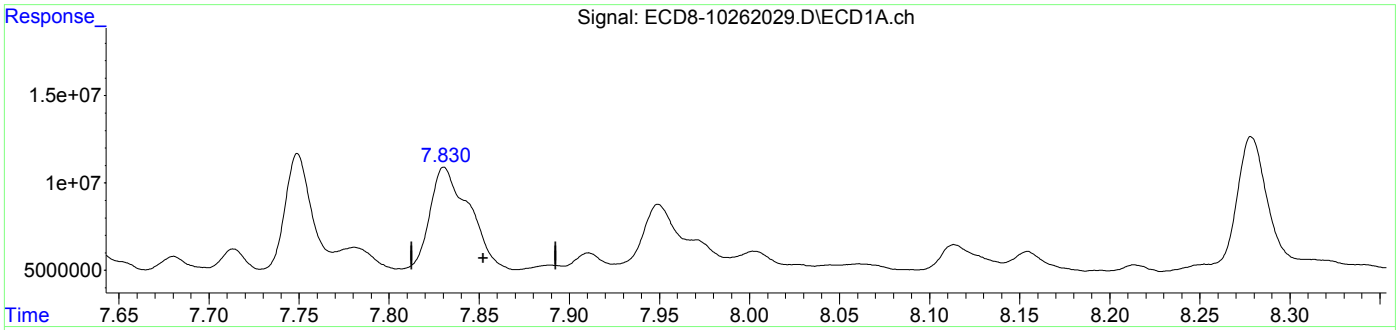


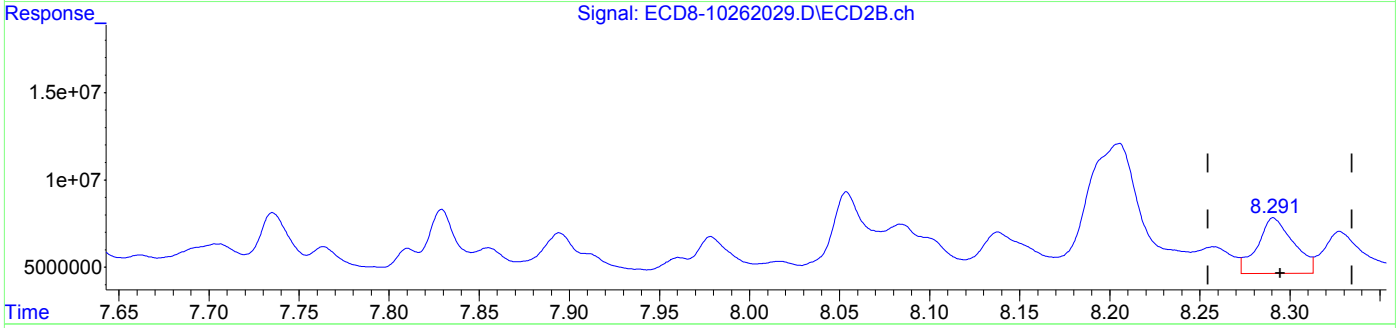
Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:41
Operator : MJB
Sample   : A0J0371-06RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 22   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:58:57 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um





QEdit

(12) 4,4'-DDE
7.831min 2.610 ng/mL
response 8222898

(12) 4,4'-DDE #2
8.291min 0.989 ng/mL
response 3190192

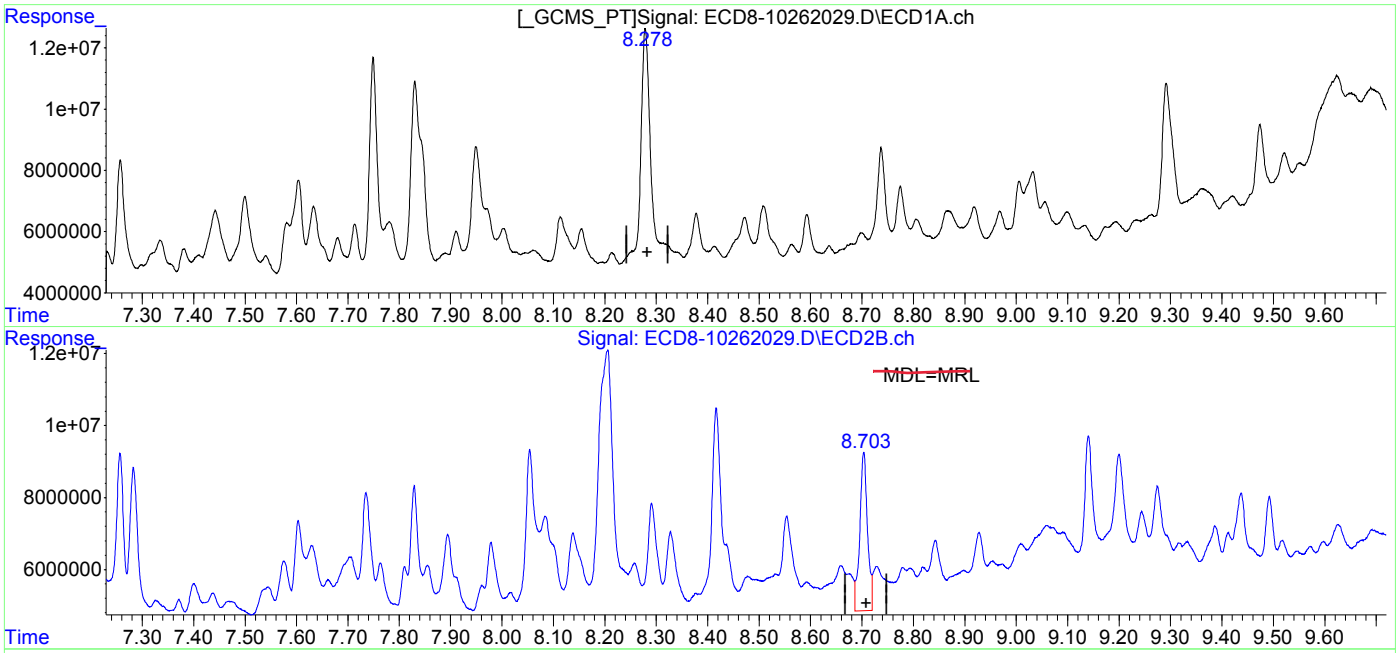
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:41
Operator : MJB
Sample   : A0J0371-06RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 22   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:58:57 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(15) 4,4'-DDD
8.279min 3.623 ng/mL
response 9852457

(15) 4,4'-DDD #2
8.704min 1.537 ng/mL
response 4398253

Report MKZ 10/29/2020

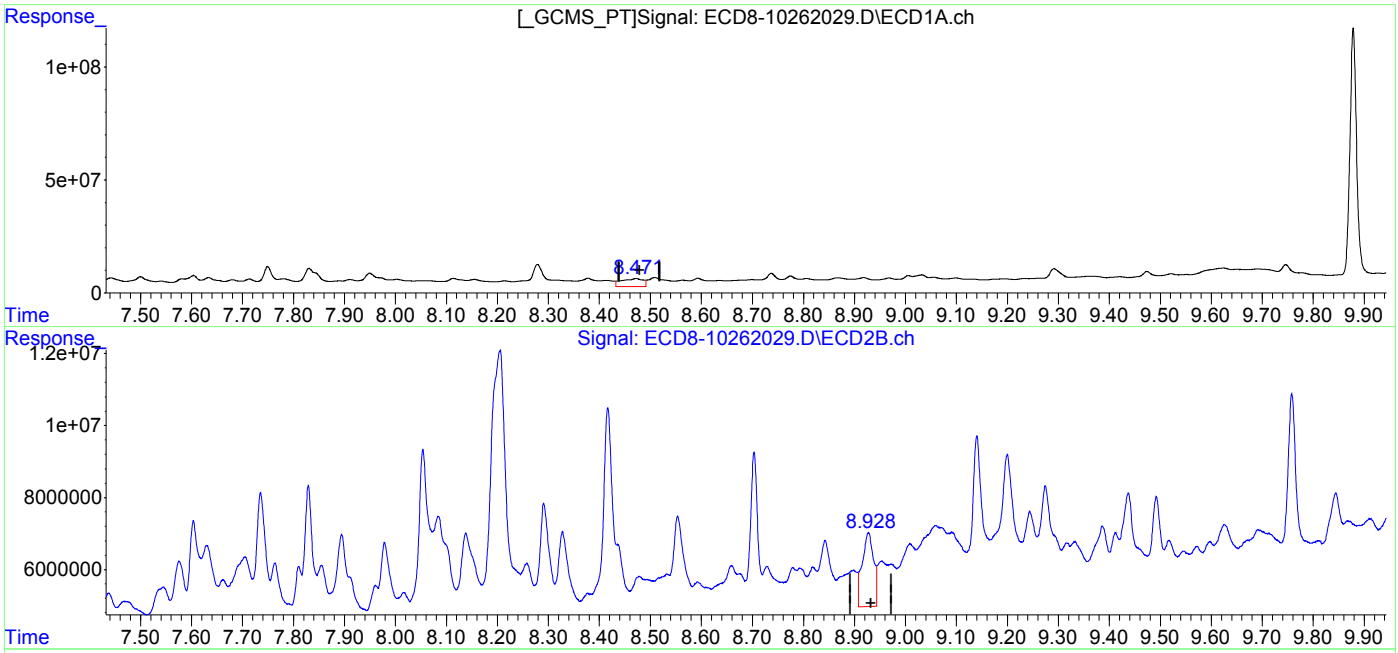
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:41
Operator : MJB
Sample   : A0J0371-06RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 22   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:58:57 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(17) 4,4'-DDT
8.472min 1.491 ng/mL
response 3646723

(17) 4,4'-DDT #2
8.928min 0.824 ng/mL
response 2053105

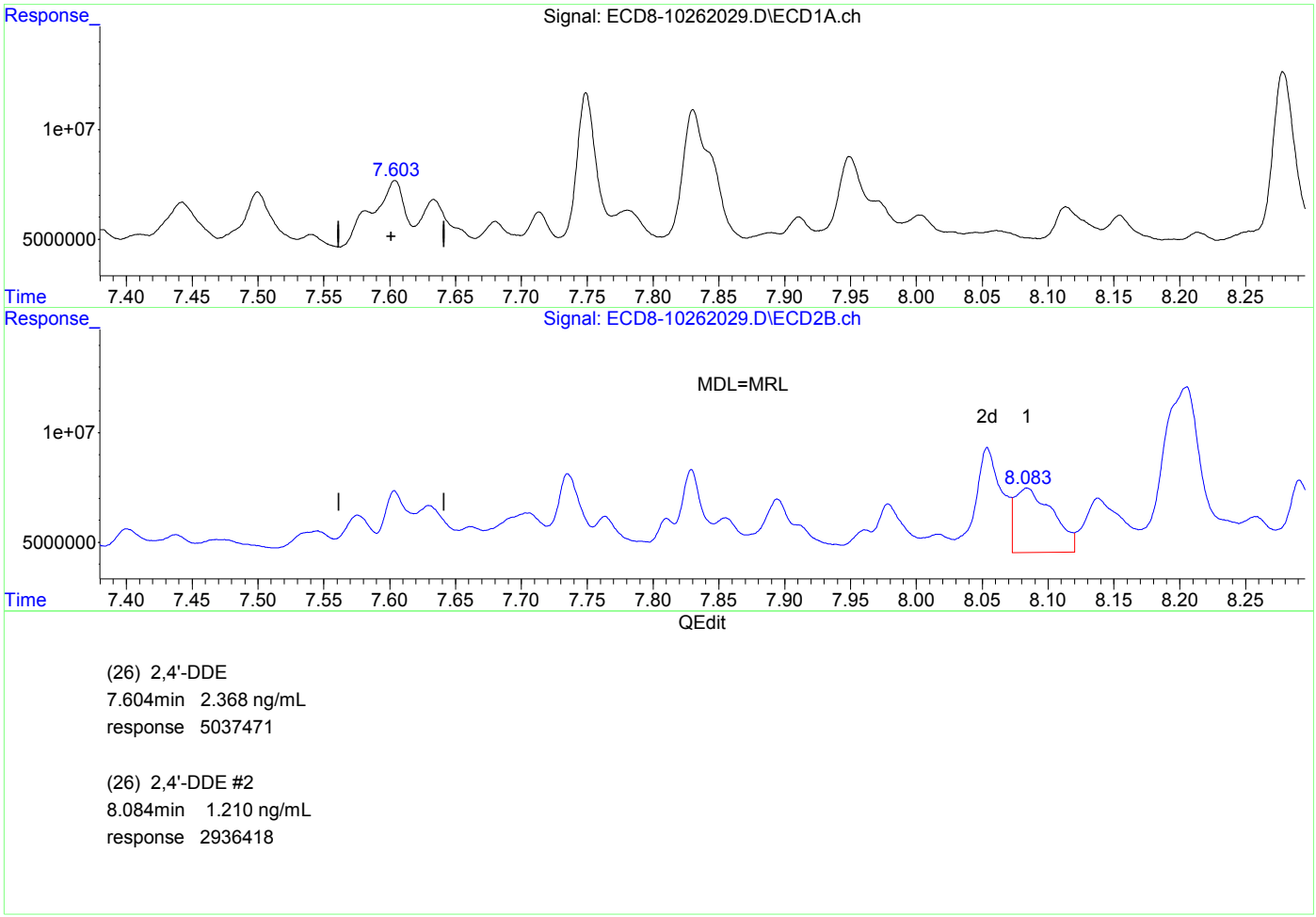
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:41
Operator : MJB
Sample   : A0J0371-06RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 22   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:58:57 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE
7.604min 2.368 ng/mL
response 5037471

(26) 2,4'-DDE #2
8.084min 1.210 ng/mL
response 2936418

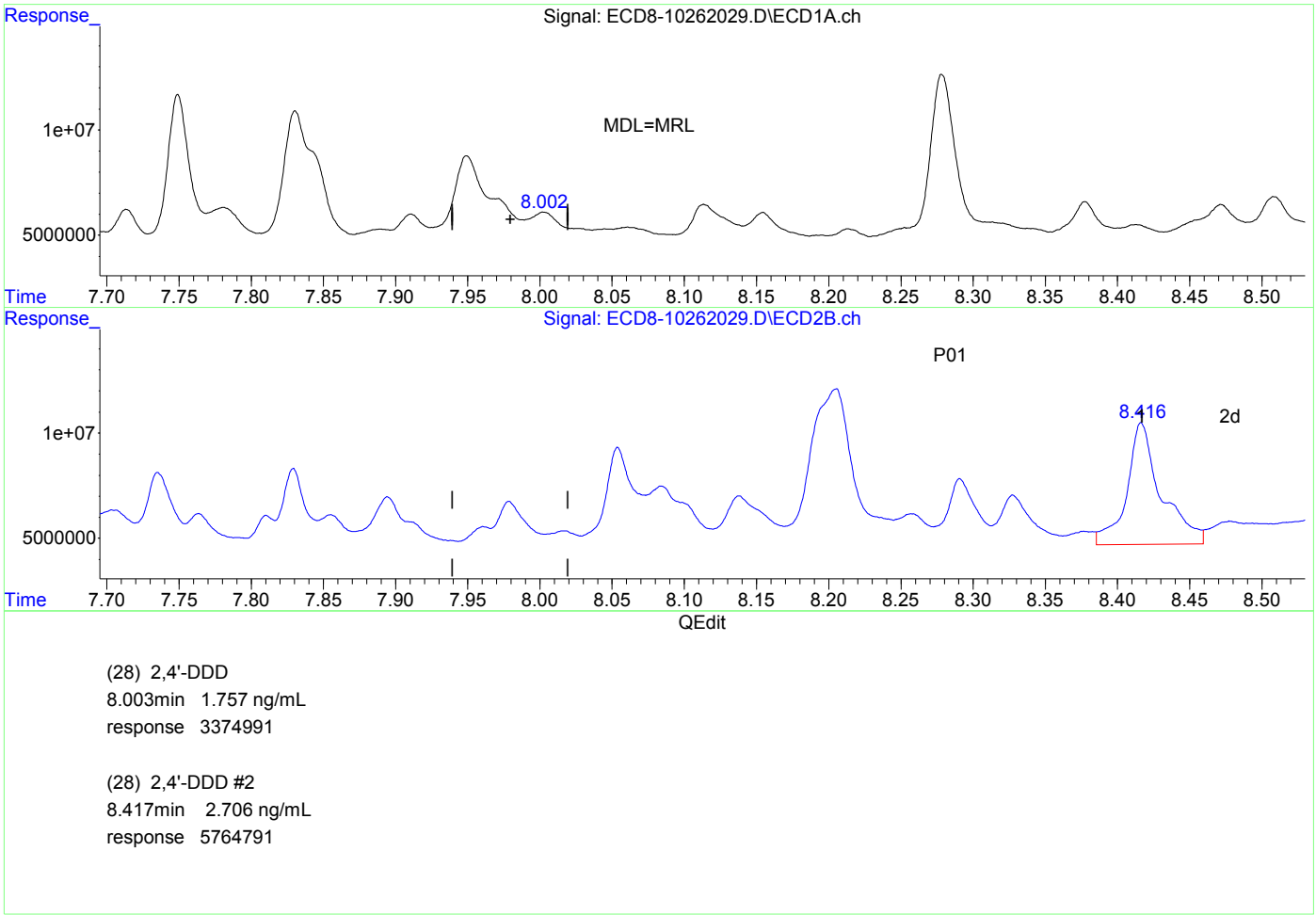
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:41
Operator : MJB
Sample   : A0J0371-06RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 22   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:58:57 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD
8.003min 1.757 ng/mL
response 3374991

(28) 2,4'-DDD #2
8.417min 2.706 ng/mL
response 5764791

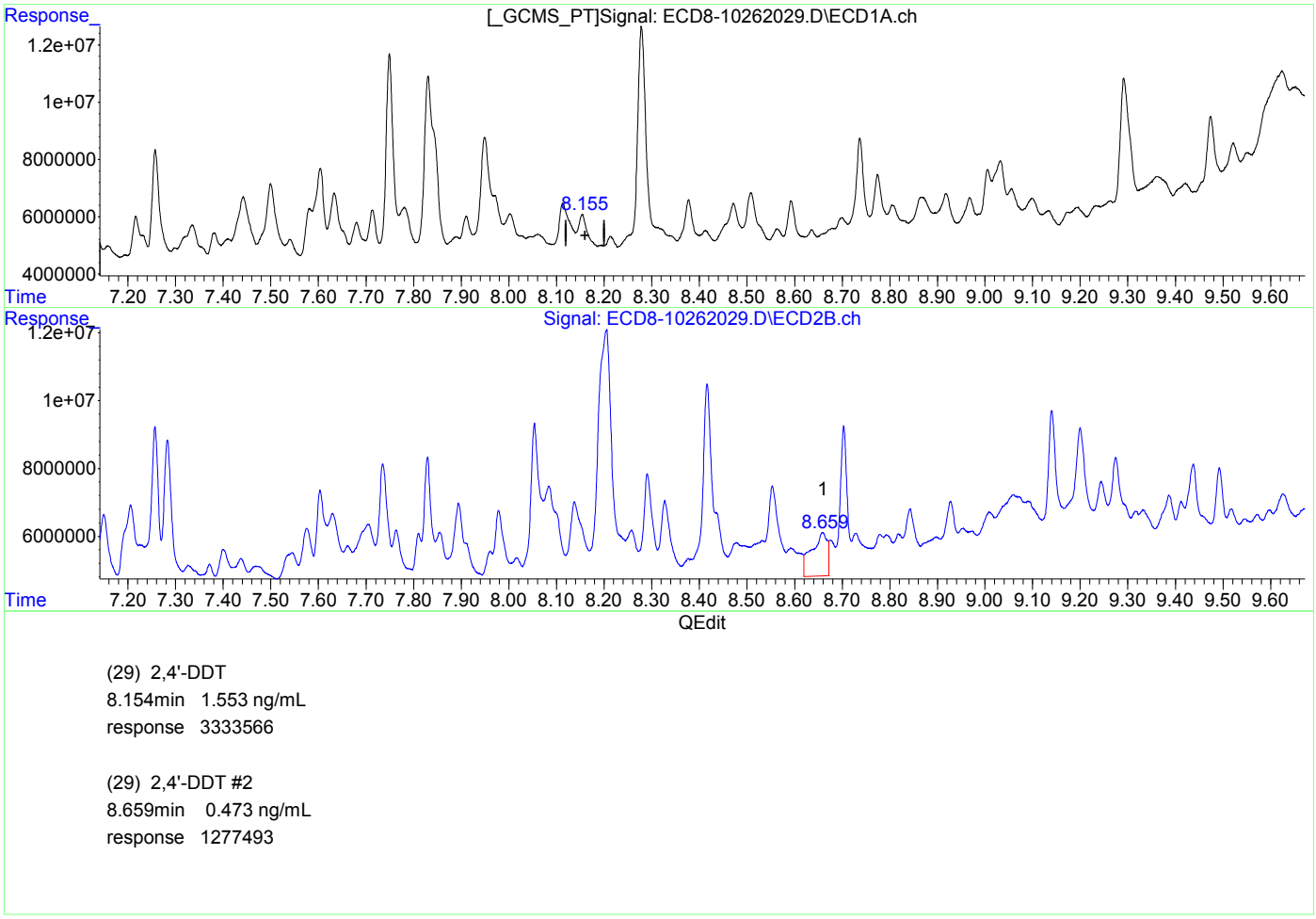
(+) = Expected Retention Time
ECD8_QUANTPEST_201015.M Wed Oct 28 11:01:50 2020 Page: 1

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:41
Operator : MJB
Sample   : A0J0371-06RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 22   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 10:58:57 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(29) 2,4'-DDT
8.154min 1.553 ng/mL
response 3333566

(29) 2,4'-DDT #2
8.659min 0.473 ng/mL
response 1277493

(+) = Expected Retention Time

Quantitation Report (QT Reviewed) HML 10/28/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:58
Operator : MJB
Sample : A0J0371-02RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:06:09 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.658	5.964	111.6E6	94796315	31.549	23.694	
22)	S DCBP (S)	9.879	10.472	122.6E6	119.3E6	48.913	49.317	
	Target Compounds							
2)	a-BHC	6.214	6.569	2715699	3140301	0.576	0.587	
3)	g-BHC	6.475f	6.901f	3621964	6101867	0.900	1.312	#
4)	b-BHC	6.570	6.942	10272991	2960175	6.582	1.513	#
5)	Heptachlor	6.914	7.254	1340789	8180036	0.330	1.787	#
6)	d-BHC	6.746	7.190	1862924	3885916	0.665	1.029	#
7)	Aldrin	7.158	7.538f	2920260	2416040	0.743	0.566	
8)	Heptachlo...	7.595	7.959	2609054	2397840	0.714	0.597	
9)	trans-Chl...	7.712	8.081	2283104	5403778	0.620	1.358	#
10)	cis-Chlor...	7.779f	8.202	2461185	12602108	0.679	3.248	#
11)	Endosulfa...	7.910	8.258	1172245	2757591	0.345	0.767	#
12)	4,4'-DDE	7.838	8.291	6738183	5375094	2.138m	1.631	MDL=MR
13)	Dieldrin	8.090	8.437	654390	4435687	0.174	1.175	#
14)	Endrin	8.277f	8.676	18063253	1975518	6.587	0.790	#
15)	4,4'-DDD	8.277	8.703	18063253	11441235	6.642	3.974	# P11
16)	Endosulfa...	8.414	8.820	544995	1904566	0.185	0.585	#
17)	4,4'-DDT	8.468	8.927	1917348	3816692	0.800	1.475	# P01
18)	Endrin Al...	8.700	9.055	825017	4167022	BelowCal	1.157	
19)	Endosulfa...	9.005	9.244	17437435	6147049	5.835	1.850	#
20)	Methoxychlor	8.807	9.388	2704199	3259865	1.964	2.266	
21)	Endrin Ke...	9.192	9.625	1315698	4327317	0.356	1.108	#
23)	Hexachlor...	3.451	3.710f	649504	510167	BelowCal	BelowCal	
24)	Hexachlor...	6.048	6.444	1928626	66723917	0.577	16.765	#
25)	Oxychlordane	7.538	7.892	1200565	5515689	0.372	1.567	#

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:58
Operator : MJB
Sample : A0J0371-02RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:06:09 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.595	8.081	2609054	5403778	1.227 MDL=MRL	2.227 #	P01
27)	trans-Non...	7.779	8.137	2461185	4176477	0.681	1.059 #	
28)	2,4'-DDD	7.972	8.437	4061898	4435687	2.114	2.043	R02
29)	2,4'-DDT	8.147	8.676	1864590	1975518	0.869	0.813	
30)	cis-Nonac...	8.277	8.703	18063253	11441235	4.580	2.674 #	
31)	Mirex	8.918f	9.625	2164329	4327317	0.617	1.488 #	
32)	Chlordane...	7.712	8.137f	2283104	4176477	5.542	8.573 #	
33)	Chlordane...	7.829	8.202	10464899	12602108	24.966	30.440	
34)	Chlordane...	8.376	8.896f	807456	1676430	6.261	12.395 #	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.779f	8.437	2461185	4435687	165.438	116.712 #	
37)	Toxaphene...	8.090	8.793	654390	2358342	19.867	50.024 #	
38)	Toxaphene...	8.414	8.820	544995	1904566	7.862	27.079 #	
39)	Toxaphene...	8.636f	8.896	633156	1676430	8.508	14.072 #	
40)	Toxaphene...	8.871f	9.055	5664266	4167022	95.417	60.488 #	
41)	Toxaphene...	8.967	9.428	2243698	6910045	33.326	92.279 #	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

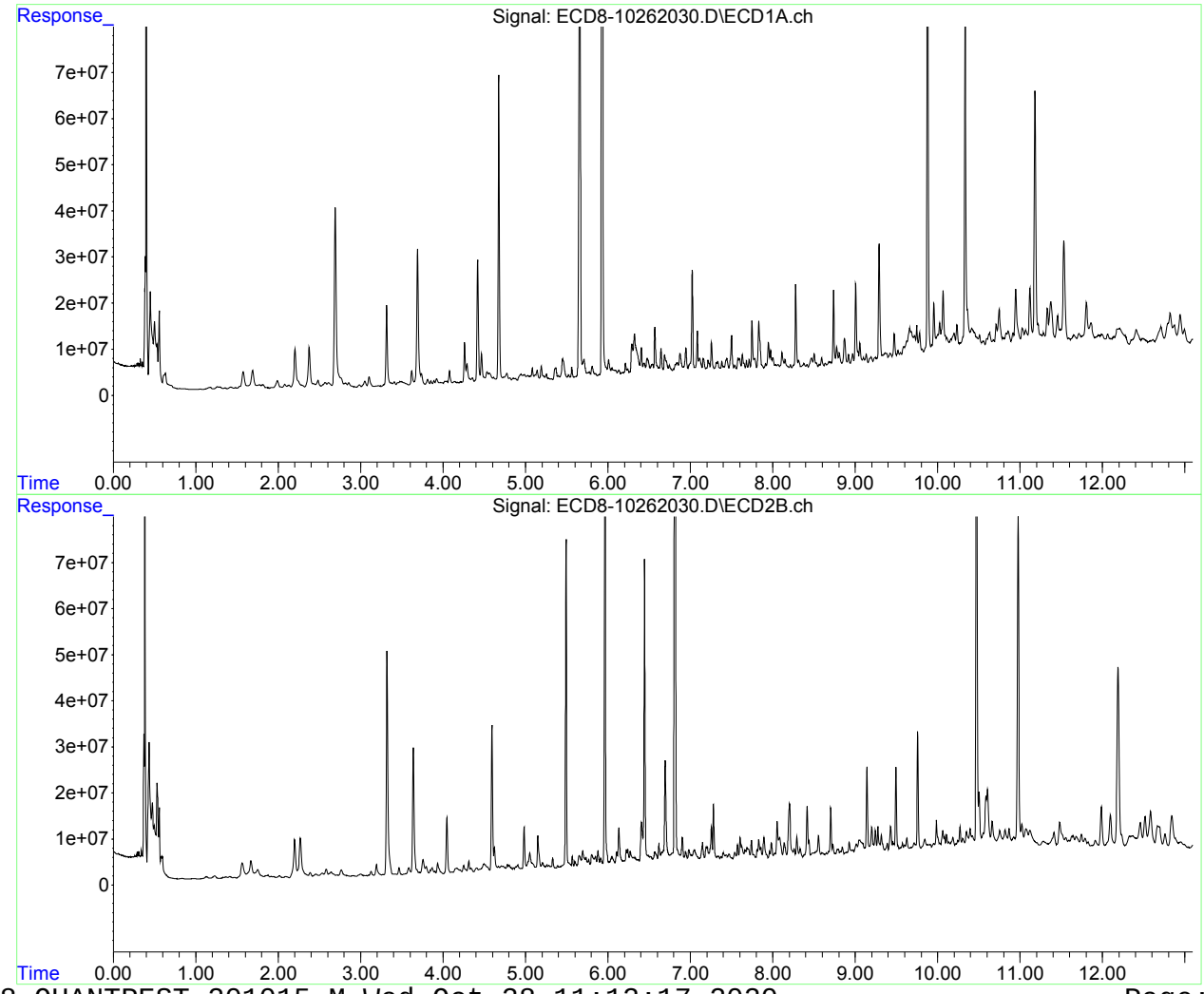
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:58
Operator : MJB
Sample : A0J0371-02RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:06:09 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

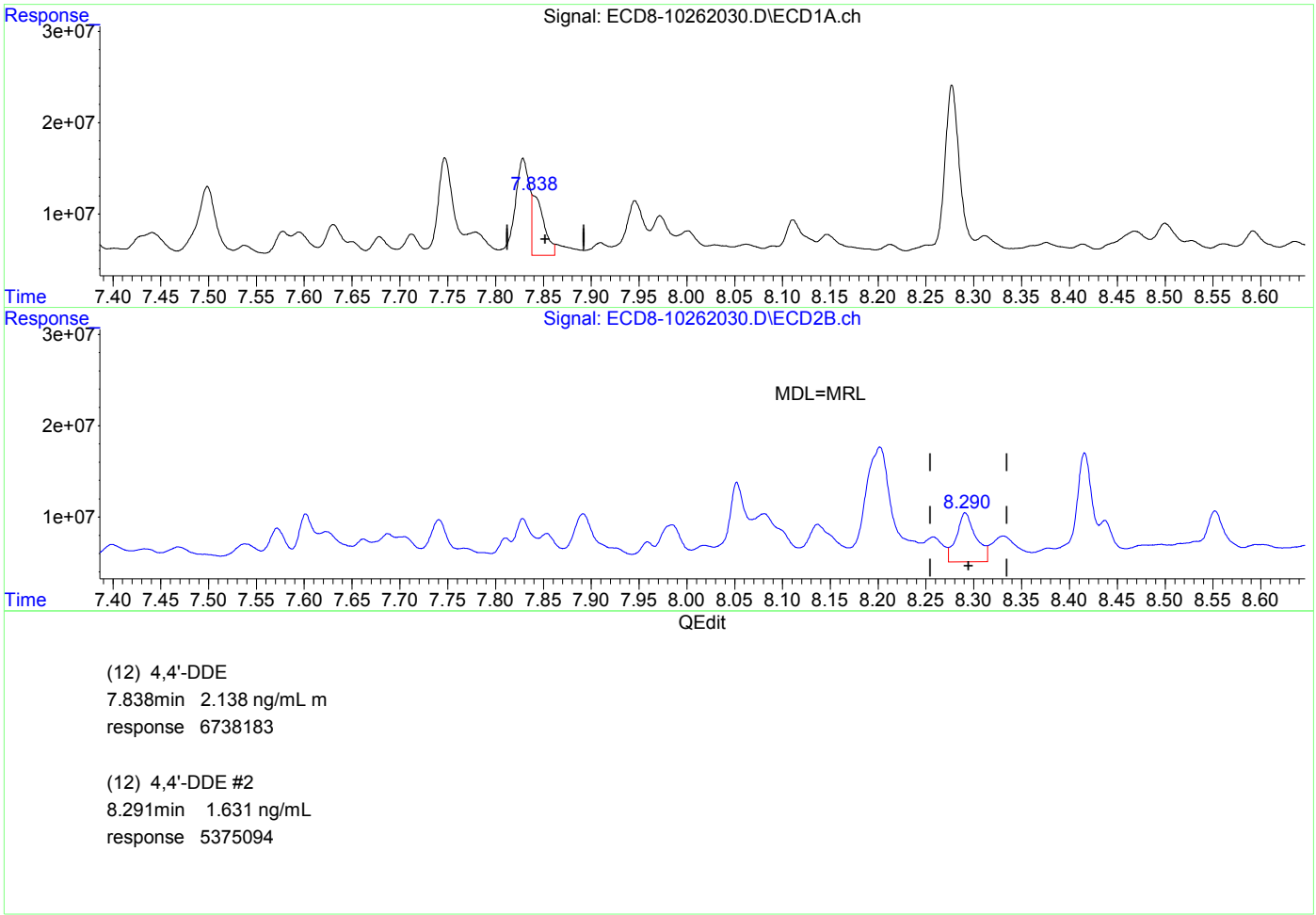


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:58
Operator : MJB
Sample : A0J0371-02RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:04:30 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(12) 4,4'-DDE
7.838min 2.138 ng/mL m
response 6738183

(12) 4,4'-DDE #2
8.291min 1.631 ng/mL
response 5375094

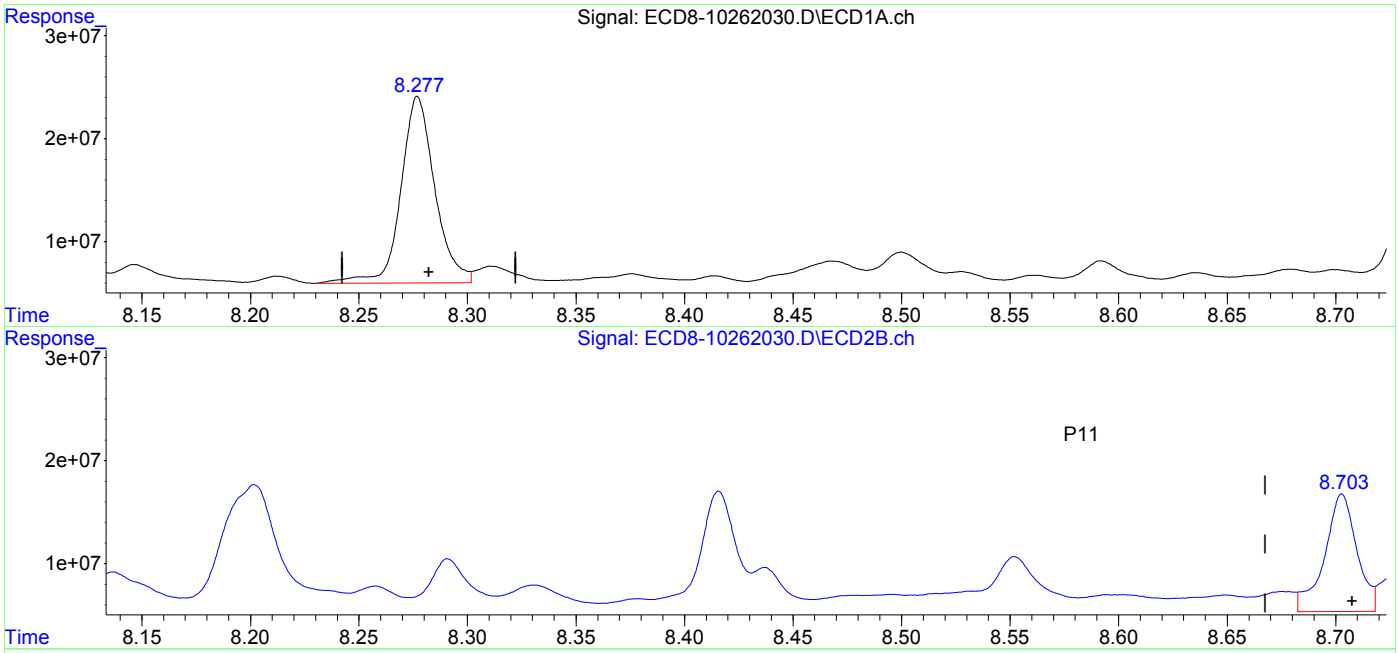
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:58
Operator : MJB
Sample   : A0J0371-02RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 23   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:04:30 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(15) 4,4'-DDD
8.277min 6.642 ng/mL
response 18063253

(15) 4,4'-DDD #2
8.703min 3.974 ng/mL
response 11441235

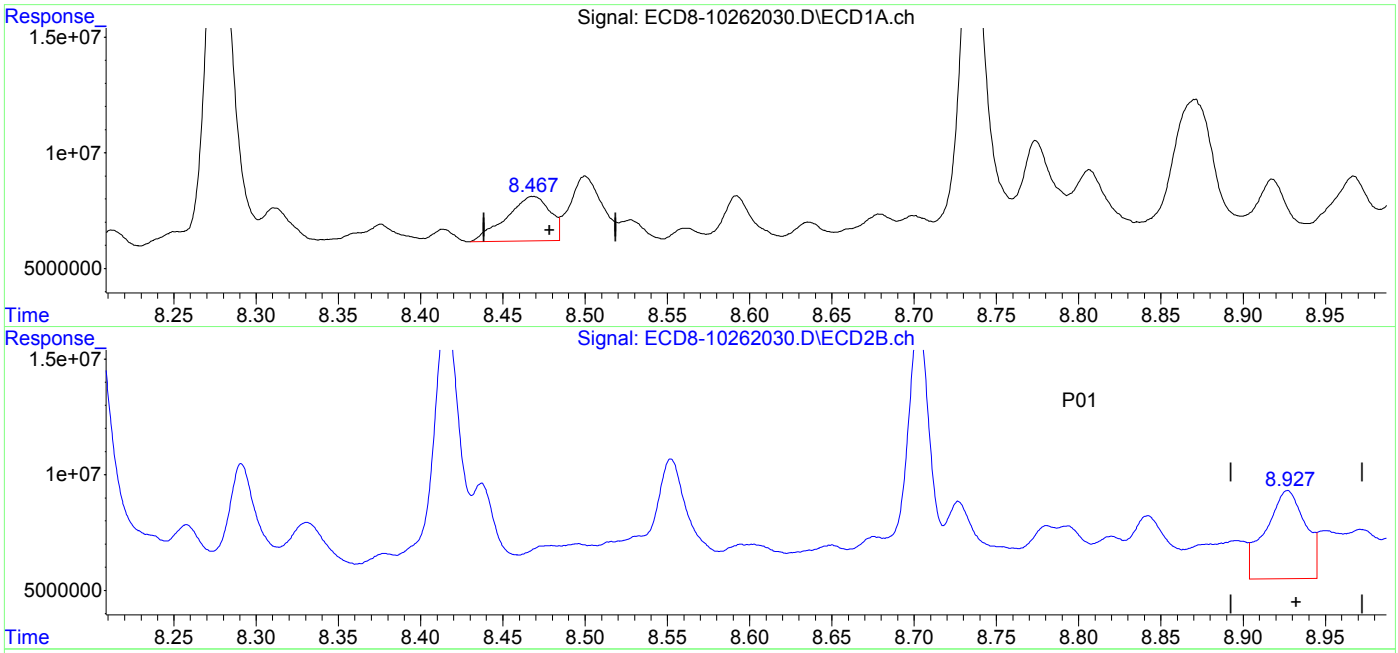
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 19:58
Operator : MJB
Sample : A0J0371-02RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:04:30 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(17) 4,4'-DDT
8.468min 0.800 ng/mL
response 1917348

(17) 4,4'-DDT #2
8.927min 1.475 ng/mL
response 3816692

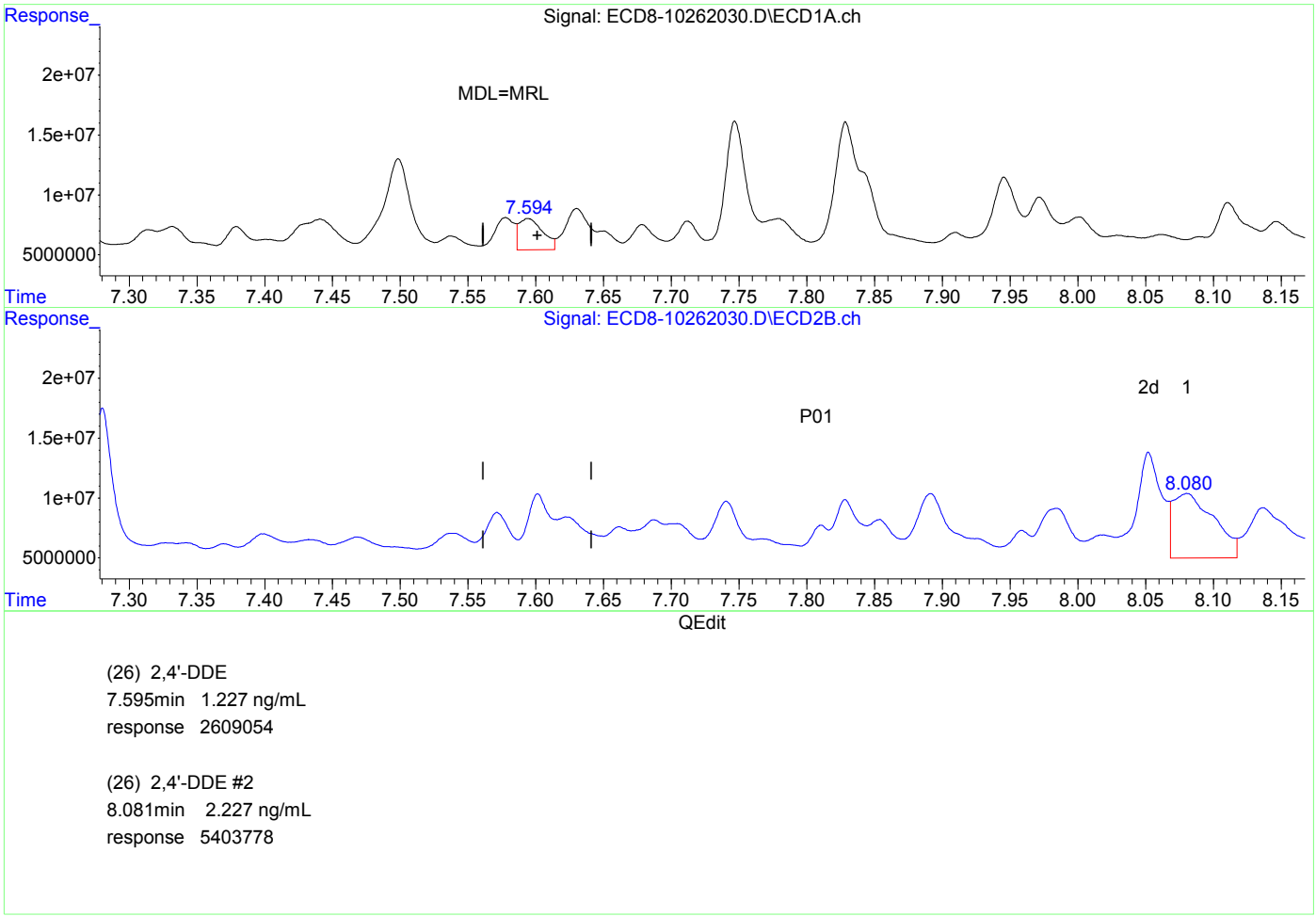
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:58
Operator : MJB
Sample   : A0J0371-02RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 23   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:04:30 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE
7.595min 1.227 ng/mL
response 2609054

(26) 2,4'-DDE #2
8.081min 2.227 ng/mL
response 5403778

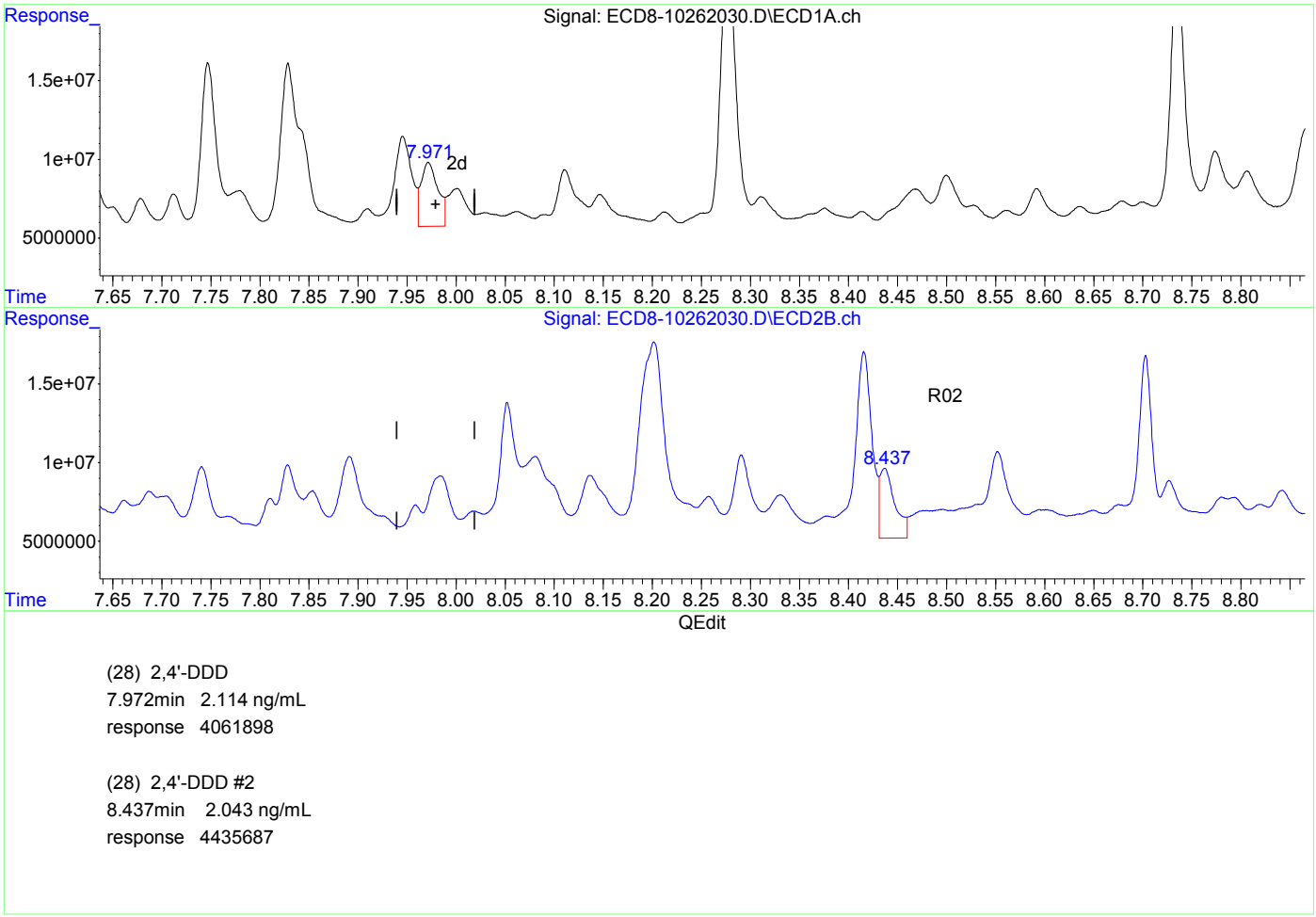
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 19:58
Operator : MJB
Sample   : A0J0371-02RE1
Misc   : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 23   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:04:30 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD
7.972min 2.114 ng/mL
response 4061898

(28) 2,4'-DDD #2
8.437min 2.043 ng/mL
response 4435687

(+) = Expected Retention Time

Quantitation Report (QT Reviewed) HML 10/28/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 20:14
Operator : MJB
Sample : A0J0371-07RE1@2 44
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:16:57 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.658	5.964	78718672	69796914	22.260	17.446	
22)	S DCBP (S)	9.878	10.472	65869651	62597544	26.237	25.874	
	Target Compounds							
2)	a-BHC	6.213	6.567	1299013	1380841	0.276	0.258	
3)	g-BHC	6.483	6.873	2914149	1363375	0.724	0.293	#
4)	b-BHC	6.576	6.941	4457017	4577954	2.855	2.340	
5)	Heptachlor	6.902	7.258	1711141	3325283	0.422	0.727	#
6)	d-BHC	6.740	7.206	1061730	2138775	0.404	0.597	#
7)	Aldrin	7.157	7.502	4997870	1190460	1.272	0.279	#
8)	Heptachlo...	7.595	7.961	7665323	1239535	2.097	0.309	#
9)	trans-Chl...	7.712	8.101	2970736	6380483	0.807	1.603	#
10)	cis-Chlor...	7.829f	8.204	7629440	6213055	2.106	1.601	
11)	Endosulfa...	7.910	8.259	1875300	6476554	0.551	1.801	#
12)	4,4'-DDE	7.839	8.294	5042609	5056939	1.600m	1.537	MDL=M
13)	Dieldrin	8.089	8.416f	384214	22827756	0.102	5.937	R#
14)	Endrin	8.279f	8.674	24760227	2307906	9.029	0.918	#
15)	4,4'-DDD	8.279	8.703	24760227	9294251	9.104	3.234	#P11
16)	Endosulfa...	8.410	8.817	2292497	1954179	0.778	0.600	
17)	4,4'-DDT	8.471	8.926	1174242	2560221	0.503	1.011	#P01
18)	Endrin Al...	8.696	9.044	6864588	3644057	2.119	0.978	#
19)	Endosulfa...	9.005	9.246	6691988	6138220	2.239	1.847	
20)	Methoxychlor	8.805	9.387	1623745	2871453	1.180	1.991	#
21)	Endrin Ke...	9.188f	9.624	1808672	4051395	0.489	1.037	#
23)	Hexachlor...	3.452	3.686	445631	1357511	BelowCal	0.184	
24)	Hexachlor...	6.048	6.444	3374260	39786524	1.009	9.997	#
25)	Oxychlordane	7.546	7.895	2118678	3674292	0.656	1.044	#

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 20:14
Operator : MJB
Sample : A0J0371-07RE1@2 44
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:16:57 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.595	8.054	7665323	5194493	3.604	2.141	#R02
27)	trans-Non...	7.750f	8.137	7351730	4090534	2.035	1.037	#
28)	2,4'-DDD	7.972	8.416f	2423374	22827756	1.261 MDL=MRL	1.122	#P01
29)	2,4'-DDT	8.154	8.674	478939	2307906	0.223	0.974	#
30)	cis-Nonac...	8.279	8.703	24760227	9294251	6.279	2.173	#
31)	Mirex	8.917f	9.624	3611835	4051395	1.237	1.371	
32)	Chlordane...	7.712	8.101	2970736	6380483	7.211	13.098	#
33)	Chlordane...	7.829	8.204	7629440	6213055	18.202	15.007	
34)	Chlordane...	8.389	8.898f	2093653	1956192	16.235	14.464	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.829f	8.416f	7629440	22827756	512.842	600.642	
37)	Toxaphene...	8.089	8.792	384214	3814650	11.665	80.914	#
38)	Toxaphene...	8.410	8.817	2292497	1954179	33.070	27.785	
39)	Toxaphene...	8.696f	8.898	6864588	1956192	92.241	16.420	#
40)	Toxaphene...	8.876	9.078	3938049	3753213	66.338	54.481	
41)	Toxaphene...	8.967	9.454	1581168	3571414	23.486	47.694	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

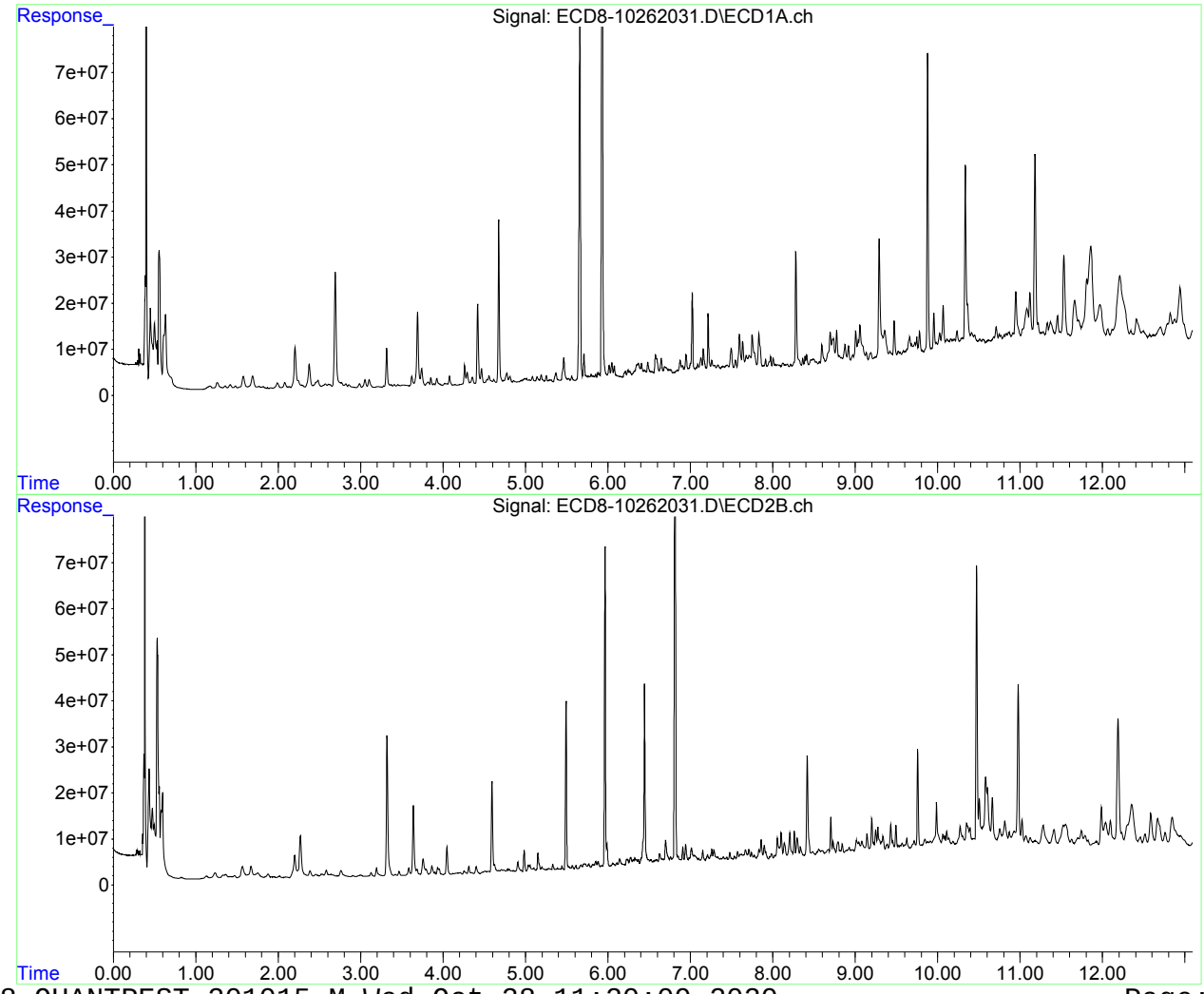
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 20:14
Operator : MJB
Sample : A0J0371-07RE1@2 44
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:16:57 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

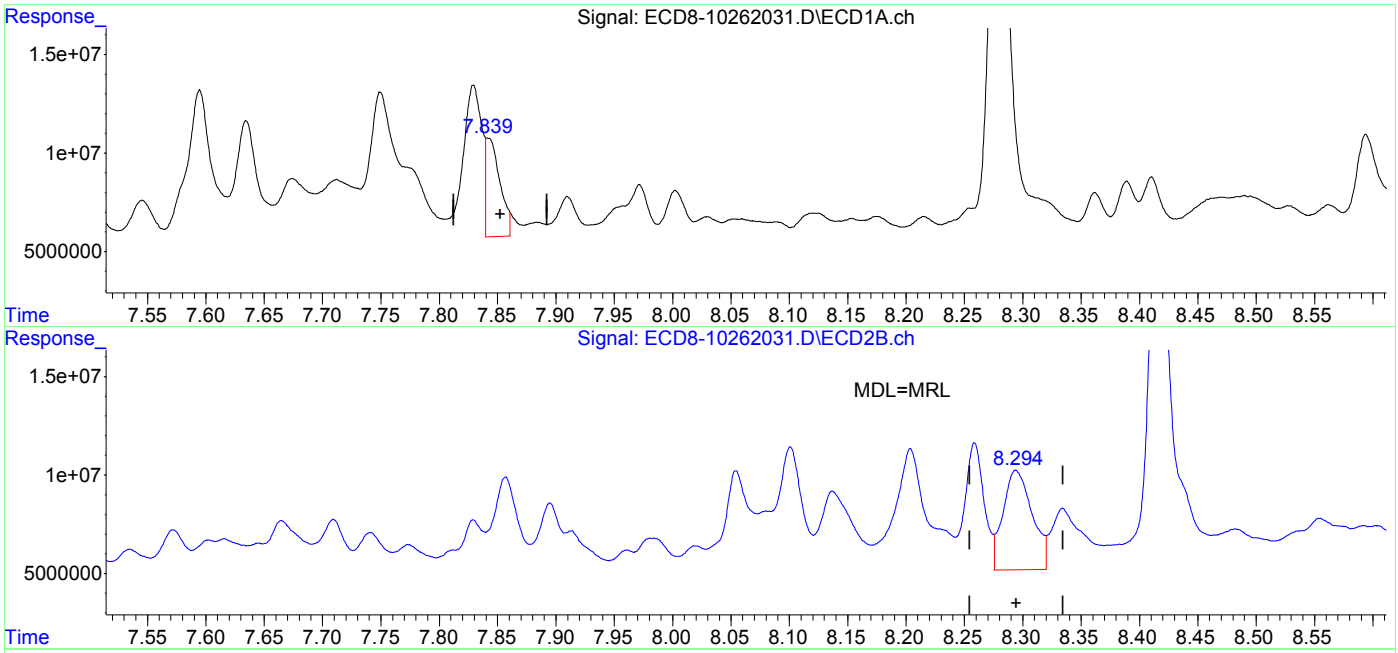


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 20:14
Operator : MJB
Sample : A0J0371-07RE1@2 44
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:14:40 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



QEdit

(12) 4,4'-DDE
7.839min 1.600 ng/mL m
response 5042609

(12) 4,4'-DDE #2
8.294min 1.537 ng/mL
response 5056939

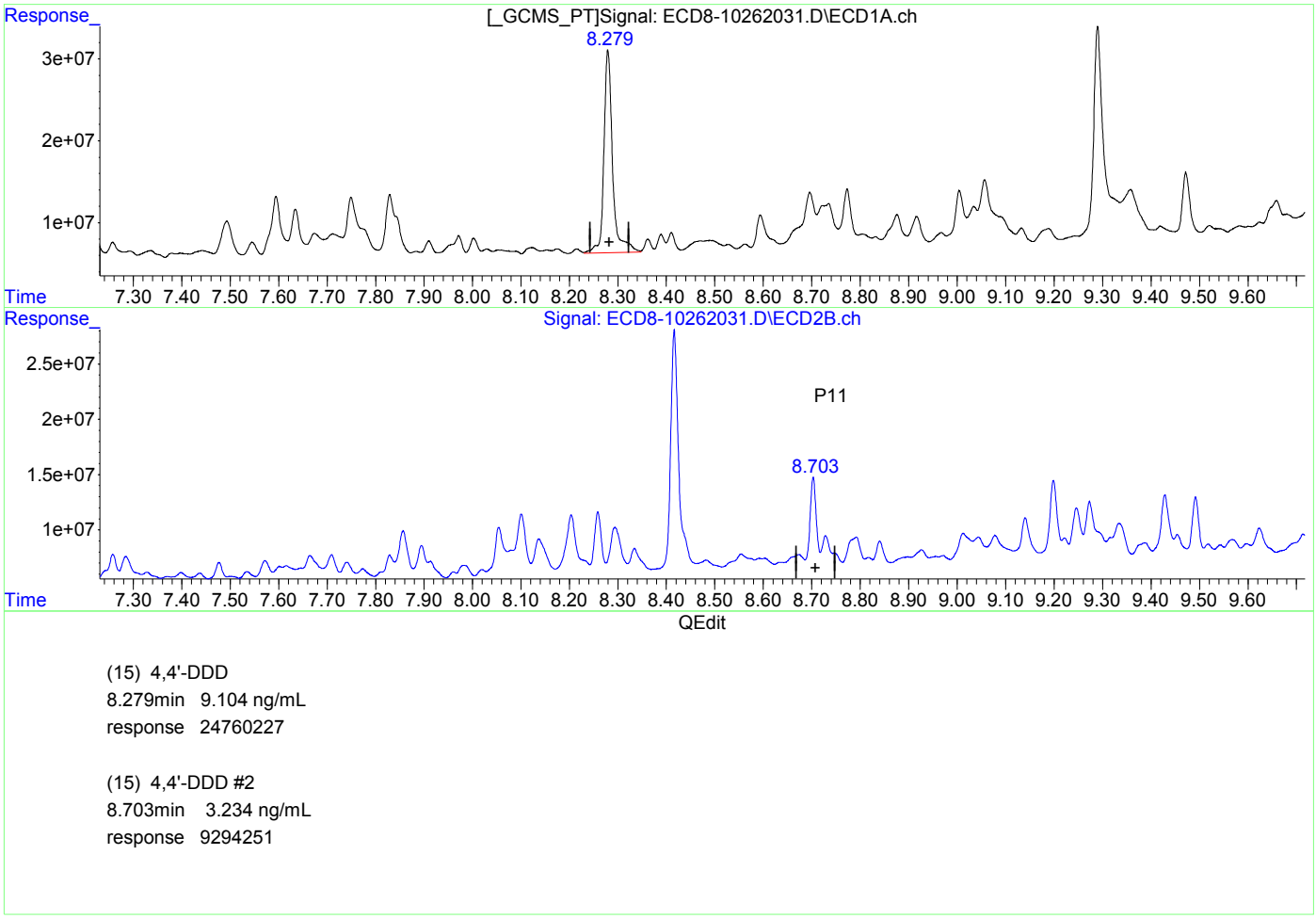
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 20:14
Operator : MJB
Sample   : A0J0371-07RE1@2 44
Misc   : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 24   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:14:40 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(15) 4,4'-DDD
8.279min 9.104 ng/mL
response 24760227

(15) 4,4'-DDD #2
8.703min 3.234 ng/mL
response 9294251

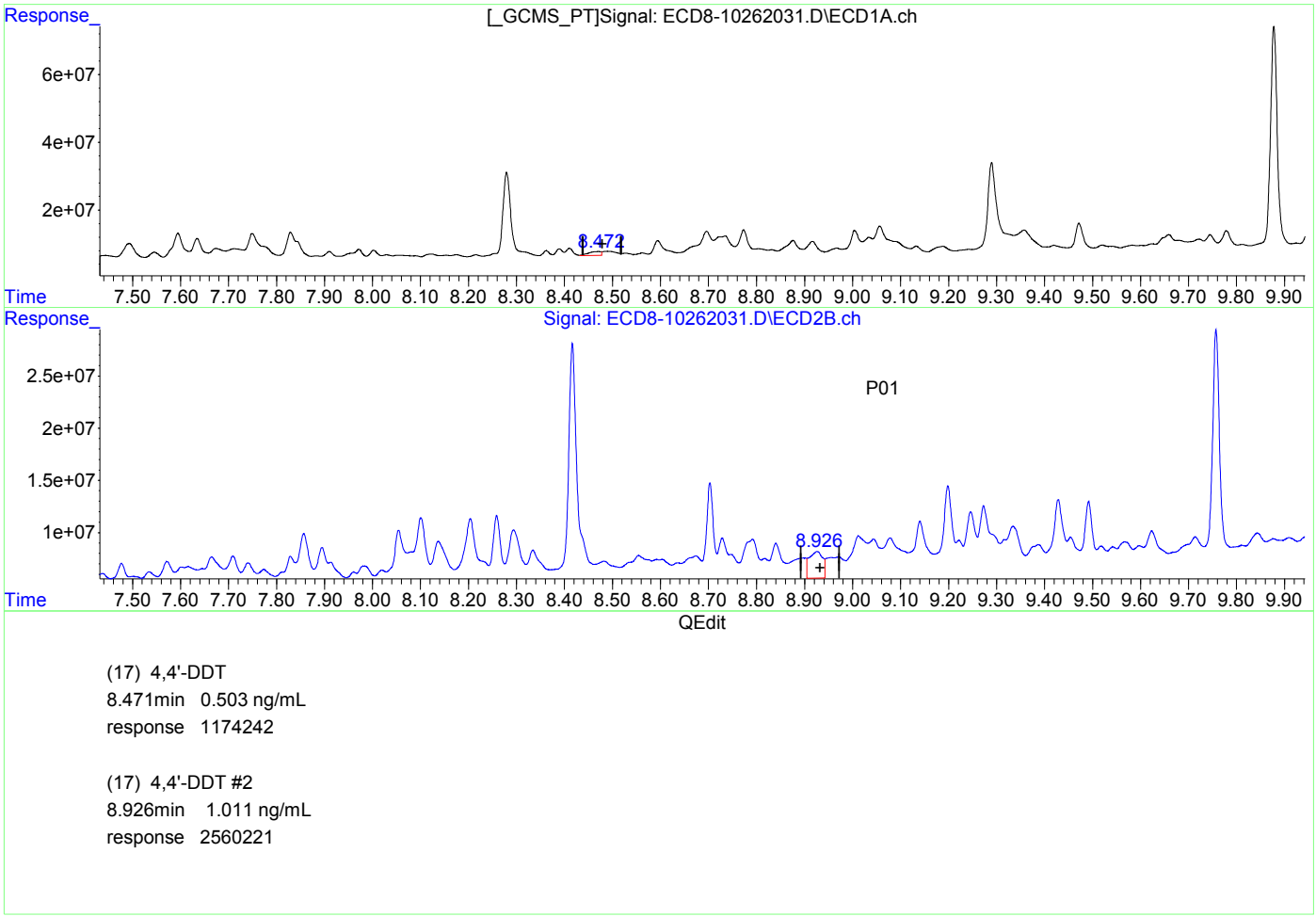
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 20:14
Operator : MJB
Sample   : A0J0371-07RE1@2 44
Misc   : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 24   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:14:40 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(17) 4,4'-DDT
8.471min 0.503 ng/mL
response 1174242

(17) 4,4'-DDT #2
8.926min 1.011 ng/mL
response 2560221

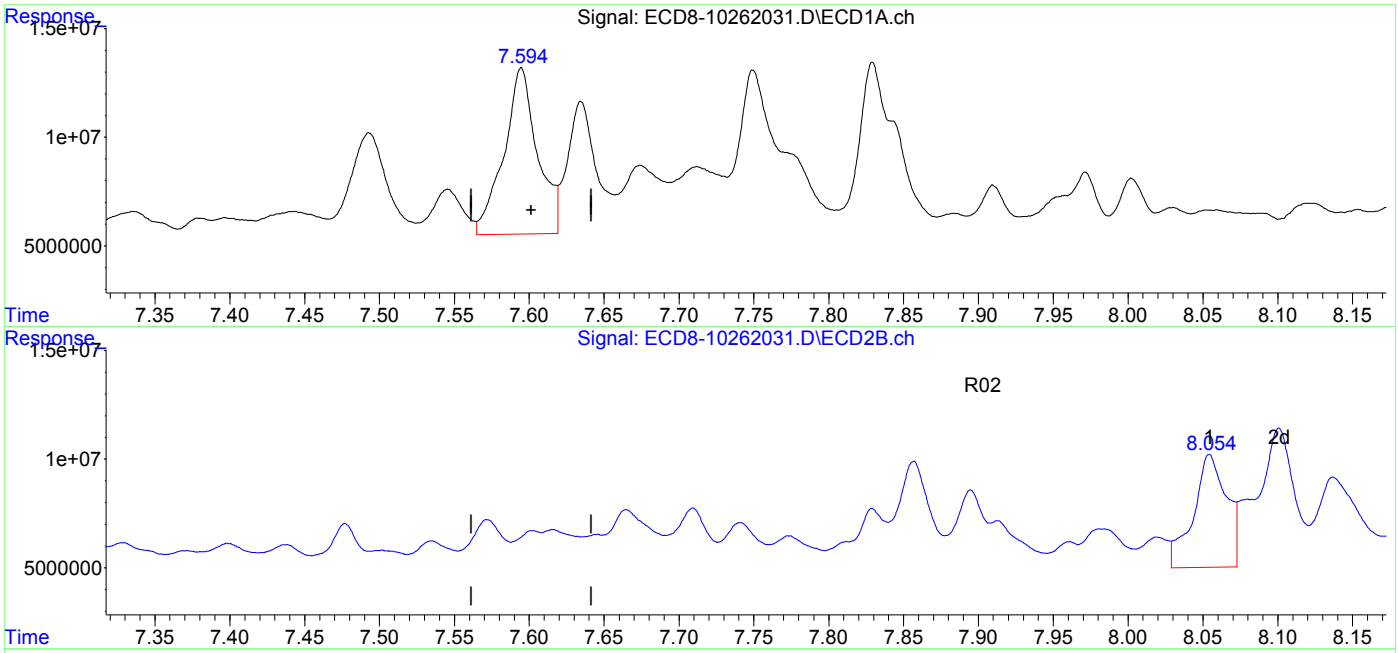
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 26 Oct 2020 20:14
Operator : MJB
Sample   : A0J0371-07RE1@2 44
Misc   : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 24   Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:14:40 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE
7.595min 3.604 ng/mL
response 7665323

(26) 2,4'-DDE #2
8.054min 2.141 ng/mL
response 5194493

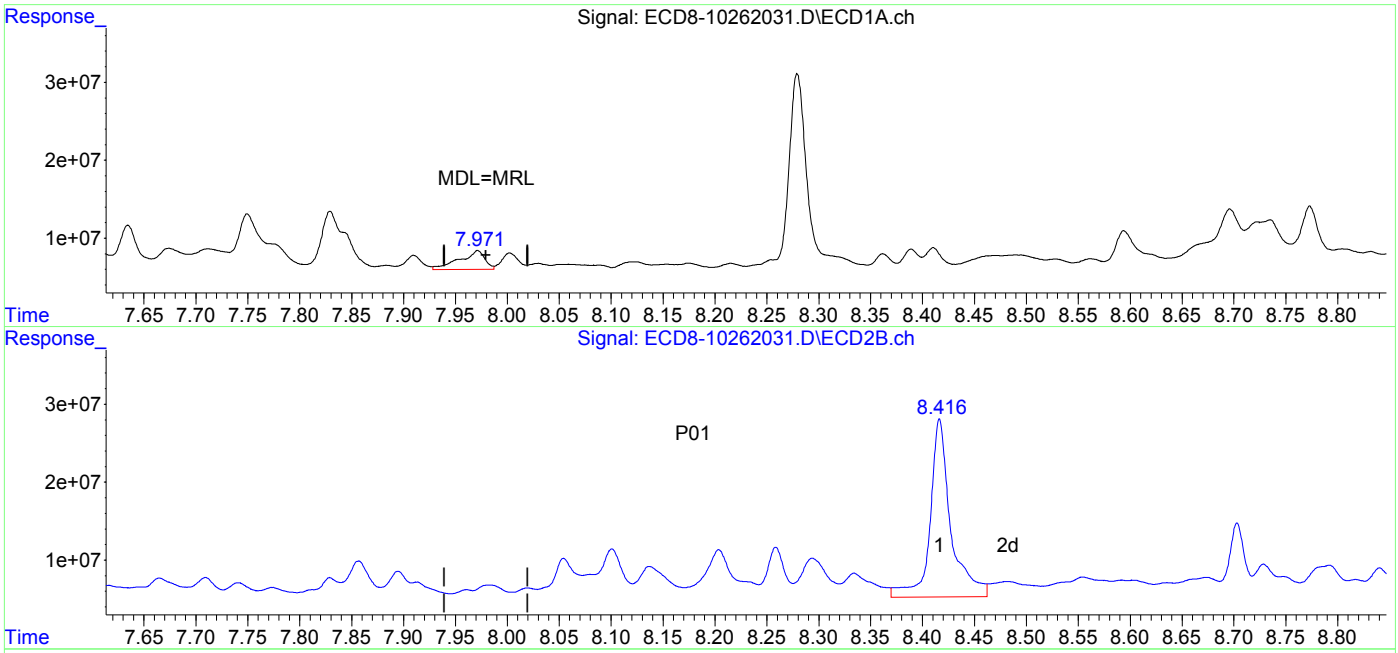
(+) = Expected Retention Time
ECD8_QUANTPEST_201015.M Wed Oct 28 11:19:07 2020 Page: 1

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 20:14
Operator : MJB
Sample : A0J0371-07RE1@2 44
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:14:40 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD
7.972min 1.261 ng/mL
response 2423374

(28) 2,4'-DDD #2
8.416min 11.122 ng/mL
response 22827756

(+) = Expected Retention Time
ECD8_QUANTPEST_201015.M Wed Oct 28 11:19:51 2020 Page: 1

Quantitation Report (Not Reviewed) HML 10/28/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 20:31
Operator : MJB
Sample : 0J26061-CCV6
Misc : A20H475, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:24:06 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.661	5.964	176.7E6	209.0E6	49.957	52.233	
22) S	DCBP (S)	9.880	10.474	129.8E6	128.9E6	51.787	53.287	
	Target Compounds							
2)	a-BHC	6.212	6.559	244.4E6	294.4E6	51.876	55.038	
3)	g-BHC	6.498	6.874	202.3E6	255.1E6	50.273	54.856	
4)	b-BHC	6.580	6.941	76417590	98581164	48.959	50.383	
5)	Heptachlor	6.897	7.246	199.1E6	240.9E6	49.054	52.641	
6)	d-BHC	6.734	7.189	173.8E6	235.1E6	51.803	52.973	
7)	Aldrin	7.139	7.509	200.5E6	231.0E6	51.042	54.109	
8)	Heptachlo...	7.608	7.944	185.8E6	214.4E6	50.828	53.392	
9)	trans-Chl...	7.701	8.084	186.2E6	214.8E6	50.564	53.961	
10)	cis-Chlor...	7.798	8.190	179.7E6	212.0E6	49.616	54.644	
11)	Endosulfa...	7.902	8.240	173.7E6	198.4E6	51.076	55.155	
12)	4,4'-DDE	7.851	8.293	170.4E6	215.4E6	54.070	56.737	
13)	Dieldrin	8.075	8.438	194.8E6	223.3E6	51.842	54.113	
14)	Endrin	8.246	8.661	139.5E6	160.0E6	50.887	55.089	
15)	4,4'-DDD	8.281	8.706	156.4E6	191.6E6	57.512	59.663	
16)	Endosulfa...	8.407	8.808	151.2E6	169.8E6	51.333	52.148	
17)	4,4'-DDT	8.476	8.931	127.6E6	149.3E6	46.965	48.807	
18)	Endrin Al...	8.702	9.042	139.7E6	160.6E6	48.926	52.610	
19)	Endosulfa...	9.007	9.236	148.1E6	173.7E6	49.548	52.279	
20)	Methoxychlor	8.808	9.396	66046142	75895400	47.978	49.503	
21)	Endrin Ke...	9.209	9.627	194.1E6	214.4E6	52.486	54.899	
23)	Hexachlor...	3.415f	3.691	9430	102613	BelowCal	BelowCal	
24)	Hexachlor...	6.048	6.427	325472	19903	0.097	0.005	#
25)	Oxychlordane	7.542	7.868	886984	262985	0.275	0.075	#

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 20:31
Operator : MJB
Sample : 0J26061-CCV6
Misc : A20H475, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:24:06 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.608	8.084	185.8E6	214.8E6	87.370	88.508	
27)	trans-Non...	7.798	8.148	179.7E6	836293	49.739	0.212	#
28)	2,4'-DDD	0.000	8.438	0	223.3E6	N.D.	99.508	#
29)	2,4'-DDT	8.157	8.661	453885	160.0E6	0.212	68.058	#
30)	cis-Nonac...	8.281	8.706	156.4E6	191.6E6	39.662	44.780	
31)	Mirex	8.935	9.627	791408	214.4E6	0.029	85.404	#
32)	Chlordane...	7.701f	8.084f	186.2E6	214.8E6	452.017	440.894	
33)	Chlordane...	7.798f	8.240f	179.7E6	198.4E6	428.767	479.122	
34)	Chlordane...	8.407f	8.883	151.2E6	1550395	1172.481	11.463	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.798	8.438	179.7E6	223.3E6	12080.716	5875.593	#
37)	Toxaphene...	8.075f	8.808	194.8E6	169.8E6	5912.862	3601.591	#
38)	Toxaphene...	8.407	8.808	151.2E6	169.8E6	2181.066	2414.167	
39)	Toxaphene...	8.626f	8.883	1985876	1550395	26.685	13.014	#
40)	Toxaphene...	8.882	9.042f	988587	160.6E6	16.653	2331.150	#
41)	Toxaphene...	8.961	9.459	900445	1137473	13.375	15.190	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

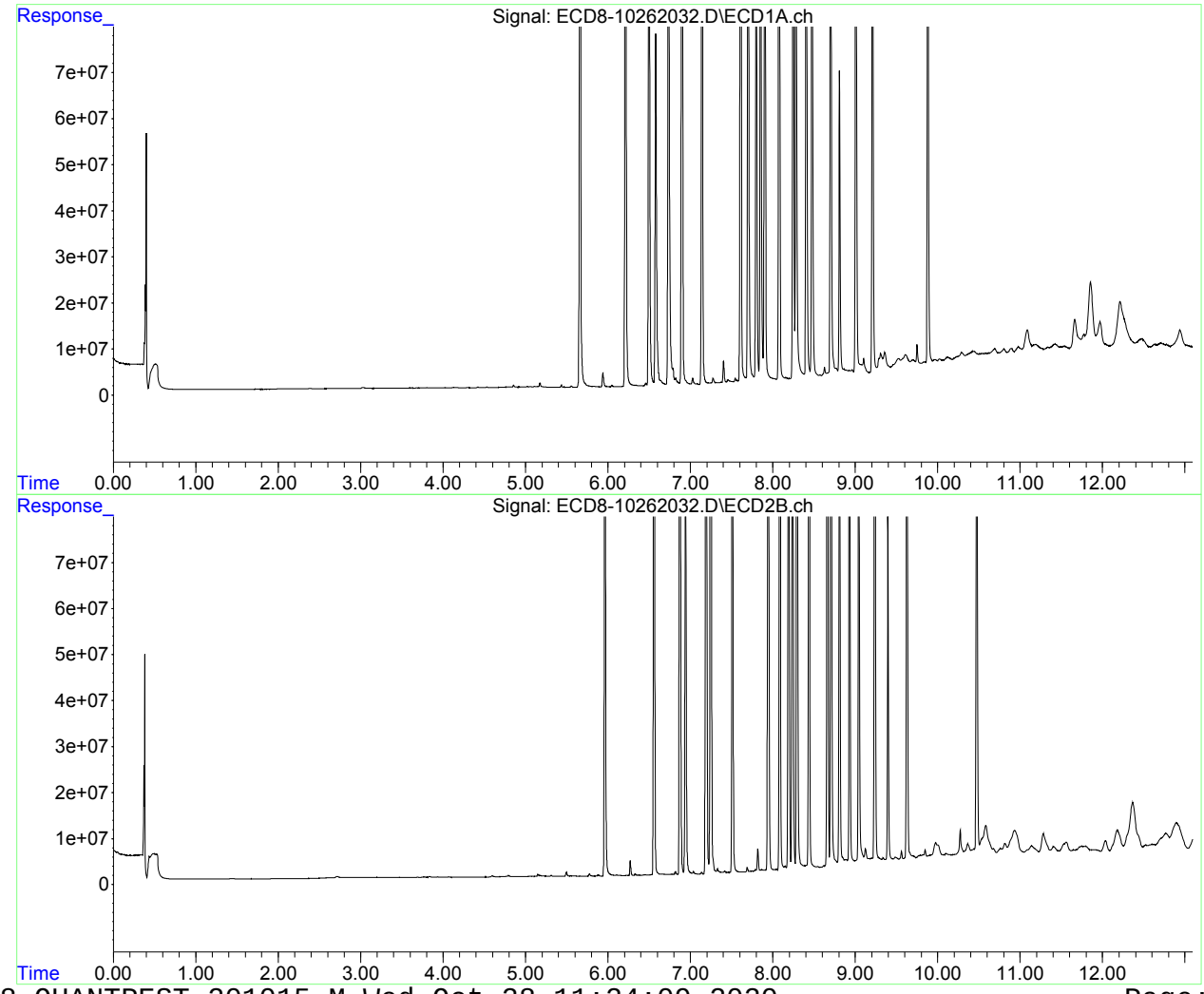
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 20:31
Operator : MJB
Sample : 0J26061-CCV6
Misc : A20H475, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:24:06 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



Quantitation Report (Not Reviewed) HML 10/28/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 20:47
Operator : MJB
Sample : 0J26061-CCV7
Misc : A20I185, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:25:14 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.631f	6.001f	1292440	1396421	0.365	0.349	
22)	S	DCBP (S)	9.853f	0.000	1768269	0	0.452	N.D.	#
		Target Compounds							
2)		a-BHC	6.208	6.554	301808	391127	0.064	0.073	
3)		g-BHC	6.505	6.872	84863	265441	0.021	0.057	#
4)		b-BHC	6.590	6.946	98925	337591	0.063	0.173	#
5)		Heptachlor	6.896	7.245	418645	518538	0.103	0.113	
6)		d-BHC	6.734	7.190	81322	225556	0.085	0.123	#
7)		Aldrin	7.141	7.512	20697	36569	0.005	0.009	#
8)		Heptachlo...	7.598	7.941	102.8E6	331178	28.120	0.082	#
9)		trans-Chl...	7.700	8.070	555708	123.1E6	0.151	30.922	#
10)		cis-Chlor...	7.784	0.000	170.8E6	0	47.157	N.D.	#
11)		Endosulfa...	7.919	8.238	56080	294666	0.016	0.082	#
12)		4,4'-DDE	0.000	8.297	0	240348	N.D.	0.119	#
13)		Dieldrin	8.051f	8.441	1197793	114.8E6	0.319	28.835	#
14)		Endrin	8.263	8.663	189.8E6	109.6E6	69.193	39.005	#
15)		4,4'-DDD	8.263	8.708	189.8E6	209.1E6	69.770	64.531	
16)		Endosulfa...	8.414	8.849f	279222	1307928	0.095	0.402	#
17)		4,4'-DDT	8.476	8.928	176518	1126507	0.103	0.481	#
18)		Endrin Al...	8.706	9.052	75909	2625244	BelowCal	0.628	
19)		Endosulfa...	9.041f	0.000	480598	0	0.161	N.D.	#
20)		Methoxychlor	0.000	9.400	0	774673	N.D.	0.501	#
21)		Endrin Ke...	9.211	9.616	521220	128.3E6	0.141	32.848	#
23)		Hexachlor...	3.451	3.677	180.3E6	217.8E6	55.436	55.165	
24)		Hexachlor...	6.048	6.427	155.5E6	192.2E6	46.479	48.280	
25)		Oxychlordane	7.531	7.875	154.1E6	172.5E6	47.724	49.002	

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 20:47
Operator : MJB
Sample : 0J26061-CCV7
Misc : A20I185, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:25:14 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.598	8.070	102.8E6	123.1E6	48.336	50.719	
27)	trans-Non...	7.784	8.150	170.8E6	194.3E6	47.274	49.289	
28)	2,4'-DDD	7.977	8.441	96886825	114.8E6	50.426	53.829	
29)	2,4'-DDT	8.158	8.663	98326460	109.6E6	45.819	48.348	
30)	cis-Nonac...	8.263	8.708	189.8E6	209.1E6	48.116	48.869	
31)	Mirex	8.937	9.616	117.4E6	128.3E6	49.783	52.129	
32)	Chlordane...	7.700f	8.070f	555708	123.1E6	1.349	252.651	#
33)	Chlordane...	7.784f	8.238f	170.8E6	294666	407.516	0.712	#
34)	Chlordane...	8.372	8.849f	374571	1307928	2.905	9.670	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.784	8.441	170.8E6	114.8E6	11481.963	3021.799	#
37)	Toxaphene...	8.130f	0.000	1399159	0	42.478	N.D.	#
38)	Toxaphene...	8.414	8.849f	279222	1307928	4.028	18.596	#
39)	Toxaphene...	8.651	8.893	117630	1110907	1.581	9.325	#
40)	Toxaphene...	8.905	9.052	494744	2625244	8.334	38.108	#
41)	Toxaphene...	8.937f	9.442	117.4E6	738488	1743.284	9.862	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

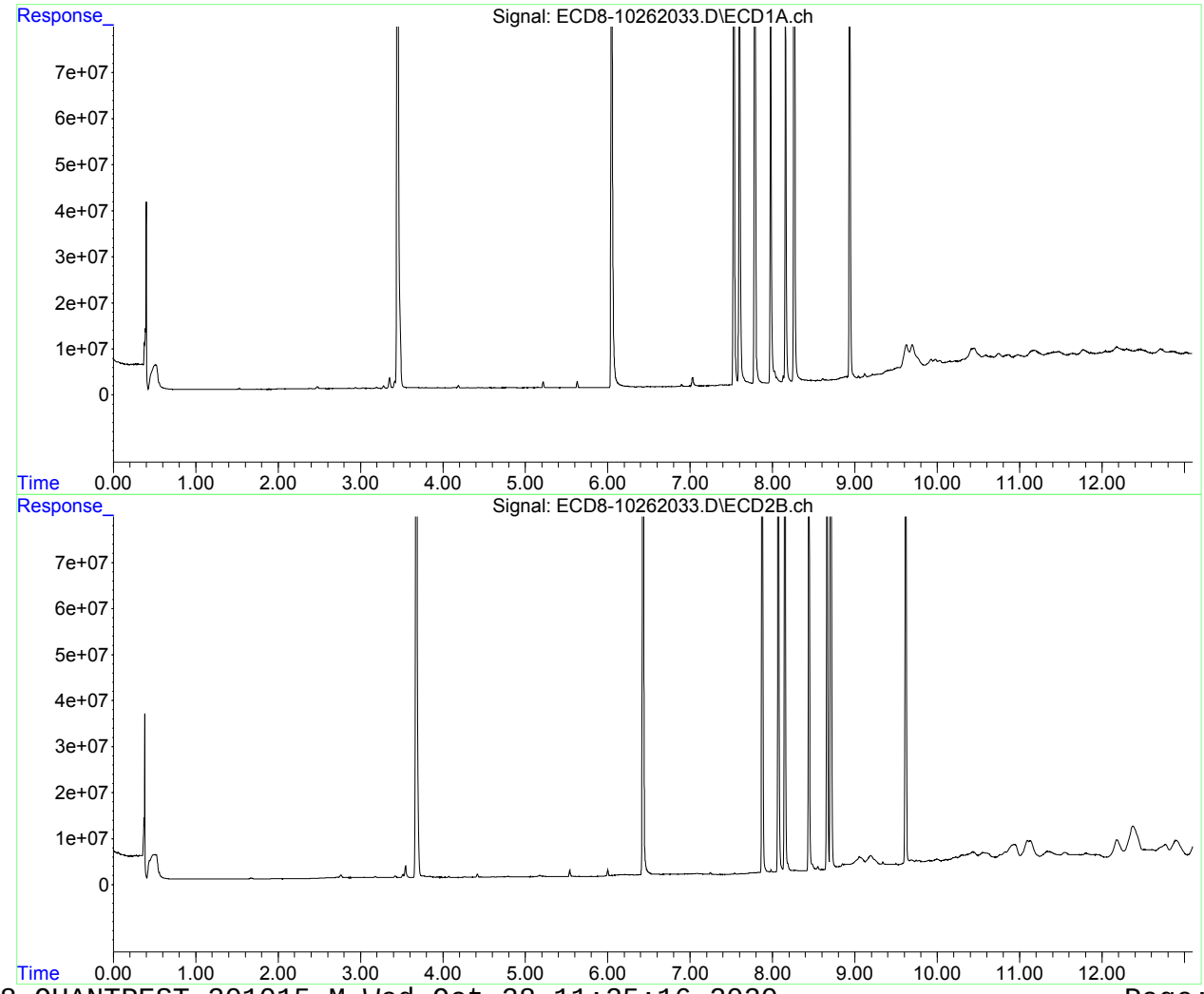
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 20:47
Operator : MJB
Sample : 0J26061-CCV7
Misc : A20I185, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:25:14 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



Quantitation Report (Not Reviewed) HML 10/28/20

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 21:04
Operator : MJB
Sample : 0J26061-CCB3
Misc : A20J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:26:02 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.660	5.964	322.9E6	393.3E6	91.297	98.293	
22)	S	DCBP (S)	9.881	10.474	239.5E6	248.1E6	95.315	102.547	
		Target Compounds							
2)		a-BHC	6.214	6.555	19496	102265	0.004	0.019	#
3)		g-BHC	6.492	6.871	81725	155922	0.020	0.034	#
4)		b-BHC	6.605f	6.942	20283	177044	0.013	0.090	#
5)		Heptachlor	6.894	0.000	34008	0	0.008	N.D.	#
6)		d-BHC	6.742	7.191	45473	107566	0.073	0.094	#
7)		Aldrin	7.151	7.509	47325	20446	0.012	0.005	#
8)		Heptachlo...	7.624	7.943	62143	9736	0.017	0.002	#
9)		trans-Chl...	7.689	8.105	96914	132335	0.026	0.033	#
10)		cis-Chlor...	7.801	8.217f	13754	102332	0.004	0.026	#
11)		Endosulfa...	7.903	8.243	9880	118040	0.003	0.033	#
12)		4,4'-DDE	7.857	8.295	17904	130527	0.006	0.086	#
13)		Dieldrin	8.058	8.444	14695	119494	0.004	0.048	#
14)		Endrin	8.270f	0.000	49389	0	0.018	N.D.	#
15)		4,4'-DDD	8.270	8.711	49389	382213	0.018	0.135	#
16)		Endosulfa...	8.409	8.779f	274500	355308	0.093	0.109	
17)		4,4'-DDT	8.500f	0.000	96808	0	0.071	N.D.	#
18)		Endrin Al...	8.703	9.063	123974	1651901	BelowCal	0.294	
19)		Endosulfa...	9.009	0.000	156994	0	0.053	N.D.	#
20)		Methoxychlor	0.000	9.412	0	598694	N.D.	0.376	#
21)		Endrin Ke...	9.218	9.630	358539	1051100	0.097	0.269	#
23)		Hexachlor...	0.000	3.691	0	45382	N.D.	BelowCal	
24)		Hexachlor...	6.048	6.426	612522	144226	0.183	0.036	#
25)		Oxychlordane	7.528	7.879	12690	32377	0.004	0.009	#

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 21:04
Operator : MJB
Sample : 0J26061-CCB3
Misc : A20J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:26:02 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.596	8.105f	9243	132335	0.004	0.055	#
27)	trans-Non...	7.787	8.144	20408	94207	0.006	0.024	#
28)	2,4'-DDD	7.957f	8.444	11954	119494	0.006	BelowCal	#
29)	2,4'-DDT	8.144	0.000	9509	0	0.004	N.D.	#
30)	cis-Nonac...	8.270	8.711	49389	382213	0.013	0.089	#
31)	Mirex	8.949	9.630	186538	1051100	BelowCal	0.101	
32)	Chlordane...	7.731	8.105	13941	132335	0.034	0.272	#
33)	Chlordane...	7.816	8.217	8643	102332	0.021	0.247	#
34)	Chlordane...	8.374	8.852	326161	916477	2.529	6.776	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.801	8.444	13754	119494	0.925	3.144	#
37)	Toxaphene...	8.119f	8.779	46515	355308	1.412	7.537	#
38)	Toxaphene...	8.409	8.852f	274500	916477	3.960	13.031	#
39)	Toxaphene...	8.656	8.852f	305998	916477	4.112	7.693	#
40)	Toxaphene...	8.897	9.072	192161	1644010	3.237	23.864	#
41)	Toxaphene...	8.961	9.438	192031	571036	2.852	7.626	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

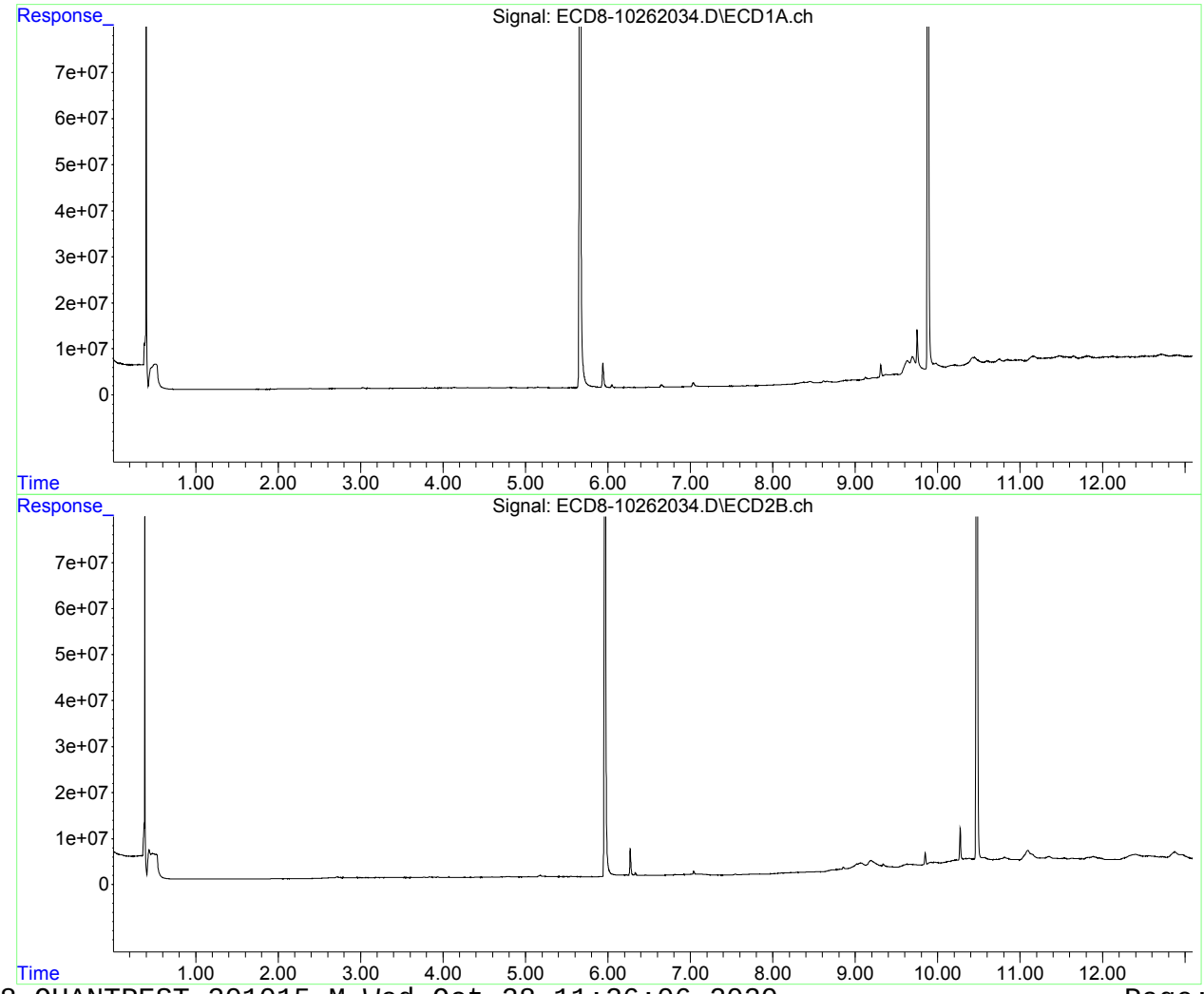
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\
Data File : ECD8-10262034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Oct 2020 21:04
Operator : MJB
Sample : 0J26061-CCB3
Misc : A20J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 28 11:26:02 2020
Quant Method : J:\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data

Sequence 0J27055 (A0J0371-07RE2,08RE2,09RE1,10RE1)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0J27055**	Instrument:	**DUALECD8**
Date:	**10/27/20 11:13**	Calibration:	**A0J2107**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J27055-BKD1	Water	QC	QC				A20H479
2	0J27055-CCV1	Water	QC	QC				A20H475
3	0J27055-CCV2	Water	QC	QC				A20I185
4	0J27055-CCB1	Water	QC	QC				A20J148
5	0100818-BLK1	Water	QC	QC		0100818		
6	0100818-BS1	Water	QC	QC		0100818		
7	0100818-BSD1	Water	QC	QC		0100818		
8	A0J0414-01RE1	Water	608.3 Pesticides (SW)		10/23/20	0100818		
9	A0J0371-07RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
10	0100834-MS2	Sediment	QC	QC		0100834		
11	0100834-MSD2	Sediment	QC	QC		0100834		
12	A0J0371-08RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
13	A0J0371-09RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
14	A0J0371-10RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
15	0J27055-CCV3	Water	QC	QC				A20H476
16	0J27055-CCV4	Water	QC	QC				A20I186
17	0J27055-CCB2	Water	QC	QC				A20J148

Comments: PARTIAL

Data Entered By/Date: MJB 10/27/20

Data Reviewed By/Date: MKZ 10/29/2020

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 11:56
Operator : MJB
Sample : 0J27055-BKD1
Misc : A20H479
ALS Vial : 2 Sample Multiplier: 1

MJB 10/27/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 12:11:52 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_2010015.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

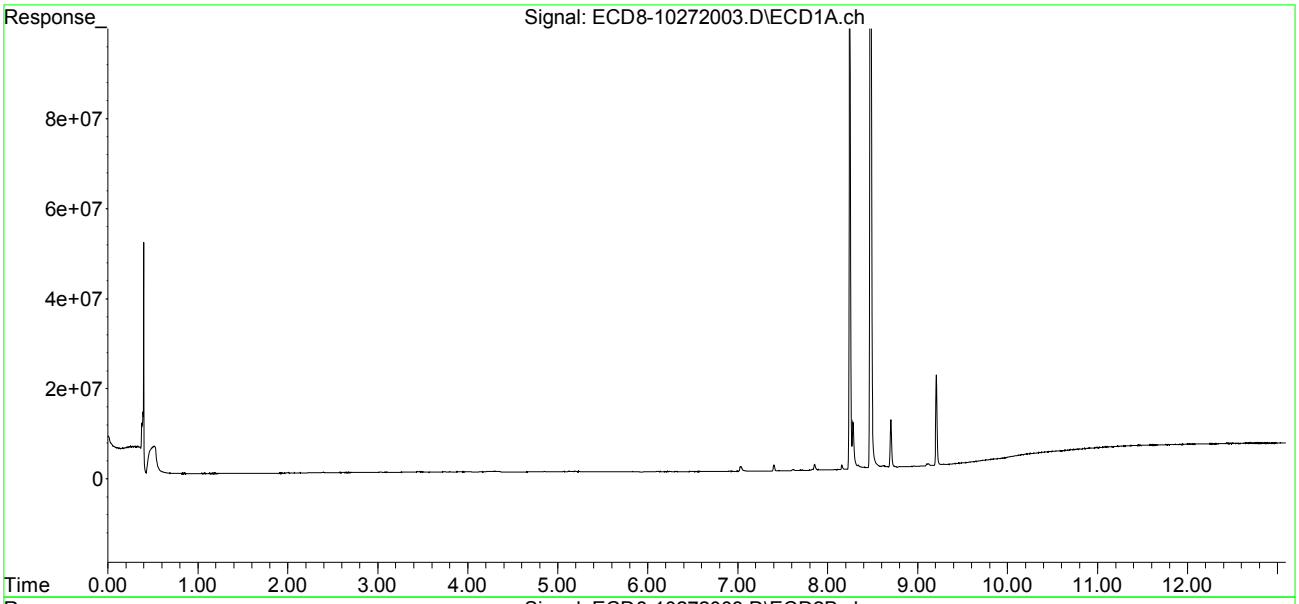
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.854	17721099	NoCal	ng/mL
2)	Endrin	8.246	1338978995	NoCal	ng/mL
3)	4,4'-DDD	8.281	144507438	NoCal	ng/mL
4)	4,4'-DDT	8.476	2779597203	NoCal	ng/mL
5)	Endrin Aldehyde	8.703	118525432	NoCal	ng/mL
6)	Endrin Ketone	9.208	214110583	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.294	13941829	NoCal	ng/mL
9)	Endrin [2C]	8.661	1396959719	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.707	135841907	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.042	104751061	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.930	2978050177	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.626	197971594	NoCal	ng/mL

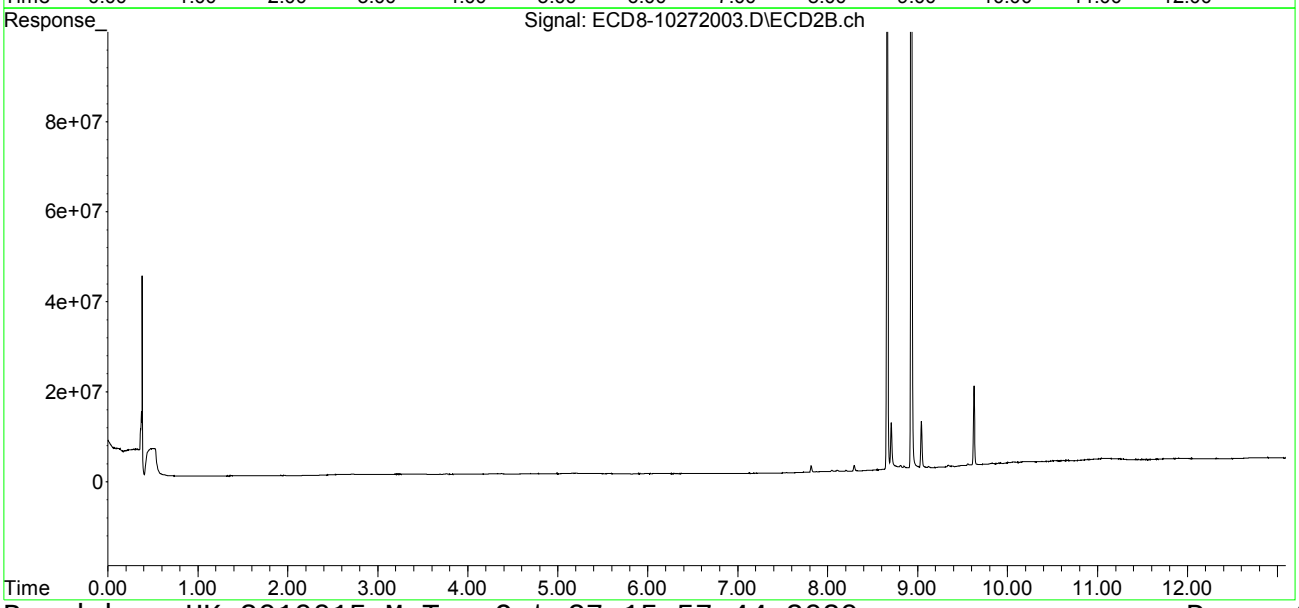
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 11:56
Operator : MJB
Sample : 0J27055-BKD1
Misc : A20H479
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 12:11:52 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_2010015.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 12:13
Operator : MJB
Sample : 0J27055-CCV1
Misc : A20H475, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

MJB 10/27/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:03:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Fri Oct 23 15:51:38 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.661	5.964	164.2E6	195.8E6	46.431	48.948	
22) S	DCBP (S)	9.880	10.473	123.7E6	119.6E6	49.369	49.424	
	Target Compounds							
2)	a-BHC	6.212	6.558	227.4E6	280.2E6	48.275	52.386	
3)	g-BHC	6.498	6.873	186.4E6	236.2E6	46.325	50.782	
4)	b-BHC	6.581	6.940	68111425	91196841	43.637	46.609	
5)	Heptachlor	6.897	7.246	193.0E6	227.7E6	47.563	49.751	
6)	d-BHC	6.735	7.189	156.6E6	210.3E6	47.053	47.815	
7)	Aldrin	7.139	7.509	191.5E6	218.6E6	48.745	51.198	
8)	Heptachlo...	7.608	7.944	173.1E6	204.8E6	47.359	50.993	
9)	trans-Chl...	7.701	8.083	176.2E6	198.2E6	47.852	49.803	
10)	cis-Chlor...	7.798	8.190	172.0E6	197.0E6	47.471	50.778	
11)	Endosulfa...	7.902	8.240	164.7E6	179.1E6	48.422	49.813	
12)	4,4'-DDE	7.852	8.293	160.8E6	195.6E6	51.041	51.992	
13)	Dieldrin	8.075	8.438	183.8E6	204.1E6	48.934	49.752	
14)	Endrin	8.245	8.661	135.3E6	147.5E6	49.345	51.192	
15)	4,4'-DDD	8.281	8.706	139.9E6	166.4E6	51.428	52.534	
16)	Endosulfa...	8.407	8.807	141.9E6	162.0E6	48.192	49.769	
17)	4,4'-DDT	8.476	8.930	130.9E6	148.7E6	48.071	48.607	
18)	Endrin Al...	8.701	9.042	129.0E6	149.2E6	45.156	48.990	
19)	Endosulfa...	9.007	9.236	138.0E6	161.9E6	46.175	48.725	
20)	Methoxychlor	8.809	9.396	66359420	77550724	48.206	50.497	
21)	Endrin Ke...	9.209	9.626	177.4E6	194.8E6	47.969	49.866	
23)	Hexachlor...	0.000	3.690	0	43902	N.D.	BelowCal	
24)	Hexachlor...	6.049	6.429	326691	12619	0.098	0.003	#
25)	Oxychlordane	7.542	7.860f	785972	75711	0.243	0.022	#
26)	2,4'-DDE	7.608	8.083	173.1E6	198.2E6	81.406	81.687	
27)	trans-Non...	7.798	8.148	172.0E6	645541	47.589	0.164	#
28)	2,4'-DDD	8.023f	8.438	319087	204.1E6	0.166	91.720	#
29)	2,4'-DDT	8.157	8.661	566012	147.5E6	0.264	63.295	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 12:13
Operator : MJB
Sample : 0J27055-CCV1
Misc : A20H475, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:03:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Fri Oct 23 15:51:38 2020
Response via : Initial Calibration
Integrator: ChemStation

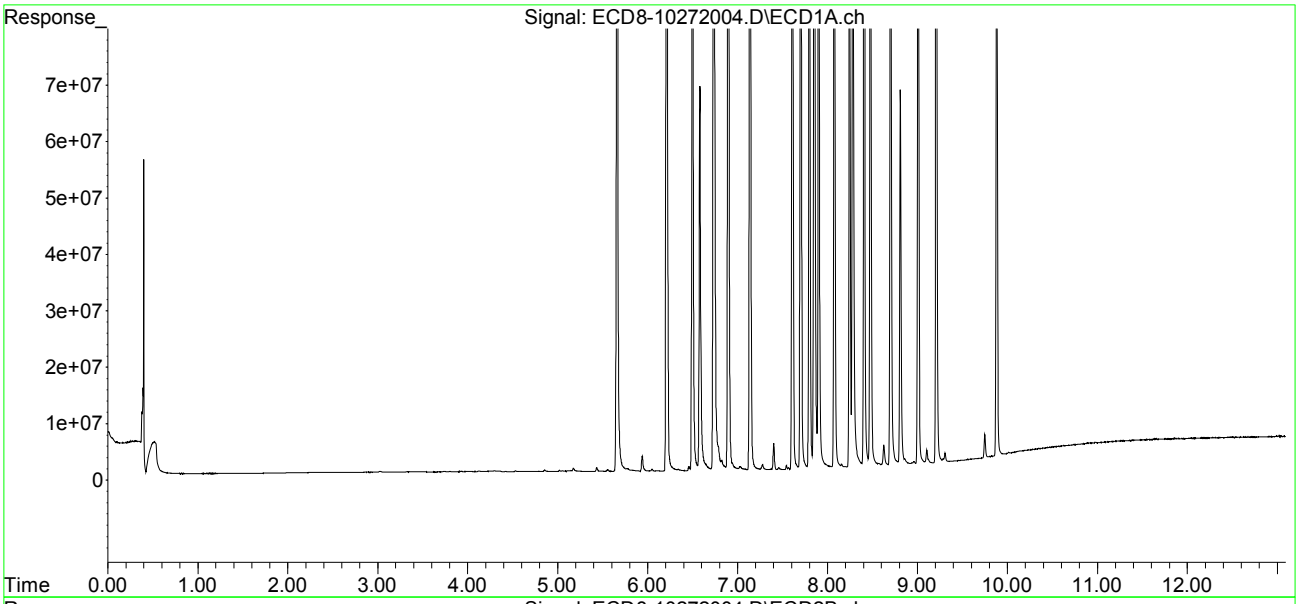
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.281	8.706	139.9E6	166.4E6	35.467	38.908	
31)	Mirex	8.941	9.626	199655	194.8E6	BelowCal	77.934	
32)	Chlordane...	7.701f	8.083f	176.2E6	198.2E6	427.778	406.914	
33)	Chlordane...	7.798f	8.240f	172.0E6	179.1E6	410.227	432.721	
34)	Chlordane...	8.407f	8.882	141.9E6	990598	1100.732	7.324	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.798	8.438	172.0E6	204.1E6	11558.323	5369.695	#
37)	Toxaphene...	8.075f	8.807	183.8E6	162.0E6	5581.180	3437.235	#
38)	Toxaphene...	8.407	8.807	141.9E6	162.0E6	2047.597	2303.998	
39)	Toxaphene...	8.626f	8.882	3522423	990598	47.331	8.315	#
40)	Toxaphene...	8.858f	9.042f	908551	149.2E6	15.305	2165.378	#
41)	Toxaphene...	8.961	9.480f	407864	822407	6.058	10.983	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

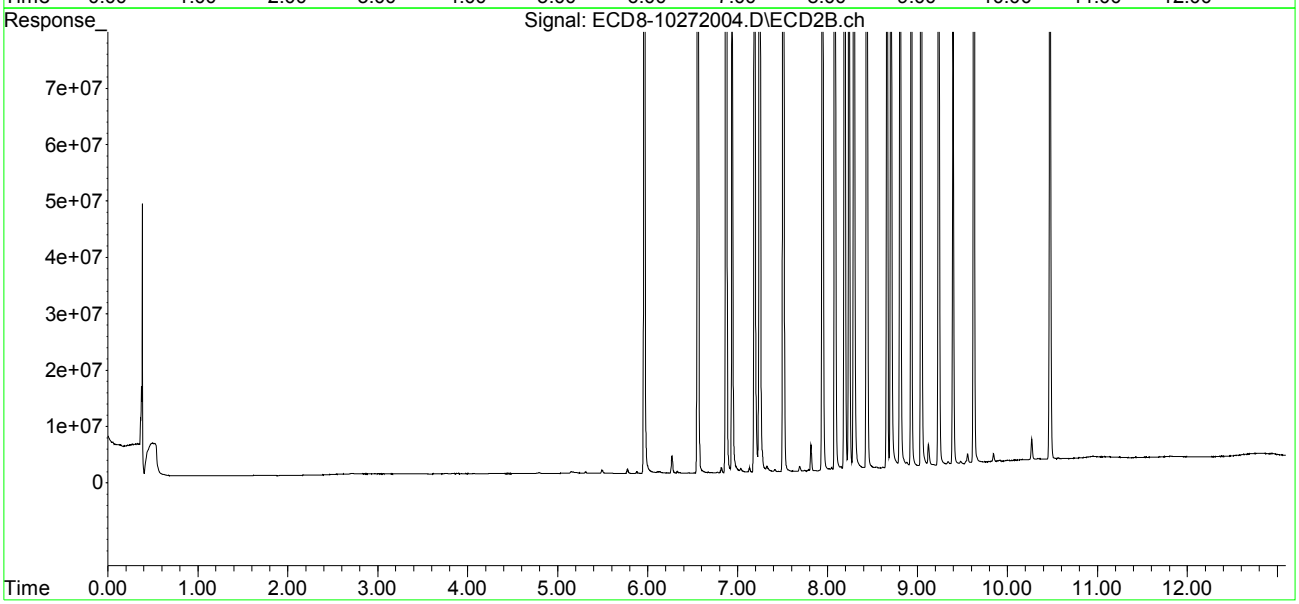
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 12:13
Operator : MJB
Sample : 0J27055-CCV1
Misc : A20H475, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:03:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Fri Oct 23 15:51:38 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 12:29
Operator : MJB
Sample : 0J27055-CCV2
Misc : A20I185, 9-42 50 ppb MJB 10/27/20
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:05:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.631f	5.957	1316325	92822	0.372	0.023	#
22) S	DCBP (S)	9.903	10.503	565055	584721	BelowCal	0.242	
	Target Compounds							
2)	a-BHC	6.240	6.554	343317	354164	0.073	0.066	
3)	g-BHC	6.533f	6.872	91632	72786	0.023	0.016	#
4)	b-BHC	6.591	6.946	89059	105999	0.057	0.054	
5)	Heptachlor	6.895	7.245	412126	457528	0.102	0.100	
6)	d-BHC	6.737	7.192	76115	91165	0.083	0.090	
7)	Aldrin	7.137	7.510	38158	28960	0.010	0.007	#
8)	Heptachlo...	7.599	7.980f	99194693	472959	27.132	0.118	#
9)	trans-Chl...	7.681f	8.070f	809431	121.4E6	0.220	30.492	#
10)	cis-Chlor...	7.784f	0.000	165.5E6	0	45.699	N.D.	#
11)	Endosulfa...	7.889f	8.254	372336	253201	0.109	0.070	#
12)	4,4'-DDE	7.889f	8.298	372336	267024	0.118	0.126	
13)	Dieldrin	8.050f	8.441	1317014	108.0E6	0.351	27.179	#
14)	Endrin	8.262	8.662	180.3E6	115.9E6	65.738	41.080	#
15)	4,4'-DDD	8.262f	8.707	180.3E6	203.2E6	66.286	62.915	
16)	Endosulfa...	8.412	8.806	175476	249124	0.060	0.077	#
17)	4,4'-DDT	8.476	8.918	107484	222431	0.075	0.146	#
18)	Endrin Al...	8.702	9.049	95459	205896	BelowCal	BelowCal	
19)	Endosulfa...	9.040f	9.235	563194	59034	0.188	0.018	#
20)	Methoxychlor	8.806	9.422	26657	94763	0.019	0.016	
21)	Endrin Ke...	9.216	9.615f	50756	123.3E6	0.014	31.560	#
23)	Hexachlor...	3.451	3.677	174.3E6	208.9E6	53.649	53.038	
24)	Hexachlor...	6.048	6.427	140.3E6	179.2E6	41.935	45.024	
25)	Oxychlordane	7.530	7.875	147.8E6	168.2E6	45.776	47.788	
26)	2,4'-DDE	7.599	8.070	99194693	121.4E6	46.638	50.013	
27)	trans-Non...	7.784	8.149	165.5E6	186.0E6	45.812	47.180	
28)	2,4'-DDD	7.978	8.441	89930604	108.0E6	46.805	50.787	
29)	2,4'-DDT	8.157	8.662	100.7E6	115.9E6	46.914	50.899	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 12:29
Operator : MJB
Sample : 0J27055-CCV2
Misc : A20I185, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:05:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

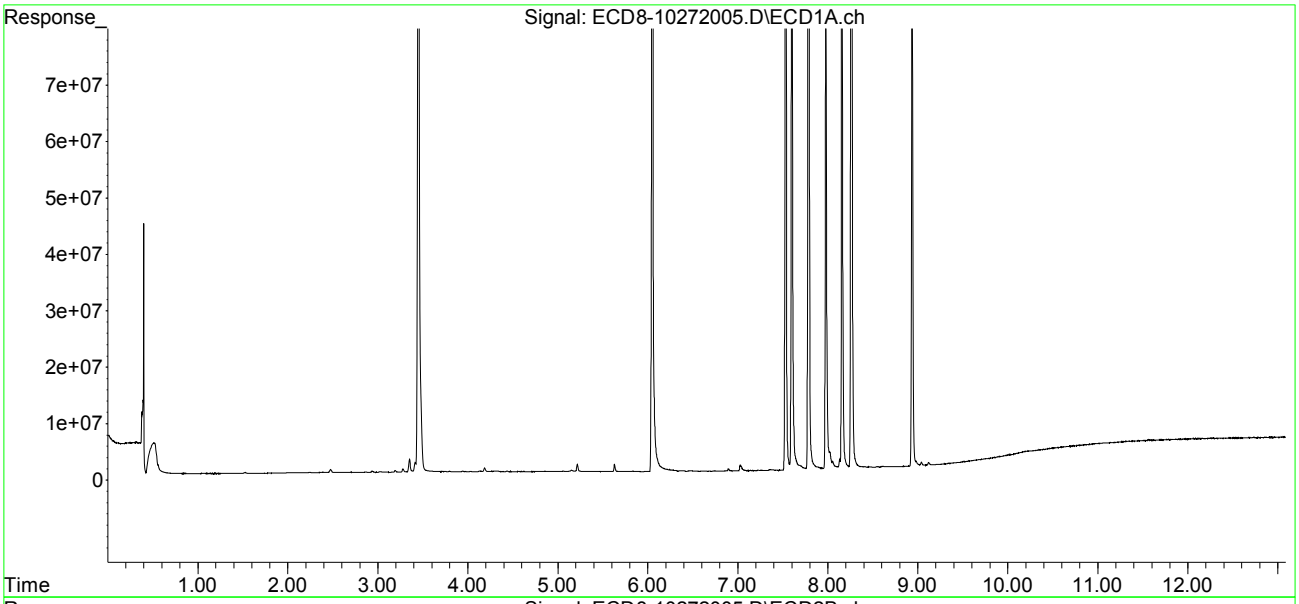
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.262	8.707	180.3E6	203.2E6	45.714	47.504	
31)	Mirex	8.936	9.615	117.2E6	123.3E6	49.732	50.139	
32)	Chlordane...	0.000	8.070f	0	121.4E6	N.D.	249.133	#
33)	Chlordane...	7.784f	8.254f	165.5E6	253201	394.914	0.612	#
34)	Chlordane...	8.412f	8.851	175476	439832	1.361	3.252	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.784	8.441	165.5E6	108.0E6	11126.881	2841.415	#
37)	Toxaphene...	8.130f	8.806	1611008	249124	48.909	5.284	#
38)	Toxaphene...	8.412	8.806	175476	249124	2.531	3.542	#
39)	Toxaphene...	8.654	8.892	106635	227917	1.433	1.913	#
40)	Toxaphene...	8.897	9.080	13770	29069	0.232	0.422	#
41)	Toxaphene...	8.936f	9.450	117.2E6	102038	1741.508	1.363	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

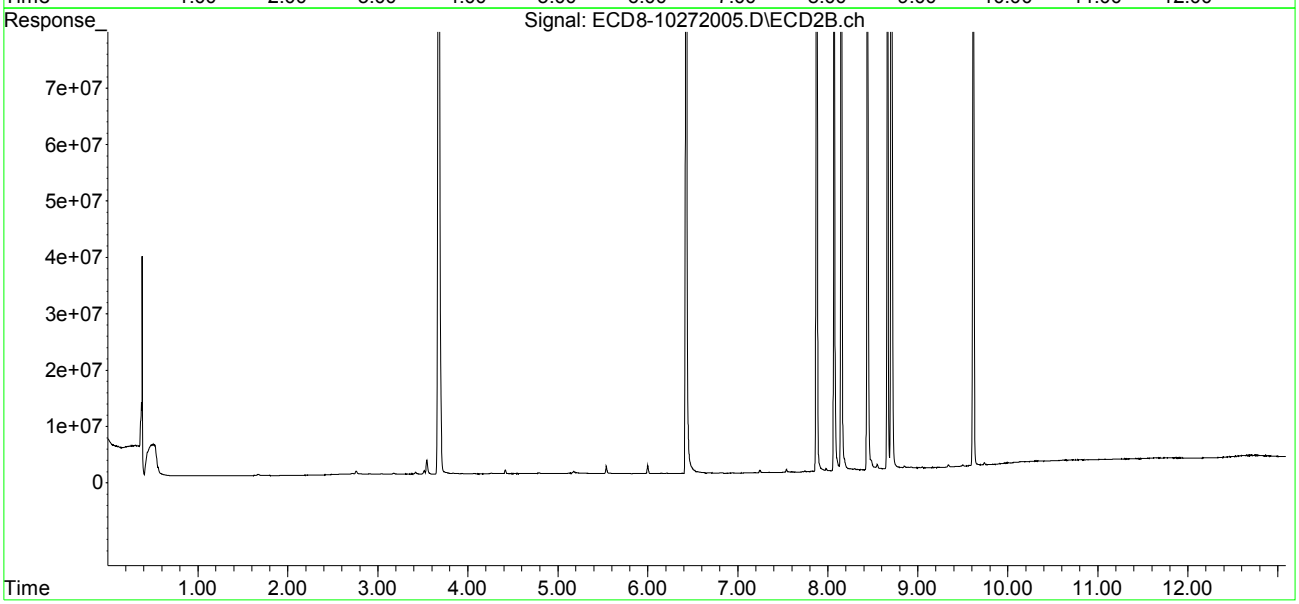
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 12:29
Operator : MJB
Sample : 0J27055-CCV2
Misc : A20I185, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:05:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 12:46
Operator : MJB
Sample : 0J27055-CCB1
Misc : A2J148
ALS Vial : 7 Sample Multiplier: 1

MJB 10/27/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:06:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.661	5.964	299.9E6	374.0E6	84.797	93.480	
22) S	DCBP (S)	9.881	10.474	228.7E6	225.8E6	91.048	93.344	
	Target Compounds							
2)	a-BHC	6.192f	6.534f	53465	57669	0.011	0.011	
3)	g-BHC	6.505	6.898	21673	8926	0.005	0.002	#
4)	b-BHC	6.623f	6.946	18884	12111	0.012	0.006	#
5)	Heptachlor	6.882f	7.252	9159	8523	0.002	0.002	
6)	d-BHC	6.750	7.195	17286	30927	0.064	0.075	
7)	Aldrin	7.135	7.544f	20727	253740	0.005	0.059	#
8)	Heptachlo...	7.631	7.939	41023	25173	0.011	0.006	#
9)	trans-Chl...	7.693	8.110	125417	221203	0.034	0.056	#
10)	cis-Chlor...	7.797	8.189	5874	33740	0.002	0.009	#
11)	Endosulfa...	7.908	0.000	32008	0	0.009	N.D.	#
12)	4,4'-DDE	7.841	8.293	129413	16210	0.041	0.052	#
13)	Dieldrin	8.085	0.000	9253	0	0.002	N.D.	#
14)	Endrin	8.281f	8.672	38715	52440	0.014	0.047	#
15)	4,4'-DDD	8.281	8.715	38715	66827	0.014	0.025	#
16)	Endosulfa...	8.441f	8.826	413397	73313	0.140	0.023	#
17)	4,4'-DDT	8.446f	8.948	409685	134405	0.196	0.113	#
18)	Endrin Al...	8.706	9.018f	67163	360974	BelowCal	BelowCal	
19)	Endosulfa...	9.015	9.238	29383	96412	0.010	0.029	#
20)	Methoxychlor	8.827	9.396	34572	98577	0.025	0.019	
21)	Endrin Ke...	9.219	9.633	20024	211546	0.005	0.054	#
23)	Hexachlor...	0.000	3.694	0	44702	N.D.	BelowCal	
24)	Hexachlor...	6.048	6.426	584152	80078	0.175	0.020	#
25)	Oxychlordane	7.546	0.000	8074	0	0.003	N.D.	#
26)	2,4'-DDE	7.599	8.110f	7183	221203	0.003	0.091	#
27)	trans-Non...	7.797	8.189f	5874	33740	0.002	0.009	#
28)	2,4'-DDD	7.982	0.000	11873	0	0.006	N.D.	#
29)	2,4'-DDT	8.154	8.672	16226	52440	0.008	BelowCal	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 12:46
Operator : MJB
Sample : 0J27055-CCB1
Misc : A2J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:06:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

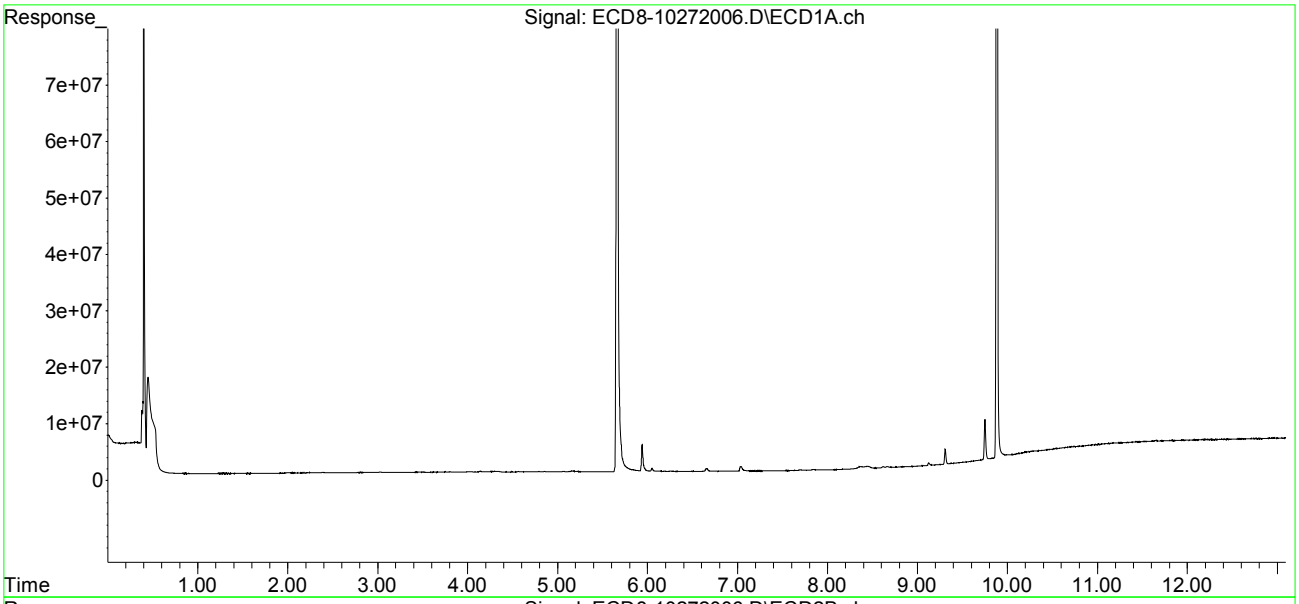
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.281	8.715	38715	66827	0.010	0.016	#
31)	Mirex	8.946	9.633	15806	211546	BelowCal	BelowCal	
32)	Chlordane...	7.741	8.110	12334	221203	0.030	0.454	#
33)	Chlordane...	7.797f	8.189f	5874	33740	0.014	0.081	#
34)	Chlordane...	8.379	8.856	333277	316416	2.584	2.339	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.797	0.000	5874	0	0.395	N.D.	#
37)	Toxaphene...	8.099	8.786	5307	59681	0.161	1.266	#
38)	Toxaphene...	8.441f	8.826	413397	73313	5.963	1.042	#
39)	Toxaphene...	8.658	8.856f	219963	316416	2.956	2.656	
40)	Toxaphene...	8.863f	0.000	7117	0	0.120	N.D.	#
41)	Toxaphene...	8.965	0.000	14278	0	0.212	N.D.	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

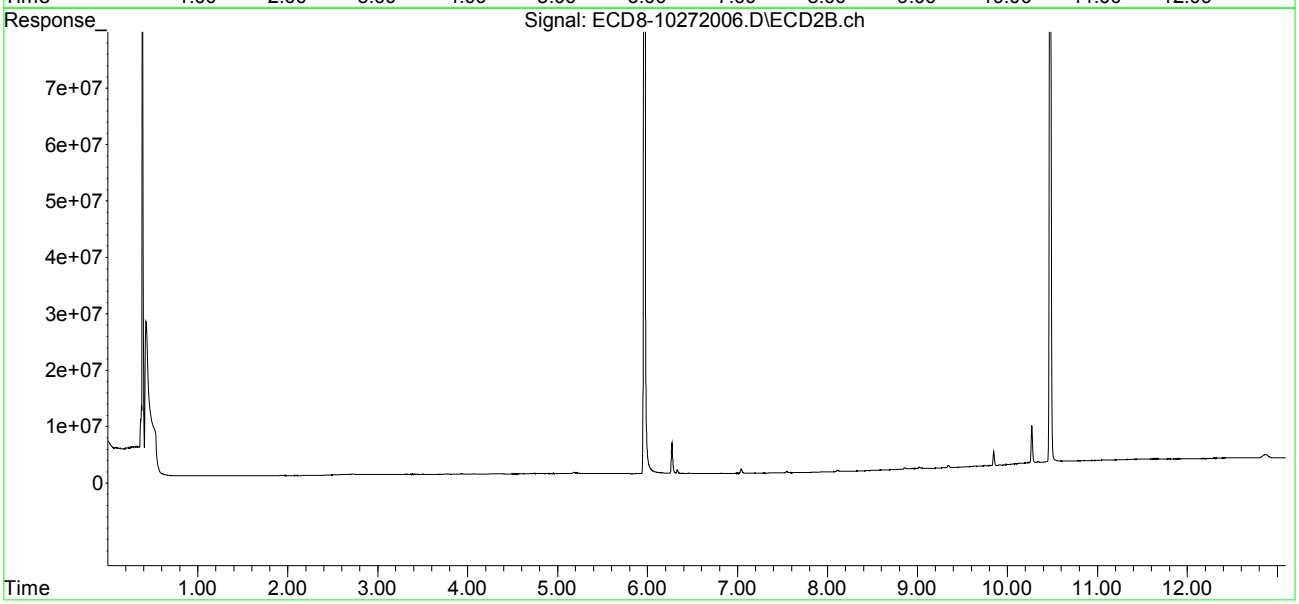
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 12:46
Operator : MJB
Sample : 0J27055-CCB1
Misc : A2J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:06:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:09
Operator : MJB
Sample : A0J0371-07RE2 MJB 10/27/20
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:15:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL		
	System Monitoring Compounds								
1) S	TCMX (S)	5.659	5.963	98633041	94836441	27.891	23.704		
22) S	DCBP (S)	9.879	10.473	87370324	79628472	34.851	32.914		
	Target Compounds								
2)	a-BHC	6.218	6.569	1458716	1445244	0.310	0.270		
3)	g-BHC	6.494	6.908f	2178080	3707128	0.541	0.797	#	
4)	b-BHC	6.582	6.942	4707477	1705077	3.016	0.871	#	
5)	Heptachlor	6.882f	7.259	1856889	4539615	0.458	0.992	#	
6)	d-BHC	6.761	7.209	1142737	2573841	0.430	0.705	#	
7)	Aldrin	7.159	7.535	1513020	1303160	0.385	0.305		
8)	Heptachlo...	7.634	7.978f	1309268	2689618	0.358	0.670	#	
9)	trans-Chl...	7.714	8.086	1136083	2627430	0.308	0.660	#	
10)	cis-Chlor...	7.831f	8.208	4806031	5099213	1.327	1.314		
11)	Endosulfa...	7.911	8.256	1118665	1578936	0.329	0.439	#	
12)	4,4'-DDE	7.831f	8.291	4806031	2705349	1.525	0.846	#	
13)	Dieldrin	8.069	8.418f	500817	4705269	0.133	1.245	#	
14)	Endrin	8.253	8.674	498321	1083644	0.182	0.445	#	
15)	4,4'-DDD	8.280	8.703	5030785	3316848	1.850	1.160	#	P-11
16)	Endosulfa...	8.412	8.818	466242	1064481	0.158	0.327	#	
17)	4,4'-DDT	8.471	8.928	763108	1411231	0.338	0.586	#	
18)	Endrin Al...	8.700	9.072f	586448	1388746	BelowCal	0.204		
19)	Endosulfa...	9.006	9.245	1243496	1496516	0.416	0.450		
20)	Methoxychlor	8.808	9.412	644658	1395262	0.468	0.943	#	
21)	Endrin Ke...	9.240f	9.621	244463	2114055	0.066	0.541	#	
23)	Hexachlor...	3.453	3.711f	711517	850802	0.009	0.045	#	
24)	Hexachlor...	6.046	6.443	1637566	39017453	0.490	9.803	#	
25)	Oxychlordane	7.534	7.896	2982530	2436031	0.924	0.692	#	
26)	2,4'-DDE	7.596	8.086	1474209	2627430	0.693	1.083	#	P-01
27)	trans-Non...	7.831f	8.140	4806031	2281799	1.330	0.579	#	
28)	2,4'-DDD	7.971	8.432	1694900	2208966	0.882	0.930m		
29)	2,4'-DDT	8.158	8.674	776013	1083644	0.362	0.379		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:09
Operator : MJB
Sample : A0J0371-07RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:15:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

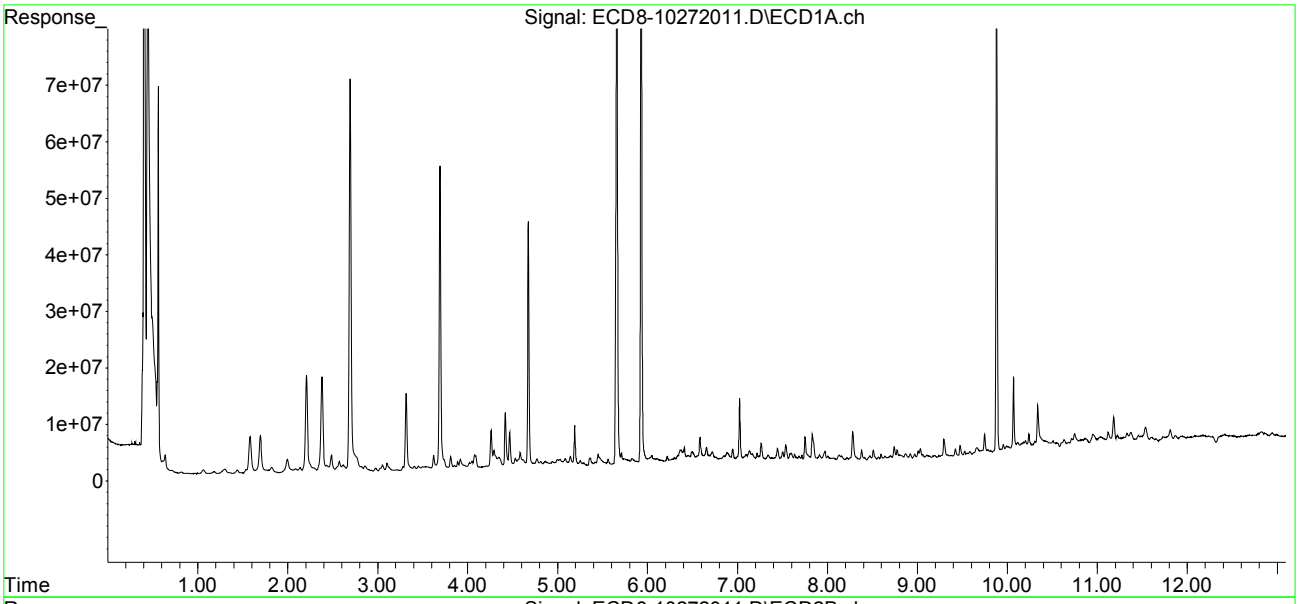
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.280	8.729	5030785	1086309	1.276	0.254	#
31)	Mirex	8.970f	9.621	700374	2114055	BelowCal	0.551	
32)	Chlordane...	7.714	8.086f	1136083	2627430	2.758	5.394	#
33)	Chlordane...	7.831	8.208	4806031	5099213	11.466	12.317	
34)	Chlordane...	8.379	8.893f	1792167	959303	13.897	7.093	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.831f	8.418f	4806031	4705269	323.056	123.805	#
37)	Toxaphene...	8.128f	8.791	981145	1055655	29.787	22.392	
38)	Toxaphene...	8.412	8.818	466242	1064481	6.726	15.135	#
39)	Toxaphene...	8.638	8.893	582278	959303	7.824	8.052	
40)	Toxaphene...	8.919f	9.072	761888	1388746	12.834	20.159	#
41)	Toxaphene...	8.970	9.437	700374	2352636	10.403	31.418	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

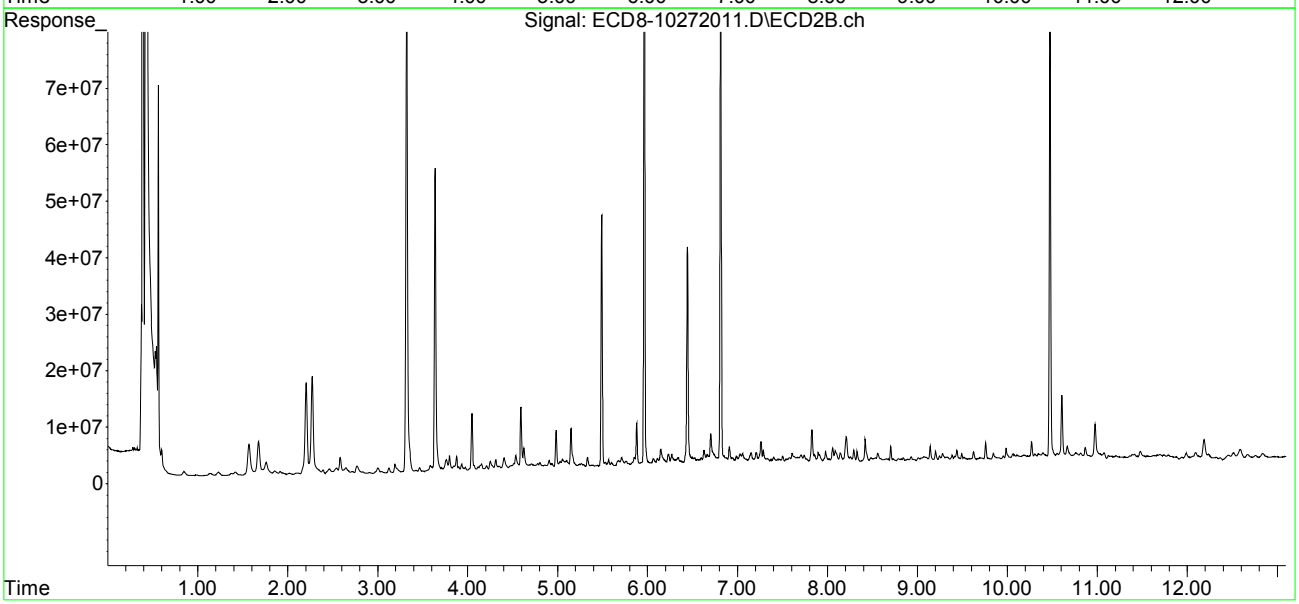
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:09
Operator : MJB
Sample : A0J0371-07RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:15:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

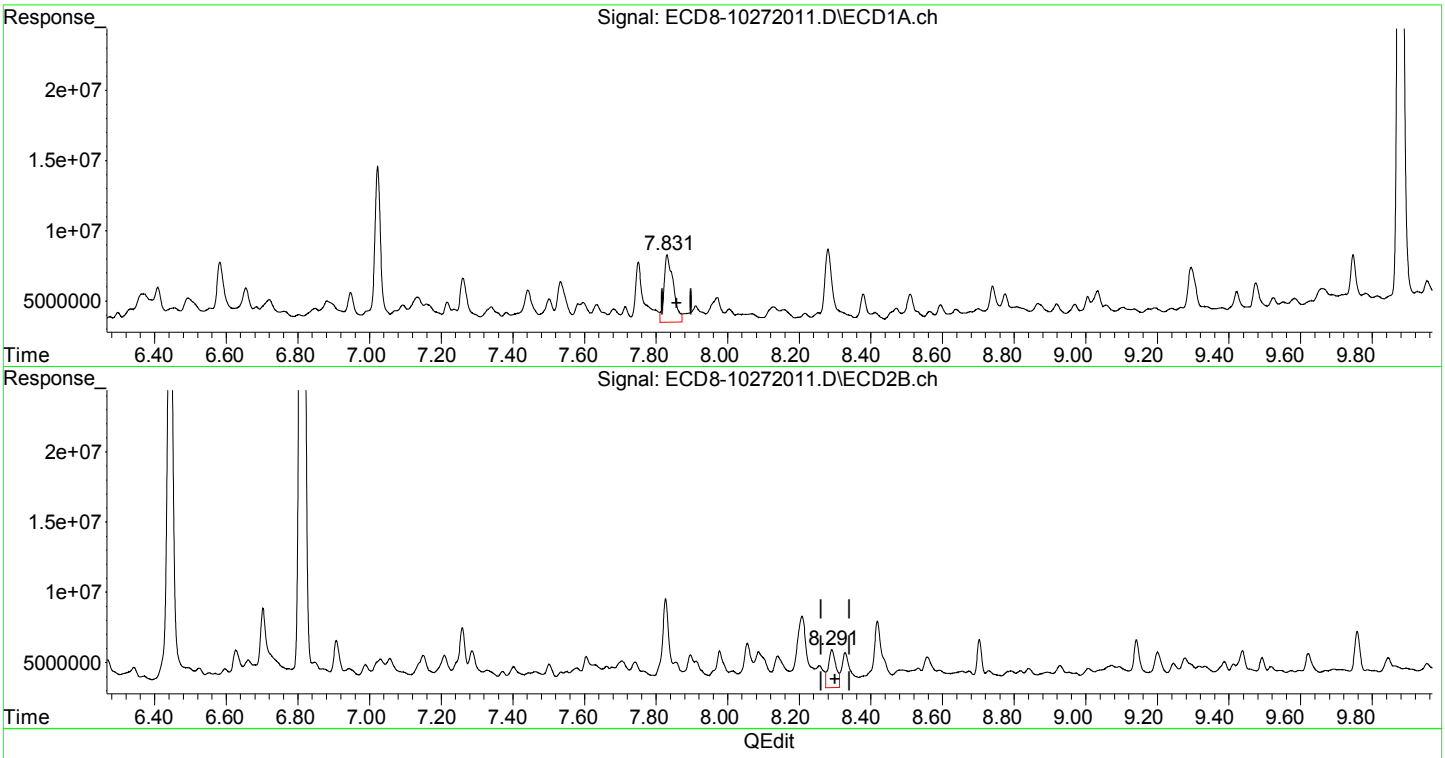




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:09
Operator : MJB
Sample : A0J0371-07RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:15:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(12) 4,4'-DDE
7.831min 1.525 ng/mL
response 4806031

MJB 10/27/20

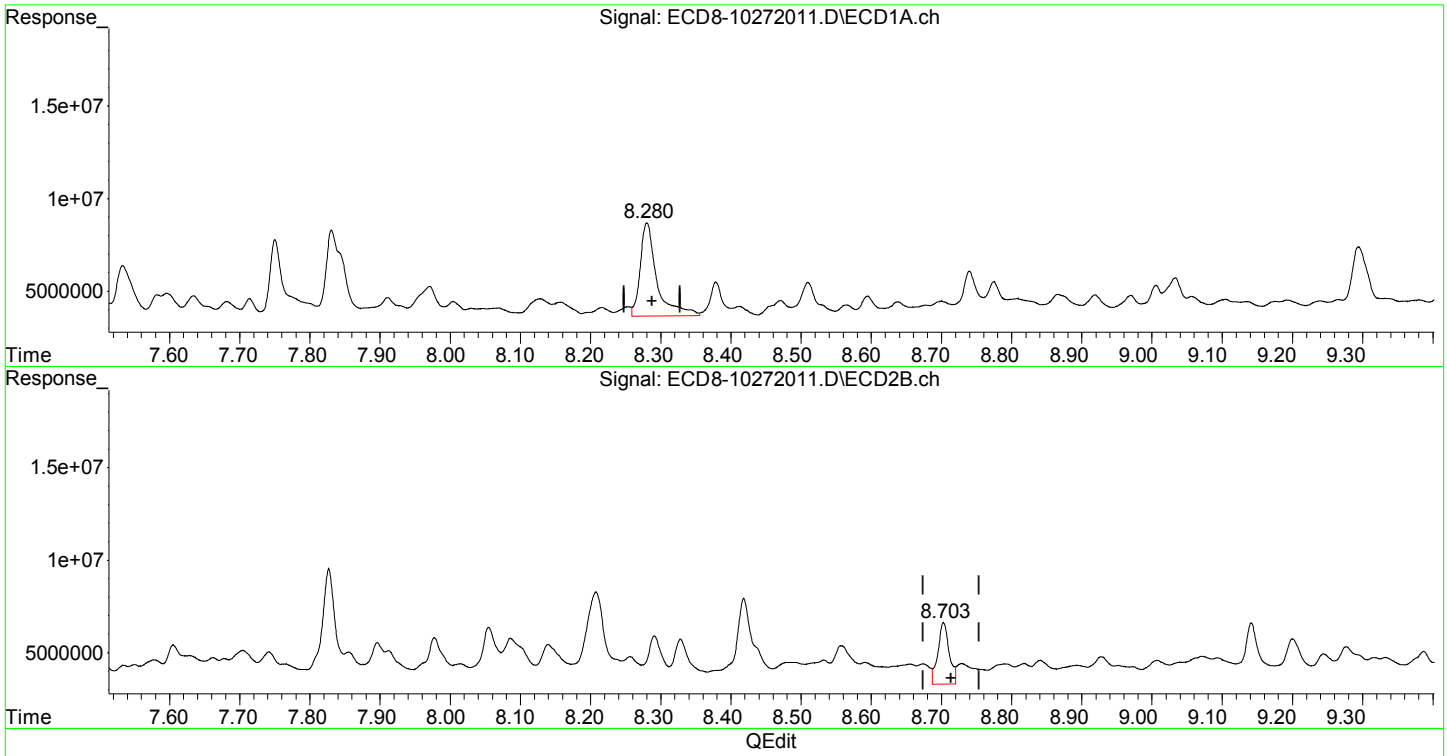
(12) 4,4'-DDE #2
8.291min 0.846 ng/mL
response 2705349

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:09
Operator : MJB
Sample : A0J0371-07RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:15:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(15) 4,4'-DDD
8.280min 1.850 ng/mL
response 5030785

MJB 10/27/20

P-11

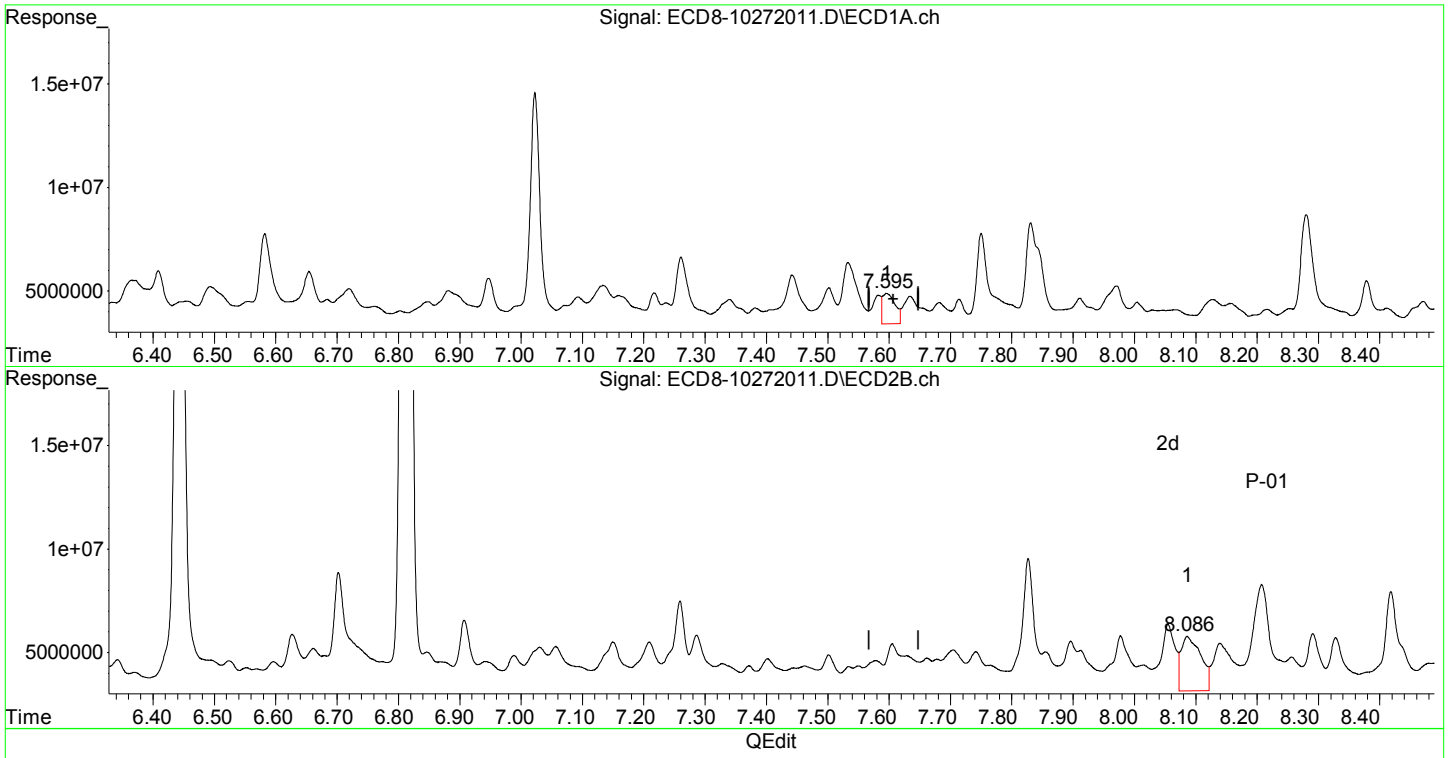
(15) 4,4'-DDD #2
8.703min 1.160 ng/mL
response 3316848

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:09
Operator : MJB
Sample : A0J0371-07RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:15:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE
7.596min 0.693 ng/mL
response 1474209

MJB 10/27/20

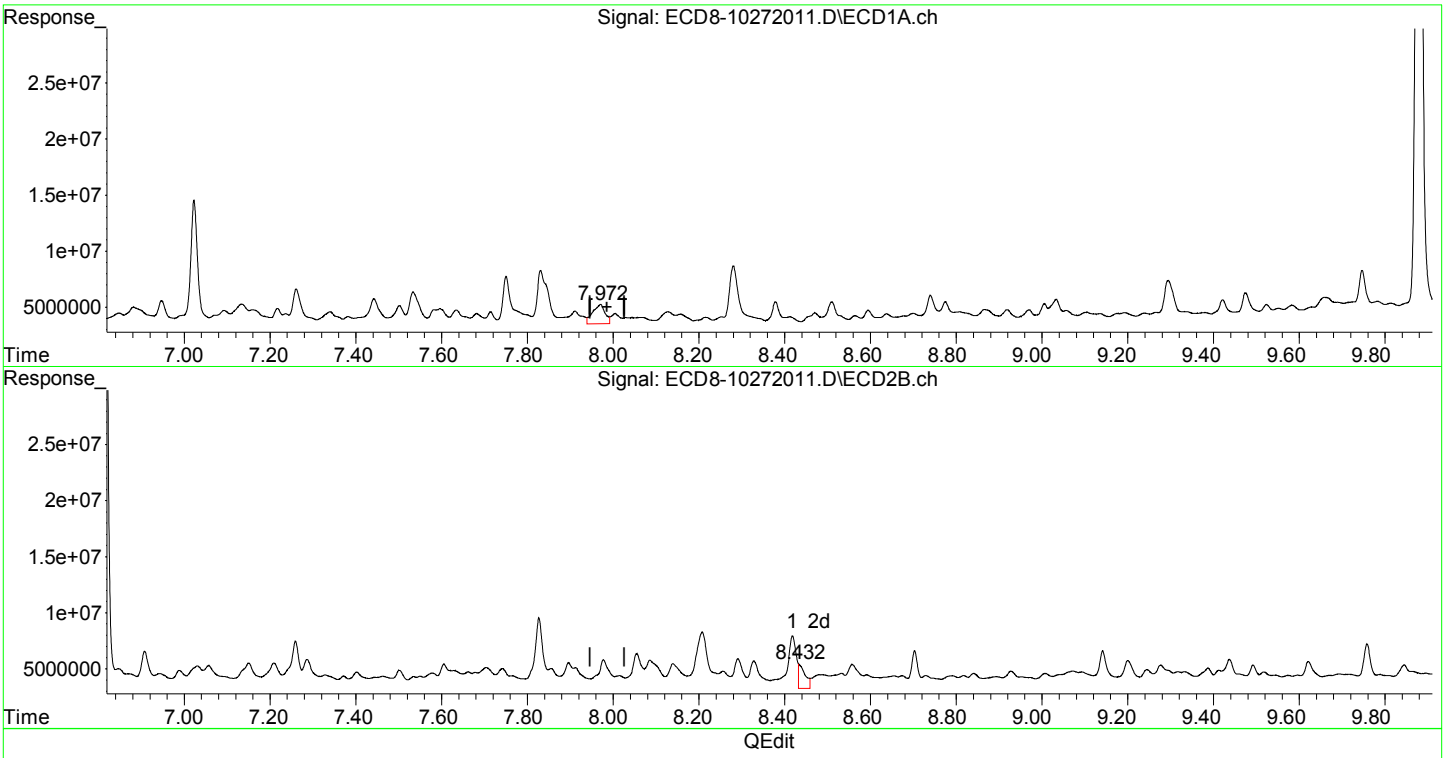
(26) 2,4'-DDE #2
8.086min 1.083 ng/mL
response 2627430

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:09
Operator : MJB
Sample : A0J0371-07RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:15:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD
7.971min 0.882 ng/mL
response 1694900

MJB 10/27/20

(28) 2,4'-DDD #2
8.432min 0.930 ng/mL m
response 2208966

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

MI

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:09
Operator : MJB
Sample : A0J0371-07RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 Sample Multiplier: 1

MJB 10/27/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:15:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.659	5.963	98633041	94836441	27.891	23.704	
22) S	DCBP (S)	9.879	10.473	87370324	79628472	34.851	32.914	
	Target Compounds							
2)	a-BHC	6.218	6.569	1458716	1445244	0.310	0.270	
3)	g-BHC	6.494	6.908f	2178080	3707128	0.541	0.797	#
4)	b-BHC	6.582	6.942	4707477	1705077	3.016	0.871	#
5)	Heptachlor	6.882f	7.259	1856889	4539615	0.458	0.992	#
6)	d-BHC	6.761	7.209	1142737	2573841	0.430	0.705	#
7)	Aldrin	7.159	7.535	1513020	1303160	0.385	0.305	
8)	Heptachlo...	7.634	7.978f	1309268	2689618	0.358	0.670	#
9)	trans-Chl...	7.714	8.086	1136083	2627430	0.308	0.660	#
10)	cis-Chlor...	7.831f	8.208	4806031	5099213	1.327	1.314	
11)	Endosulfa...	7.911	8.256	1118665	1578936	0.329	0.439	#
12)	4,4'-DDE	7.831f	8.291	4806031	2705349	1.525	0.846	#
13)	Dieldrin	8.069	8.418f	500817	4705269	0.133	1.245	#
14)	Endrin	8.253	8.674	498321	1083644	0.182	0.445	#
15)	4,4'-DDD	8.280	8.703	5030785	3316848	1.850	1.160	#
16)	Endosulfa...	8.412	8.818	466242	1064481	0.158	0.327	#
17)	4,4'-DDT	8.471	8.928	763108	1411231	0.338	0.586	#
18)	Endrin Al...	8.700	9.072f	586448	1388746	BelowCal	0.204	
19)	Endosulfa...	9.006	9.245	1243496	1496516	0.416	0.450	
20)	Methoxychlor	8.808	9.412	644658	1395262	0.468	0.943	#
21)	Endrin Ke...	9.240f	9.621	244463	2114055	0.066	0.541	#
23)	Hexachlor...	3.453	3.711f	711517	850802	0.009	0.045	#
24)	Hexachlor...	6.046	6.443	1637566	39017453	0.490	9.803	#
25)	Oxychlordane	7.534	7.896	2982530	2436031	0.924	0.692	#
26)	2,4'-DDE	7.596	8.086	1474209	2627430	0.693	1.083	#
27)	trans-Non...	7.831f	8.140	4806031	2281799	1.330	0.579	#
28)	2,4'-DDD	7.971	8.418f	1694900	4705269	0.882	2.178	#
29)	2,4'-DDT	8.158	8.674	776013	1083644	0.362	0.379	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:09
Operator : MJB
Sample : A0J0371-07RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:15:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

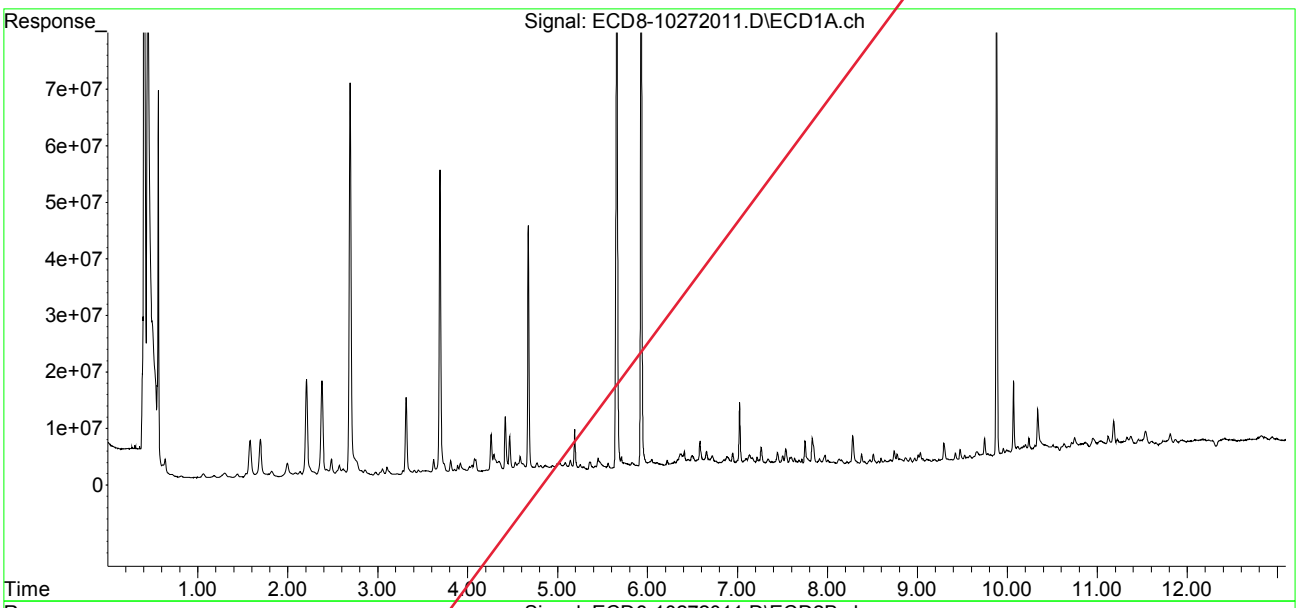
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.280	8.729	5030785	1086309	1.276	0.254	#
31)	Mirex	8.970f	9.621	700374	2114055	BelowCal	0.551	
32)	Chlordane...	7.714	8.086f	1136083	2627430	2.758	5.394	#
33)	Chlordane...	7.831	8.208	4806031	5099213	11.466	12.317	
34)	Chlordane...	8.379	8.893f	1792167	959303	13.897	7.093	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.831f	8.418f	4806031	4705269	323.056	123.805	#
37)	Toxaphene...	8.128f	8.791	981145	1055655	29.787	22.392	
38)	Toxaphene...	8.412	8.818	466242	1064481	6.726	15.135	#
39)	Toxaphene...	8.638	8.893	582278	959303	7.824	8.052	
40)	Toxaphene...	8.919f	9.072	761888	1388746	12.834	20.159	#
41)	Toxaphene...	8.970	9.437	700374	2352636	10.403	31.418	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

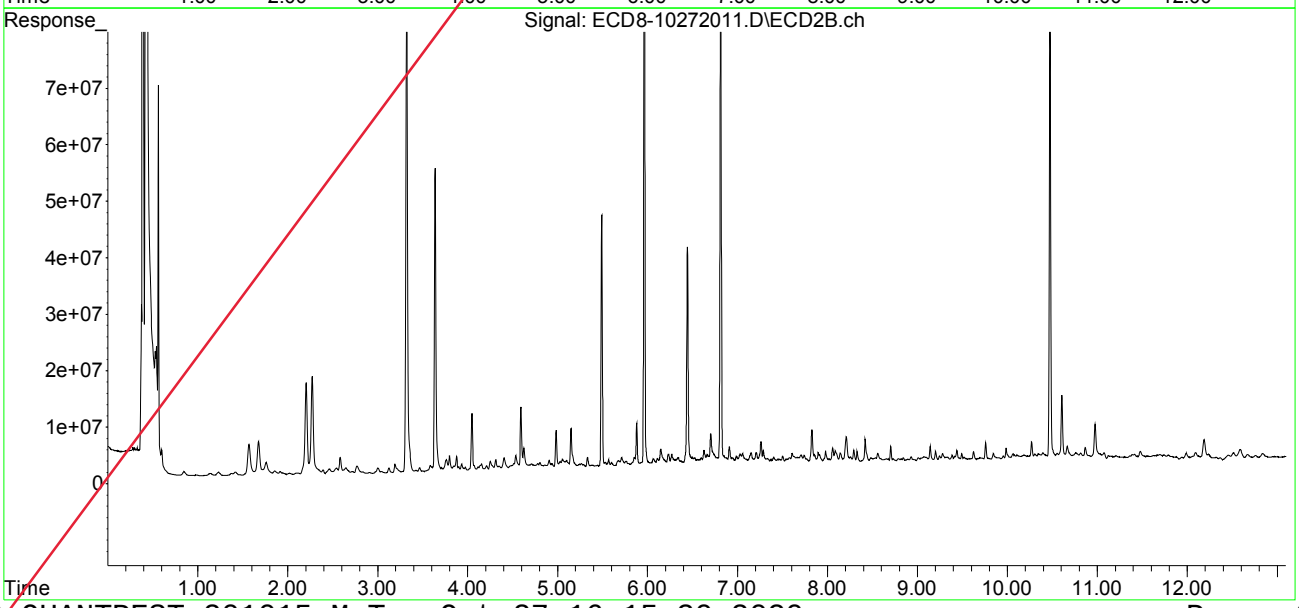
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:09
Operator : MJB
Sample : A0J0371-07RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:15:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:25
Operator : MJB
Sample : 0100834-MS2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 Sample Multiplier: 1

MJB 10/27/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:21:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL		ng/mL	
	System Monitoring Compounds								
1) S	TCMX (S)	5.659	5.963	97797357	97815035	27.654		24.449	
22) S	DCBP (S)	9.877	10.471	92988385	88001030	37.099		36.374	
	Target Compounds								
2)	a-BHC	6.216	6.571	519035	1409769	0.110		0.264	#
3)	g-BHC	6.490	6.906f	2248513	3981702	0.559		0.856	#
4)	b-BHC	6.581	6.944	4436716	1505101	2.842		0.769	#
5)	Heptachlor	6.880f	7.258	1744400	3792966	0.430		0.829	#
6)	d-BHC	6.718f	7.206	1941267	1979957	0.690		0.558	
7)	Aldrin	7.157	7.505	1321908	1114253	0.337		0.261	
8)	Heptachlo...	7.632	7.978f	1742811	3848191	0.477		0.958	#
9)	trans-Chl...	7.713	8.067f	1229728	105.2E6	0.334		26.432	#
10)	cis-Chlor...	7.845f	8.205	153.0E6	5179587	42.235		1.335	#
11)	Endosulfa...	7.910	8.256	1189666	1604896	0.350		0.446	#
12)	4,4'-DDE	7.845	8.290	153.0E6	166.6E6	48.550		44.915	
13)	Dieldrin	8.088	8.438	251382	101.6E6	0.067		25.617	#
14)	Endrin	8.276f	8.660	126.5E6	109.6E6	46.125		39.001	
15)	4,4'-DDD	8.276	8.703	126.5E6	140.3E6	46.510		44.922	
16)	Endosulfa...	8.411	8.813	324072	1267866	0.110		0.389	#
17)	4,4'-DDT	8.472	8.928	135.9E6	147.6E6	49.760		48.304	
18)	Endrin Al...	8.697	9.062	771712	1714601	BelowCal		0.316	
19)	Endosulfa...	9.005	9.244	1280316	1725992	0.428		0.519	
20)	Methoxychlor	8.807	9.386	1058020	1538286	0.769		1.045	#
21)	Endrin Ke...	9.242f	9.626	213782	1293522	0.058		0.331	#
23)	Hexachlor...	3.453	3.710f	723716	754733	0.013		0.018	#
24)	Hexachlor...	6.046	6.443	1584121	30466896	0.474		7.655	#
25)	Oxychlordane	7.532	7.895	2022680	2370323	0.626		0.673	
26)	2,4'-DDE	7.594	8.067	94382175	105.2E6	44.375	RPT	43.355	
27)	trans-Non...	0.000	8.139	0	2262978	N.D.		0.574	#
28)	2,4'-DDD	7.972	8.438	90629499	101.6E6	47.169		47.912	
29)	2,4'-DDT	8.154	8.660	99650491	109.6E6	46.436		48.344	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:25
Operator : MJB
Sample : 0100834-MS2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:21:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

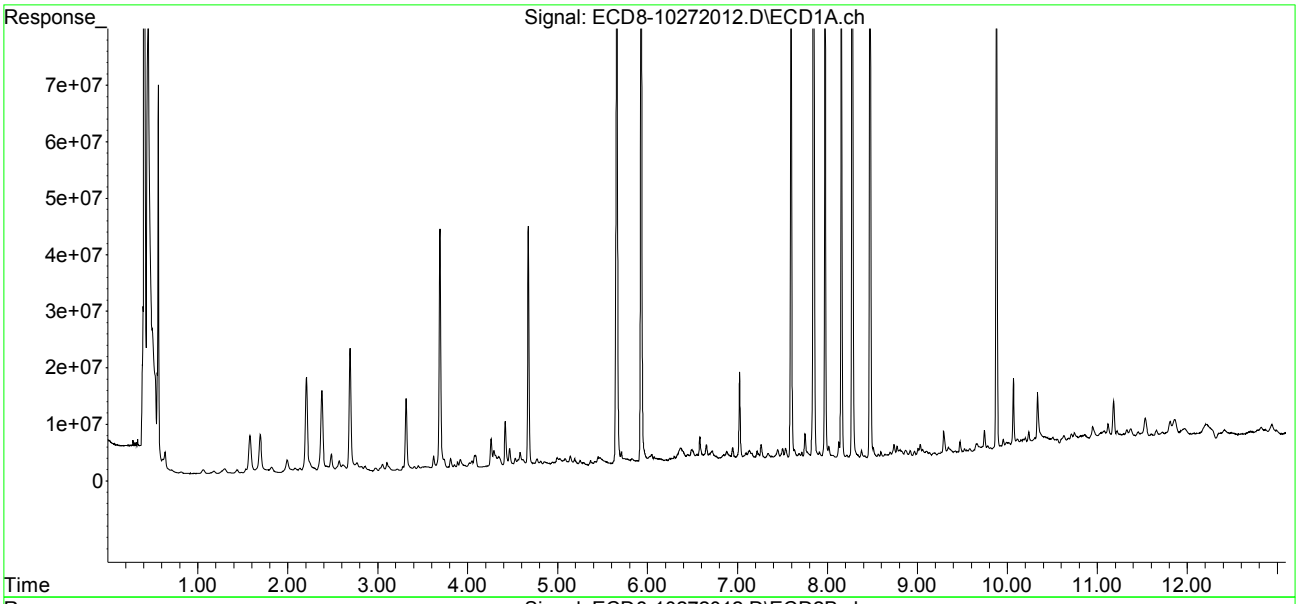
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.276	8.703	126.5E6	140.3E6	32.075	32.796	
31)	Mirex	8.968f	9.626	740053	1293522	0.007	0.203	#
32)	Chlordane...	7.713	8.139f	1229728	2262978	2.985	4.645	#
33)	Chlordane...	7.845f	8.205	153.0E6	5179587	364.980	12.511	#
34)	Chlordane...	8.377	8.880	1303083	969357	10.105	7.167	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	0.000	8.438	0	101.6E6	N.D.	2672.071	#
37)	Toxaphene...	8.088	8.782	251382	1308416	7.632	27.753	#
38)	Toxaphene...	8.411	8.813	324072	1267866	4.675	18.027	#
39)	Toxaphene...	8.657	8.880	361507	969357	4.858	8.137	#
40)	Toxaphene...	8.869f	9.062	1018336	1714601	17.154	24.889	#
41)	Toxaphene...	8.968	9.436	740053	2502427	10.992	33.418	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

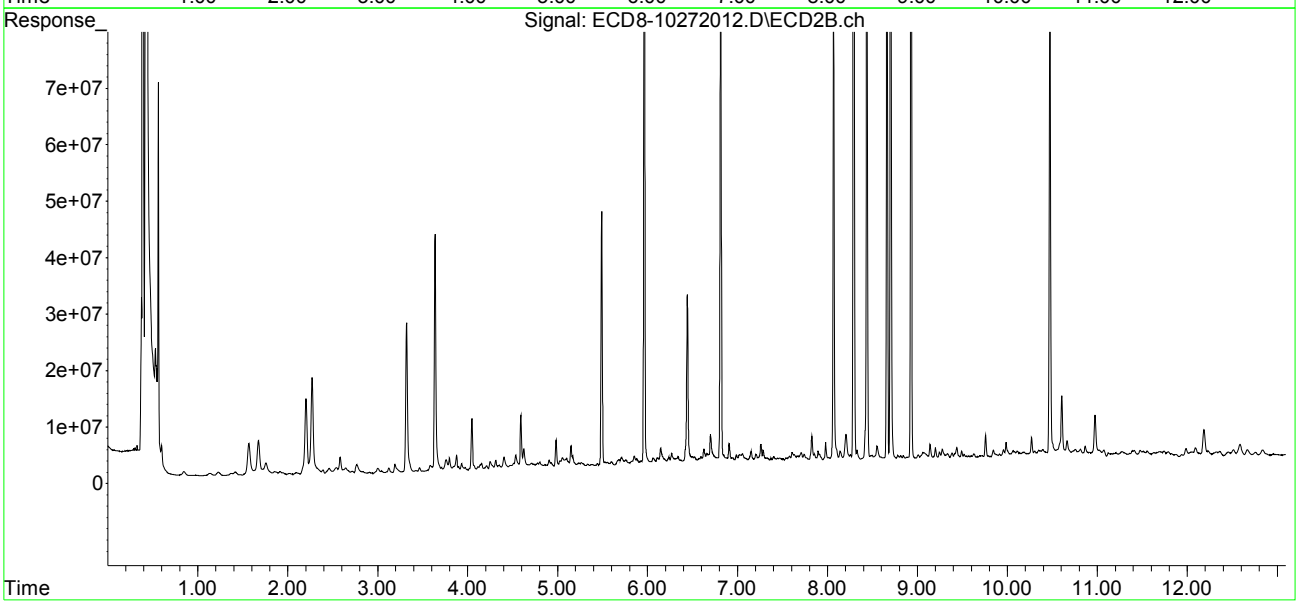
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:25
Operator : MJB
Sample : 0100834-MS2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:21:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:42
Operator : MJB
Sample : 0100834-MSD2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC MJB 10/27/20
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:22:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.659	5.963	90549935	94930316	25.605	23.728	
22) S	DCBP (S)	9.877	10.471	105.0E6	98926432	41.895	40.890	
	Target Compounds							
2)	a-BHC	6.216	6.570	331955	1107464	0.070	0.207	#
3)	g-BHC	6.488	6.874	1927060	1148746	0.479	0.247	#
4)	b-BHC	6.580	6.943	3949270	1224984	2.530	0.626	#
5)	Heptachlor	6.880f	7.258	1443118	3387218	0.356	0.740	#
6)	d-BHC	6.763f	7.206	725272	1941279	0.294	0.548	#
7)	Aldrin	7.129	7.505	1851103	884635	0.471	0.207	#
8)	Heptachlo...	7.632	7.978f	1909475	2451337	0.522	0.610	
9)	trans-Chl...	7.712	8.066f	963110	109.6E6	0.262	27.536	#
10)	cis-Chlor...	7.783f	8.204	1283253	4561225	0.354	1.176	#
11)	Endosulfa...	7.910	8.255	1185724	1237961	0.349	0.344	
12)	4,4'-DDE	7.845	8.290	161.7E6	182.9E6	51.312	48.916	
13)	Dieldrin	8.061f	8.438	465298	108.7E6	0.124	27.354	#
14)	Endrin	8.275f	8.659	137.2E6	114.3E6	50.023	40.548	
15)	4,4'-DDD	8.275	8.703	137.2E6	155.6E6	50.440	49.392	
16)	Endosulfa...	8.411	8.815	353623	1055056	0.120	0.324	#
17)	4,4'-DDT	8.472	8.927	146.1E6	162.3E6	53.158	52.537	
18)	Endrin Al...	8.699	9.068	733278	1590767	BelowCal	0.273	
19)	Endosulfa...	9.004	9.243	1575098	1756906	0.527	0.529	
20)	Methoxychlor	8.808	9.385	1702805	1697099	1.237	1.158	
21)	Endrin Ke...	9.240f	9.625	357366	1372580	0.097	0.351	#
23)	Hexachlor...	3.451	3.709f	630555	550679	BelowCal	BelowCal	
24)	Hexachlor...	6.045	6.443	1245250	23251233	0.372	5.842	#
25)	Oxychlordane	7.529	7.895	1408361	2099148	0.436	0.596	#
26)	2,4'-DDE	7.594	8.066	96885672	109.6E6	45.552 RPT	45.166	
27)	trans-Non...	7.783	8.138f	1283253	2072881	0.355	0.526	#
28)	2,4'-DDD	7.973	8.438	96109223	108.7E6	50.021	51.110	
29)	2,4'-DDT	8.154	8.659	105.8E6	114.3E6	49.290	50.246	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:42
Operator : MJB
Sample : 0100834-MSD2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:22:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

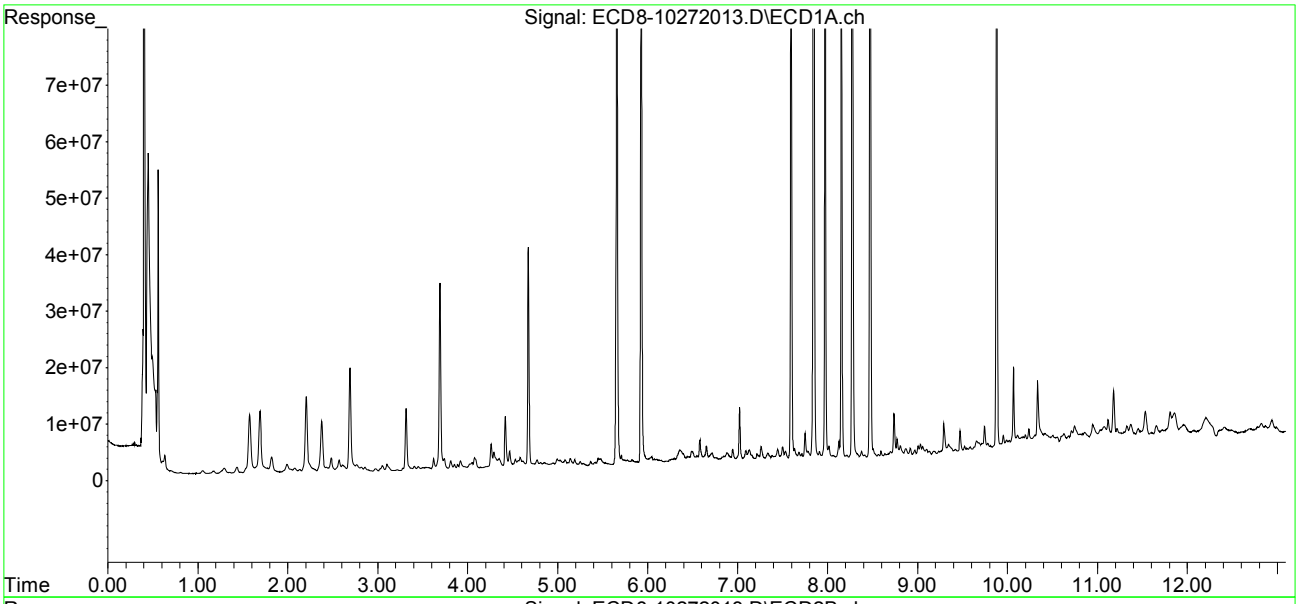
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.275	8.703	137.2E6	155.6E6	34.786	36.366	
31)	Mirex	8.969f	9.625	852469	1372580	0.056	0.237	#
32)	Chlordane...	7.712	8.138f	963110	2072881	2.338	4.255	#
33)	Chlordane...	7.845f	8.204	161.7E6	4561225	385.744	11.017	#
34)	Chlordane...	8.377	8.893f	992878	879614	7.699	6.504	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.783f	8.438	1283253	108.7E6	86.259	2860.514	#
37)	Toxaphene...	8.126f	8.783	2995862	1109448	90.953	23.533	#
38)	Toxaphene...	8.411	8.815	353623	1055056	5.101	15.001	#
39)	Toxaphene...	8.677	8.893	410611	879614	5.517	7.383	#
40)	Toxaphene...	8.869f	9.068	1172460	1590767	19.751	23.091	
41)	Toxaphene...	8.969	9.434	852469	2319159	12.662	30.971	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

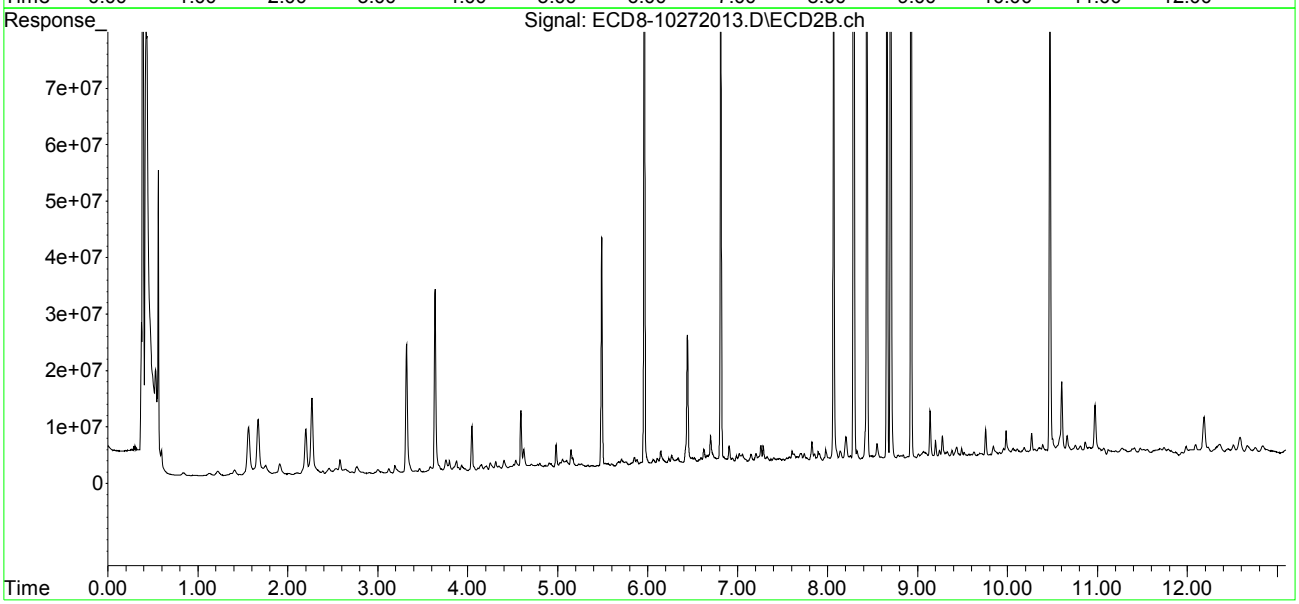
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:42
Operator : MJB
Sample : 0100834-MSD2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:22:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:58
Operator : MJB
Sample : A0J0371-08RE2 MJB 10/27/20
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:23:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL		
	System Monitoring Compounds								
1)	S TCMX (S)	5.658	5.963	113.3E6	103.3E6	32.025	25.829		
22)	S DCBP (S)	9.878	10.472	109.2E6	104.4E6	43.598	43.164		
	Target Compounds								
2)	a-BHC	6.214	6.588f	1450025	3584069	0.308	0.670	#	
3)	g-BHC	6.479f	6.902	4076970	8065376	1.013	1.734	#	
4)	b-BHC	6.573	6.940	9458224	5428908	6.060	2.775	#	
5)	Heptachlor	6.886	7.255	3138682	8736252	0.773	1.909	#	
6)	d-BHC	6.747	7.204	1792385	4916112	0.642	1.284	#	
7)	Aldrin	7.157	7.503	3207080	2292515	0.816	0.537	#	
8)	Heptachlo...	7.632	7.959	5351276	4347667	1.464	1.083	#	
9)	trans-Chl...	7.713	8.098	2591233	5141810	0.704	1.292	#	
10)	cis-Chlor...	7.829f	8.203	6583044	7164337	1.817	1.847		
11)	Endosulfa...	7.909	8.257	1502299	4013308	0.442	1.116	#	
12)	4,4'-DDE	7.829f	8.290	6583044	4981470	2.089	1.515	#	MDL=MRL
13)	Dieldrin	8.064	8.415f	980033	24211753	0.261	6.293	#	
14)	Endrin	8.279f	8.674	24369290	2330559	8.886	0.927	#	
15)	4,4'-DDD	8.279	8.702	24369290	7224841	8.960	2.518	#	R-02
16)	Endosulfa...	8.412	8.815	1030978	1992944	0.350	0.612	#	
17)	4,4'-DDT	8.470	8.926	1446958	3203133	0.612	1.249	#	P-01
18)	Endrin Al...	8.696	9.056	2480743	8702470	0.574	2.710	#	
19)	Endosulfa...	9.005	9.243	2391901	3561499	0.800	1.072	#	
20)	Methoxychlor	8.777f	9.384	5589695	3073406	4.061	2.134	#	
21)	Endrin Ke...	9.233	9.625	560774	2574093	0.152	0.659	#	
23)	Hexachlor...	3.451	3.681	946711	1110826	0.084	0.116	#	
24)	Hexachlor...	6.047	6.443	2146209	59071299	0.642	14.842	#	
25)	Oxychlordane	7.524	7.894	1955414	4574484	0.605	1.300	#	
26)	2,4'-DDE	7.594	8.084	3881299	4763192	1.825	1.963		MDL=MRL
27)	trans-Non...	7.782	8.135f	2584380	4306710	0.715	1.092	#	
28)	2,4'-DDD	7.972	8.437	2400030	4274327	1.249m	1.962m	#	MDL=MRL
29)	2,4'-DDT	8.153	8.674	961007	2330559	0.448	0.985	#	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:58
Operator : MJB
Sample : A0J0371-08RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:23:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

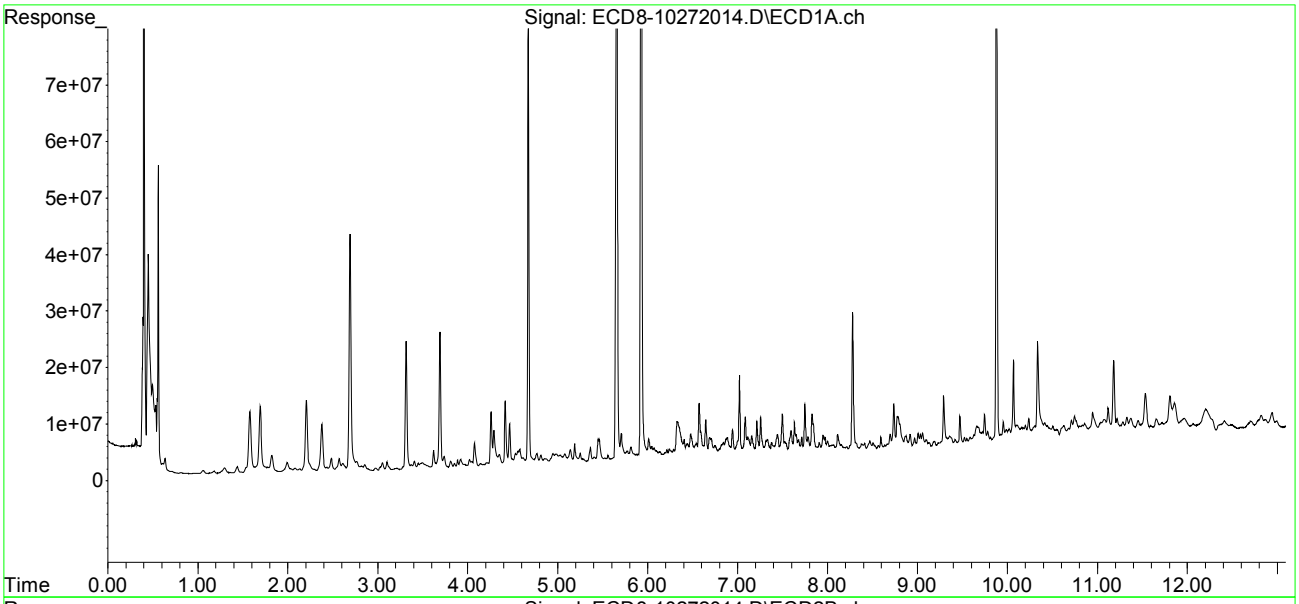
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.279	8.727	24369290	2965939	6.179	0.693	#
31)	Mirex	8.968f	9.625	1563395	2574093	0.360	0.746	#
32)	Chlordane...	7.713	8.098	2591233	5141810	6.290	10.555	#
33)	Chlordane...	7.829	8.203	6583044	7164337	15.705	17.305	
34)	Chlordane...	8.377	8.895f	943214	1900049	7.314	14.048	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.782f	8.415f	2584380	24211753	173.719	637.058	#
37)	Toxaphene...	8.112	8.780	2818066	2753911	85.555	58.414	#
38)	Toxaphene...	8.412	8.815	1030978	1992944	14.872	28.336	#
39)	Toxaphene...	8.663	8.895	719166	1900049	9.664	15.949	#
40)	Toxaphene...	8.873f	9.056	1976138	8702470	33.289	126.323	#
41)	Toxaphene...	8.968	9.454	1563395	2402272	23.222	32.081	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

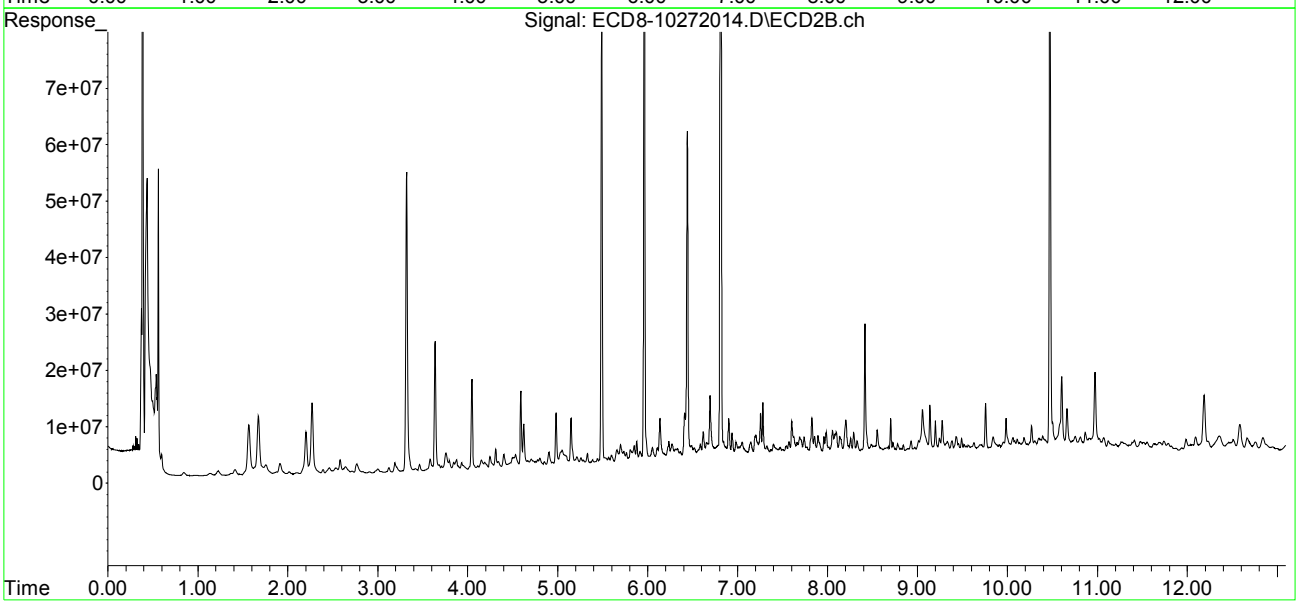
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:58
Operator : MJB
Sample : A0J0371-08RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:23:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

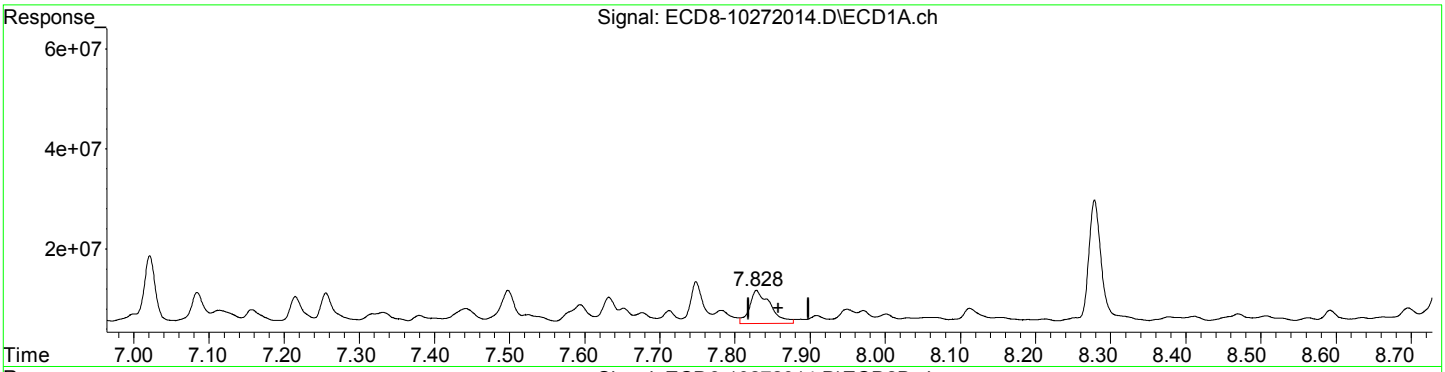




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:58
Operator : MJB
Sample : A0J0371-08RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:23:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



QEdit

(12) 4,4'-DDE
7.829min 2.089 ng/mL
response 6583044

MJB 10/27/20

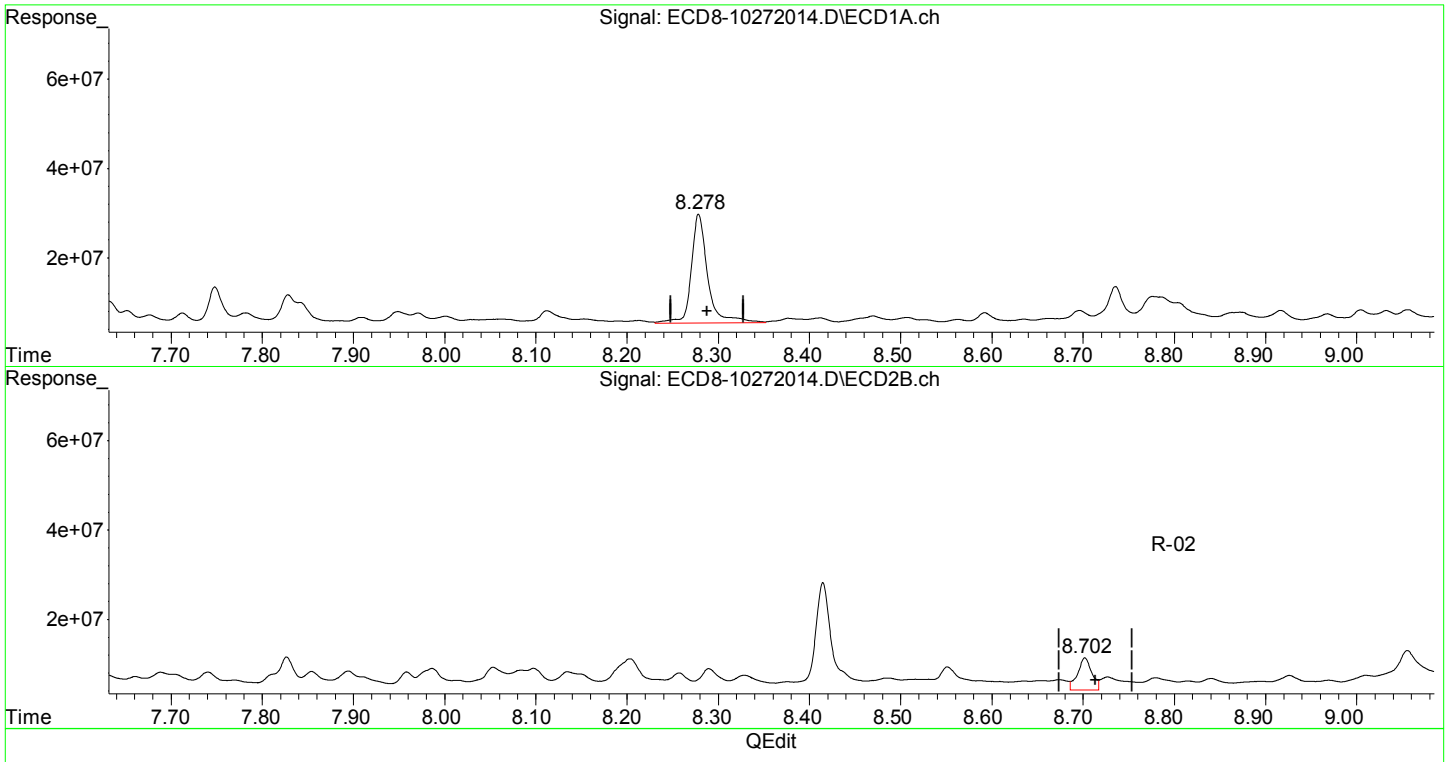
(12) 4,4'-DDE #2
8.290min 1.515 ng/mL
response 4981470

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:58
Operator : MJB
Sample : A0J0371-08RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:23:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(15) 4,4'-DDD
8.279min 8.960 ng/mL
response 24369290

MJB 10/27/20

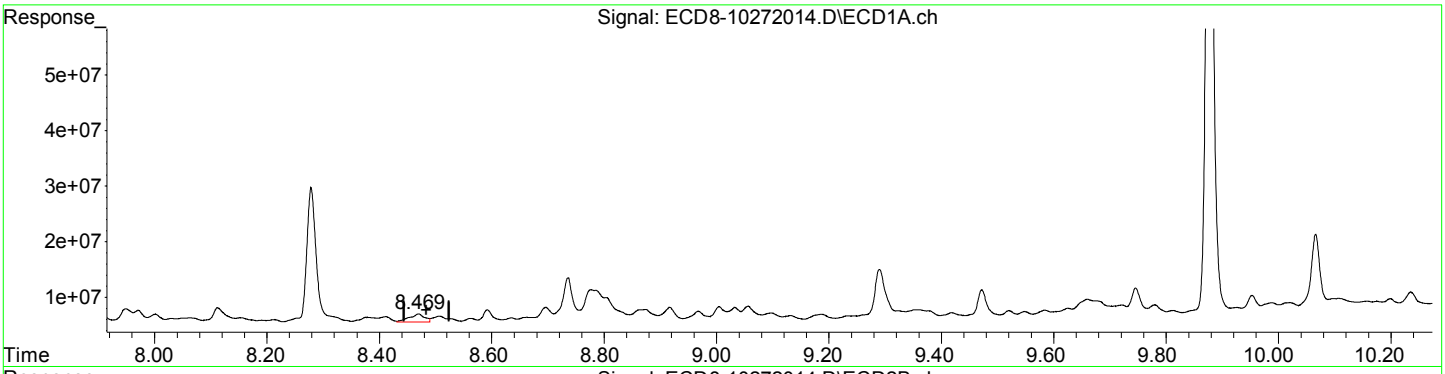
(15) 4,4'-DDD #2
8.702min 2.518 ng/mL
response 7224841

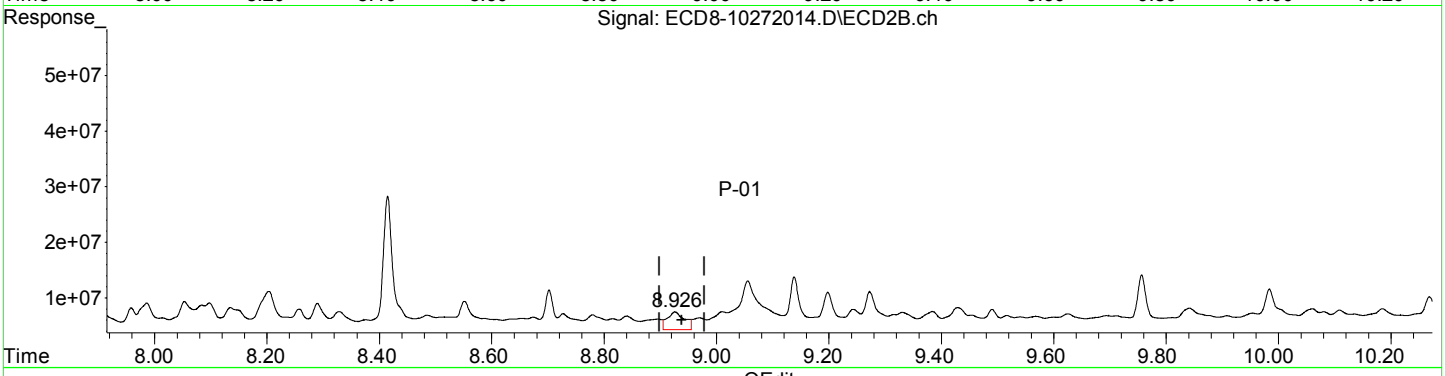
(+) = Expected Retention Time
ECD8_QUANTPEST_201015.M Tue Oct 27 16:24:35 2020 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:58
Operator : MJB
Sample : A0J0371-08RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:23:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(17) 4,4'-DDT
8.470min 0.612 ng/mL
response 1446958

MJB 10/27/20

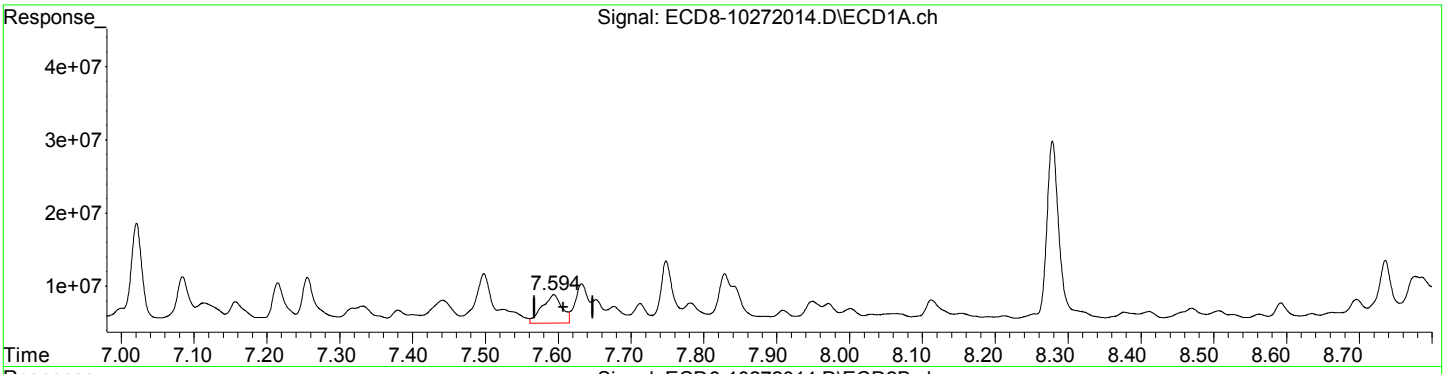
(17) 4,4'-DDT #2
8.926min 1.249 ng/mL
response 3203133

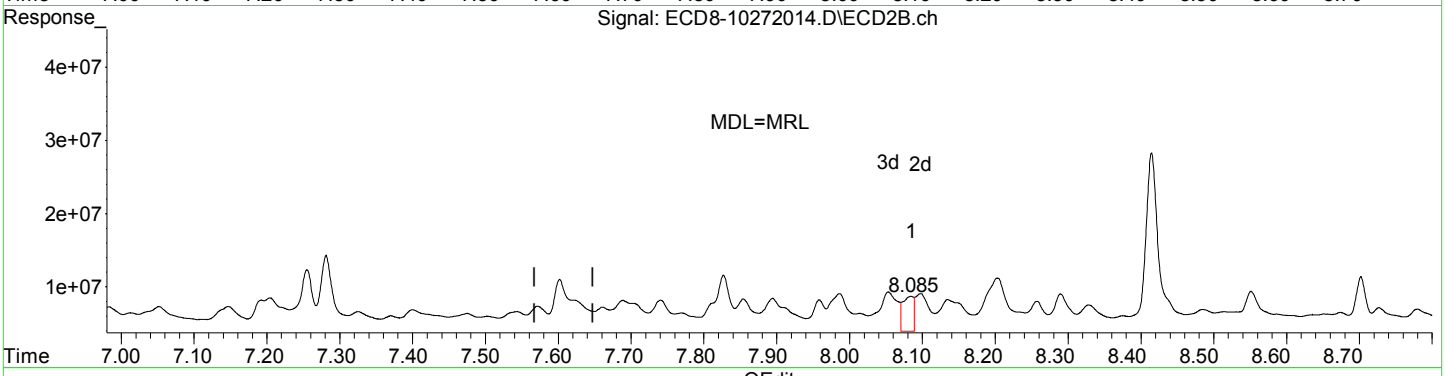
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:58
Operator : MJB
Sample : A0J0371-08RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:23:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(26) 2,4'-DDE
7.594min 1.825 ng/mL
response 3881299

MJB 10/27/20

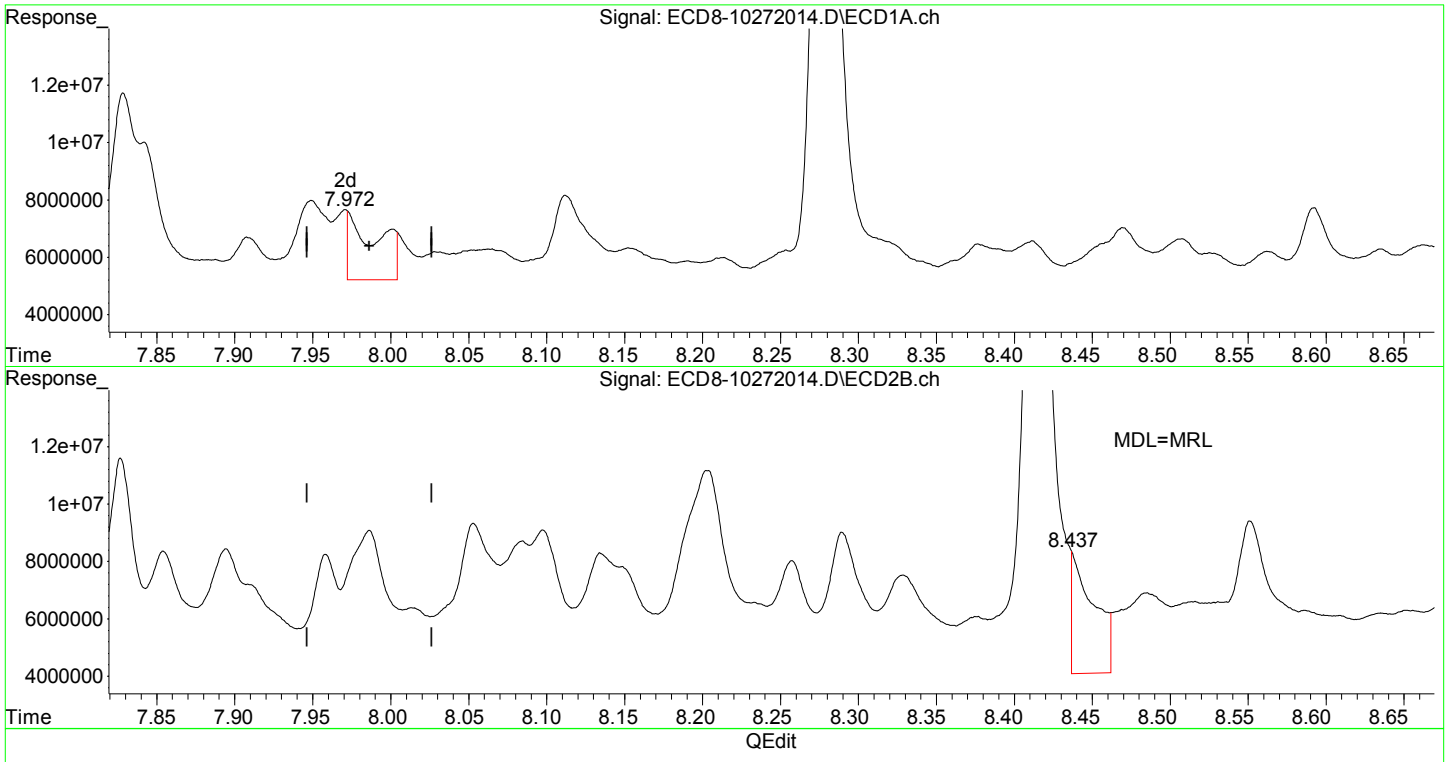
(26) 2,4'-DDE #2
8.084min 1.963 ng/mL
response 4763192

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:58
Operator : MJB
Sample : A0J0371-08RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:23:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD
7.972min 1.249 ng/mL m
response 2400030

MJB 10/27/20

(28) 2,4'-DDD #2
8.437min 1.962 ng/mL m
response 4274327

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

MI

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:58
Operator : MJB
Sample : A0J0371-08RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC MJB 10/27/20
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:23:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.658	5.963	113.3E6	103.3E6	32.025	25.829	
22) S	DCBP (S)	9.878	10.472	109.2E6	104.4E6	43.598	43.164	
	Target Compounds							
2)	a-BHC	6.214	6.588f	1450025	3584069	0.308	0.670	#
3)	g-BHC	6.479f	6.902	4076970	8065376	1.013	1.734	#
4)	b-BHC	6.573	6.940	9458224	5428908	6.060	2.775	#
5)	Heptachlor	6.886	7.255	3138682	8736252	0.773	1.909	#
6)	d-BHC	6.747	7.204	1792385	4916112	0.642	1.284	#
7)	Aldrin	7.157	7.503	3207080	2292515	0.816	0.537	#
8)	Heptachlo...	7.632	7.959	5351276	4347667	1.464	1.083	#
9)	trans-Chl...	7.713	8.098	2591233	5141810	0.704	1.292	#
10)	cis-Chlor...	7.829f	8.203	6583044	7164337	1.817	1.847	
11)	Endosulfa...	7.909	8.257	1502299	4013308	0.442	1.116	#
12)	4,4'-DDE	7.829f	8.290	6583044	4981470	2.089	1.515	#
13)	Dieldrin	8.064	8.415f	980033	24211753	0.261	6.293	#
14)	Endrin	8.279f	8.674	24369290	2330559	8.886	0.927	#
15)	4,4'-DDD	8.279	8.702	24369290	7224841	8.960	2.518	#
16)	Endosulfa...	8.412	8.815	1030978	1992944	0.350	0.612	#
17)	4,4'-DDT	8.470	8.926	1446958	3203133	0.612	1.249	#
18)	Endrin Al...	8.696	9.056	2480743	8702470	0.574	2.710	#
19)	Endosulfa...	9.005	9.243	2391901	3561499	0.800	1.072	#
20)	Methoxychlor	8.777f	9.384	5589695	3073406	4.061	2.134	#
21)	Endrin Ke...	9.233	9.625	560774	2574093	0.152	0.659	#
23)	Hexachlor...	3.451	3.681	946711	1110826	0.084	0.116	#
24)	Hexachlor...	6.047	6.443	2146209	59071299	0.642	14.842	#
25)	Oxychlordane	7.524	7.894	1955414	4574484	0.605	1.300	#
26)	2,4'-DDE	7.594	8.084	3881299	4763192	1.825	1.963	
27)	trans-Non...	7.782	8.135f	2584380	4306710	0.715	1.092	#
28)	2,4'-DDD	8.001	8.415f	1731498	24211753	0.901	11.797	#
29)	2,4'-DDT	8.153	8.674	961007	2330559	0.448	0.985	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:58
Operator : MJB
Sample : A0J0371-08RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:23:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

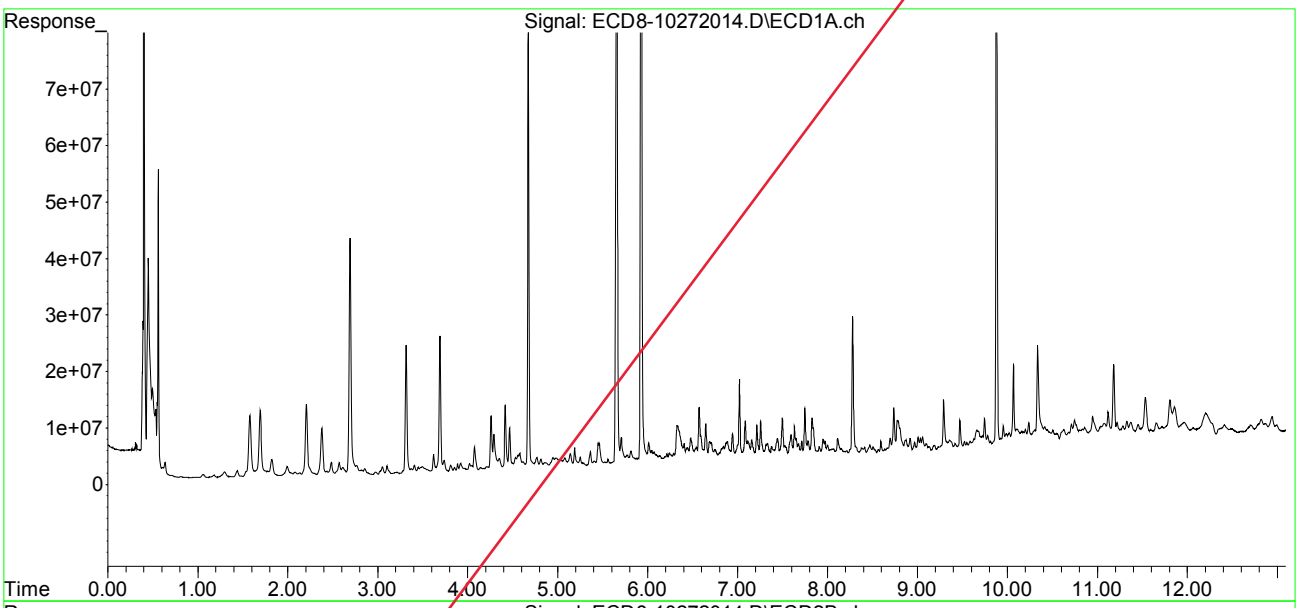
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.279	8.727	24369290	2965939	6.179	0.693	#
31)	Mirex	8.968f	9.625	1563395	2574093	0.360	0.746	#
32)	Chlordane...	7.713	8.098	2591233	5141810	6.290	10.555	#
33)	Chlordane...	7.829	8.203	6583044	7164337	15.705	17.305	
34)	Chlordane...	8.377	8.895f	943214	1900049	7.314	14.048	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.782f	8.415f	2584380	24211753	173.719	637.058	#
37)	Toxaphene...	8.112	8.780	2818066	2753911	85.555	58.414	#
38)	Toxaphene...	8.412	8.815	1030978	1992944	14.872	28.336	#
39)	Toxaphene...	8.663	8.895	719166	1900049	9.664	15.949	#
40)	Toxaphene...	8.873f	9.056	1976138	8702470	33.289	126.323	#
41)	Toxaphene...	8.968	9.454	1563395	2402272	23.222	32.081	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

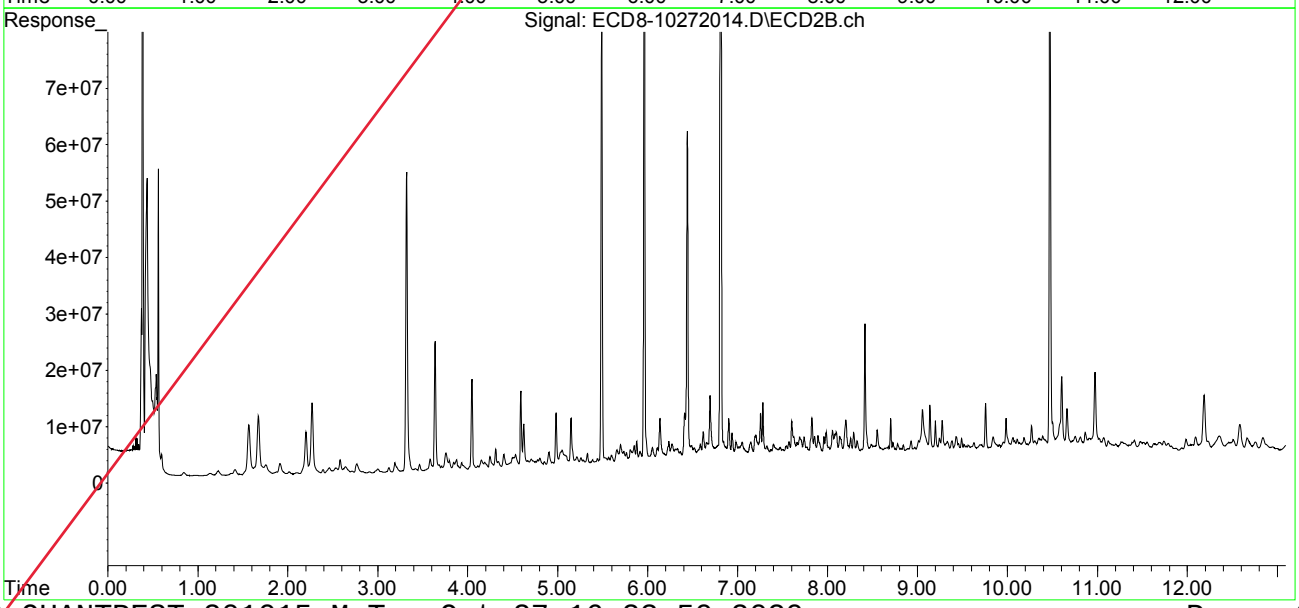
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 14:58
Operator : MJB
Sample : A0J0371-08RE2
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:23:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:15
Operator : MJB
Sample : A0J0371-09RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

MJB 10/27/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.654	5.962	163.2E6	102.3E6	46.160	25.570 #	
22) S	DCBP (S)	9.877	10.471	87345743	84440850	34.841	34.903	
	Target Compounds							
2)	a-BHC	6.215	6.579	4543584	7375494	0.964	1.379 #	
3)	g-BHC	6.533f	6.899	5833461	15107602	1.449	3.249 #	
4)	b-BHC	6.567f	6.941	21530458	5890110	13.794	3.010 #	
5)	Heptachlor	6.868f	7.254	6251712	19878721	1.540	4.343 #	
6)	d-BHC	6.742	7.187	4674506	11577645	1.578	2.924 #	
7)	Aldrin	7.166	7.536	4637301	6674311	1.181	1.563 #	
8)	Heptachlo...	7.633	7.956	4551489	4609008	1.245	1.148	
9)	trans-Chl...	7.712	8.083	6438627	7035133	1.748	1.768	
10)	cis-Chlor...	7.827f	8.191	7928748	11082093	2.189	2.856 #	
11)	Endosulfa...	7.909	8.257	2892084	6250332	0.850	1.738 #	
12)	4,4'-DDE	7.836f	8.289	5885210	7693617	1.868m MDL= MRL	2.310 P-01	
13)	Dieldrin	8.068	8.414f	2937337	14663716	0.782	3.831 #	
14)	Endrin	8.250	8.675	2016030	3849601	0.735	1.512 #	
15)	4,4'-DDD	8.277	8.702	15496665	8129927	5.698	2.831 #	R-02
16)	Endosulfa...	8.397	8.814	2204624	3146043	0.748	0.966 #	
17)	4,4'-DDT	8.471	8.926	9896289	12457903	3.972	4.630	
18)	Endrin Al...	8.699	9.053	2854532	26621959	0.705	8.808 #	
19)	Endosulfa...	9.004	9.242	3329025	4849138	1.114	1.459 #	
20)	Methoxychlor	8.783f	9.385	18871726	4857986	13.709	3.394 #	
21)	Endrin Ke...	9.232	9.624	1370673	3906083	0.371	1.000 #	
23)	Hexachlor...	3.455	3.714f	4042534	2250684	1.076	0.429 #	
24)	Hexachlor...	6.048	6.442	4902546	146.1E6	1.466	36.702 #	
25)	Oxychlordane	0.000	7.895	0	7364406	N.D.	2.092 #	
26)	2,4'-DDE	7.592	8.083	6243264	7035133	2.935	2.899	R-02
27)	trans-Non...	7.782	8.150	4089936	18315527	1.132	4.645 #	
28)	2,4'-DDD	7.972	8.434	3886504	5186901	2.023m R-02	2.418m P-01	
29)	2,4'-DDT	8.153	8.675	2029720	3849601	0.946m	1.723 # P-01	

ECD8_QUANTPEST_201015.M Tue Oct 27 16:32:28 2020 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:15
Operator : MJB
Sample : A0J0371-09RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

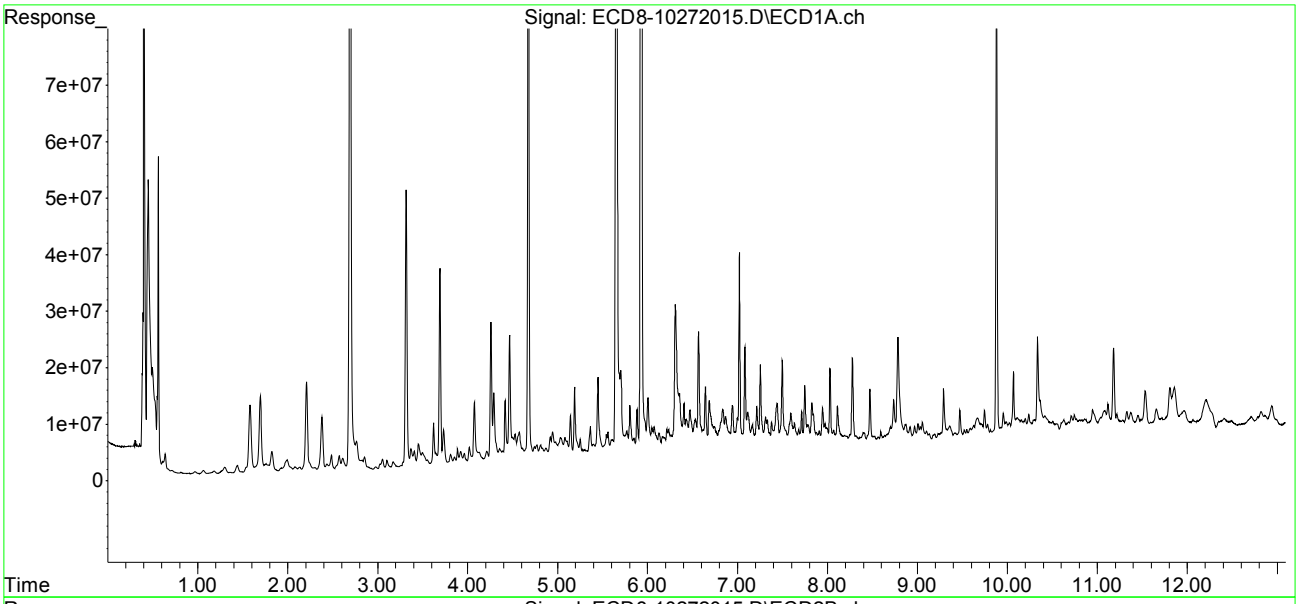
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.277	8.727	15496665	4058305	3.930	0.949	#
31)	Mirex	8.968f	9.624	2891035	3906083	0.929	1.310	#
32)	Chlordane...	7.712	8.083f	6438627	7035133	15.630	14.442	
33)	Chlordane...	7.827	8.234	7928748	4956191	18.916	11.971	#
34)	Chlordane...	8.361	8.893f	1418936	3292586	11.003	24.344	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.782f	8.414f	4089936	14663716	274.921	385.831	#
37)	Toxaphene...	8.110	8.778	7104679	3914758	215.694	83.038	#
38)	Toxaphene...	8.397f	8.814	2204624	3146043	31.802	44.731	#
39)	Toxaphene...	8.659	8.893	1737321	3292586	23.345	27.638	
40)	Toxaphene...	8.916f	9.053	2881422	26621959	48.539	386.439	#
41)	Toxaphene...	8.968	9.455	2891035	3694648	42.941	49.340	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

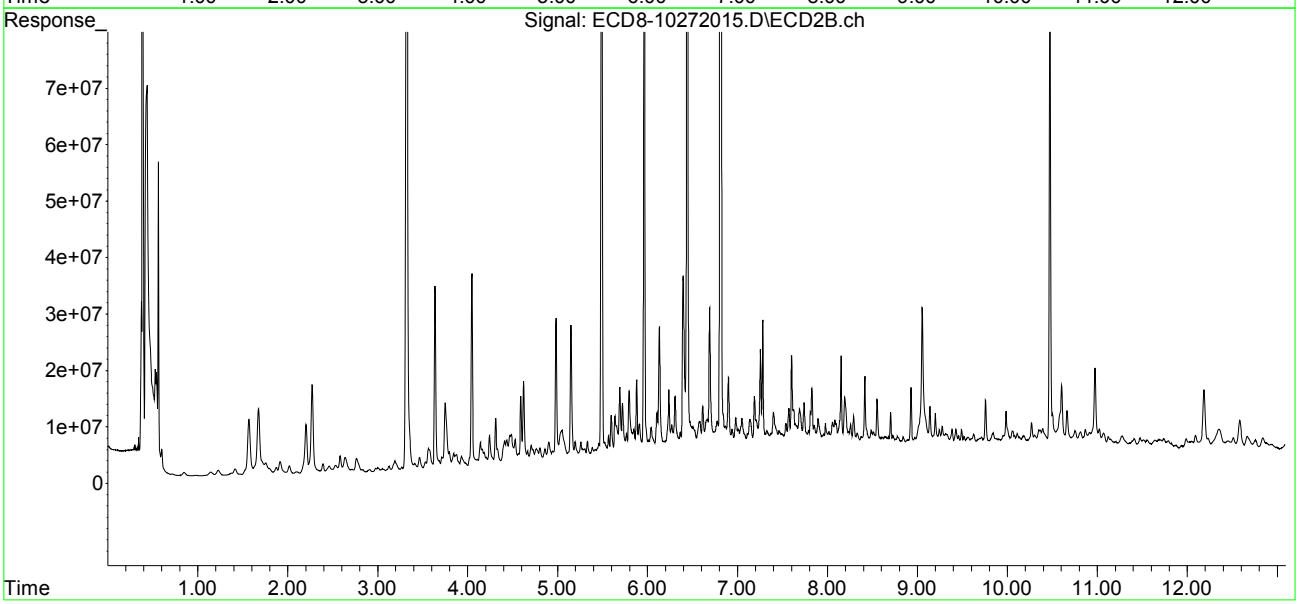
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:15
Operator : MJB
Sample : A0J0371-09RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

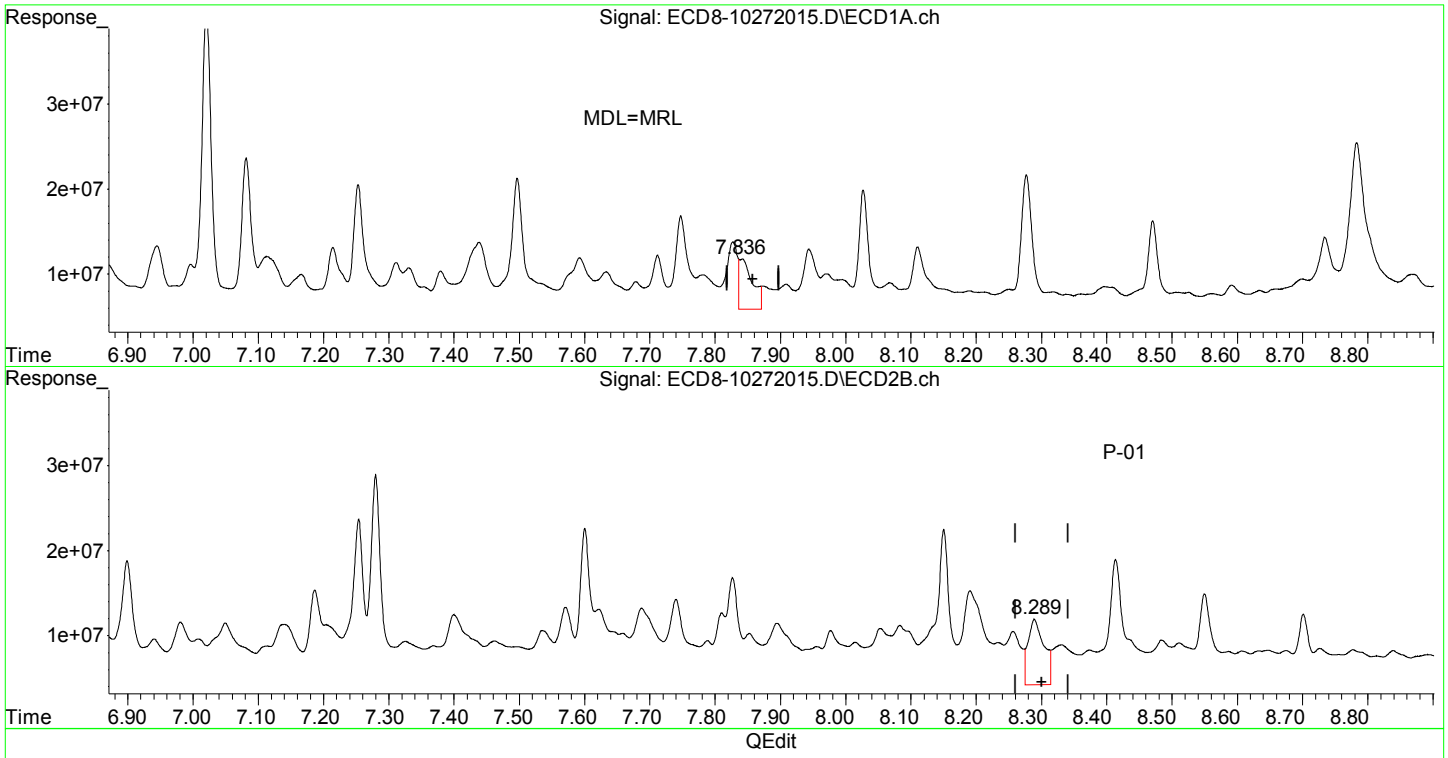




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:15
Operator : MJB
Sample : A0J0371-09RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(12) 4,4'-DDE
7.836min 1.868 ng/mL m
response 5885210

MJB 10/27/20

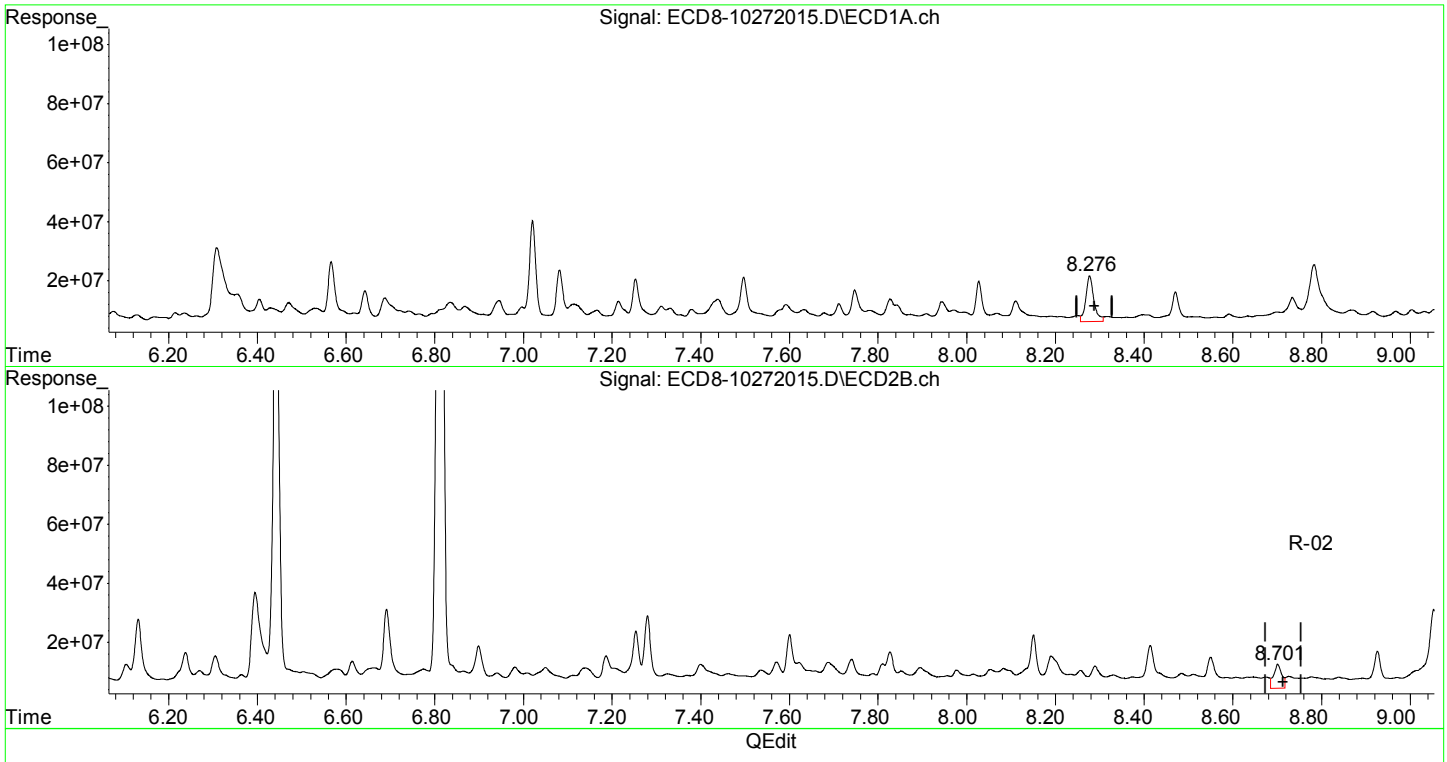
(12) 4,4'-DDE #2
8.289min 2.310 ng/mL
response 7693617

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:15
Operator : MJB
Sample : A0J0371-09RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(15) 4,4'-DDD
8.277min 5.698 ng/mL
response 15496665

MJB 10/27/20

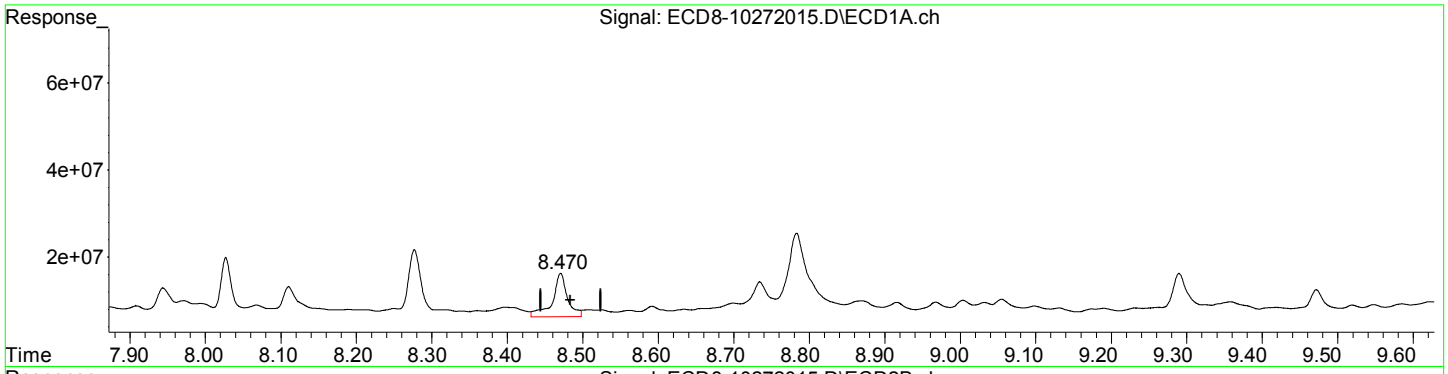
(15) 4,4'-DDD #2
8.702min 2.831 ng/mL
response 8129927

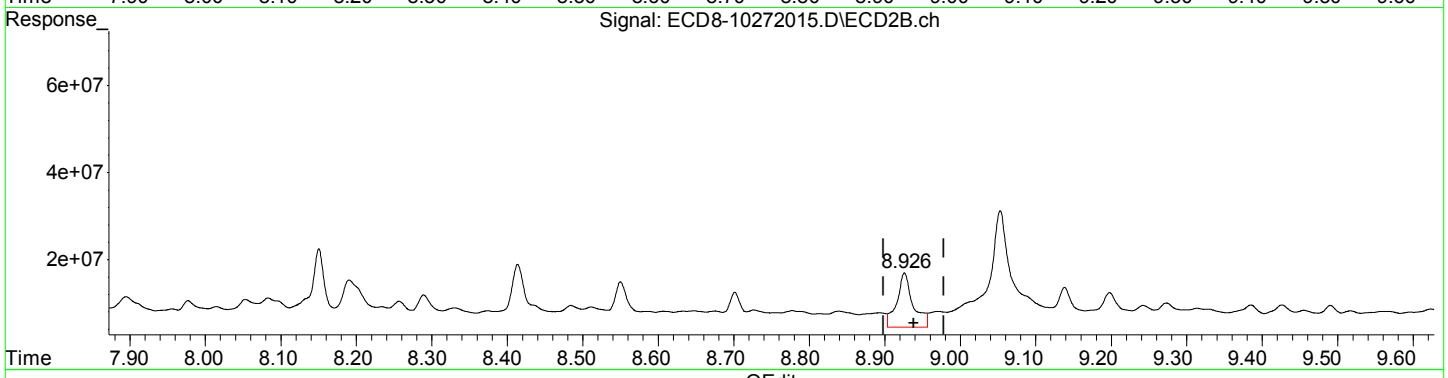
(+) = Expected Retention Time
ECD8_QUANTPEST_201015.M Tue Oct 27 16:30:59 2020 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:15
Operator : MJB
Sample : A0J0371-09RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(17) 4,4'-DDT
8.471min 3.972 ng/mL
response 9896289

MJB 10/27/20

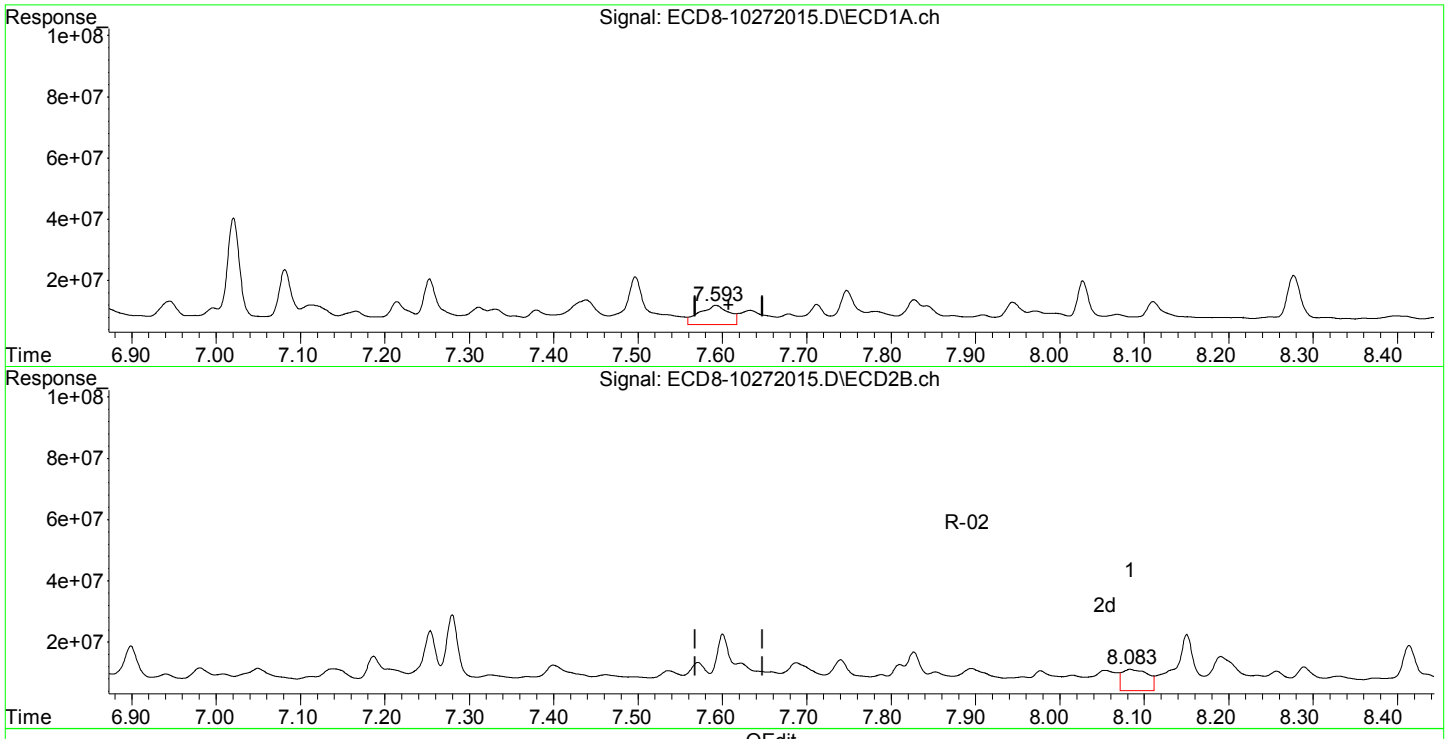
(17) 4,4'-DDT #2
8.926min 4.630 ng/mL
response 12457903

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:15
Operator : MJB
Sample : A0J0371-09RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE
7.592min 2.935 ng/mL
response 6243264

(26) 2,4'-DDE #2
8.083min 2.899 ng/mL
response 7035133

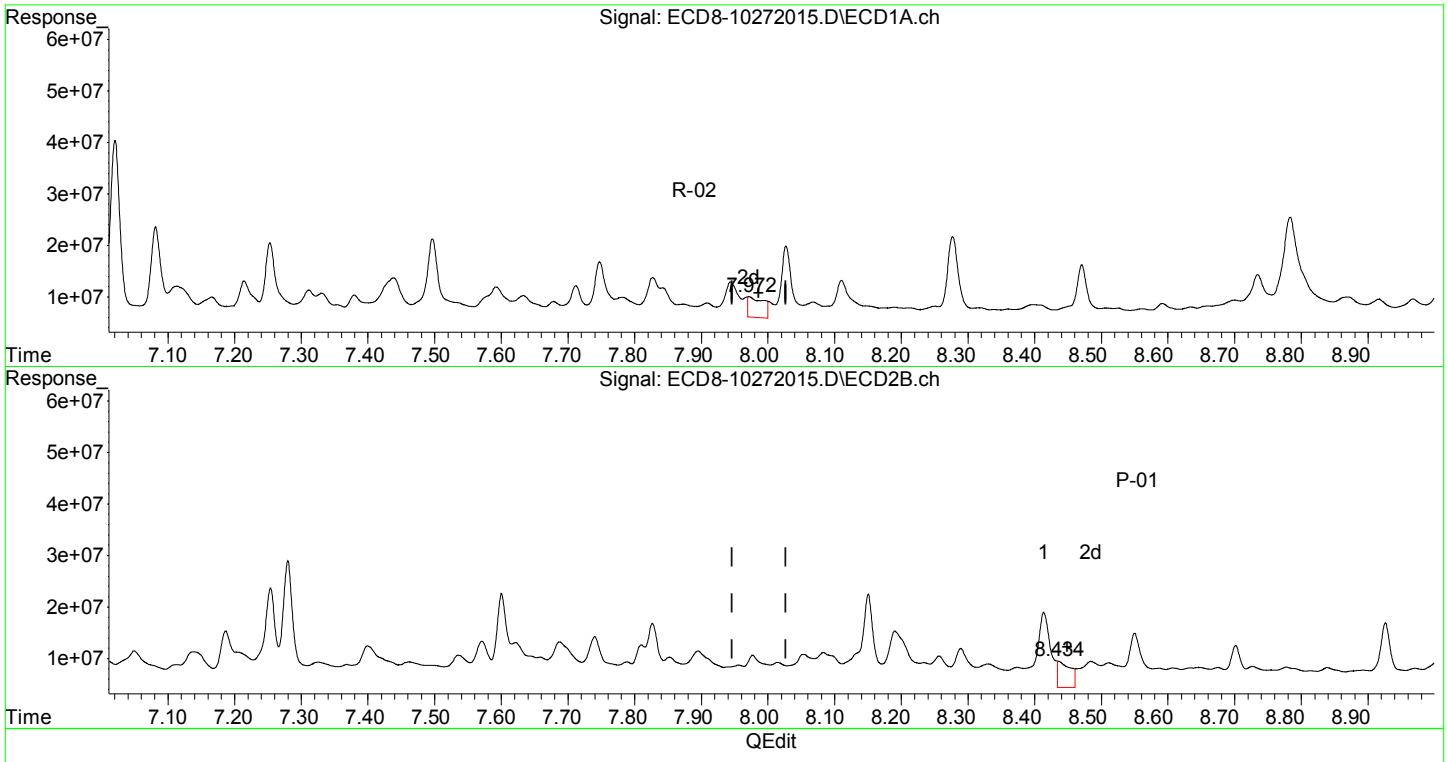
MJB 10/27/20

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:15
Operator : MJB
Sample : A0J0371-09RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD
7.972min 2.023 ng/mL m
response 3886504

MJB 10/27/20

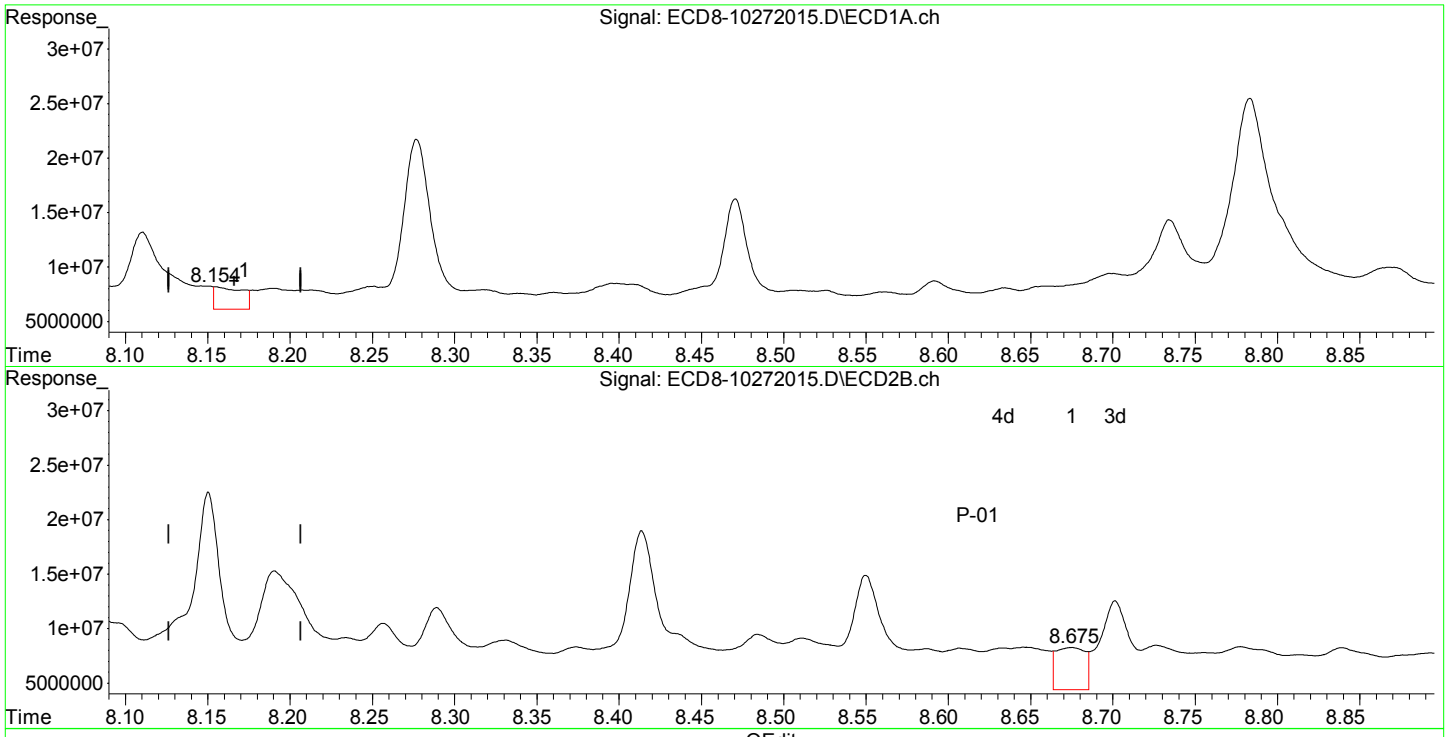
(28) 2,4'-DDD #2
8.434min 2.418 ng/mL m
response 5186901

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:15
Operator : MJB
Sample : A0J0371-09RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(29) 2,4'-DDT
8.153min 0.946 ng/mL m
response 2029720

MJB 10/27/20

(29) 2,4'-DDT #2
8.675min 1.723 ng/mL
response 3849601

(+) = Expected Retention Time
ECD8_QUANTPEST_201015.M Tue Oct 27 16:32:12 2020 Page: 1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:15
Operator : MJB
Sample : A0J0371-09RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

MI

MJB 10/27/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.654	5.962	163.2E6	102.3E6	46.160	25.570	#
22)	S DCBP (S)	9.877	10.471	87345743	84440850	34.841	34.903	
	Target Compounds							
2)	a-BHC	6.215	6.579	4543584	7375494	0.964	1.379	#
3)	g-BHC	6.533f	6.899	5833461	15107602	1.449	3.249	#
4)	b-BHC	6.567f	6.941	21530458	5890110	13.794	3.010	#
5)	Heptachlor	6.868f	7.254	6251712	19878721	1.540	4.343	#
6)	d-BHC	6.742	7.187	4674506	11577645	1.578	2.924	#
7)	Aldrin	7.166	7.536	4637301	6674311	1.181	1.563	#
8)	Heptachlo...	7.633	7.956	4551489	4609008	1.245	1.148	
9)	trans-Chl...	7.712	8.083	6438627	7035133	1.748	1.768	
10)	cis-Chlor...	7.827f	8.191	7928748	11082093	2.189	2.856	#
11)	Endosulfa...	7.909	8.257	2892084	6250332	0.850	1.738	#
12)	4,4'-DDE	7.873	8.289	2697541	7693617	0.856	2.310	#
13)	Dieldrin	8.068	8.414f	2937337	14663716	0.782	3.831	#
14)	Endrin	8.250	8.675	2016030	3849601	0.735	1.512	#
15)	4,4'-DDD	8.277	8.702	15496665	8129927	5.698	2.831	#
16)	Endosulfa...	8.397	8.814	2204624	3146043	0.748	0.966	#
17)	4,4'-DDT	8.471	8.926	9896289	12457903	3.972	4.630	
18)	Endrin Al...	8.699	9.053	2854532	26621959	0.705	8.808	#
19)	Endosulfa...	9.004	9.242	3329025	4849138	1.114	1.459	#
20)	Methoxychlor	8.783f	9.385	18871726	4857986	13.709	3.394	#
21)	Endrin Ke...	9.232	9.624	1370673	3906083	0.371	1.000	#
23)	Hexachlor...	3.455	3.714f	4042534	2250684	1.076	0.429	#
24)	Hexachlor...	6.048	6.442	4902546	146.1E6	1.466	36.702	#
25)	Oxychlordane	0.000	7.895	0	7364406	N.D.	2.092	#
26)	2,4'-DDE	7.592	8.083	6243264	7035133	2.935	2.899	
27)	trans-Non...	7.782	8.150	4089936	18315527	1.132	4.645	#
28)	2,4'-DDD	7.994	8.414f	3346589	14663716	1.742	7.117	#
29)	2,4'-DDT	8.172	8.675	1768938	3849601	0.824	1.723	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:15
Operator : MJB
Sample : A0J0371-09RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

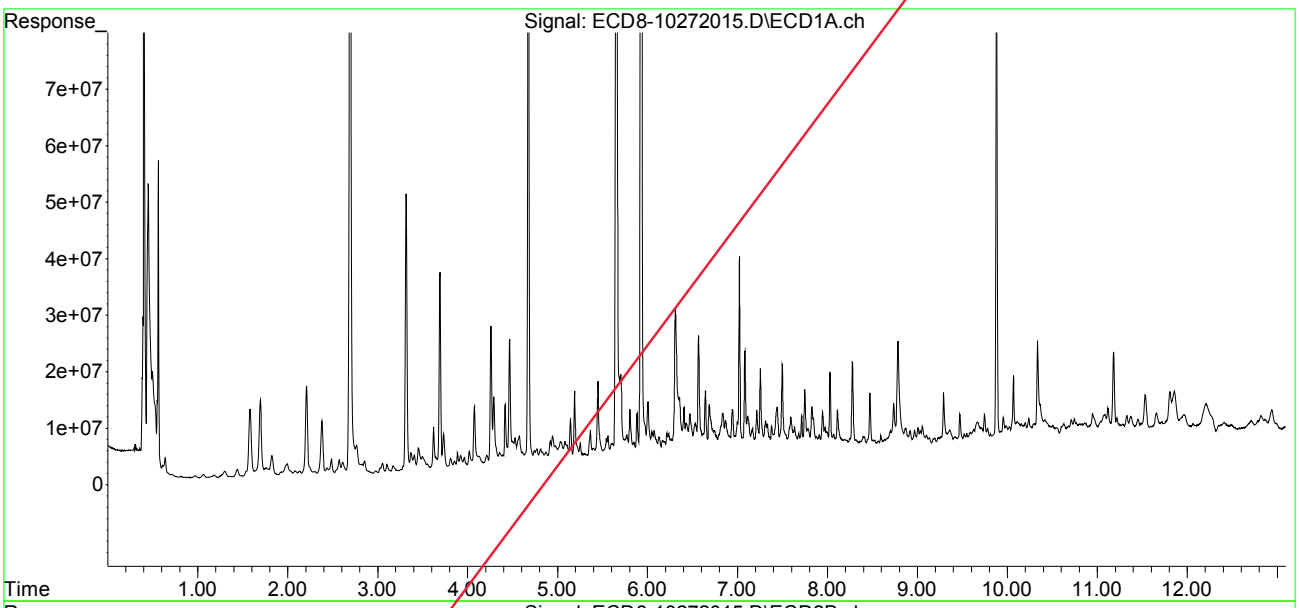
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.277	8.727	15496665	4058305	3.930	0.949	#
31)	Mirex	8.968f	9.624	2891035	3906083	0.929	1.310	#
32)	Chlordane...	7.712	8.083f	6438627	7035133	15.630	14.442	
33)	Chlordane...	7.827	8.234	7928748	4956191	18.916	11.971	#
34)	Chlordane...	8.361	8.893f	1418936	3292586	11.003	24.344	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.782f	8.414f	4089936	14663716	274.921	385.831	#
37)	Toxaphene...	8.110	8.778	7104679	3914758	215.694	83.038	#
38)	Toxaphene...	8.397f	8.814	2204624	3146043	31.802	44.731	#
39)	Toxaphene...	8.659	8.893	1737321	3292586	23.345	27.638	
40)	Toxaphene...	8.916f	9.053	2881422	26621959	48.539	386.439	#
41)	Toxaphene...	8.968	9.455	2891035	3694648	42.941	49.340	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

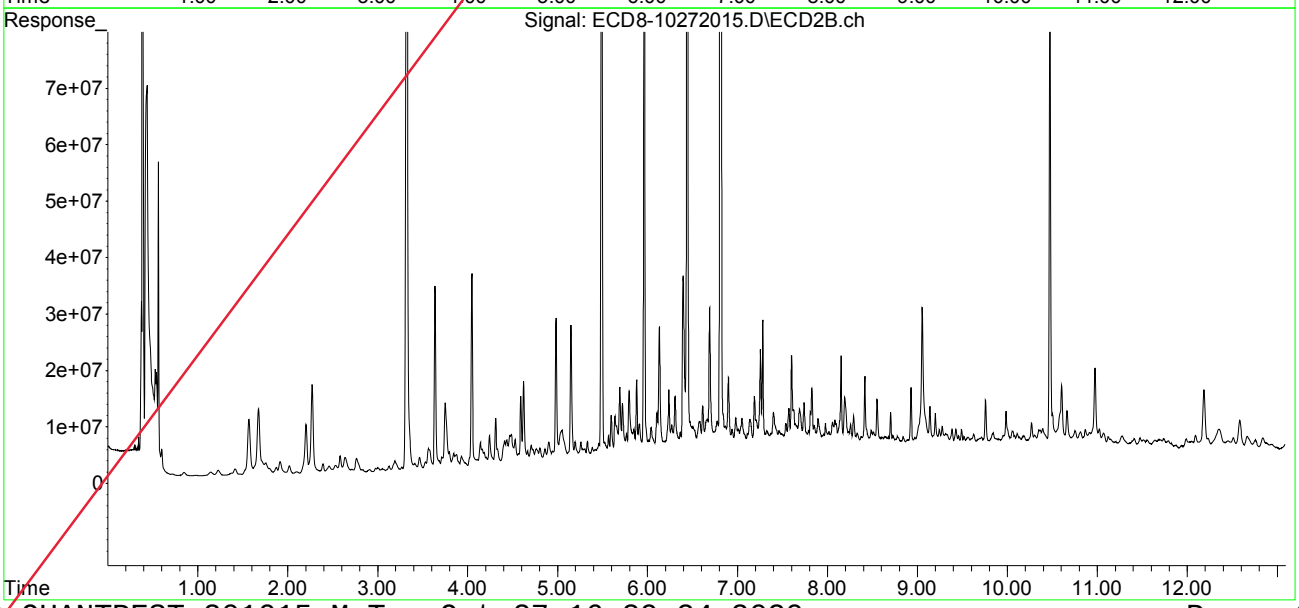
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:15
Operator : MJB
Sample : A0J0371-09RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:29:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:31
Operator : MJB
Sample : A0J0371-10RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

MJB 10/27/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:36:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL		ng/mL	
	System Monitoring Compounds								
1) S	TCMX (S)	5.653	5.963	189.2E6	100.4E6	53.500		25.087	#
22) S	DCBP (S)	9.878	10.471	95995813	92449758	38.302		38.213	
	Target Compounds								
2)	a-BHC	6.236	6.572	6045422	8532380	1.283		1.595	
3)	g-BHC	6.526	6.898	7605276	16309487	1.890		3.507	#
4)	b-BHC	6.565f	6.940	24627910	7503871	15.778		3.835	#
5)	Heptachlor	6.869f	7.253	10206576	24260779	2.515		5.301	#
6)	d-BHC	6.742	7.186	6234292	14767945	2.083		3.706	#
7)	Aldrin	7.158	7.539f	6067028	8280297	1.545		1.940	#
8)	Heptachlo...	7.633	7.955	6869738	5518355	1.879		1.374	#
9)	trans-Chl...	7.712	8.086	6162637	8569304	1.673		2.153	#
10)	cis-Chlor...	7.827f	8.190	9534368	12112721	2.632		3.122	
11)	Endosulfa...	7.909	8.257	4331228	8897049	1.273		2.474	#
12)	4,4'-DDE	7.843	8.289	7774405	9885249	2.467m	R-02	2.951	P-01
13)	Dieldrin	8.069	8.414f	4260716	22061533	1.134		5.740	#
14)	Endrin	8.251	8.674	3961294	4795071	1.444		1.875	#
15)	4,4'-DDD	8.277	8.702	23586655	10348176	8.673		3.597	# R-02
16)	Endosulfa...	8.393f	8.839f	3781493	4657342	1.284		1.430	
17)	4,4'-DDT	8.471	8.924	3652518	5983589	1.493	MDL=MRL	2.271	# P-01
18)	Endrin Al...	8.697	9.052	4574405	26669165	1.311		8.824	#
19)	Endosulfa...	9.004	9.242	4791210	5717645	1.603		1.721	
20)	Methoxychlor	8.782f	9.385	19750731	5823013	14.348		4.074	#
21)	Endrin Ke...	9.242f	9.625	2571158	4683497	0.695		1.199	#
23)	Hexachlor...	3.453	3.674	4660569	2224786	1.274		0.422	#
24)	Hexachlor...	6.047	6.443	6883662	176.5E6	2.058		44.347	#
25)	Oxychlordane	7.535	7.896	4812640	9305625	1.490		2.644	#
26)	2,4'-DDE	7.593	8.086	8821595	8569304	4.148		3.531	R-02
27)	trans-Non...	7.782	8.133f	5787268	8723657	1.602		2.213	#
28)	2,4'-DDD	7.971	8.431	5886701	6947926	3.064	R-02	3.295m	P-01
29)	2,4'-DDT	8.174	8.674	3299718	4795071	1.538	MDL=MRL	2.180	# P-01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:31
Operator : MJB
Sample : A0J0371-10RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:36:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

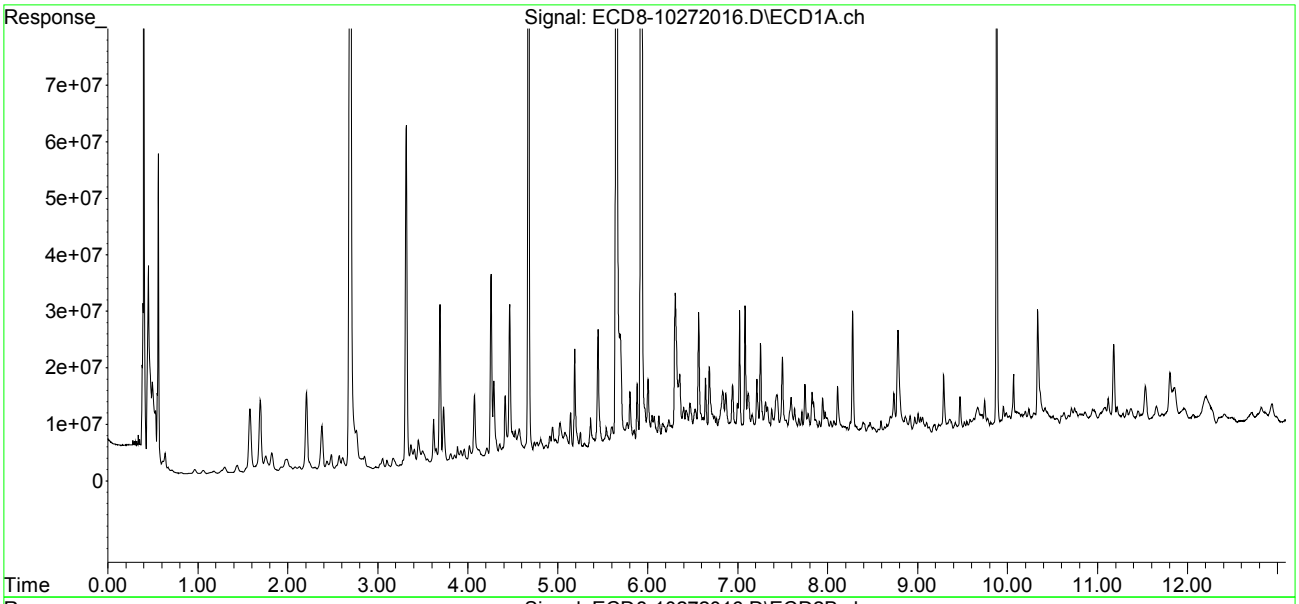
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.277	8.726	23586655	5639401	5.981	1.318	#
31)	Mirex	8.969f	9.625	4162591	4683497	1.473	1.639	
32)	Chlordane...	7.712	8.133f	6162637	8723657	14.960	17.908	
33)	Chlordane...	7.827	8.235	9534368	5751837	22.746	13.893	#
34)	Chlordane...	8.393	8.892f	3781493	4369223	29.324	32.305	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.782f	8.414f	5787268	22061533	389.014	580.482	#
37)	Toxaphene...	8.110	8.777	10409416	5245142	316.024	111.257	#
38)	Toxaphene...	8.393f	8.839	3781493	4657342	54.549	66.219	
39)	Toxaphene...	8.657	8.892	3112205	4369223	41.819	36.675	
40)	Toxaphene...	8.915f	9.052	4510726	26669165	75.985	387.124	#
41)	Toxaphene...	8.969	9.455	4162591	4387754	61.828	58.596	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

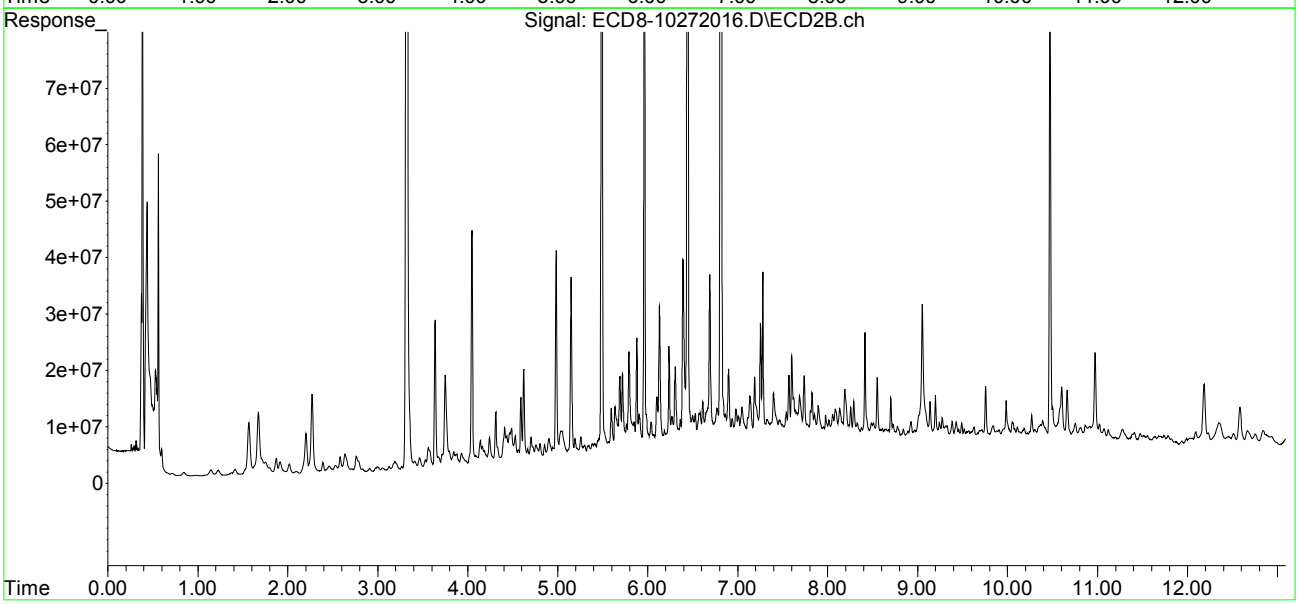
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:31
Operator : MJB
Sample : A0J0371-10RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:36:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

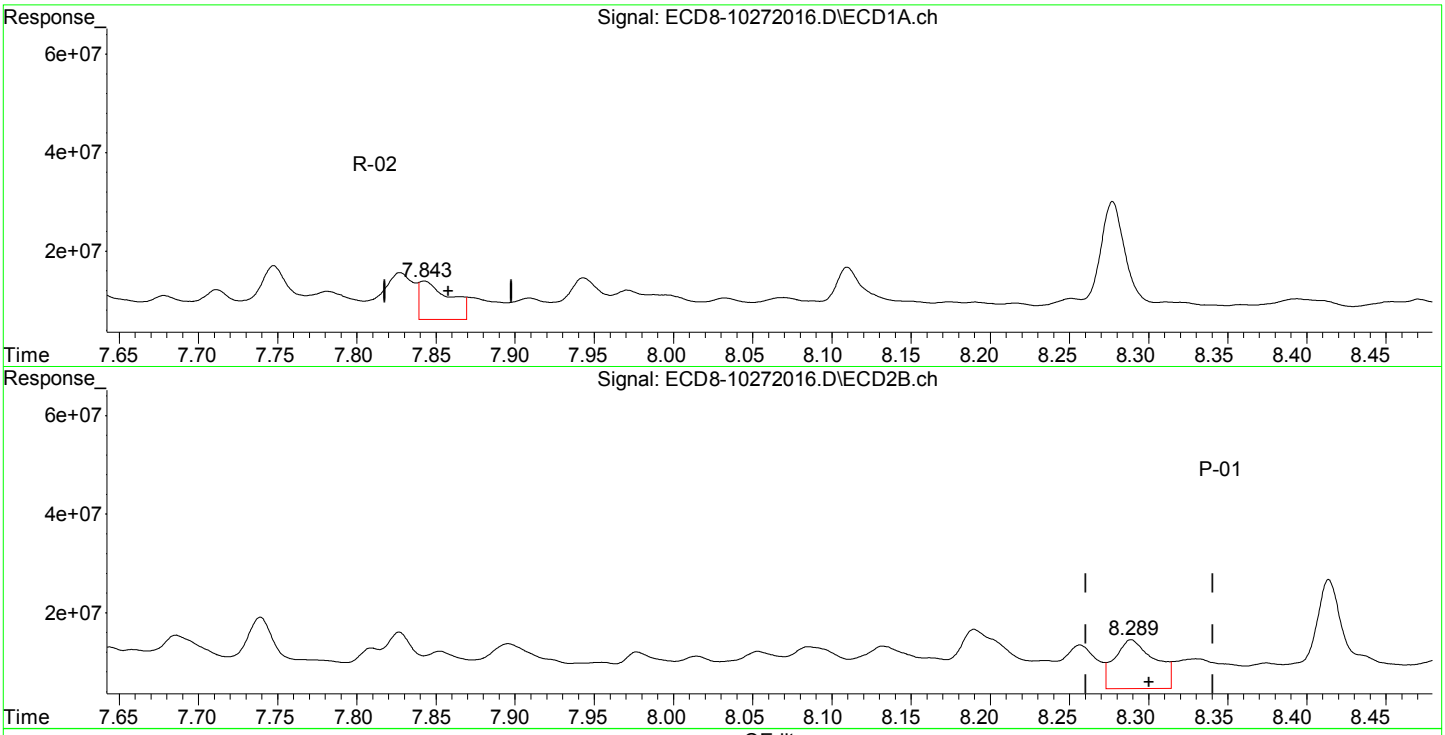




Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:31
Operator : MJB
Sample : A0J0371-10RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:36:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(12) 4,4'-DDE
7.843min 2.467 ng/mL m
response 7774405

MJB 10/27/20

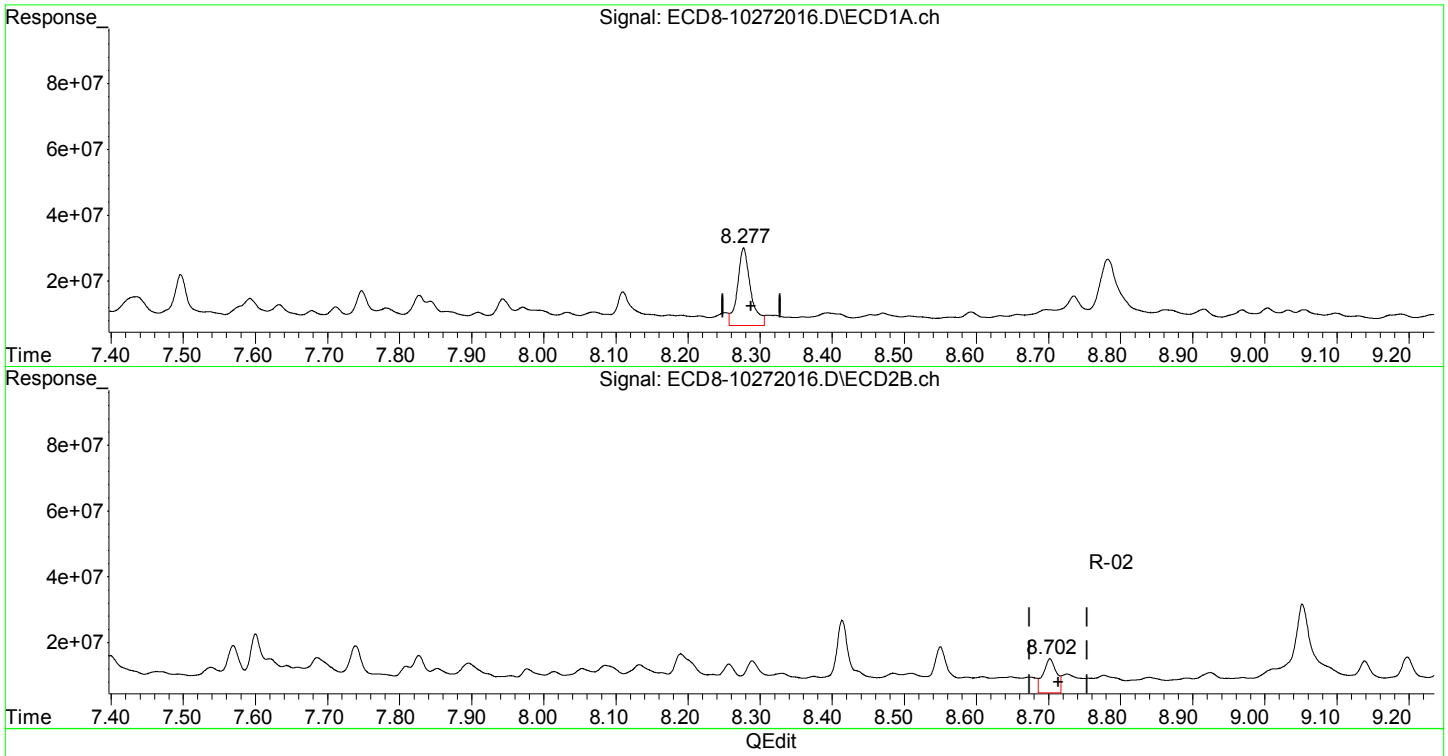
(12) 4,4'-DDE #2
8.289min 2.951 ng/mL
response 9885249

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:31
Operator : MJB
Sample : A0J0371-10RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:36:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



QEdit

(15) 4,4'-DDD
8.277min 8.673 ng/mL
response 23586655

MJB 10/27/20

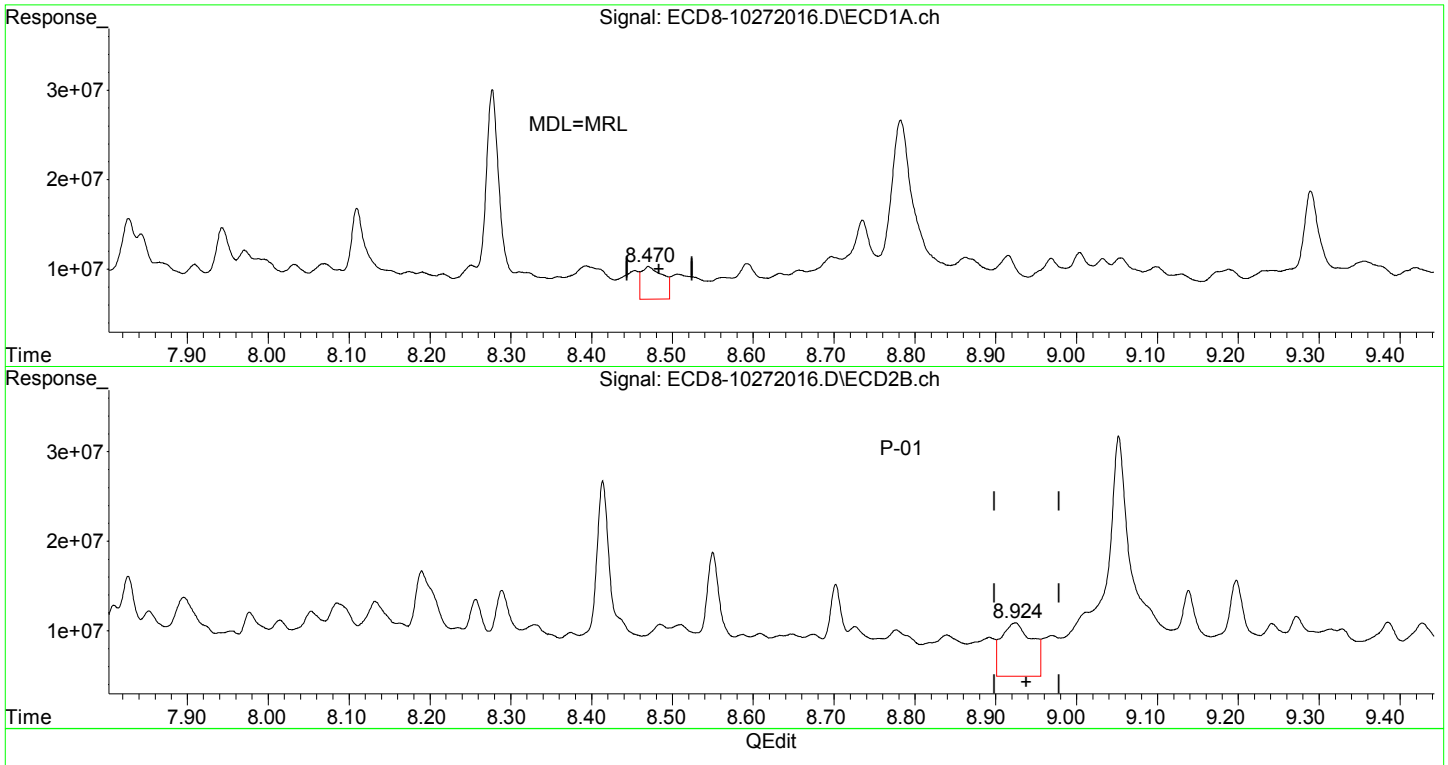
(15) 4,4'-DDD #2
8.702min 3.597 ng/mL
response 10348176

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:31
Operator : MJB
Sample : A0J0371-10RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:36:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(17) 4,4'-DDT
8.471min 1.493 ng/mL
response 3652518

MJB 10/27/20

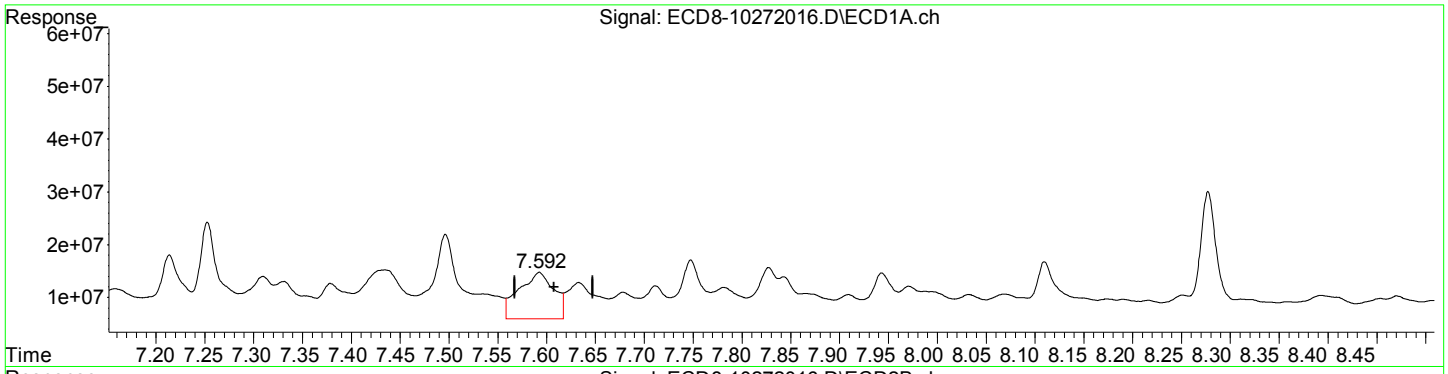
(17) 4,4'-DDT #2
8.924min 2.271 ng/mL
response 5983589

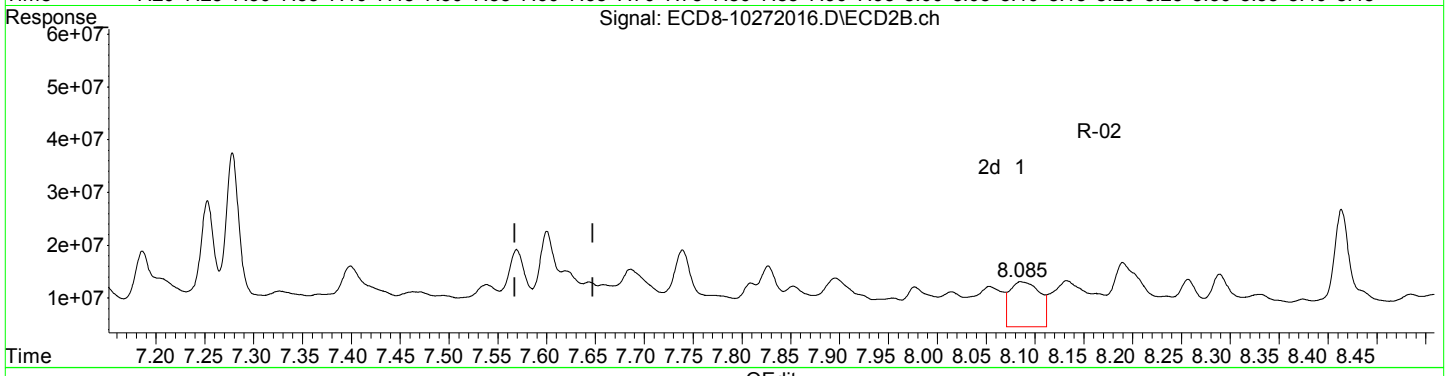
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:31
Operator : MJB
Sample : A0J0371-10RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:36:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(26) 2,4'-DDE
7.593min 4.148 ng/mL
response 8821595

MJB 10/27/20

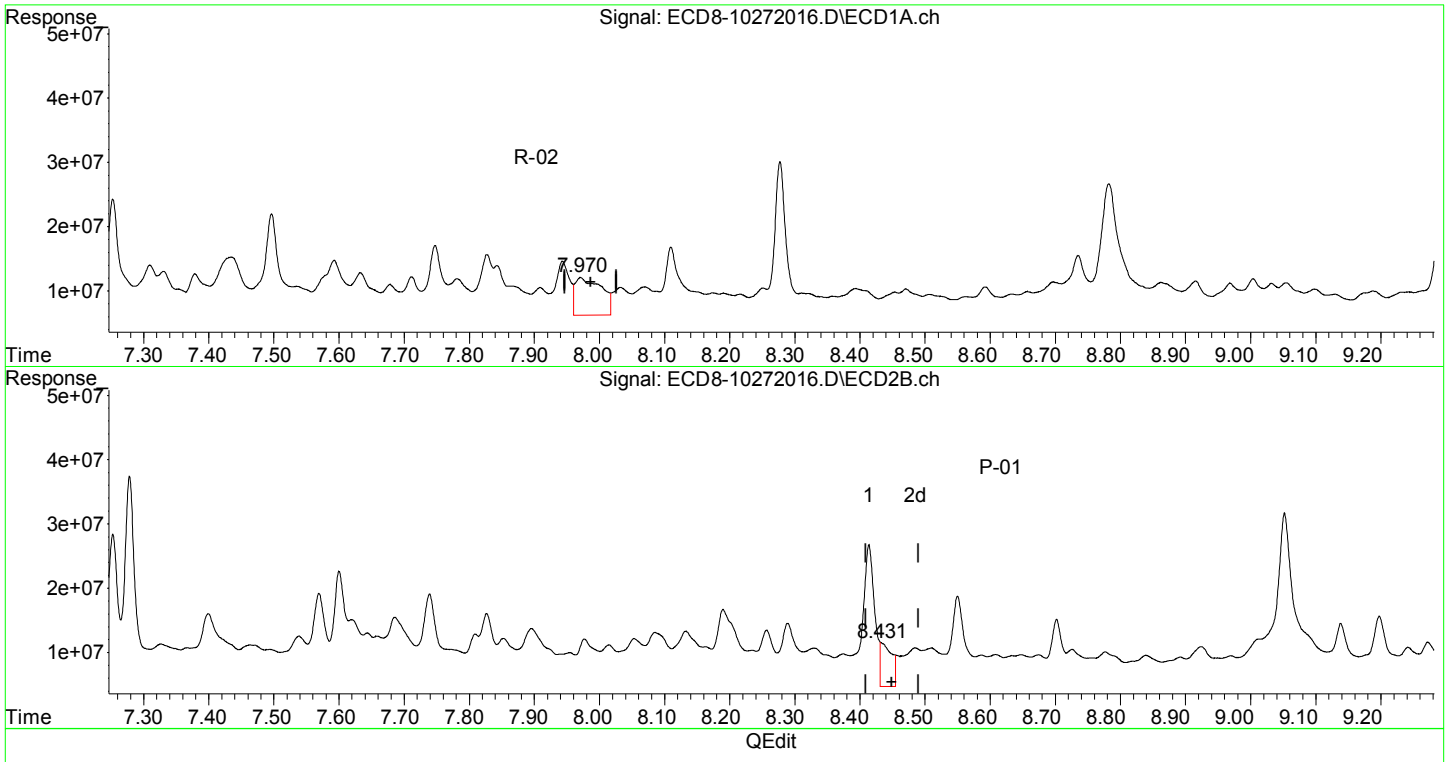
(26) 2,4'-DDE #2
8.086min 3.531 ng/mL
response 8569304

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:31
Operator : MJB
Sample : A0J0371-10RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:36:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD
7.971min 3.064 ng/mL
response 5886701

(28) 2,4'-DDD #2
8.431min 3.295 ng/mL m
response 6947926

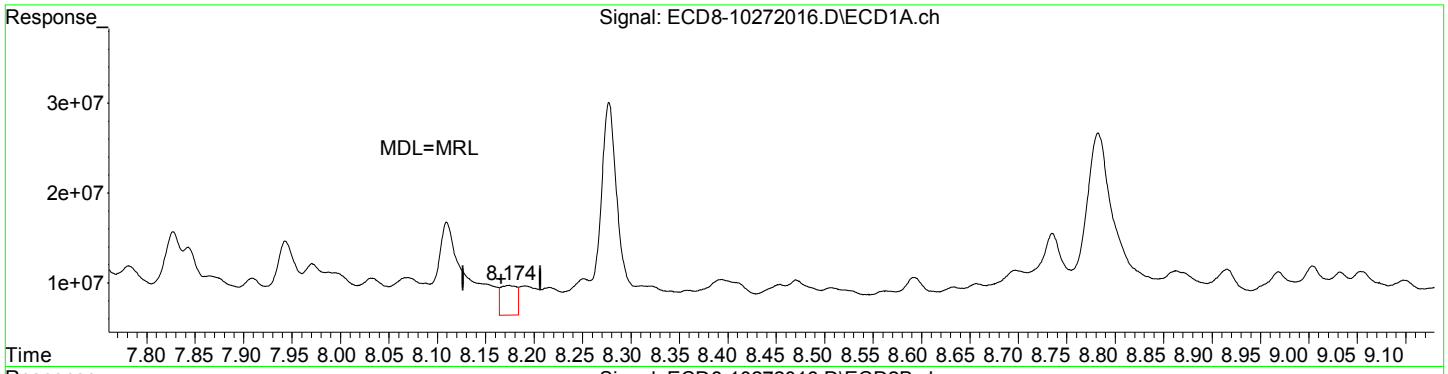
MJB 10/27/20

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:31
Operator : MJB
Sample : A0J0371-10RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:36:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



(29) 2,4'-DDT
8.174min 1.538 ng/mL
response 3299718

MJB 10/27/20

(29) 2,4'-DDT #2
8.674min 2.180 ng/mL
response 4795071

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:31
Operator : MJB
Sample : A0J0371-10RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

MI

MJB 10/27/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:36:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.653	5.963	189.2E6	100.4E6	53.500	25.087	#
22)	S DCBP (S)	9.878	10.471	95995813	92449758	38.302	38.213	
	Target Compounds							
2)	a-BHC	6.236	6.572	6045422	8532380	1.283	1.595	
3)	g-BHC	6.526	6.898	7605276	16309487	1.890	3.507	#
4)	b-BHC	6.565f	6.940	24627910	7503871	15.778	3.835	#
5)	Heptachlor	6.869f	7.253	10206576	24260779	2.515	5.301	#
6)	d-BHC	6.742	7.186	6234292	14767945	2.083	3.706	#
7)	Aldrin	7.158	7.539f	6067028	8280297	1.545	1.940	#
8)	Heptachlo...	7.633	7.955	6869738	5518355	1.879	1.374	#
9)	trans-Chl...	7.712	8.086	6162637	8569304	1.673	2.153	#
10)	cis-Chlor...	7.827f	8.190	9534368	12112721	2.632	3.122	
11)	Endosulfa...	7.909	8.257	4331228	8897049	1.273	2.474	#
12)	4,4'-DDE	7.865	8.289	4623289	9885249	1.467	2.951	#
13)	Dieldrin	8.069	8.414f	4260716	22061533	1.134	5.740	#
14)	Endrin	8.251	8.674	3961294	4795071	1.444	1.875	#
15)	4,4'-DDD	8.277	8.702	23586655	10348176	8.673	3.597	#
16)	Endosulfa...	8.393f	8.839f	3781493	4657342	1.284	1.430	
17)	4,4'-DDT	8.471	8.924	3652518	5983589	1.493	2.271	#
18)	Endrin Al...	8.697	9.052	4574405	26669165	1.311	8.824	#
19)	Endosulfa...	9.004	9.242	4791210	5717645	1.603	1.721	
20)	Methoxychlor	8.782f	9.385	19750731	5823013	14.348	4.074	#
21)	Endrin Ke...	9.242f	9.625	2571158	4683497	0.695	1.199	#
23)	Hexachlor...	3.453	3.674	4660569	2224786	1.274	0.422	#
24)	Hexachlor...	6.047	6.443	6883662	176.5E6	2.058	44.347	#
25)	Oxychlordane	7.535	7.896	4812640	9305625	1.490	2.644	#
26)	2,4'-DDE	7.593	8.086	8821595	8569304	4.148	3.531	
27)	trans-Non...	7.782	8.133f	5787268	8723657	1.602	2.213	#
28)	2,4'-DDD	7.971	8.414f	5886701	22061533	3.064	10.748	#
29)	2,4'-DDT	8.174	8.674	3299718	4795071	1.538	2.180	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:31
Operator : MJB
Sample : A0J0371-10RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:36:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

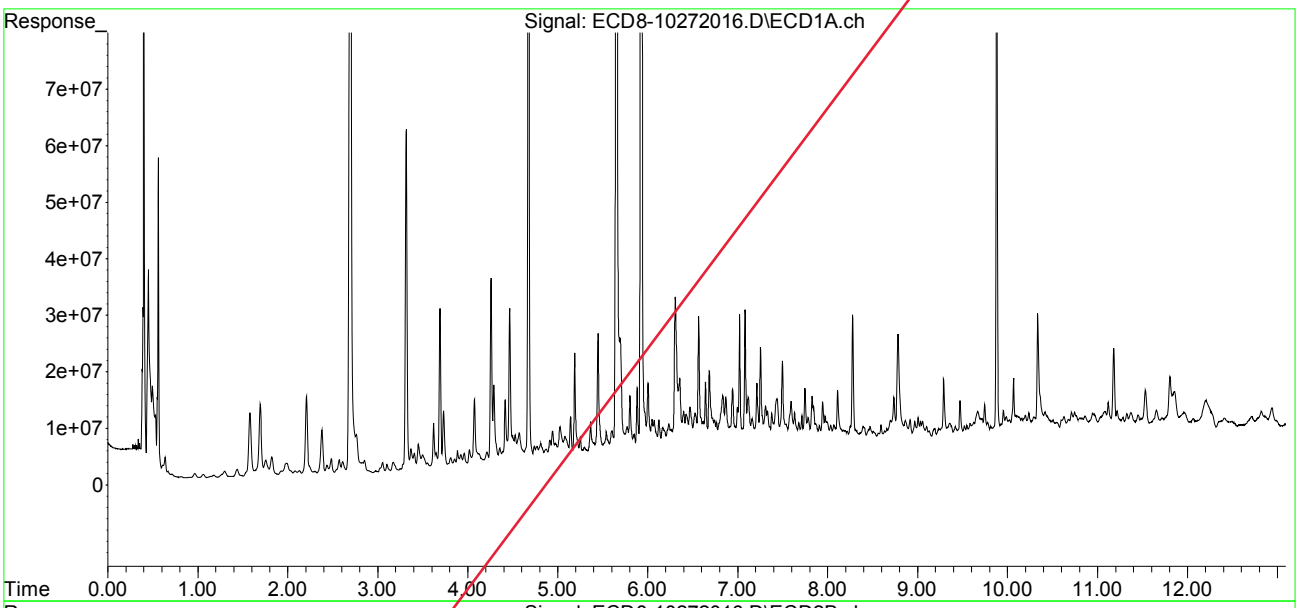
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.277	8.726	23586655	5639401	5.981	1.318	#
31)	Mirex	8.969f	9.625	4162591	4683497	1.473	1.639	
32)	Chlordane...	7.712	8.133f	6162637	8723657	14.960	17.908	
33)	Chlordane...	7.827	8.235	9534368	5751837	22.746	13.893	#
34)	Chlordane...	8.393	8.892f	3781493	4369223	29.324	32.305	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.782f	8.414f	5787268	22061533	389.014	580.482	#
37)	Toxaphene...	8.110	8.777	10409416	5245142	316.024	111.257	#
38)	Toxaphene...	8.393f	8.839	3781493	4657342	54.549	66.219	
39)	Toxaphene...	8.657	8.892	3112205	4369223	41.819	36.675	
40)	Toxaphene...	8.915f	9.052	4510726	26669165	75.985	387.124	#
41)	Toxaphene...	8.969	9.455	4162591	4387754	61.828	58.596	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

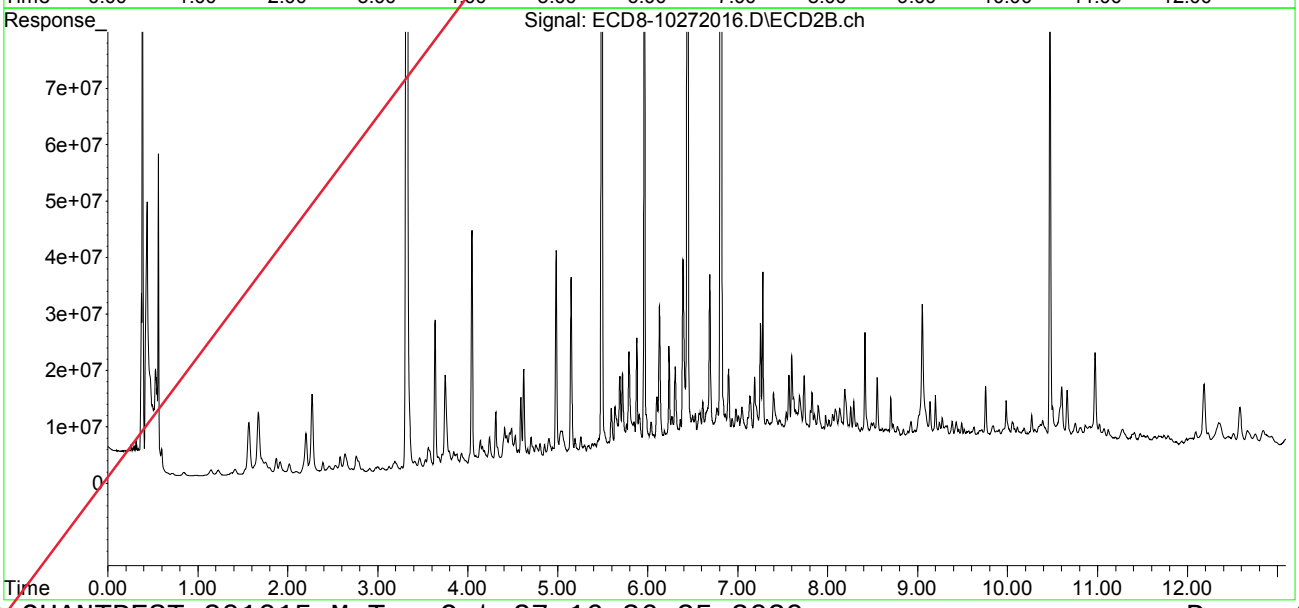
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:31
Operator : MJB
Sample : A0J0371-10RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:36:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:48
Operator : MJB
Sample : 0J27055-CCV3
Misc : A20H476, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

MJB 10/27/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:42:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.660	5.963	346.5E6	424.1E6	97.973	105.990	
22) S	DCBP (S)	9.878	10.472	262.5E6	259.3E6	104.397	107.193	
	Target Compounds							
2)	a-BHC	6.211	6.558	485.5E6	599.7E6	103.047	112.110	
3)	g-BHC	6.497	6.872	429.3E6	527.5E6	106.682	113.438	
4)	b-BHC	6.576	6.938	158.0E6	204.3E6	101.222	104.401	
5)	Heptachlor	6.894	7.244	426.3E6	512.0E6	105.037	111.872	
6)	d-BHC	6.729	7.186	348.9E6	486.3E6	96.660	100.970	
7)	Aldrin	7.136	7.507	423.2E6	490.3E6	107.751	114.849	
8)	Heptachlo...	7.606	7.942	381.5E6	432.5E6	104.349	107.699	
9)	trans-Chl...	7.699	8.082	382.3E6	444.1E6	103.804	111.580	
10)	cis-Chlor...	7.796	8.189	371.0E6	437.2E6	102.415	112.696	
11)	Endosulfa...	7.900	8.238	345.9E6	403.0E6	101.707	112.062	
12)	4,4'-DDE	7.849	8.291	356.3E6	437.5E6	113.077	105.286	
13)	Dieldrin	8.074	8.436	397.8E6	463.0E6	105.881	104.898	
14)	Endrin	8.244	8.659	311.6E6	363.7E6	113.642	112.291	
15)	4,4'-DDD	8.277	8.704	315.8E6	380.3E6	116.104	108.605	
16)	Endosulfa...	8.405	8.806	308.1E6	348.2E6	104.610	106.955	
17)	4,4'-DDT	8.474	8.929	306.1E6	361.5E6	102.478	103.877	
18)	Endrin Al...	8.700	9.041	281.7E6	323.4E6	98.938	102.197	
19)	Endosulfa...	9.005	9.235	306.6E6	359.2E6	102.574	108.119	
20)	Methoxychlor	8.805	9.394	158.3E6	190.0E6	115.025	111.932	
21)	Endrin Ke...	9.207	9.625	375.4E6	455.8E6	101.515	116.679	
23)	Hexachlor...	3.466	3.691	8562	53886	BelowCal	BelowCal	
24)	Hexachlor...	6.048	6.430	708167	188045	0.212	0.047	#
25)	Oxychlordane	7.540	7.863f	1553501	352893	0.481	0.100	#
26)	2,4'-DDE	7.606	8.082	381.5E6	444.1E6	179.368	183.015	
27)	trans-Non...	7.796	8.146	371.0E6	1269905	102.669	0.322	#
28)	2,4'-DDD	0.000	8.436	0	463.0E6	N.D.	188.030	#
29)	2,4'-DDT	8.155	8.659	1097165	363.7E6	0.511	137.250	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:48
Operator : MJB
Sample : 0J27055-CCV3
Misc : A20H476, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:42:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

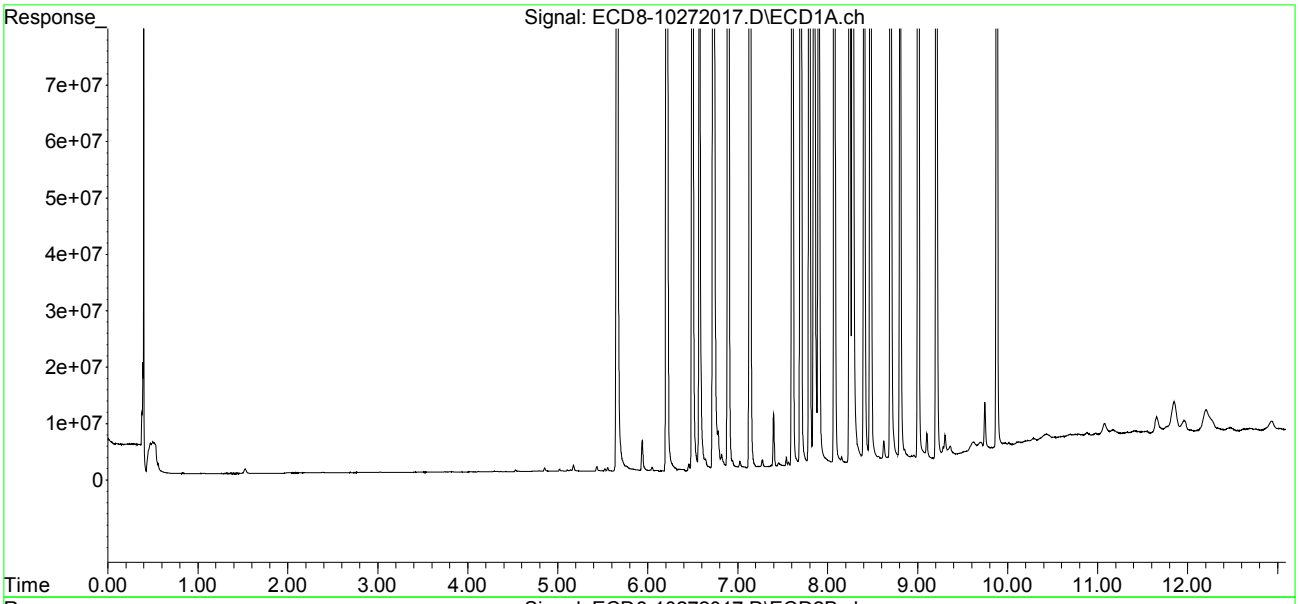
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.277	8.704	315.8E6	380.3E6	80.070	88.893	
31)	Mirex	8.958	9.625	724221	455.8E6	0.001	171.937	#
32)	Chlordane...	7.699f	8.082f	382.3E6	444.1E6	927.967	911.669	
33)	Chlordane...	7.796f	8.238f	371.0E6	403.0E6	885.037	973.471	
34)	Chlordane...	8.405f	8.879	308.1E6	1873094	2389.356	13.849	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.796	8.436	371.0E6	463.0E6	24936.328	12183.406	#
37)	Toxaphene...	8.074f	8.806	397.8E6	348.2E6	12076.270	7386.779	#
38)	Toxaphene...	8.405	8.806	308.1E6	348.2E6	4444.716	4951.400	
39)	Toxaphene...	8.623f	8.879	3517922	1873094	47.271	15.723	#
40)	Toxaphene...	8.855f	9.041f	1850645	323.4E6	31.175	4694.254	#
41)	Toxaphene...	8.958	9.478f	724221	1630767	10.757	21.778	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

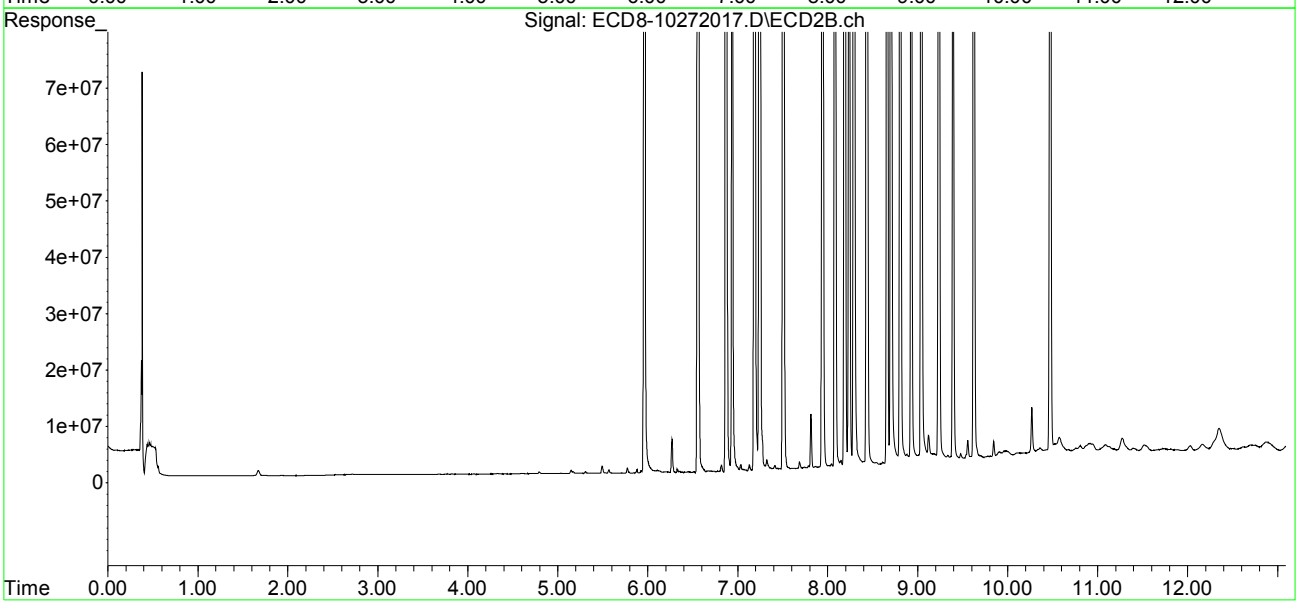
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 15:48
Operator : MJB
Sample : 0J27055-CCV3
Misc : A20H476, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:42:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 16:05
Operator : MJB
Sample : 0J27055-CCV4 MJB 10/27/20
Misc : A20I186, 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:43:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.630f	5.999f	2455733	2612214	0.694	0.653	
22) S	DCBP (S)	9.923f	0.000	1217883	0	0.230	N.D.	#
	Target Compounds							
2)	a-BHC	6.243f	0.000	452667	0	0.096	N.D.	#
3)	g-BHC	6.484f	6.874	139484	55428	0.035	0.012	#
4)	b-BHC	6.590	6.944	75897	100755	0.049	0.051	
5)	Heptachlor	6.896	7.245	694477	768410	0.171	0.168	
6)	d-BHC	6.741	7.189	60295	76746	0.078	0.086	
7)	Aldrin	7.140	7.501	25185	41341	0.006	0.010	#
8)	Heptachlo...	7.598	7.979f	202.1E6	1024607	55.268	0.255	#
9)	trans-Chl...	7.697	8.069f	1375609	249.4E6	0.374	62.667	#
10)	cis-Chlor...	7.783f	0.000	344.9E6	0	95.210	N.D.	#
11)	Endosulfa...	0.000	8.254	0	577035	N.D.	0.160	#
12)	4,4'-DDE	0.000	8.296	0	440480	N.D.	0.178	#
13)	Dieldrin	8.049f	8.440	2650914	226.4E6	0.706	54.801	#
14)	Endrin	8.262	8.662	373.5E6	243.2E6	136.201	79.764	#
15)	4,4'-DDD	8.262f	8.706	373.5E6	432.2E6	137.337	120.910	
16)	Endosulfa...	8.411	8.806	425861	668033	0.145	0.205	#
17)	4,4'-DDT	8.476	8.918f	257814	797483	0.135	0.359	#
18)	Endrin Al...	8.702	9.049	108345	1225829	BelowCal	0.148	
19)	Endosulfa...	9.040f	9.235	1018092	569144	0.341	0.171	#
20)	Methoxychlor	8.783f	9.408	69753	433305	0.051	0.258	#
21)	Endrin Ke...	9.212	9.614f	173083	258.1E6	0.047	66.083	#
23)	Hexachlor...	3.451	3.676	350.9E6	437.9E6	104.627	104.093	
24)	Hexachlor...	6.047	6.427	289.7E6	378.7E6	86.600	95.158	
25)	Oxychlordane	7.529	7.873	304.5E6	354.0E6	94.277	100.566	
26)	2,4'-DDE	7.598	8.069	202.1E6	249.4E6	95.001	102.788	
27)	trans-Non...	7.783	8.148	344.9E6	399.4E6	95.446	101.302	
28)	2,4'-DDD	7.977	8.440	186.7E6	226.4E6	97.193	100.734	
29)	2,4'-DDT	8.157	8.662	200.6E6	243.2E6	93.484	98.053	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 16:05
Operator : MJB
Sample : 0J27055-CCV4
Misc : A20I186, 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:43:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

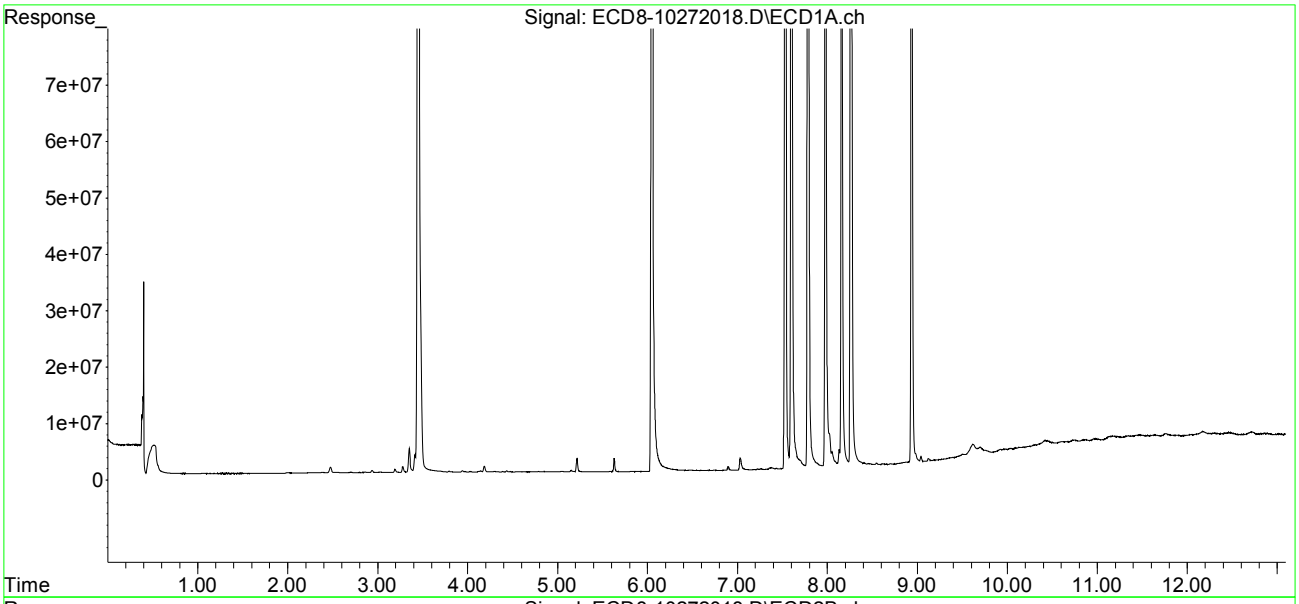
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.262	8.706	373.5E6	432.2E6	94.713	101.030	
31)	Mirex	8.936	9.614	235.6E6	258.1E6	99.872	101.757	
32)	Chlordane...	7.697f	8.148f	1375609	399.4E6	3.339	819.931	#
33)	Chlordane...	7.783f	8.254f	344.9E6	577035	822.773	1.394	#
34)	Chlordane...	8.411f	8.878	425861	672281	3.302	4.971	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.783	8.440	344.9E6	226.4E6	23182.019	5955.958	#
37)	Toxaphene...	8.129f	8.806	3046788	668033	92.499	14.170	#
38)	Toxaphene...	8.411	8.806	425861	668033	6.143	9.498	#
39)	Toxaphene...	8.656	8.890	54854	737058	0.737	6.187	#
40)	Toxaphene...	8.897	9.049f	180385	1225829	3.039	17.794	#
41)	Toxaphene...	8.936f	9.452	235.6E6	437228	3498.782	5.839	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

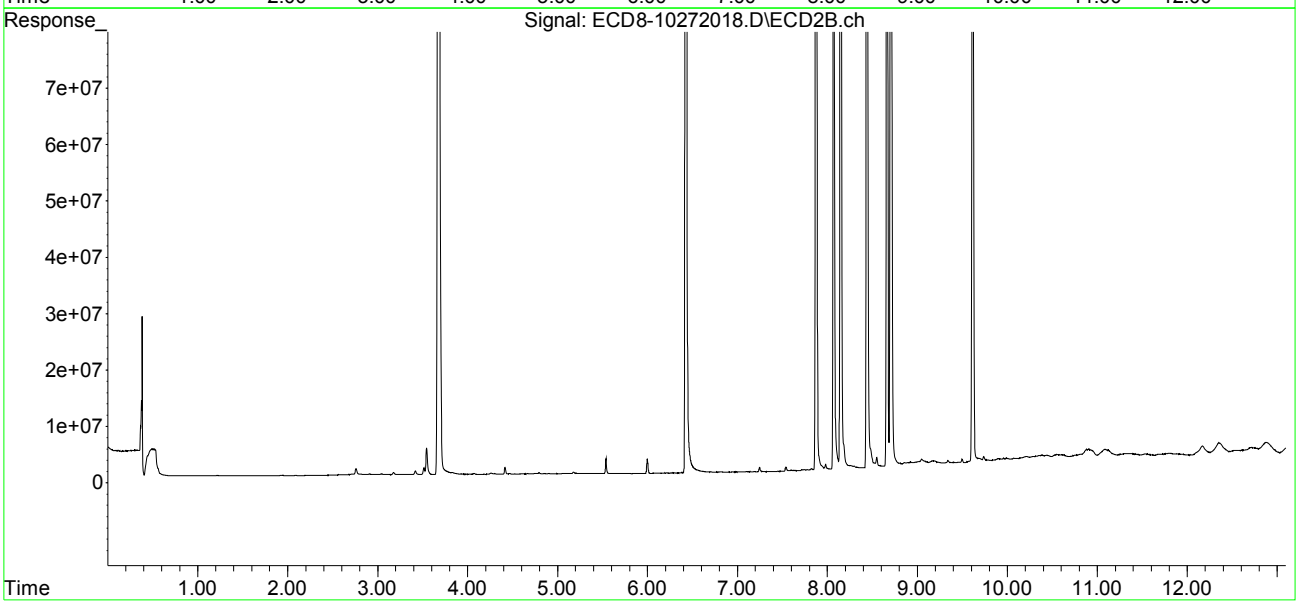
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 16:05
Operator : MJB
Sample : 0J27055-CCV4
Misc : A20I186, 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:43:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 16:21
Operator : MJB
Sample : 0J27055-CCB2
Misc : A20J148
ALS Vial : 7 Sample Multiplier: 1

MJB 10/27/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:43:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.660	5.963	298.2E6	367.9E6	84.316	91.959	
22) S	DCBP (S)	9.880	10.473	237.5E6	231.6E6	94.523	95.746	
	Target Compounds							
2)	a-BHC	6.189f	6.596f	56283	27291	0.012	0.005	#
3)	g-BHC	6.482f	6.892	80117	9112	0.020	0.002	#
4)	b-BHC	6.548f	6.949	10052	21153	0.006	0.011	#
5)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
6)	d-BHC	6.746	7.194	19269	36757	0.064	0.076	
7)	Aldrin	7.166	7.505	22063	14189	0.006	0.003	#
8)	Heptachlo...	0.000	7.956	0	29408	N.D.	0.007	#
9)	trans-Chl...	7.691	8.108	122015	199440	0.033	0.050	#
10)	cis-Chlor...	7.840f	8.195	84692	18585	0.023	0.005	#
11)	Endosulfa...	0.000	8.254	0	9333	N.D.	0.003	#
12)	4,4'-DDE	7.840	8.302	84692	12584	0.027	0.051	#
13)	Dieldrin	8.107f	8.445	46235	14464	0.012	0.020	#
14)	Endrin	0.000	8.704f	0	273412	N.D.	0.132	#
15)	4,4'-DDD	0.000	8.704	0	273412	N.D.	0.097	#
16)	Endosulfa...	8.449f	8.855f	831048	636840	0.282	0.196	#
17)	4,4'-DDT	8.449f	0.000	831048	0	0.365	N.D.	#
18)	Endrin Al...	8.705	9.043	55611	923928	BelowCal	0.044	
19)	Endosulfa...	8.991f	0.000	76833	0	0.026	N.D.	#
20)	Methoxychlor	0.000	9.396	0	276755	N.D.	0.146	#
21)	Endrin Ke...	0.000	9.629	0	439205	N.D.	0.112	#
23)	Hexachlor...	3.480	3.692	6875	52884	BelowCal	BelowCal	
24)	Hexachlor...	6.048	6.426	584807	85852	0.175	0.022	#
25)	Oxychlordane	0.000	7.887	0	36119	N.D.	0.010	#
26)	2,4'-DDE	0.000	8.052f	0	33823	N.D.	0.014	#
27)	trans-Non...	0.000	8.180f	0	18683	N.D.	0.005	#
28)	2,4'-DDD	0.000	8.445	0	14464	N.D.	BelowCal	
29)	2,4'-DDT	0.000	8.704f	0	273412	N.D.	BelowCal	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 16:21
Operator : MJB
Sample : 0J27055-CCB2
Misc : A20J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:43:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

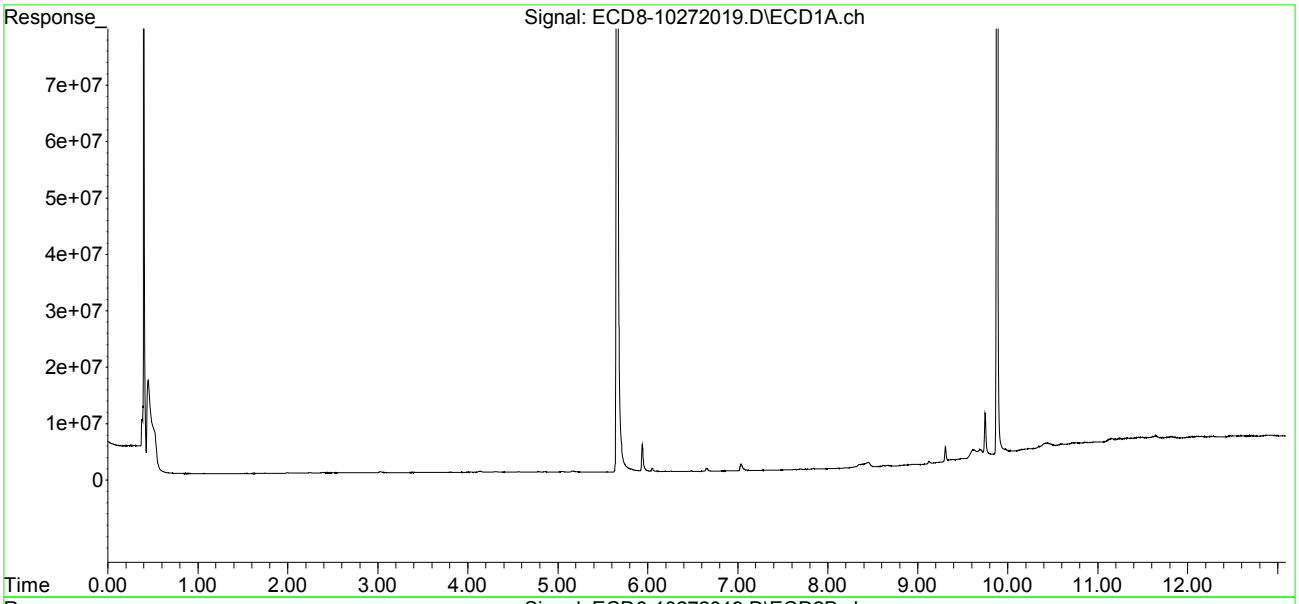
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	0.000	8.725	0	240832	N.D.	0.056	#
31)	Mirex	8.965	9.629	78111	439205	BelowCal	BelowCal	
32)	Chlordane...	7.691f	8.108	122015	199440	0.296	0.409	#
33)	Chlordane...	7.840f	8.212	84692	9047	0.202	0.022	#
34)	Chlordane...	8.355f	8.855	587888	636840	4.559	4.709	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.840f	8.445	84692	14464	5.693	0.381	#
37)	Toxaphene...	8.107	8.775	46235	233047	1.404	4.943	#
38)	Toxaphene...	8.449f	8.855f	831048	636840	11.988	9.055	
39)	Toxaphene...	8.659	8.892	198162	501975	2.663	4.214	#
40)	Toxaphene...	0.000	9.059	0	894066	N.D.	12.978	#
41)	Toxaphene...	8.965	9.441	78111	226886	1.160	3.030	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

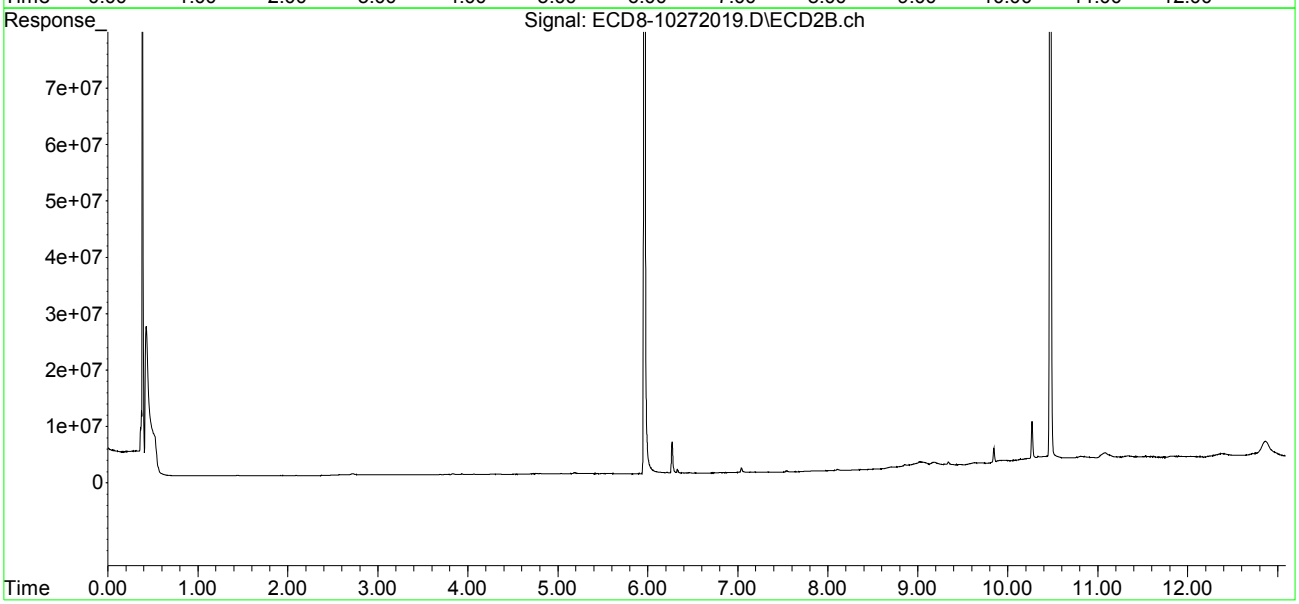
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J27055\
Data File : ECD8-10272019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 16:21
Operator : MJB
Sample : 0J27055-CCB2
Misc : A20J148
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 27 16:43:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Organochloride Pesticides by EPA 8081B
Calibration Data

Sequence 0J15061 (Cal ID A0J2107) DUALECD8

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	**0J15061**	Instrument:	**DUALECD8**
Date:	**10/15/20 16:48**	Calibration:	**A0J2107**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J15061-BKD1	Water	QC	QC				A20H479
2	0J15061-ICB1	Water	QC	QC				A20J148
3	0J15061-CAL1	Water	QC	QC				A20J274
4	0J15061-CAL2	Water	QC	QC				A20J275
5	0J15061-CAL3	Water	QC	QC				A20H471
6	0J15061-CAL4	Water	QC	QC				A20H472
7	0J15061-CAL5	Water	QC	QC				A20H473
8	0J15061-CAL6	Water	QC	QC				A20H474
9	0J15061-CAL7	Water	QC	QC				A20H475
10	0J15061-CAL8	Water	QC	QC				A20H476
11	0J15061-CAL9	Water	QC	QC				A20H470
12	0J15061-IBL1	Water	QC	QC				
13	0J15061-ICV1	Water	QC	QC				A20I130
14	0J15061-CALA	Water	QC	QC				A20J276
15	0J15061-CALB	Water	QC	QC				A20I180
16	0J15061-CALC	Water	QC	QC				A20I181
17	0J15061-CALD	Water	QC	QC				A20I182
18	0J15061-CALE	Water	QC	QC				A20I183
19	0J15061-CALF	Water	QC	QC				A20I184
20	0J15061-CALG	Water	QC	QC				A20I185
21	0J15061-CALH	Water	QC	QC				A20I186
22	0J15061-CALI	Water	QC	QC				A20I179
23	0J15061-IBL2	Water	QC	QC				
24	0J15061-ICV2	Water	QC	QC				A20I187
25	0J15061-CALJ	Water	QC	QC				A20J277
26	0J15061-CALK	Water	QC	QC				A20F057
27	0J15061-CALL	Water	QC	QC				A20F058
28	0J15061-CALM	Water	QC	QC				A20F059
29	0J15061-CALN	Water	QC	QC				A20F060
30	0J15061-CALO	Water	QC	QC				A20F061
31	0J15061-CALP	Water	QC	QC				A20F056
32	0J15061-IBL3	Water	QC	QC				
33	0J15061-ICV3	Water	QC	QC				A20F062
34	0J15061-CALQ	Water	QC	QC				A20J278
35	0J15061-CALR	Water	QC	QC				A20F064
36	0J15061-CALS	Water	QC	QC				A20F065
37	0J15061-CALT	Water	QC	QC				A20F066
38	0J15061-CALU	Water	QC	QC				A20D430
39	0J15061-CALV	Water	QC	QC				A20D431
40	0J15061-CALW	Water	QC	QC				A20F063
41	0J15061-IBL4	Water	QC	QC				
42	0J15061-ICV4	Water	QC	QC				A20F067

Comments: ICAL

Data Entered By/Date: MJB 10/21/20

Data Reviewed By/Date: MKZ 10/22/2020

10/21/2020 1:49:27PM

Calibration Status Report DUALECD8

A0J2107

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_201015.M
Title : Instrument: DualECD8
Last Update : Tue Oct 20 17:18:04 2020
Response Via : Initial Calibration

MJB 10/21/20

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152037.D
2	2	50	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152038.D
3	3	100	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152039.D
4	4	200	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152040.D
5	5	500	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152041.D
6	6	1000	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152042.D
7	7	2000	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152043.D
8	8	-1	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152024.D
9	9	-1	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152025.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Oct 20 17:17 2020	Oct 20 17:01 2020	16 Oct 2020 3:04
2	2	Oct 20 17:17 2020	Oct 20 17:01 2020	16 Oct 2020 3:20
3	3	Oct 20 17:17 2020	Oct 20 17:02 2020	16 Oct 2020 3:37
4	4	Oct 20 17:17 2020	Oct 20 17:02 2020	16 Oct 2020 3:53
5	5	Oct 20 17:17 2020	Oct 20 17:00 2020	16 Oct 2020 4:10
6	6	Oct 20 17:17 2020	Oct 20 17:03 2020	16 Oct 2020 4:26
7	7	Oct 20 17:18 2020	Oct 20 17:04 2020	16 Oct 2020 4:43
8	8	Oct 20 17:07 2020	Oct 20 16:52 2020	15 Oct 2020 23:29
9	9	Oct 20 17:07 2020	Oct 20 16:53 2020	15 Oct 2020 23:46

ECD8_QUANTPEST_201015.M Wed Oct 21 11:49:40 2020

Response Factor Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_201015.M
Title : Instrument: DualECD8
Last Update : Tue Oct 20 17:18:04 2020
Response Via : Initial Calibration

MJB 10/21/20

Calibration Files
1 =ECD8-10152037.D 2 =ECD8-10152038.D 3 =ECD8-10152039.D 4 =ECD8-10152040.D
5 =ECD8-10152041.D 6 =ECD8-10152042.D 7 =ECD8-10152043.D 8 =ECD8-10152024.D
9 =ECD8-10152025.D

		Compound	1	2	3	4	5	6	7	8	9	Avg		%RSD
1)	S	TCMX (S)	3.929	3.675	3.487	3.391	3.379	3.464	3.426	3.539	3.536	3.536	E6	4.89
2)		a-BHC	4.657	4.586	4.532	4.550	4.595	4.804	4.756	4.929	4.995	4.712	E6	3.59
3)		g-BHC	4.143	3.907	3.847	3.714	3.900	4.013	3.994	4.324	4.379	4.025	E6	5.47
4)		b-BHC	1.634	1.541	1.510	1.394	1.425	1.520	1.551	1.730	1.744	1.561	E6	7.79
5)		Heptachlor	4.177	4.125	3.917	3.827	3.917	4.067	3.940	4.255	4.302	4.059	E6	4.12
6)		d-BHC	2.795	2.771	2.954	2.945	3.031	3.315	3.411	3.845	4.062	3.237	E6	14.27
7)		Aldrin	3.968	3.890	3.780	3.809	3.914	3.913	3.878	4.158	4.044	3.928	E6	2.96
8)		Heptachlor Exp...	3.969	3.780	3.556	3.570	3.539	3.584	3.514	3.701	3.691	3.656	E6	4.02
9)		trans-Chlordane	3.851	3.633	3.612	3.480	3.530	3.655	3.660	3.867	3.855	3.683	E6	3.90
10)		cis-Chlordane	3.887	3.711	3.473	3.474	3.541	3.551	3.515	3.725	3.722	3.622	E6	3.98
11)		Endosulfan I	3.613	3.421	3.423	3.279	3.283	3.359	3.295	3.460	3.479	3.401	E6	3.24
12)		4,4'-DDE	2.977	2.807	2.916	2.871	3.025	3.167	3.303	3.628	3.667	3.151	E6	10.13
13)		Dieldrin	3.781	3.677	3.609	3.617	3.755	3.745	3.744	3.958	3.926	3.757	E6	3.23
14)		Endrin	2.686	2.564	2.599	2.529	2.597	2.748	2.777	3.089	3.090	2.742	E6	7.79
15)		4,4'-DDD	2.676	2.562	2.554	2.463	2.561	2.715	2.682	3.139	3.124	2.720	E6	9.06
16)		Endosulfan II	3.065	2.929	2.888	2.764	2.851	2.908	2.847	3.121	3.136	2.945	E6	4.47
17)		4,4'-DDT	2.405	2.341	2.388	2.338	2.510	2.748	2.758	3.214	3.322	2.669	E6	14.07
18)		Endrin Aldehyde	4.347	3.908	3.679	2.956	2.788	2.743	2.686	2.824	2.918	3.205	E6	19.01
19)		Endosulfan Sul...	3.464	3.157	2.953	2.793	2.810	2.880	2.851	3.010	2.981	2.989	E6	7.07
20)		Methoxychlor	1.425	1.332	1.357	1.265	1.266	1.304	1.280	1.584	1.577	1.377	E6	9.16
21)		Endrin Ketone	4.138	3.789	3.637	3.605	3.561	3.534	3.560	3.682	3.775	3.698	E6	5.11
22)	S	DCBP (S)	3.733	3.198	2.851	2.573	2.566	2.493	2.431	2.544	2.545	2.770	E6	15.58
23)		Hexachlorobuta...	4.478	3.775	3.564	3.292	3.139	3.152	3.362	3.207	3.605	3.508	E6	12.12
24)		Hexachlorobenzene	3.941	3.664	3.270	3.091	3.152	3.191	3.191	3.225	3.381	3.345	E6	8.37
25)		Oxychlordane	3.876	3.611	3.104	3.019	3.085	3.097	2.992	3.048	3.234	3.229	E6	9.49
26)		2,4'-DDE	2.403	2.331	1.951	1.915	2.017	2.089	2.067	2.101	2.269	2.127	E6	8.00
27)		trans-Nonachlor	4.327	3.911	3.429	3.358	3.448	3.520	3.381	3.432	3.713	3.613	E6	8.91

Response Factor Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_201015.M
Title : Instrument: DualECD8
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28)	2,4'-DDD	2.250	2.191	1.841	1.750	1.765	1.864	1.780	1.858	1.992	1.921	E6	9.63
29)	2,4'-DDT	2.443	2.264	1.871	1.917	1.970	2.100	2.163	2.207	2.377	2.146	E6	9.33
30)	cis-Nonachlor	4.723	4.531	3.734	3.574	3.715	3.743	3.679	3.782	4.012	3.944	E6	10.33
31)	Mirex	3.652	3.315	2.722	2.410	2.437	2.363	2.261	2.287	2.431	2.653	E6	18.69
32)	Chlordane (1)	4.102	3.908	4.010	4.192	4.181	3.973	4.471			4.120	E5	4.55
33)	Chlordane (2)	4.385	4.171	4.093	4.184	4.132	3.975	4.402			4.192	E5	3.68
34)	Chlordane (3)	1.338	1.251	1.247	1.269	1.283	1.267	1.373			1.290	E5	3.69
35)	Chlordane - AVE										0.000		-1.00
36)	Toxaphene (1)	1.447	1.453		1.464	1.471	1.501	1.591			1.488	E4	3.62
37)	Toxaphene (2)	3.307	3.297		3.266	3.224	3.273	3.396			3.294	E4	1.75
38)	Toxaphene (3)	6.884	6.809		6.691	6.899	6.946	7.366			6.932	E4	3.32
39)	Toxaphene (4)	8.066	7.198		7.170	7.061	7.446	7.711			7.442	E4	5.17
40)	Toxaphene (5)	5.431	5.740		5.792	5.920	6.188	6.547			5.936	E4	6.53
41)	Toxaphene (6)	6.815	6.489		6.505	6.607	6.724	7.255			6.733	E4	4.24
42)	Toxaphene - AVE										0.000		-1.00

Signal #2 Calibration Files

1 =ECD8-10152037.D 2 =ECD8-10152038.D 3 =ECD8-10152039.D
4 =ECD8-10152040.D 5 =ECD8-10152041.D 6 =ECD8-10152042.D

	Compound	1	2	3	4	5	6	Avg	%RSD		
44) S	TCMX (S) #2	4.189	3.997	3.764	3.697	3.769	3.901	4.046	4.257	4.387	4.001 E6	6.03
45)	a-BHC #2	4.911	4.867	4.792	5.055	5.166	5.506	5.528	5.989	6.325	5.349 E6	9.96
46)	g-BHC #2	4.456	4.265	4.241	4.263	4.505	4.729	4.849	5.069	5.477	4.650 E6	9.09
47)	b-BHC #2	2.131	1.995	1.872	1.765	1.780	1.847	1.973	2.111	2.136	1.957 E6	7.57
48)	Heptachlor #2	4.532	4.335	4.178	4.145	4.411	4.568	4.704	5.004	5.316	4.577 E6	8.38
49)	d-BHC #2	3.632	3.593	3.761	3.803	4.091	4.383	4.542	5.076	5.413	4.255 E6	15.36
50)	Aldrin #2	3.971	3.922	3.903	3.883	4.111	4.370	4.568	4.769	4.926	4.269 E6	9.43
51)	Heptachlor Exp...	4.068	3.912	3.751	3.674	3.849	3.972	4.021	4.427	4.469	4.016 E6	6.85
52)	trans-Chlordan...	3.939	3.717	3.598	3.626	3.762	3.918	4.125	4.494	4.644	3.980 E6	9.39
53)	cis-Chlordane #2	3.981	3.697	3.562	3.564	3.727	3.812	3.910	4.216	4.448	3.880 E6	7.67
54)	Endosulfan I #2	3.638	3.425	3.225	3.278	3.429	3.631	3.654	3.951	4.136	3.596 E6	8.34
55)	4,4'-DDE #2	3.178	3.084	3.234	3.173	3.369	3.700	3.914	4.401	4.661	3.635 E6	15.93
56)	Dieldrin #2	3.808	3.654	3.603	3.754	3.868	4.154	4.116	4.598	4.823	4.042 E6	10.53
57)	Endrin #2	2.483	2.522	2.483	2.477	2.497	2.830	2.946	3.459	3.586	2.809 E6	15.66

Response Factor Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_201015.M
Title : Instrument: DualECD8
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58)		4,4'-DDD #2	2.921	2.805	2.727	2.746	2.944	3.074	3.264	3.619	3.927	3.114 E6	13.37
59)		Endosulfan II #2	3.312	3.081	2.977	2.893	3.012	3.167	3.309	3.668	3.885	3.256 E6	10.18
60)		4,4'-DDT #2	2.456	2.448	2.433	2.551	2.696	3.041	3.168	3.737	4.032	2.951 E6	20.17
61)		Endrin Aldehyd...	4.392	3.815	3.590	3.014	2.948	2.931	2.921	3.193	3.421	3.358 E6	14.98
62)		Endosulfan Sul...	3.729	3.259	3.134	2.994	3.045	3.149	3.257	3.619	3.719	3.323 E6	8.71
63)		Methoxychlor #2	1.544	1.490	1.459	1.335	1.410	1.512	1.501	1.811	1.863	1.547 E6	11.37
64)		Endrin Ketone #2	.	4.169	3.597	3.529	3.656	3.736	3.865	4.180	4.518	3.906 E6	8.92
65)	S	DCBP (S) #2	2.822	2.587	2.396	2.257	2.222	2.250	2.249	2.423	2.569	2.419 E6	8.47
66)		Hexachlorobuta...	5.014	4.324	4.053	3.787	3.617	3.772	4.198	4.034	4.737	4.171 E6	11.06
67)		Hexachlorobenz...	4.698	4.209	3.719	3.569	3.607	3.764	3.869	4.032	4.353	3.980 E6	9.51
68)		Oxychlordane #2	4.122	3.743	3.313	3.122	3.320	3.387	3.406	3.517	3.747	3.520 E6	8.62
69)		2,4'-DDE #2	2.610	2.508	2.192	2.163	2.214	2.396	2.356	2.561	2.839	2.427 E6	9.25
70)		trans-Nonachlo...	4.656	4.195	3.581	3.491	3.571	3.802	3.773	4.052	4.365	3.943 E6	10.16
71)		2,4'-DDD #2	2.638	2.546	2.065	1.988	2.044	2.135	2.156	2.226	2.489	2.254 E6	10.68
72)		2,4'-DDT #2	2.711	2.395	1.994	2.023	2.091	2.321	2.406	2.573	2.835	2.372 E6	12.63
73)		cis-Nonachlor #2	4.948	4.588	3.815	3.779	3.915	4.131	4.168	4.351	4.807	4.278 E6	9.98
74)		Mirex #2	3.883	3.436	2.702	2.432	2.447	2.433	2.469	2.545	2.691	2.782 E6	18.69
75)		Chlordane (1) #2	4.426	4.438	4.652	4.796	5.103	4.901	5.785			4.871 E5	9.66
76)		Chlordane (2) #2	4.119	3.694	3.945	4.056	4.155	4.277	4.734			4.140 E5	7.74
77)		Chlordane (3) #2	1.424	1.230	1.254	1.289	1.375	1.385	1.511			1.353 E5	7.42
78)		Chlordane - AV...										0.000	-1.00
79)		Toxaphene (1) #2	3.990	3.890		3.616	3.622	3.704	3.982			3.801 E4	4.59
80)		Toxaphene (2) #2	4.640	4.607		4.470	4.549	4.784	5.237			4.714 E4	5.86
81)		Toxaphene (3) #2	7.542	6.785		6.549	6.755	7.009	7.559			7.033 E4	6.06
82)		Toxaphene (4) #2	1.350	1.134		1.076	1.108	1.201	1.279			1.191 E5	8.92
83)		Toxaphene (5) #2	7.023	6.526		6.423	6.708	6.980	7.674			6.889 E4	6.57
84)		Toxaphene (6) #2	7.799	7.048		6.995	7.324	7.597	8.166			7.488 E4	6.07
85)		Toxaphene - AV...										0.000	-1.00

No 100pt used for TOX. Wrong standard vialed

(#) = Out of Range

MKZ 10/22/2020

Compound List Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_201015.M
Title : Instrument: DualECD8
Last Update : Tue Oct 20 17:18:04 2020
Response Via : Initial Calibration

Total Cpnds : 85

MJB 10/21/20

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX (S)	5.683	1.000	A	H	R
2		a-BHC	6.234	1.000	A	H	R
3		g-BHC	6.520	1.000	A	H	R
4		b-BHC	6.601	1.000	A	H	R
5		Heptachlor	6.919	1.000	A	H	R
6		d-BHC	6.754	1.000	Q	H	R
7		Aldrin	7.162	1.000	A	H	R
8		Heptachlor Expoxide	7.631	1.000	A	H	R
9		trans-Chlordane	7.723	1.000	A	H	R
10		cis-Chlordane	7.821	1.000	A	H	R
11		Endosulfan I	7.925	1.000	A	H	R
12		4,4'-DDE	7.872	1.000	A	H	R
13		Dieldrin	8.098	1.000	A	H	R
14		Endrin	8.268	1.000	A	H	R
15		4,4'-DDD	8.303	1.000	A	H	R
16		Endosulfan II	8.429	1.000	A	H	R
17		4,4'-DDT	8.497	1.000	Q	H	R
18		Endrin Aldehyde	8.724	1.000	Q	H	R
19		Endosulfan Sulfate	9.030	1.000	A	H	R
20		Methoxychlor	8.831	1.000	A	H	R
21		Endrin Ketone	9.233	1.000	A	H	R
22	S	DCBP (S)	9.902	1.000	Q	H	R
23		Hexachlorobutadiene	3.474	1.000	Q	H	R
24		Hexachlorobenzene	6.069	1.000	A	H	R
25		Oxychlordane	7.553	1.000	A	H	R
26		2,4'-DDE	7.620	1.000	A	H	R
27		trans-Nonachlor	7.807	1.000	A	H	R
28		2,4'-DDD	8.000	1.000	A	H	R
29		2,4'-DDT	8.180	1.000	A	H	R
30		cis-Nonachlor	8.285	1.000	A	H	R
31		Mirex	8.960	1.000	Q	H	R
32		Chlordane (1)	7.723	1.000	A	H	R
33		Chlordane (2)	7.818	1.000	A	H	R
34		Chlordane (3)	8.378	1.000	A	H	R
35		Chlordane - AVE	0.205	1.000	A	H	R
36		Toxaphene (1)	7.803	1.000	A	H	R
37		Toxaphene (2)	8.099	1.000	A	H	R
38		Toxaphene (3)	8.419	1.000	A	H	R
39		Toxaphene (4)	8.657	1.000	A	H	R
40		Toxaphene (5)	8.893	1.000	A	H	R
41		Toxaphene (6)	8.962	1.000	A	H	R
42		Toxaphene - AVE	0.205	1.000	A	H	R
43		Signal #2	0.205	1.000	A	H	R
44	S	TCMX (S) #2	5.990	1.000	A	H	R
45		a-BHC #2	6.585	1.000	A	H	R
46		g-BHC #2	6.900	1.000	A	H	R
47		b-BHC #2	6.966	1.000	A	H	R
48		Heptachlor #2	7.273	1.000	A	H	R
49		d-BHC #2	7.214	1.000	Q	H	R
50		Aldrin #2	7.536	1.000	A	H	R
51		Heptachlor Expoxide #2	7.971	1.000	A	H	R
52		trans-Chlordane #2	8.110	1.000	A	H	R
53		cis-Chlordane #2	8.217	1.000	A	H	R
54		Endosulfan I #2	8.267	1.000	A	H	R
55		4,4'-DDE #2	8.319	1.000	Q	H	R
56		Dieldrin #2	8.464	1.000	Q	H	R

57		Endrin #2	8.688	1.000		Q	H	R
58		4,4'-DDD #2	8.732	1.000		Q	H	R
59		Endosulfan II #2	8.835	1.000		A	H	R
60		4,4'-DDT #2	8.956	1.000		Q	H	R
61		Endrin Aldehyde #2	9.070	1.000		Q	H	R
62		Endosulfan Sulfate #2	9.264	1.000		A	H	R
63		Methoxychlor #2	9.423	1.000		Q	H	R
64		Endrin Ketone #2	9.655	1.000		A	H	R
65	S	DCBP (S) #2	10.505	1.000		A	H	R
66		Hexachlorobutadiene #2	3.702	1.000		Q	H	R
67		Hexachlorobenzene #2	6.453	1.000		A	H	R
68		Oxychlordane #2	7.901	1.000		A	H	R
69		2,4'-DDE #2	8.096	1.000		A	H	R
70		trans-Nonachlor #2	8.176	1.000		A	H	R
71		2,4'-DDD #2	8.467	1.000		Q	H	R
72		2,4'-DDT #2	8.689	1.000		Q	H	R
73		cis-Nonachlor #2	8.734	1.000		A	H	R
74		Mirex #2	9.643	1.000		Q	H	R
75		Chlordane (1) #2	8.109	1.000		A	H	R
76		Chlordane (2) #2	8.216	1.000		A	H	R
77		Chlordane (3) #2	8.871	1.000		A	H	R
78		Chlordane - AVE #2	0.205	1.000		A	H	R
79		Toxaphene (1) #2	8.443	1.000		A	H	R
80		Toxaphene (2) #2	8.791	1.000		A	H	R
81		Toxaphene (3) #2	8.824	1.000		A	H	R
82		Toxaphene (4) #2	8.891	1.000		A	H	R
83		Toxaphene (5) #2	9.069	1.000		A	H	R
84		Toxaphene (6) #2	9.442	1.000		A	H	R
85		Toxaphene - AVE #2	0.205	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

ECD8_QUANTPEST_201015.M Wed Oct 21 14:32:49 2020

Calibration Report DUALECD8

Method Path : C:\msdchem\1\methods\
Method File : ECD8_QUANTPEST_201015.M
Title : Instrument: DualECD8
Last Update : Tue Oct 20 17:18:04 2020
Response Via : Initial Calibration

MJB 10/21/20

Calibration Files
1 =ECD8-10152037 2 =ECD8-10152038 3 =ECD8-10152039 4 =ECD8-10152040 5 =ECD8-1(
6 =ECD8-10152042 7 =ECD8-10152043 8 =ECD8-10152024 9 =ECD8-10152025

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S	TCMX (S)	Avg	-----	3.5364 e6	-----	0.0489
2)	a-BHC	Avg	-----	4.7115 e6	-----	0.0359
3)	g-BHC	Avg	-----	4.0246 e6	-----	0.0547
4)	b-BHC	Avg	-----	1.5609 e6	-----	0.0779
5)	Heptachlor	Avg	-----	4.0585 e6	-----	0.0412
6)	d-BHC	Quad	-1.7797 e5	3.0667 e6	5.6377 e3	0.9983
7)	Aldrin	Avg	-----	3.9280 e6	-----	0.0296
8)	Heptachlor Expoxide	Avg	-----	3.6560 e6	-----	0.0402
9)	trans-Chlordane	Avg	-----	3.6827 e6	-----	0.0390
10)	cis-Chlordane	Avg	-----	3.6222 e6	-----	0.0398
11)	Endosulfan I	Avg	-----	3.4013 e6	-----	0.0324
12)	4,4'-DDE	Avg	-----	3.1511 e6	-----	0.1013
13)	Dieldrin	Avg	-----	3.7568 e6	-----	0.0323
14)	Endrin	Avg	-----	2.7423 e6	-----	0.0779
15)	4,4'-DDD	Avg	-----	2.7197 e6	-----	0.0906
16)	Endosulfan II	Avg	-----	2.9454 e6	-----	0.0447
17)	4,4'-DDT	Quad	-7.9968 e4	2.4923 e6	4.8342 e3	0.9972
18)	Endrin Aldehyde	Quad	8.5273 e5	2.8378 e6	1.0492 e1	0.9934
19)	Endosulfan Sulfate	Avg	-----	2.9886 e6	-----	0.0707
20)	Methoxychlor	Avg	-----	1.3766 e6	-----	0.0916
21)	Endrin Ketone	Avg	-----	3.6979 e6	-----	0.0511
22) S	DCBP (S)	Quad	6.4883 e5	2.4782 e6	2.8953 e2	0.9995
23)	Hexachlorobutadiene	Quad	6.8398 e5	3.1180 e6	2.1905 e3	0.9992
24)	Hexachlorobenzene	Avg	-----	3.3451 e6	-----	0.0837
25)	Oxychlordane	Avg	-----	3.2295 e6	-----	0.0949
26)	2,4'-DDE	Avg	-----	2.1269 e6	-----	0.0800
27)	trans-Nonachlor	Avg	-----	3.6133 e6	-----	0.0891
28)	2,4'-DDD	Avg	-----	1.9214 e6	-----	0.0963
29)	2,4'-DDT	Avg	-----	2.1460 e6	-----	0.0933
30)	cis-Nonachlor	Avg	-----	3.9436 e6	-----	0.1033
31)	Mirex	Quad	7.2269 e5	2.3348 e6	1.6530 e2	0.9969
32)	Chlordane (1)	Avg	-----	4.1195 e5	-----	0.0455
33)	Chlordane (2)	Avg	-----	4.1916 e5	-----	0.0368
34)	Chlordane (3)	Avg	-----	1.2896 e5	-----	0.0369
35)	Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)	Toxaphene (1)	Avg	-----	1.4877 e4	-----	0.0362
37)	Toxaphene (2)	Avg	-----	3.2939 e4	-----	0.0175
38)	Toxaphene (3)	Avg	-----	6.9323 e4	-----	0.0332
39)	Toxaphene (4)	Avg	-----	7.4421 e4	-----	0.0517
40)	Toxaphene (5)	Avg	-----	5.9363 e4	-----	0.0653
41)	Toxaphene (6)	Avg	-----	6.7325 e4	-----	0.0424
42)	Toxaphene - AVE	Avg	-----	-----	-----	0.0000

Signal #2

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S	TCMX (S)	Avg	-----	4.0009 e6	-----	0.0603
2)	a-BHC	Avg	-----	5.3488 e6	-----	0.0996
3)	g-BHC	Avg	-----	4.6505 e6	-----	0.0909
4)	b-BHC	Avg	-----	1.9566 e6	-----	0.0757
5)	Heptachlor	Avg	-----	4.5769 e6	-----	0.0838
6)	d-BHC	Quad	-2.6996 e5	4.0288 e6	7.8258 e3	0.9979
7)	Aldrin	Avg	-----	4.2693 e6	-----	0.0943

8)		Heptachlor Expoxide	Avg	-----		4.0159 e6	-----	0.0685
9)		trans-Chlordane	Avg	-----		3.9802 e6	-----	0.0939
10)		cis-Chlordane	Avg	-----		3.8797 e6	-----	0.0767
11)		Endosulfan I	Avg	-----		3.5964 e6	-----	0.0834
12)		4,4'-DDE	Quad	-1.6090	e5	3.3826 e6	7.3549 e3	0.9972
13)		Dieldrin	Quad	-6.3021	e4	3.8221 e6	5.6503 e3	0.9984
14)		Endrin	Quad	-6.8102	e4	2.5827 e6	5.8509 e3	0.9969
15)		4,4'-DDD	Quad	-4.6773	e3	2.8564 e6	5.9397 e3	0.9984
16)		Endosulfan II	Avg	-----		3.2560 e6	-----	0.1018
17)		4,4'-DDT	Quad	-1.7019	e5	2.6920 e6	7.6065 e3	0.9964
18)		Endrin Aldehyde	Quad	7.9510	e5	2.9110 e6	2.4027 e3	0.9977
19)		Endosulfan Sulfate	Avg	-----		3.3227 e6	-----	0.0871
20)		Methoxychlor	Quad	7.1656	e4	1.4011 e6	2.6390 e3	0.9975
21)		Endrin Ketone	Avg	-----		3.9062 e6	-----	0.0892
22)	S	DCBP (S)	Avg	-----		2.4193 e6	-----	0.0847
23)		Hexachlorobutadiene	Quad	6.8796	e5	3.6391 e6	5.3879 e3	0.9987
24)		Hexachlorobenzene	Avg	-----		3.9800 e6	-----	0.0951
25)		Oxychlordane	Avg	-----		3.5197 e6	-----	0.0862
26)		2,4'-DDE	Avg	-----		2.4266 e6	-----	0.0925
27)		trans-Nonachlor	Avg	-----		3.9429 e6	-----	0.1016
28)		2,4'-DDD	Quad	3.5346	e5	1.9931 e6	2.4870 e3	0.9976
29)		2,4'-DDT	Quad	3.0727	e5	2.0490 e6	4.3633 e3	0.9965
30)		cis-Nonachlor	Avg	-----		4.2779 e6	-----	0.0998
31)		Mirex	Quad	8.1350	e5	2.3587 e6	1.6715 e3	0.9975
32)		Chlordane (1)	Avg	-----		4.8714 e5	-----	0.0966
33)		Chlordane (2)	Avg	-----		4.1400 e5	-----	0.0774
34)		Chlordane (3)	Avg	-----		1.3525 e5	-----	0.0742
35)		Chlordane - AVE	Avg	-----		-----	-----	0.0000
36)		Toxaphene (1)	Avg	-----		3.8006 e4	-----	0.0459
37)		Toxaphene (2)	Avg	-----		4.7144 e4	-----	0.0586
38)		Toxaphene (3)	Avg	-----		7.0333 e4	-----	0.0606
39)		Toxaphene (4)	Avg	-----		1.1913 e5	-----	0.0892
40)		Toxaphene (5)	Avg	-----		6.8890 e4	-----	0.0657
41)		Toxaphene (6)	Avg	-----		7.4882 e4	-----	0.0607
42)		Toxaphene - AVE	Avg	-----		-----	-----	0.0000

ECD8_QUANTPEST_201015.M Wed Oct 21 14:34:34 2020

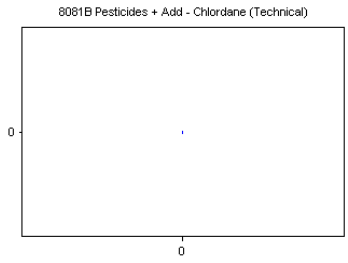
Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Chlordane (Technical)

Curve Fit: **AVERAGE RF**

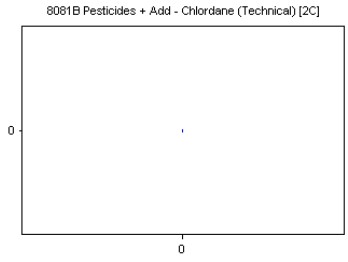


Standard	Concentration	Response	Response Factor	RT
0J15061-CALJ	10	0	0.000	0.00
0J15061-CALK	50	0	0.000	0.00
0J15061-CALL	100	0	0.000	0.00
0J15061-CALM	200	0	0.000	0.00
0J15061-CALN	500	0	0.000	0.00
0J15061-CALO	1000	0	0.000	0.00
0J15061-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Chlordane (Technical) [2C]

Curve Fit: **AVERAGE RF**

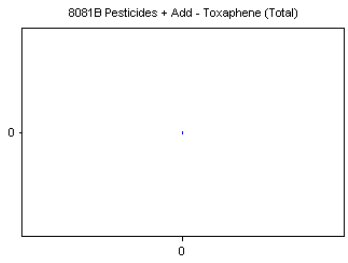


Standard	Concentration	Response	Response Factor	RT
0J15061-CALJ	10	0	0.000	0.00
0J15061-CALK	50	0	0.000	0.00
0J15061-CALL	100	0	0.000	0.00
0J15061-CALM	200	0	0.000	0.00
0J15061-CALN	500	0	0.000	0.00
0J15061-CALO	1000	0	0.000	0.00
0J15061-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Toxaphene (Total)

Curve Fit: **AVERAGE RF**

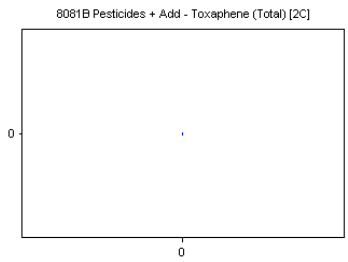


Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	0	0.000	0.00
0J15061-CALR	50	0	0.000	0.00
0J15061-CALT	200	0	0.000	0.00
0J15061-CALU	500	0	0.000	0.00
0J15061-CALV	1000	0	0.000	0.00
0J15061-CALW	2000	0	0.000	0.00

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
0J15061-CALQ	10	0	0.000	0.00
0J15061-CALR	50	0	0.000	0.00
0J15061-CALT	200	0	0.000	0.00
0J15061-CALU	500	0	0.000	0.00
0J15061-CALV	1000	0	0.000	0.00
0J15061-CALW	2000	0	0.000	0.00

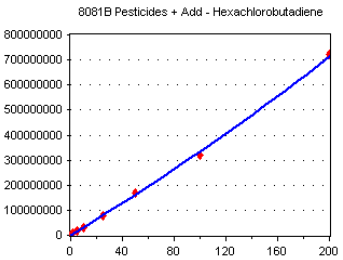
AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Hexachlorobutadiene

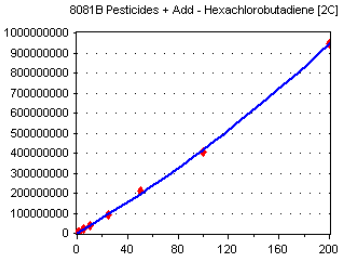


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	2239091	4478182.000	3.48
0J15061-CALB	1	3774672	3774672.000	3.47
0J15061-CALC	2	7127380	3563690.000	3.47
0J15061-CALD	5	1.645845E+07	3291690.000	3.47
0J15061-CALE	10	3.138778E+07	3138778.000	3.48
0J15061-CALF	25	7.880228E+07	3152091.000	3.48
0J15061-CALG	50	1.681213E+08	3362426.000	3.47
0J15061-CALH	100	3.20746E+08	3207460.000	3.48
0J15061-CALI	200	7.21089E+08	3605445.000	3.48

AVE RF **3508270.000** RF RSD **12.12** AVE RT **3.47**

Hexachlorobutadiene [2C]

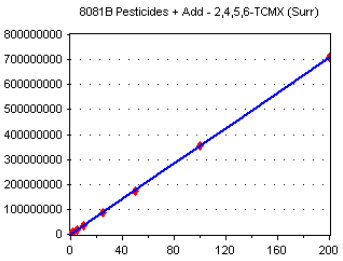


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	2507236	5014472.000	3.70
0J15061-CALB	1	4324213	4324213.000	3.70
0J15061-CALC	2	8105552	4052776.000	3.70
0J15061-CALD	5	1.893344E+07	3786688.000	3.70
0J15061-CALE	10	3.617304E+07	3617304.000	3.70
0J15061-CALF	25	9.430966E+07	3772387.000	3.70
0J15061-CALG	50	2.099194E+08	4198388.000	3.70
0J15061-CALH	100	4.034392E+08	4034392.000	3.70
0J15061-CALI	200	9.473851E+08	4736926.000	3.70

AVE RF **4170838.000** RF RSD **11.06** AVE RT **3.70**

2,4,5,6-TCMX (Surr)

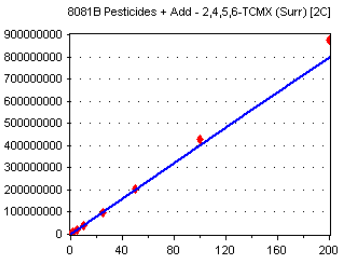


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1964465	3928930.000	5.68
0J15061-CAL2	1	3675375	3675375.000	5.68
0J15061-CAL3	2	6974987	3487494.000	5.68
0J15061-CAL4	5	1.695668E+07	3391336.000	5.68
0J15061-CAL5	10	3.37858E+07	3378580.000	5.68
0J15061-CAL6	25	8.661238E+07	3464495.000	5.68
0J15061-CAL7	50	1.713189E+08	3426378.000	5.68
0J15061-CAL8	100	3.53942E+08	3539420.000	5.68
0J15061-CAL9	200	7.071313E+08	3535657.000	5.68

AVE RF **3536407.000** RF RSD **4.89** AVE RT **5.68**

2,4,5,6-TCMX (Surr) [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	2094674	4189348.000	5.99
0J15061-CAL2	1	3996914	3996914.000	5.99
0J15061-CAL3	2	7527988	3763994.000	5.99
0J15061-CAL4	5	1.848406E+07	3696812.000	5.99
0J15061-CAL5	10	3.769119E+07	3769119.000	5.99
0J15061-CAL6	25	9.75182E+07	3900728.000	5.99
0J15061-CAL7	50	2.023044E+08	4046088.000	5.99
0J15061-CAL8	100	4.257161E+08	4257161.000	5.99
0J15061-CAL9	200	8.774996E+08	4387498.000	5.99

AVE RF **4000851.000** RF RSD **6.03** AVE RT **5.99**

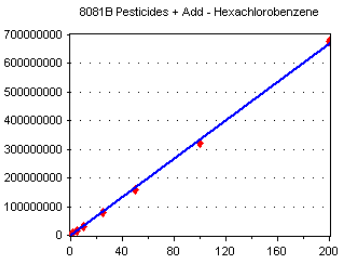
Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Hexachlorobenzene

Curve Fit: **AVERAGE RF**

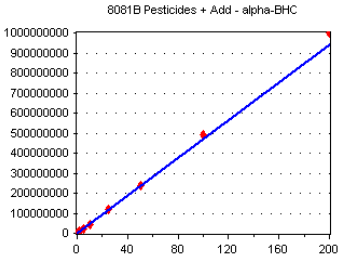


Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	1970418	3940836.000	6.07
0J15061-CALB	1	3664461	3664461.000	6.07
0J15061-CALC	2	6539006	3269503.000	6.07
0J15061-CALD	5	1.54531E+07	3090620.000	6.07
0J15061-CALE	10	3.151554E+07	3151554.000	6.07
0J15061-CALF	25	7.977943E+07	3191177.000	6.07
0J15061-CALG	50	1.59558E+08	3191160.000	6.07
0J15061-CALH	100	3.225443E+08	3225443.000	6.07
0J15061-CALI	200	6.761908E+08	3380954.000	6.07

AVE RF **3345079.000** RF RSD **8.37** AVE RT **6.07**

alpha-BHC

Curve Fit: **AVERAGE RF**

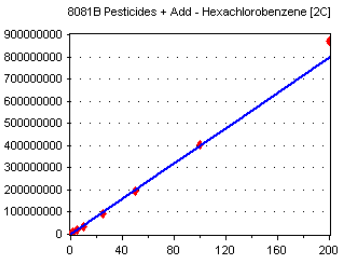


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	2328682	4657364.000	6.23
0J15061-CAL2	1	4586018	4586018.000	6.23
0J15061-CAL3	2	9063124	4531562.000	6.23
0J15061-CAL4	5	2.275184E+07	4550368.000	6.23
0J15061-CAL5	10	4.594524E+07	4594524.000	6.23
0J15061-CAL6	25	1.20089E+08	4803560.000	6.23
0J15061-CAL7	50	2.37807E+08	4756140.000	6.23
0J15061-CAL8	100	4.928958E+08	4928958.000	6.23
0J15061-CAL9	200	9.990428E+08	4995214.000	6.23

AVE RF **4711523.000** RF RSD **3.59** AVE RT **6.23**

Hexachlorobenzene [2C]

Curve Fit: **AVERAGE RF**

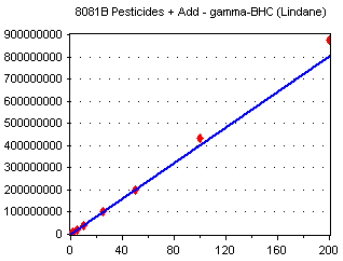


Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	2349149	4698298.000	6.45
0J15061-CALB	1	4208870	4208870.000	6.45
0J15061-CALC	2	7438773	3719387.000	6.45
0J15061-CALD	5	1.784273E+07	3568546.000	6.45
0J15061-CALE	10	3.60655E+07	3606550.000	6.45
0J15061-CALF	25	9.410941E+07	3764376.000	6.45
0J15061-CALG	50	1.934439E+08	3868878.000	6.45
0J15061-CALH	100	4.032065E+08	4032065.000	6.45
0J15061-CALI	200	8.706274E+08	4353137.000	6.45

AVE RF **3980012.000** RF RSD **9.51** AVE RT **6.45**

gamma-BHC (Lindane)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	2071350	4142700.000	6.52
0J15061-CAL2	1	3906552	3906552.000	6.52
0J15061-CAL3	2	7694107	3847054.000	6.52
0J15061-CAL4	5	1.857194E+07	3714388.000	6.52
0J15061-CAL5	10	3.900259E+07	3900259.000	6.52
0J15061-CAL6	25	1.003227E+08	4012908.000	6.52
0J15061-CAL7	50	1.997039E+08	3994078.000	6.52
0J15061-CAL8	100	4.324135E+08	4324135.000	6.52
0J15061-CAL9	200	8.758193E+08	4379097.000	6.52

AVE RF **4024575.000** RF RSD **5.47** AVE RT **6.52**

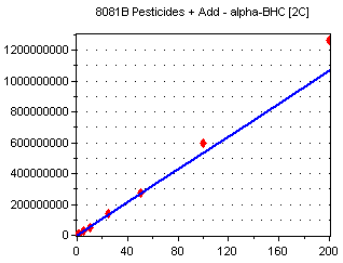
Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

alpha-BHC [2C]

Curve Fit: **AVERAGE RF**

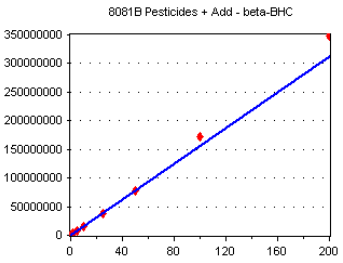


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	2455359	4910718.000	6.59
0J15061-CAL2	1	4866992	4866992.000	6.59
0J15061-CAL3	2	9584271	4792136.000	6.59
0J15061-CAL4	5	2.527692E+07	5055384.000	6.59
0J15061-CAL5	10	5.166158E+07	5166158.000	6.58
0J15061-CAL6	25	1.376585E+08	5506340.000	6.59
0J15061-CAL7	50	2.764066E+08	5528132.000	6.59
0J15061-CAL8	100	5.989129E+08	5989129.000	6.59
0J15061-CAL9	200	1.26492E+09	6324601.000	6.59

AVE RF **5348843.000** RF RSD **9.96** AVE RT **6.59**

beta-BHC

Curve Fit: **AVERAGE RF**

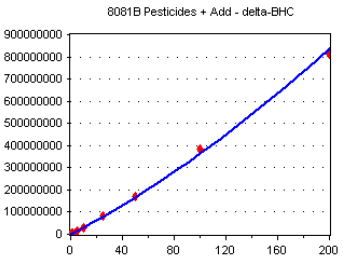


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	816885	1633770.000	6.61
0J15061-CAL2	1	1540562	1540562.000	6.61
0J15061-CAL3	2	3020188	1510094.000	6.60
0J15061-CAL4	5	6967859	1393572.000	6.61
0J15061-CAL5	10	1.425147E+07	1425147.000	6.60
0J15061-CAL6	25	3.800356E+07	1520142.000	6.60
0J15061-CAL7	50	7.755115E+07	1551023.000	6.60
0J15061-CAL8	100	1.729914E+08	1729914.000	6.60
0J15061-CAL9	200	3.487023E+08	1743512.000	6.60

AVE RF **1560860.000** RF RSD **7.79** AVE RT **6.60**

delta-BHC

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

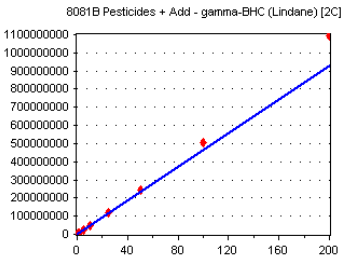


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1397611	2795222.000	6.76
0J15061-CAL2	1	2771438	2771438.000	6.76
0J15061-CAL3	2	5908930	2954465.000	6.76
0J15061-CAL4	5	1.472316E+07	2944632.000	6.76
0J15061-CAL5	10	3.031383E+07	3031383.000	6.76
0J15061-CAL6	25	8.286446E+07	3314579.000	6.76
0J15061-CAL7	50	1.705399E+08	3410798.000	6.76
0J15061-CAL8	100	3.845178E+08	3845178.000	6.75
0J15061-CAL9	200	8.123649E+08	4061825.000	6.75

AVE RF **3236613.000** RF RSD **14.27** AVE RT **6.76**

gamma-BHC (Lindane) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	2228225	4456450.000	6.90
0J15061-CAL2	1	4265430	4265430.000	6.90
0J15061-CAL3	2	8481393	4240697.000	6.90
0J15061-CAL4	5	2.131671E+07	4263342.000	6.90
0J15061-CAL5	10	4.504887E+07	4504887.000	6.90
0J15061-CAL6	25	1.182134E+08	4728536.000	6.90
0J15061-CAL7	50	2.424384E+08	4848768.000	6.90
0J15061-CAL8	100	5.069257E+08	5069257.000	6.90
0J15061-CAL9	200	1.095357E+09	5476786.000	6.90

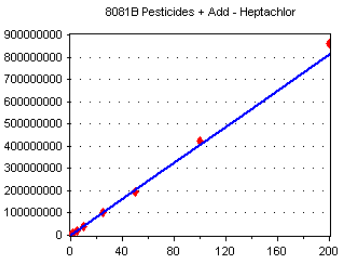
AVE RF **4650461.000** RF RSD **9.09** AVE RT **6.90**

Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Heptachlor

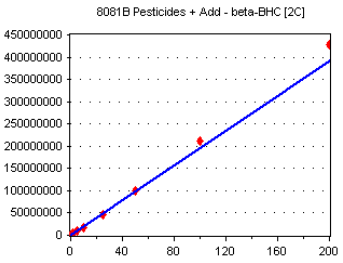


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	2088406	4176812.000	6.92
0J15061-CAL2	1	4125267	4125267.000	6.92
0J15061-CAL3	2	7834074	3917037.000	6.92
0J15061-CAL4	5	1.913594E+07	3827188.000	6.92
0J15061-CAL5	10	3.917312E+07	3917312.000	6.92
0J15061-CAL6	25	1.016753E+08	4067012.000	6.92
0J15061-CAL7	50	1.969759E+08	3939518.000	6.92
0J15061-CAL8	100	4.254733E+08	4254733.000	6.92
0J15061-CAL9	200	8.603669E+08	4301835.000	6.92

AVE RF **4058524.000** RF RSD **4.12** AVE RT **6.92**

beta-BHC [2C]

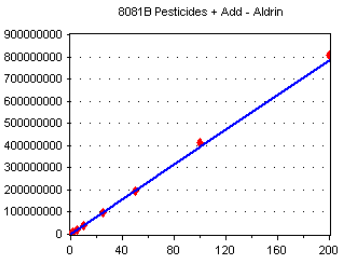


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1065650	2131300.000	6.97
0J15061-CAL2	1	1994989	1994989.000	6.97
0J15061-CAL3	2	3743280	1871640.000	6.97
0J15061-CAL4	5	8823163	1764633.000	6.97
0J15061-CAL5	10	1.779961E+07	1779961.000	6.97
0J15061-CAL6	25	4.617194E+07	1846878.000	6.97
0J15061-CAL7	50	9.866661E+07	1973332.000	6.97
0J15061-CAL8	100	2.110867E+08	2110867.000	6.97
0J15061-CAL9	200	4.272057E+08	2136029.000	6.97

AVE RF **1956625.000** RF RSD **7.57** AVE RT **6.97**

Aldrin

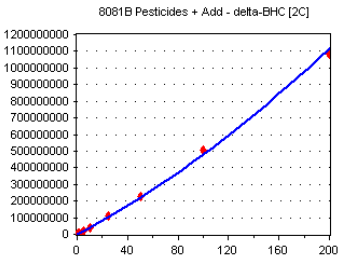


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1983865	3967730.000	7.16
0J15061-CAL2	1	3890178	3890178.000	7.16
0J15061-CAL3	2	7559480	3779740.000	7.16
0J15061-CAL4	5	1.904309E+07	3808618.000	7.16
0J15061-CAL5	10	3.913536E+07	3913536.000	7.16
0J15061-CAL6	25	9.781781E+07	3912712.000	7.16
0J15061-CAL7	50	1.938817E+08	3877634.000	7.16
0J15061-CAL8	100	4.157632E+08	4157632.000	7.16
0J15061-CAL9	200	8.087636E+08	4043818.000	7.16

AVE RF **3927955.000** RF RSD **2.96** AVE RT **7.16**

delta-BHC [2C]



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1816056	3632112.000	7.22
0J15061-CAL2	1	3592643	3592643.000	7.22
0J15061-CAL3	2	7521244	3760622.000	7.22
0J15061-CAL4	5	1.901458E+07	3802916.000	7.22
0J15061-CAL5	10	4.09124E+07	4091240.000	7.22
0J15061-CAL6	25	1.095706E+08	4382824.000	7.22
0J15061-CAL7	50	2.270836E+08	4541672.000	7.22
0J15061-CAL8	100	5.076161E+08	5076161.000	7.21
0J15061-CAL9	200	1.082558E+09	5412790.000	7.21

AVE RF **4254776.000** RF RSD **15.36** AVE RT **7.22**

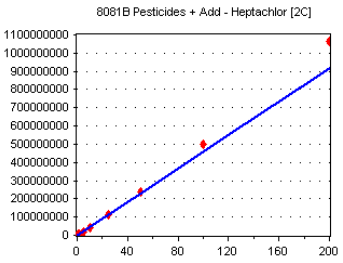
Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Heptachlor [2C]

Curve Fit: **AVERAGE RF**

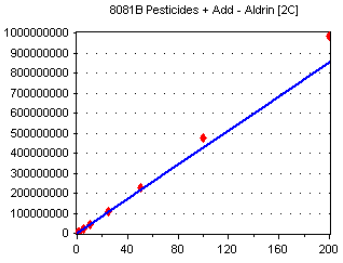


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	2266099	4532198.000	7.27
0J15061-CAL2	1	4334823	4334823.000	7.27
0J15061-CAL3	2	8356845	4178423.000	7.27
0J15061-CAL4	5	2.072483E+07	4144966.000	7.27
0J15061-CAL5	10	4.410809E+07	4410809.000	7.27
0J15061-CAL6	25	1.141971E+08	4567884.000	7.27
0J15061-CAL7	50	2.351985E+08	4703970.000	7.27
0J15061-CAL8	100	5.003502E+08	5003502.000	7.27
0J15061-CAL9	200	1.063146E+09	5315730.000	7.27

AVE RF **4576923.000** RF RSD **8.38** AVE RT **7.27**

Aldrin [2C]

Curve Fit: **AVERAGE RF**

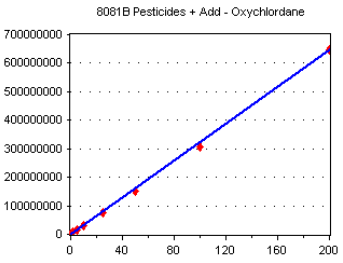


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1985635	3971270.000	7.54
0J15061-CAL2	1	3922163	3922163.000	7.54
0J15061-CAL3	2	7805224	3902612.000	7.54
0J15061-CAL4	5	1.941717E+07	3883434.000	7.54
0J15061-CAL5	10	4.110689E+07	4110689.000	7.54
0J15061-CAL6	25	1.092582E+08	4370328.000	7.54
0J15061-CAL7	50	2.284027E+08	4568054.000	7.54
0J15061-CAL8	100	4.769311E+08	4769311.000	7.54
0J15061-CAL9	200	9.851053E+08	4925527.000	7.54

AVE RF **4269265.000** RF RSD **9.43** AVE RT **7.54**

Oxychlordane

Curve Fit: **AVERAGE RF**

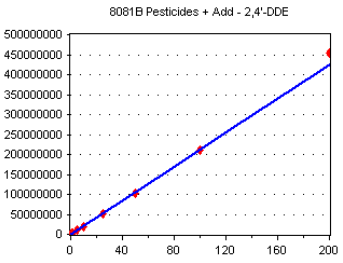


Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	1937874	3875748.000	7.56
0J15061-CALB	1	3610716	3610716.000	7.56
0J15061-CALC	2	6208420	3104210.000	7.55
0J15061-CALD	5	1.509498E+07	3018996.000	7.55
0J15061-CALE	10	3.084646E+07	3084646.000	7.55
0J15061-CALF	25	7.7426E+07	3097040.000	7.55
0J15061-CALG	50	1.495844E+08	2991688.000	7.55
0J15061-CALH	100	3.047858E+08	3047858.000	7.55
0J15061-CALI	200	6.468673E+08	3234337.000	7.55

AVE RF **3229471.000** RF RSD **9.49** AVE RT **7.55**

2,4'-DDE

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	1201503	2403006.000	7.63
0J15061-CALB	1	2330761	2330761.000	7.63
0J15061-CALC	2	3901157	1950579.000	7.62
0J15061-CALD	5	9576140	1915228.000	7.62
0J15061-CALE	10	2.016633E+07	2016633.000	7.62
0J15061-CALF	25	5.222027E+07	2088811.000	7.62
0J15061-CALG	50	1.033665E+08	2067330.000	7.62
0J15061-CALH	100	2.101327E+08	2101327.000	7.62
0J15061-CALI	200	4.537173E+08	2268587.000	7.62

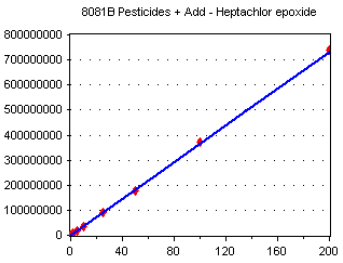
AVE RF **2126918.000** RF RSD **8.00** AVE RT **7.62**

Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Heptachlor epoxide

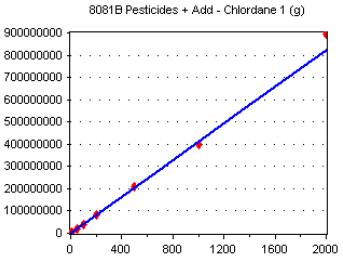


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1984641	3969282.000	7.63
0J15061-CAL2	1	3780245	3780245.000	7.63
0J15061-CAL3	2	7111174	3555587.000	7.63
0J15061-CAL4	5	1.784996E+07	3569992.000	7.63
0J15061-CAL5	10	3.539392E+07	3539392.000	7.63
0J15061-CAL6	25	8.959974E+07	3583990.000	7.63
0J15061-CAL7	50	1.757036E+08	3514072.000	7.63
0J15061-CAL8	100	3.700916E+08	3700916.000	7.63
0J15061-CAL9	200	7.381378E+08	3690689.000	7.63

AVE RF **3656018.000** RF RSD **4.02** AVE RT **7.63**

Chlordane 1 (g)

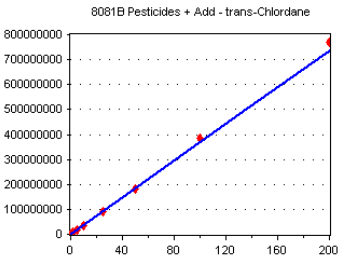


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALJ	10	4101623	410162.300	7.73
0J15061-CALK	50	1.953892E+07	390778.400	7.73
0J15061-CALL	100	4.010211E+07	401021.100	7.73
0J15061-CALM	200	8.383957E+07	419197.800	7.72
0J15061-CALN	500	2.090437E+08	418087.400	7.72
0J15061-CALO	1000	3.973248E+08	397324.800	7.72
0J15061-CALP	2000	8.941953E+08	447097.700	7.72

AVE RF **411952.800** RF RSD **4.55** AVE RT **7.72**

trans-Chlordane

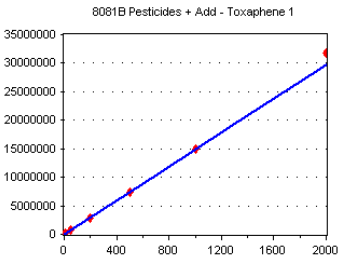


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1925594	3851188.000	7.73
0J15061-CAL2	1	3633454	3633454.000	7.73
0J15061-CAL3	2	7224345	3612173.000	7.73
0J15061-CAL4	5	1.739994E+07	3479988.000	7.73
0J15061-CAL5	10	3.529808E+07	3529808.000	7.73
0J15061-CAL6	25	9.1366E+07	3654640.000	7.72
0J15061-CAL7	50	1.830196E+08	3660392.000	7.72
0J15061-CAL8	100	3.867119E+08	3867119.000	7.72
0J15061-CAL9	200	7.710731E+08	3855366.000	7.72

AVE RF **3682681.000** RF RSD **3.90** AVE RT **7.72**

Toxaphene 1



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	144669	14466.900	7.81
0J15061-CALR	50	726337	14526.740	7.81
0J15061-CALT	200	2928701	14643.500	7.80
0J15061-CALU	500	7355899	14711.800	7.80
0J15061-CALV	1000	1.500622E+07	15006.220	7.80
0J15061-CALW	2000	3.181092E+07	15905.460	7.80

AVE RF **14876.770** RF RSD **3.62** AVE RT **7.80**

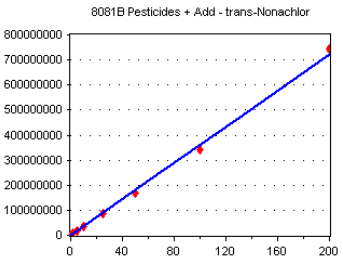
Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

trans-Nonachlor

Curve Fit: **AVERAGE RF**

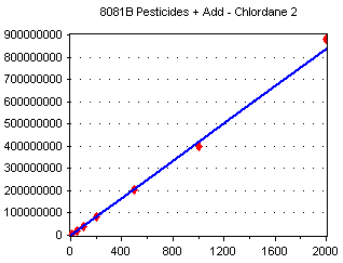


Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	2163375	4326750.000	7.81
0J15061-CALB	1	3910682	3910682.000	7.81
0J15061-CALC	2	6858041	3429021.000	7.81
0J15061-CALD	5	1.678872E+07	3357744.000	7.81
0J15061-CALE	10	3.448256E+07	3448256.000	7.81
0J15061-CALF	25	8.800594E+07	3520238.000	7.81
0J15061-CALG	50	1.690689E+08	3381378.000	7.81
0J15061-CALH	100	3.431954E+08	3431954.000	7.81
0J15061-CALI	200	7.426764E+08	3713382.000	7.81

AVE RF **3613267.000** RF RSD **8.91** AVE RT **7.81**

Chlordane 2

Curve Fit: **AVERAGE RF**

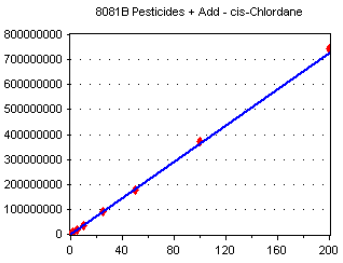


Standard	Concentration	Response	Response Factor	RT
0J15061-CALJ	10	4385167	438516.700	7.82
0J15061-CALK	50	2.085474E+07	417094.800	7.82
0J15061-CALL	100	4.092532E+07	409253.200	7.82
0J15061-CALM	200	8.368453E+07	418422.600	7.82
0J15061-CALN	500	2.065909E+08	413181.800	7.82
0J15061-CALO	1000	3.974641E+08	397464.100	7.82
0J15061-CALP	2000	8.803723E+08	440186.200	7.82

AVE RF **419159.900** RF RSD **3.68** AVE RT **7.82**

cis-Chlordane

Curve Fit: **AVERAGE RF**

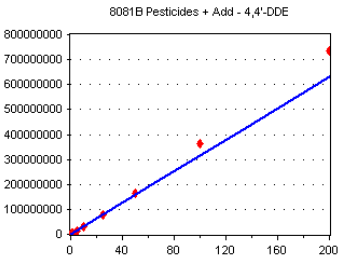


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1943677	3887354.000	7.82
0J15061-CAL2	1	3710813	3710813.000	7.82
0J15061-CAL3	2	6946216	3473108.000	7.82
0J15061-CAL4	5	1.73708E+07	3474160.000	7.82
0J15061-CAL5	10	3.541141E+07	3541141.000	7.82
0J15061-CAL6	25	8.87825E+07	3551300.000	7.82
0J15061-CAL7	50	1.757618E+08	3515236.000	7.82
0J15061-CAL8	100	3.724809E+08	3724809.000	7.82
0J15061-CAL9	200	7.444557E+08	3722279.000	7.82

AVE RF **3622244.000** RF RSD **3.98** AVE RT **7.82**

4,4'-DDE

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1488674	2977348.000	7.88
0J15061-CAL2	1	2806594	2806594.000	7.88
0J15061-CAL3	2	5832058	2916029.000	7.88
0J15061-CAL4	5	1.435337E+07	2870674.000	7.88
0J15061-CAL5	10	3.025077E+07	3025077.000	7.88
0J15061-CAL6	25	7.917964E+07	3167186.000	7.87
0J15061-CAL7	50	1.651261E+08	3302522.000	7.87
0J15061-CAL8	100	3.627906E+08	3627906.000	7.87
0J15061-CAL9	200	7.333128E+08	3666564.000	7.87

AVE RF **3151100.000** RF RSD **10.13** AVE RT **7.87**

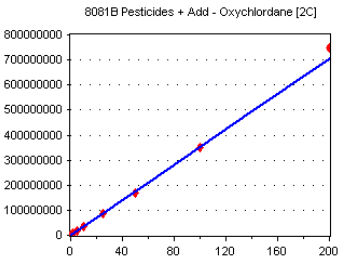
Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Oxychlordane [2C]

Curve Fit: **AVERAGE RF**

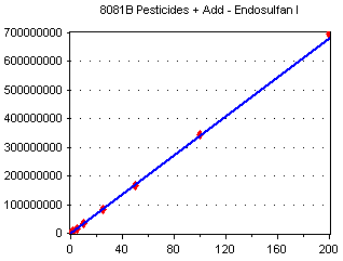


Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	2061148	4122296.000	7.90
0J15061-CALB	1	3742926	3742926.000	7.90
0J15061-CALC	2	6625326	3312663.000	7.90
0J15061-CALD	5	1.561015E+07	3122030.000	7.90
0J15061-CALE	10	3.319638E+07	3319638.000	7.90
0J15061-CALF	25	8.46767E+07	3387068.000	7.90
0J15061-CALG	50	1.703064E+08	3406128.000	7.90
0J15061-CALH	100	3.516792E+08	3516792.000	7.90
0J15061-CALI	200	7.494646E+08	3747323.000	7.90

AVE RF **3519652.000** RF RSD **8.62** AVE RT **7.90**

Endosulfan I

Curve Fit: **AVERAGE RF**

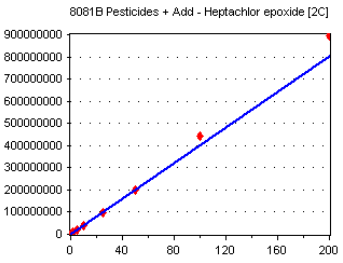


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1806599	3613198.000	7.93
0J15061-CAL2	1	3420833	3420833.000	7.93
0J15061-CAL3	2	6845706	3422853.000	7.93
0J15061-CAL4	5	1.639313E+07	3278626.000	7.93
0J15061-CAL5	10	3.283096E+07	3283096.000	7.93
0J15061-CAL6	25	8.396403E+07	3358561.000	7.93
0J15061-CAL7	50	1.647621E+08	3295242.000	7.93
0J15061-CAL8	100	3.45966E+08	3459660.000	7.92
0J15061-CAL9	200	6.958669E+08	3479335.000	7.92

AVE RF **3401267.000** RF RSD **3.24** AVE RT **7.93**

Heptachlor epoxide [2C]

Curve Fit: **AVERAGE RF**

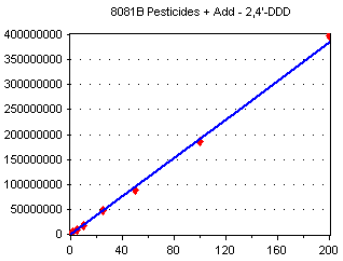


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	2034040	4068080.000	7.97
0J15061-CAL2	1	3912347	3912347.000	7.97
0J15061-CAL3	2	7501012	3750506.000	7.97
0J15061-CAL4	5	1.836929E+07	3673858.000	7.97
0J15061-CAL5	10	3.8488E+07	3848800.000	7.97
0J15061-CAL6	25	9.929978E+07	3971991.000	7.97
0J15061-CAL7	50	2.010489E+08	4020978.000	7.97
0J15061-CAL8	100	4.427145E+08	4427145.000	7.97
0J15061-CAL9	200	8.938726E+08	4469363.000	7.97

AVE RF **4015896.000** RF RSD **6.85** AVE RT **7.97**

2,4'-DDD

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	1125210	2250420.000	8.01
0J15061-CALB	1	2191428	2191428.000	8.00
0J15061-CALC	2	3682349	1841175.000	8.00
0J15061-CALD	5	8751372	1750274.000	8.00
0J15061-CALE	10	1.764873E+07	1764873.000	8.00
0J15061-CALF	25	4.659062E+07	1863625.000	8.00
0J15061-CALG	50	8.90077E+07	1780154.000	8.00
0J15061-CALH	100	1.858274E+08	1858274.000	8.00
0J15061-CALI	200	3.984332E+08	1992166.000	8.00

AVE RF **1921377.000** RF RSD **9.63** AVE RT **8.00**

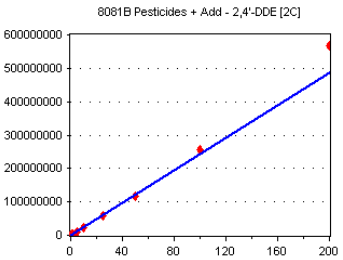
Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

2,4'-DDE [2C]

Curve Fit: **AVERAGE RF**

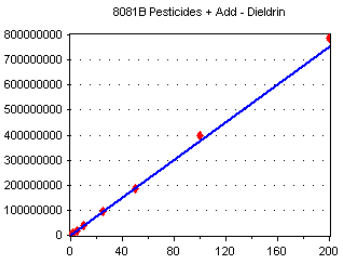


Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	1304771	2609542.000	8.10
0J15061-CALB	1	2507932	2507932.000	8.10
0J15061-CALC	2	4384687	2192344.000	8.10
0J15061-CALD	5	1.081621E+07	2163242.000	8.10
0J15061-CALE	10	2.21422E+07	2214220.000	8.10
0J15061-CALF	25	5.990982E+07	2396393.000	8.10
0J15061-CALG	50	1.177977E+08	2355954.000	8.10
0J15061-CALH	100	2.561226E+08	2561226.000	8.10
0J15061-CALI	200	5.677623E+08	2838812.000	8.10

AVE RF **2426629.000** RF RSD **9.25** AVE RT **8.10**

Dieldrin

Curve Fit: **AVERAGE RF**

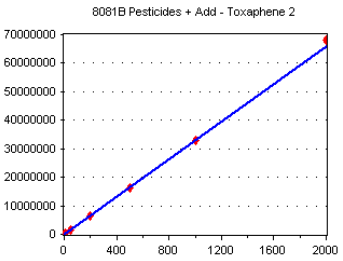


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1890452	3780904.000	8.10
0J15061-CAL2	1	3676591	3676591.000	8.10
0J15061-CAL3	2	7217877	3608939.000	8.10
0J15061-CAL4	5	1.808407E+07	3616814.000	8.10
0J15061-CAL5	10	3.754823E+07	3754823.000	8.10
0J15061-CAL6	25	9.363528E+07	3745411.000	8.10
0J15061-CAL7	50	1.872163E+08	3744326.000	8.10
0J15061-CAL8	100	3.958193E+08	3958193.000	8.10
0J15061-CAL9	200	7.851004E+08	3925502.000	8.10

AVE RF **3756834.000** RF RSD **3.23** AVE RT **8.10**

Toxaphene 2

Curve Fit: **AVERAGE RF**

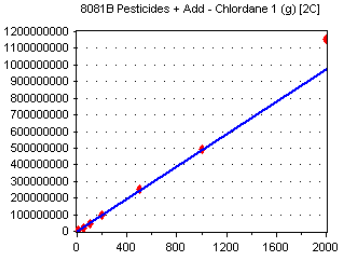


Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	330702	33070.200	8.10
0J15061-CALR	50	1648417	32968.340	8.10
0J15061-CALT	200	6531155	32655.780	8.10
0J15061-CALU	500	1.612189E+07	32243.780	8.10
0J15061-CALV	1000	3.273216E+07	32732.160	8.10
0J15061-CALW	2000	6.792348E+07	33961.740	8.10

AVE RF **32938.670** RF RSD **1.75** AVE RT **8.10**

Chlordane 1 (g) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0J15061-CALJ	10	4425582	442558.200	8.11
0J15061-CALK	50	2.219057E+07	443811.400	8.11
0J15061-CALL	100	4.651615E+07	465161.500	8.11
0J15061-CALM	200	9.591928E+07	479596.400	8.11
0J15061-CALN	500	2.551435E+08	510287.000	8.11
0J15061-CALO	1000	4.900782E+08	490078.200	8.11
0J15061-CALP	2000	1.156982E+09	578491.000	8.11

AVE RF **487140.500** RF RSD **9.66** AVE RT **8.11**

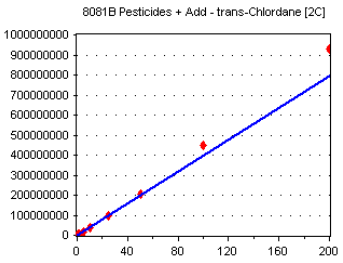
Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

trans-Chlordane [2C]

Curve Fit: **AVERAGE RF**

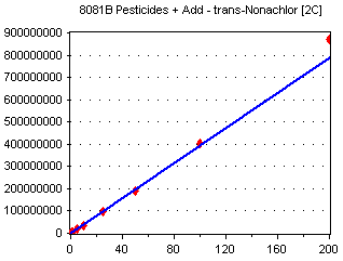


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1969558	3939116.000	8.11
0J15061-CAL2	1	3716881	3716881.000	8.11
0J15061-CAL3	2	7196150	3598075.000	8.11
0J15061-CAL4	5	1.812804E+07	3625608.000	8.11
0J15061-CAL5	10	3.762406E+07	3762406.000	8.11
0J15061-CAL6	25	9.795059E+07	3918024.000	8.11
0J15061-CAL7	50	2.062266E+08	4124532.000	8.11
0J15061-CAL8	100	4.493511E+08	4493511.000	8.11
0J15061-CAL9	200	9.287353E+08	4643677.000	8.11

AVE RF **3980203.000** RF RSD **9.39** AVE RT **8.11**

trans-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

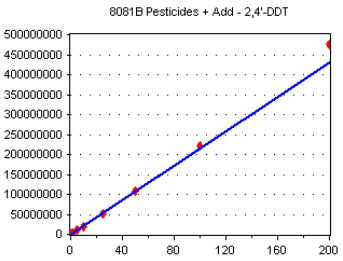


Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	2327996	4655992.000	8.18
0J15061-CALB	1	4195390	4195390.000	8.18
0J15061-CALC	2	7161689	3580845.000	8.18
0J15061-CALD	5	1.745361E+07	3490722.000	8.18
0J15061-CALE	10	3.571247E+07	3571247.000	8.18
0J15061-CALF	25	9.505416E+07	3802167.000	8.18
0J15061-CALG	50	1.88628E+08	3772560.000	8.18
0J15061-CALH	100	4.051634E+08	4051634.000	8.18
0J15061-CALI	200	8.730556E+08	4365278.000	8.18

AVE RF **3942870.000** RF RSD **10.16** AVE RT **8.18**

2,4'-DDT

Curve Fit: **AVERAGE RF**

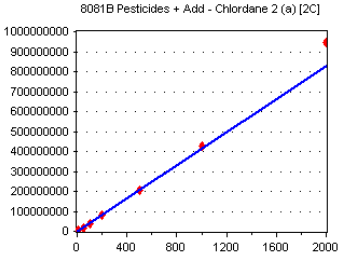


Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	1221609	2443218.000	8.19
0J15061-CALB	1	2264292	2264292.000	8.18
0J15061-CALC	2	3742080	1871040.000	8.18
0J15061-CALD	5	9587017	1917403.000	8.18
0J15061-CALE	10	1.970236E+07	1970236.000	8.18
0J15061-CALF	25	5.249326E+07	2099731.000	8.18
0J15061-CALG	50	1.081657E+08	2163314.000	8.18
0J15061-CALH	100	2.207085E+08	2207085.000	8.18
0J15061-CALI	200	4.754797E+08	2377399.000	8.18

AVE RF **2145969.000** RF RSD **9.33** AVE RT **8.18**

Chlordane 2 (a) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0J15061-CALJ	10	4119232	411923.200	8.22
0J15061-CALK	50	1.846854E+07	369370.800	8.22
0J15061-CALL	100	3.944657E+07	394465.700	8.22
0J15061-CALM	200	8.111566E+07	405578.300	8.22
0J15061-CALN	500	2.077707E+08	415541.400	8.22
0J15061-CALO	1000	4.277424E+08	427742.400	8.22
0J15061-CALP	2000	9.467857E+08	473392.900	8.22

AVE RF **414002.100** RF RSD **7.74** AVE RT **8.22**

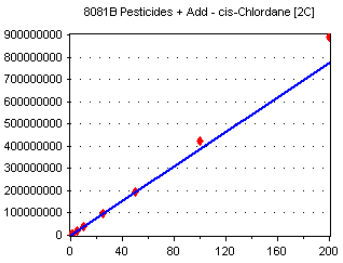
Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

cis-Chlordane [2C]

Curve Fit: **AVERAGE RF**

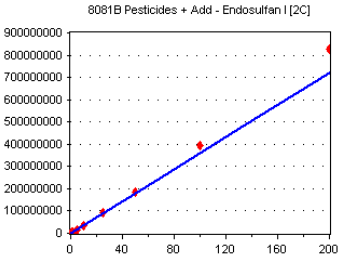


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1990595	3981190.000	8.22
0J15061-CAL2	1	3697197	3697197.000	8.22
0J15061-CAL3	2	7123870	3561935.000	8.22
0J15061-CAL4	5	1.78216E+07	3564320.000	8.22
0J15061-CAL5	10	3.726662E+07	3726662.000	8.22
0J15061-CAL6	25	9.530894E+07	3812358.000	8.22
0J15061-CAL7	50	1.954891E+08	3909782.000	8.22
0J15061-CAL8	100	4.215527E+08	4215527.000	8.22
0J15061-CAL9	200	8.89631E+08	4448155.000	8.22

AVE RF **3879681.000** RF RSD **7.67** AVE RT **8.22**

Endosulfan I [2C]

Curve Fit: **AVERAGE RF**

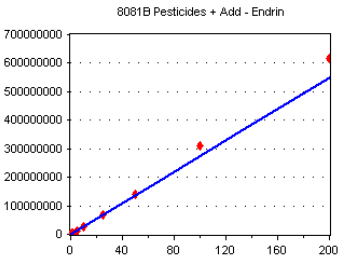


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1819190	3638380.000	8.27
0J15061-CAL2	1	3424701	3424701.000	8.27
0J15061-CAL3	2	6450502	3225251.000	8.27
0J15061-CAL4	5	1.638974E+07	3277948.000	8.27
0J15061-CAL5	10	3.429129E+07	3429129.000	8.27
0J15061-CAL6	25	9.076954E+07	3630782.000	8.27
0J15061-CAL7	50	1.826947E+08	3653894.000	8.27
0J15061-CAL8	100	3.951055E+08	3951055.000	8.27
0J15061-CAL9	200	8.272511E+08	4136255.000	8.27

AVE RF **3596377.000** RF RSD **8.34** AVE RT **8.27**

Endrin

Curve Fit: **AVERAGE RF**

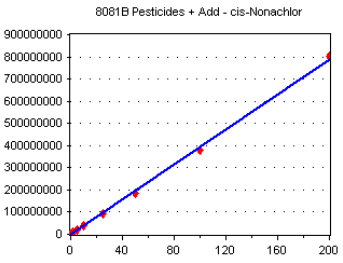


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1343181	2686362.000	8.27
0J15061-CAL2	1	2564407	2564407.000	8.27
0J15061-CAL3	2	5198958	2599479.000	8.27
0J15061-CAL4	5	1.264388E+07	2528776.000	8.27
0J15061-CAL5	10	2.597139E+07	2597139.000	8.27
0J15061-CAL6	25	6.870141E+07	2748056.000	8.27
0J15061-CAL7	50	1.388589E+08	2777178.000	8.27
0J15061-CAL8	100	3.08941E+08	3089410.000	8.27
0J15061-CAL9	200	6.180494E+08	3090247.000	8.27

AVE RF **2742339.000** RF RSD **7.79** AVE RT **8.27**

cis-Nonachlor

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	2361680	4723360.000	8.29
0J15061-CALB	1	4530614	4530614.000	8.29
0J15061-CALC	2	7468006	3734003.000	8.29
0J15061-CALD	5	1.786908E+07	3573816.000	8.29
0J15061-CALE	10	3.714766E+07	3714766.000	8.29
0J15061-CALF	25	9.35754E+07	3743016.000	8.29
0J15061-CALG	50	1.839414E+08	3678828.000	8.29
0J15061-CALH	100	3.782405E+08	3782405.000	8.29
0J15061-CALI	200	8.023116E+08	4011558.000	8.29

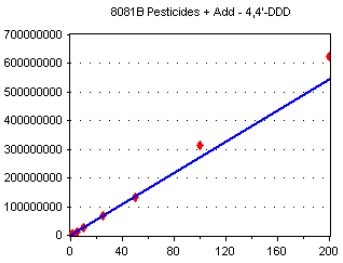
AVE RF **3943596.000** RF RSD **10.33** AVE RT **8.29**

Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

4,4'-DDD

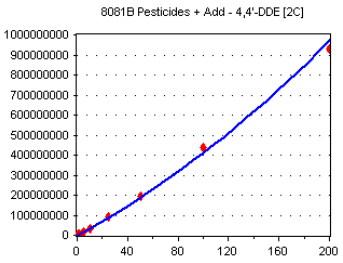


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1338233	2676466.000	8.31
0J15061-CAL2	1	2561702	2561702.000	8.31
0J15061-CAL3	2	5108732	2554366.000	8.31
0J15061-CAL4	5	1.231717E+07	2463434.000	8.31
0J15061-CAL5	10	2.560811E+07	2560811.000	8.31
0J15061-CAL6	25	6.788429E+07	2715372.000	8.30
0J15061-CAL7	50	1.340874E+08	2681748.000	8.30
0J15061-CAL8	100	3.139188E+08	3139188.000	8.30
0J15061-CAL9	200	6.247788E+08	3123894.000	8.30

AVE RF **2719664.000** RF RSD **9.06** AVE RT **8.30**

4,4'-DDE [2C]

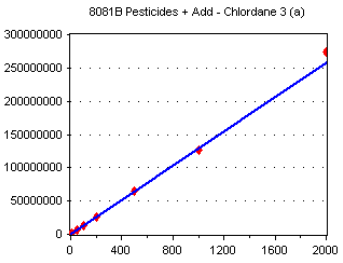


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1588759	3177518.000	8.32
0J15061-CAL2	1	3083622	3083622.000	8.32
0J15061-CAL3	2	6467389	3233695.000	8.32
0J15061-CAL4	5	1.586625E+07	3173250.000	8.32
0J15061-CAL5	10	3.36923E+07	3369230.000	8.32
0J15061-CAL6	25	9.250154E+07	3700062.000	8.32
0J15061-CAL7	50	1.957089E+08	3914178.000	8.32
0J15061-CAL8	100	4.401254E+08	4401254.000	8.32
0J15061-CAL9	200	9.322594E+08	4661297.000	8.32

AVE RF **3634901.000** RF RSD **15.93** AVE RT **8.32**

Chlordane 3 (a)

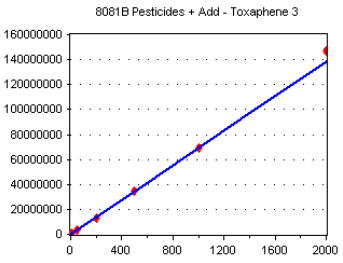


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALJ	10	1337616	133761.600	8.38
0J15061-CALK	50	6256198	125124.000	8.38
0J15061-CALL	100	1.246525E+07	124652.500	8.38
0J15061-CALM	200	2.537232E+07	126861.600	8.38
0J15061-CALN	500	6.413561E+07	128271.200	8.38
0J15061-CALO	1000	1.267126E+08	126712.600	8.38
0J15061-CALP	2000	2.746224E+08	137311.200	8.38

AVE RF **128956.400** RF RSD **3.69** AVE RT **8.38**

Toxaphene 3



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	688382	68838.200	8.42
0J15061-CALR	50	3404622	68092.440	8.42
0J15061-CALT	200	1.338193E+07	66909.650	8.42
0J15061-CALU	500	3.449308E+07	68986.160	8.42
0J15061-CALV	1000	6.94588E+07	69458.800	8.42
0J15061-CALW	2000	1.473102E+08	73655.100	8.42

AVE RF **69323.390** RF RSD **3.32** AVE RT **8.42**

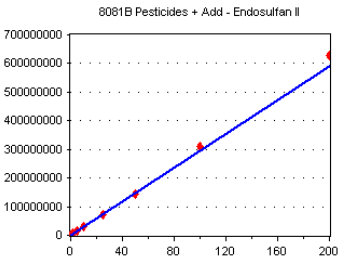
Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Endosulfan II

Curve Fit: **AVERAGE RF**

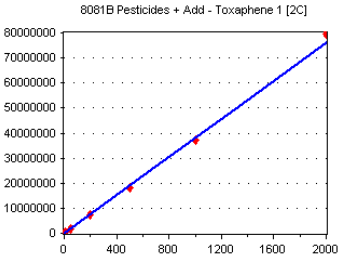


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1532660	3065320.000	8.44
0J15061-CAL2	1	2928662	2928662.000	8.43
0J15061-CAL3	2	5775620	2887810.000	8.43
0J15061-CAL4	5	1.381775E+07	2763550.000	8.43
0J15061-CAL5	10	2.851135E+07	2851135.000	8.43
0J15061-CAL6	25	7.269449E+07	2907780.000	8.43
0J15061-CAL7	50	1.423438E+08	2846876.000	8.43
0J15061-CAL8	100	3.121496E+08	3121496.000	8.43
0J15061-CAL9	200	6.272476E+08	3136238.000	8.43

AVE RF **2945430.000** RF RSD **4.47** AVE RT **8.43**

Toxaphene 1 [2C]

Curve Fit: **AVERAGE RF**

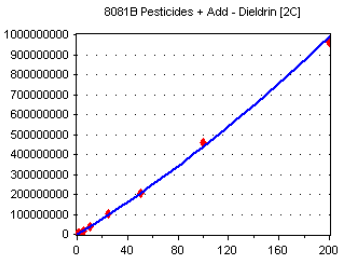


Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	399011	39901.100	8.44
0J15061-CALR	50	1944781	38895.620	8.44
0J15061-CALT	200	7231910	36159.550	8.44
0J15061-CALU	500	1.810779E+07	36215.580	8.44
0J15061-CALV	1000	3.70442E+07	37044.200	8.44
0J15061-CALW	2000	7.963459E+07	39817.300	8.44

AVE RF **38005.560** RF RSD **4.59** AVE RT **8.44**

Dieldrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

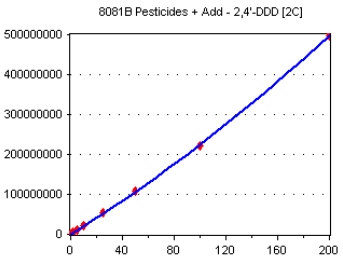


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1903893	3807786.000	8.47
0J15061-CAL2	1	3654098	3654098.000	8.47
0J15061-CAL3	2	7205936	3602968.000	8.47
0J15061-CAL4	5	1.876898E+07	3753796.000	8.47
0J15061-CAL5	10	3.867688E+07	3867688.000	8.47
0J15061-CAL6	25	1.038569E+08	4154276.000	8.47
0J15061-CAL7	50	2.057968E+08	4115936.000	8.47
0J15061-CAL8	100	4.598063E+08	4598063.000	8.47
0J15061-CAL9	200	9.646588E+08	4823294.000	8.47

AVE RF **4041989.000** RF RSD **10.53** AVE RT **8.47**

2,4'-DDD [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	1319106	2638212.000	8.47
0J15061-CALB	1	2545735	2545735.000	8.47
0J15061-CALC	2	4129327	2064664.000	8.47
0J15061-CALD	5	9938801	1987760.000	8.47
0J15061-CALE	10	2.043638E+07	2043638.000	8.47
0J15061-CALF	25	5.33807E+07	2135228.000	8.47
0J15061-CALG	50	1.077824E+08	2155648.000	8.47
0J15061-CALH	100	2.226407E+08	2226407.000	8.47
0J15061-CALI	200	4.977243E+08	2488622.000	8.47

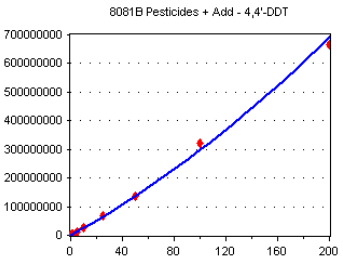
AVE RF **2253990.000** RF RSD **10.68** AVE RT **8.47**

Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

4,4'-DDT

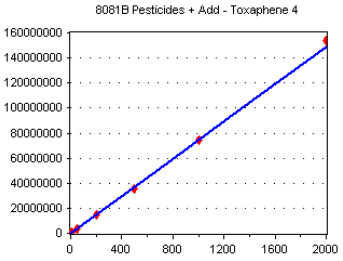


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1202509	2405018.000	8.50
0J15061-CAL2	1	2340699	2340699.000	8.50
0J15061-CAL3	2	4776266	2388133.000	8.50
0J15061-CAL4	5	1.169022E+07	2338044.000	8.50
0J15061-CAL5	10	2.509615E+07	2509615.000	8.50
0J15061-CAL6	25	6.870501E+07	2748200.000	8.50
0J15061-CAL7	50	1.378779E+08	2757558.000	8.50
0J15061-CAL8	100	3.214173E+08	3214173.000	8.50
0J15061-CAL9	200	6.643459E+08	3321730.000	8.50

AVE RF **2669241.000** RF RSD **14.07** AVE RT **8.50**

Toxaphene 4

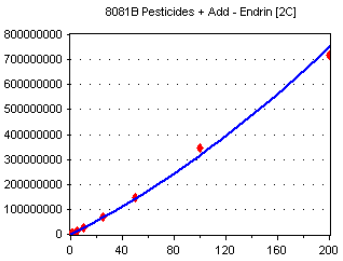


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	806604	80660.400	8.66
0J15061-CALR	50	3598900	71978.000	8.66
0J15061-CALT	200	1.434054E+07	71702.700	8.66
0J15061-CALU	500	3.530341E+07	70606.810	8.66
0J15061-CALV	1000	7.446222E+07	74462.230	8.66
0J15061-CALW	2000	1.542259E+08	77112.950	8.66

AVE RF **74420.520** RF RSD **5.17** AVE RT **8.66**

Endrin [2C]

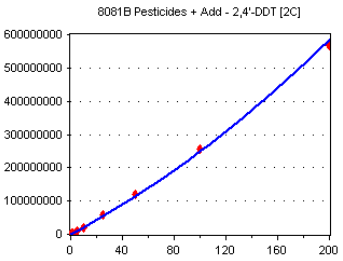


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1241690	2483380.000	8.69
0J15061-CAL2	1	2521951	2521951.000	8.69
0J15061-CAL3	2	4965041	2482521.000	8.69
0J15061-CAL4	5	1.23827E+07	2476540.000	8.69
0J15061-CAL5	10	2.497265E+07	2497265.000	8.69
0J15061-CAL6	25	7.07471E+07	2829884.000	8.69
0J15061-CAL7	50	1.473103E+08	2946206.000	8.69
0J15061-CAL8	100	3.459103E+08	3459103.000	8.69
0J15061-CAL9	200	7.172319E+08	3586159.000	8.69

AVE RF **2809223.000** RF RSD **15.66** AVE RT **8.69**

2,4'-DDT [2C]



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	1355429	2710858.000	8.69
0J15061-CALB	1	2394823	2394823.000	8.69
0J15061-CALC	2	3988690	1994345.000	8.69
0J15061-CALD	5	1.011557E+07	2023114.000	8.69
0J15061-CALE	10	2.090847E+07	2090847.000	8.69
0J15061-CALF	25	5.801326E+07	2320531.000	8.69
0J15061-CALG	50	1.203029E+08	2406058.000	8.69
0J15061-CALH	100	2.572524E+08	2572524.000	8.69
0J15061-CALI	200	5.670772E+08	2835386.000	8.69

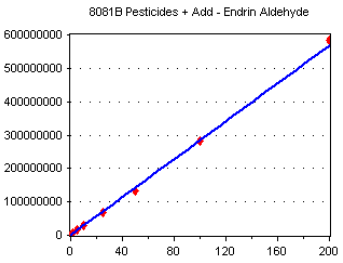
AVE RF **2372054.000** RF RSD **12.63** AVE RT **8.69**

Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Endrin Aldehyde

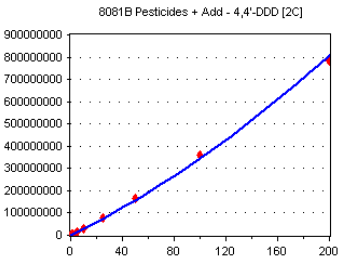


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	2173619	4347238.000	8.73
0J15061-CAL2	1	3907593	3907593.000	8.73
0J15061-CAL3	2	7357293	3678647.000	8.73
0J15061-CAL4	5	1.478115E+07	2956230.000	8.73
0J15061-CAL5	10	2.788152E+07	2788152.000	8.73
0J15061-CAL6	25	6.857176E+07	2742871.000	8.73
0J15061-CAL7	50	1.342918E+08	2685836.000	8.72
0J15061-CAL8	100	2.824284E+08	2824284.000	8.72
0J15061-CAL9	200	5.835017E+08	2917509.000	8.72

AVE RF **3205373.000** RF RSD **19.01** AVE RT **8.73**

4,4'-DDD [2C]

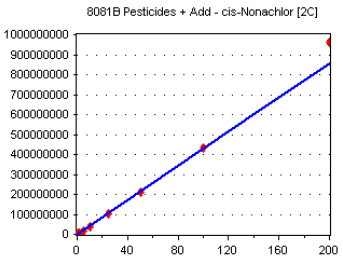


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1460301	2920602.000	8.74
0J15061-CAL2	1	2804997	2804997.000	8.74
0J15061-CAL3	2	5453646	2726823.000	8.73
0J15061-CAL4	5	1.373075E+07	2746150.000	8.73
0J15061-CAL5	10	2.943807E+07	2943807.000	8.73
0J15061-CAL6	25	7.685317E+07	3074127.000	8.73
0J15061-CAL7	50	1.632024E+08	3264048.000	8.73
0J15061-CAL8	100	3.619428E+08	3619428.000	8.73
0J15061-CAL9	200	7.853932E+08	3926966.000	8.73

AVE RF **3114105.000** RF RSD **13.37** AVE RT **8.73**

cis-Nonachlor [2C]

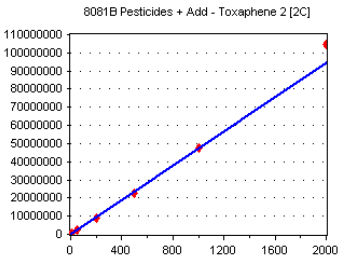


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	2474139	4948278.000	8.74
0J15061-CALB	1	4587763	4587763.000	8.74
0J15061-CALC	2	7629694	3814847.000	8.74
0J15061-CALD	5	1.889308E+07	3778616.000	8.74
0J15061-CALE	10	3.914634E+07	3914634.000	8.74
0J15061-CALF	25	1.032783E+08	4131132.000	8.74
0J15061-CALG	50	2.084081E+08	4168162.000	8.74
0J15061-CALH	100	4.351283E+08	4351283.000	8.74
0J15061-CALI	200	9.613093E+08	4806547.000	8.73

AVE RF **4277918.000** RF RSD **9.98** AVE RT **8.74**

Toxaphene 2 [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	464016	46401.600	8.79
0J15061-CALR	50	2303326	46066.520	8.79
0J15061-CALT	200	8939693	44698.460	8.79
0J15061-CALU	500	2.274714E+07	45494.280	8.79
0J15061-CALV	1000	4.783642E+07	47836.420	8.79
0J15061-CALW	2000	1.04738E+08	52369.000	8.79

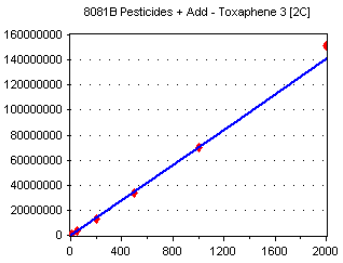
AVE RF **47144.380** RF RSD **5.86** AVE RT **8.79**

Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Toxaphene 3 [2C]

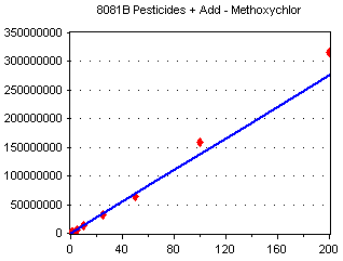


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	754224	75422.400	8.83
0J15061-CALR	50	3392585	67851.700	8.83
0J15061-CALT	200	1.30975E+07	65487.500	8.83
0J15061-CALU	500	3.377527E+07	67550.550	8.83
0J15061-CALV	1000	7.009351E+07	70093.520	8.82
0J15061-CALW	2000	1.511803E+08	75590.150	8.82

AVE RF **70332.630** RF RSD **6.06** AVE RT **8.82**

Methoxychlor

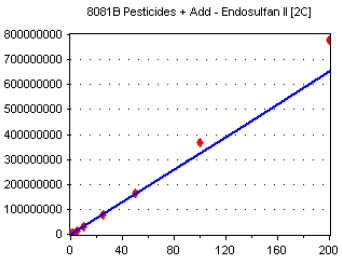


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	712510	1425020.000	8.84
0J15061-CAL2	1	1332109	1332109.000	8.83
0J15061-CAL3	2	2713959	1356980.000	8.83
0J15061-CAL4	5	6325525	1265105.000	8.83
0J15061-CAL5	10	1.265521E+07	1265521.000	8.83
0J15061-CAL6	25	3.259557E+07	1303823.000	8.83
0J15061-CAL7	50	6.398586E+07	1279717.000	8.83
0J15061-CAL8	100	1.583769E+08	1583769.000	8.83
0J15061-CAL9	200	3.154462E+08	1577231.000	8.83

AVE RF **1376586.000** RF RSD **9.16** AVE RT **8.83**

Endosulfan II [2C]

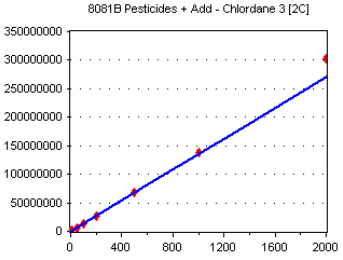


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1655922	3311844.000	8.84
0J15061-CAL2	1	3080696	3080696.000	8.84
0J15061-CAL3	2	5953424	2976712.000	8.84
0J15061-CAL4	5	1.446738E+07	2893476.000	8.84
0J15061-CAL5	10	3.011892E+07	3011892.000	8.84
0J15061-CAL6	25	7.916834E+07	3166734.000	8.84
0J15061-CAL7	50	1.654706E+08	3309412.000	8.84
0J15061-CAL8	100	3.668063E+08	3668063.000	8.84
0J15061-CAL9	200	7.770257E+08	3885129.000	8.84

AVE RF **3255995.000** RF RSD **10.18** AVE RT **8.84**

Chlordane 3 [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALJ	10	1424459	142445.900	8.87
0J15061-CALK	50	6150473	123009.500	8.87
0J15061-CALL	100	1.25359E+07	125359.000	8.87
0J15061-CALM	200	2.578283E+07	128914.100	8.87
0J15061-CALN	500	6.875428E+07	137508.600	8.87
0J15061-CALO	1000	1.384627E+08	138462.700	8.87
0J15061-CALP	2000	3.021017E+08	151050.800	8.87

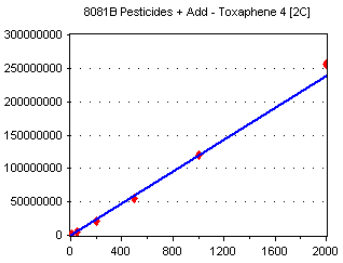
AVE RF **135250.100** RF RSD **7.42** AVE RT **8.87**

Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Toxaphene 4 [2C]

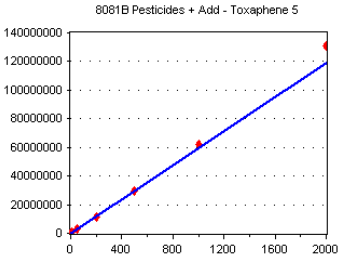


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	1349902	134990.200	8.89
0J15061-CALR	50	5669610	113392.200	8.89
0J15061-CALT	200	2.151915E+07	107595.800	8.89
0J15061-CALU	500	5.541282E+07	110825.600	8.89
0J15061-CALV	1000	1.200841E+08	120084.100	8.89
0J15061-CALW	2000	2.558128E+08	127906.400	8.89

AVE RF **119132.400** RF RSD **8.92** AVE RT **8.89**

Toxaphene 5

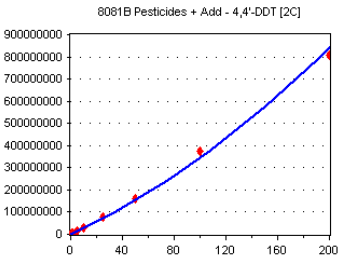


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	543118	54311.800	8.89
0J15061-CALR	50	2870073	57401.460	8.89
0J15061-CALT	200	1.158409E+07	57920.450	8.89
0J15061-CALU	500	2.959844E+07	59196.880	8.89
0J15061-CALV	1000	6.187611E+07	61876.110	8.89
0J15061-CALW	2000	1.309448E+08	65472.400	8.89

AVE RF **59363.180** RF RSD **6.53** AVE RT **8.89**

4,4'-DDT [2C]

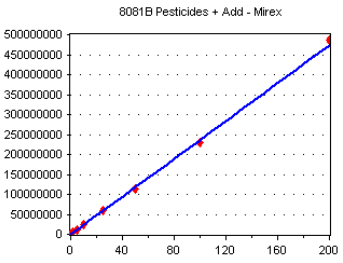


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1227833	2455666.000	8.96
0J15061-CAL2	1	2447680	2447680.000	8.96
0J15061-CAL3	2	4865206	2432603.000	8.96
0J15061-CAL4	5	1.275413E+07	2550826.000	8.96
0J15061-CAL5	10	2.696225E+07	2696225.000	8.96
0J15061-CAL6	25	7.603364E+07	3041346.000	8.96
0J15061-CAL7	50	1.584137E+08	3168274.000	8.96
0J15061-CAL8	100	3.736752E+08	3736752.000	8.96
0J15061-CAL9	200	8.064791E+08	4032396.000	8.96

AVE RF **2951307.000** RF RSD **20.17** AVE RT **8.96**

Mirex



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	1825977	3651954.000	8.96
0J15061-CALB	1	3315145	3315145.000	8.96
0J15061-CALC	2	5444461	2722231.000	8.96
0J15061-CALD	5	1.205108E+07	2410216.000	8.96
0J15061-CALE	10	2.437342E+07	2437342.000	8.96
0J15061-CALF	25	5.907428E+07	2362971.000	8.96
0J15061-CALG	50	1.130404E+08	2260808.000	8.96
0J15061-CALH	100	2.287059E+08	2287059.000	8.96
0J15061-CALI	200	4.862299E+08	2431150.000	8.96

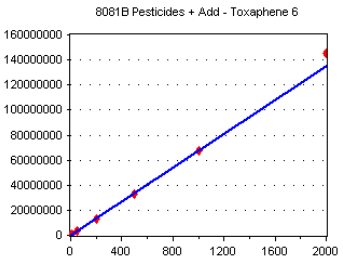
AVE RF **2653208.000** RF RSD **18.69** AVE RT **8.96**

Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Toxaphene 6

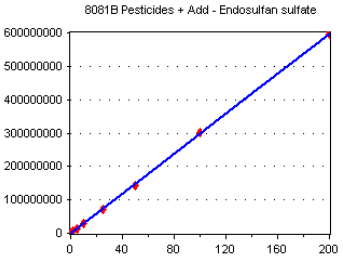


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	681518	68151.800	8.97
0J15061-CALR	50	3244525	64890.500	8.96
0J15061-CALT	200	1.300927E+07	65046.350	8.96
0J15061-CALU	500	3.303615E+07	66072.300	8.96
0J15061-CALV	1000	6.723978E+07	67239.770	8.96
0J15061-CALW	2000	1.451009E+08	72550.450	8.96

AVE RF **67325.200** RF RSD **4.24** AVE RT **8.96**

Endosulfan sulfate

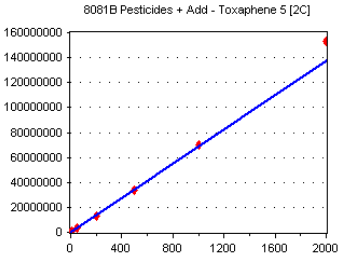


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1731826	3463652.000	9.03
0J15061-CAL2	1	3157154	3157154.000	9.03
0J15061-CAL3	2	5905541	2952771.000	9.03
0J15061-CAL4	5	1.396486E+07	2792972.000	9.03
0J15061-CAL5	10	2.809791E+07	2809791.000	9.03
0J15061-CAL6	25	7.199091E+07	2879637.000	9.03
0J15061-CAL7	50	1.425333E+08	2850666.000	9.03
0J15061-CAL8	100	3.010094E+08	3010094.000	9.03
0J15061-CAL9	200	5.961838E+08	2980919.000	9.03

AVE RF **2988628.000** RF RSD **7.07** AVE RT **9.03**

Toxaphene 5 [2C]

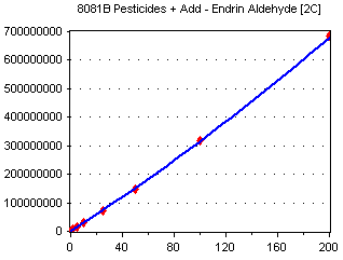


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	702293	70229.300	9.07
0J15061-CALR	50	3263105	65262.100	9.07
0J15061-CALT	200	1.284584E+07	64229.200	9.07
0J15061-CALU	500	3.353962E+07	67079.240	9.07
0J15061-CALV	1000	6.97999E+07	69799.910	9.07
0J15061-CALW	2000	1.534858E+08	76742.900	9.07

AVE RF **68890.440** RF RSD **6.57** AVE RT **9.07**

Endrin Aldehyde [2C]



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	2196243	4392486.000	9.07
0J15061-CAL2	1	3815413	3815413.000	9.07
0J15061-CAL3	2	7179367	3589684.000	9.07
0J15061-CAL4	5	1.50715E+07	3014300.000	9.07
0J15061-CAL5	10	2.947767E+07	2947767.000	9.07
0J15061-CAL6	25	7.327458E+07	2930983.000	9.07
0J15061-CAL7	50	1.460396E+08	2920792.000	9.07
0J15061-CAL8	100	3.193092E+08	3193092.000	9.07
0J15061-CAL9	200	6.84238E+08	3421190.000	9.07

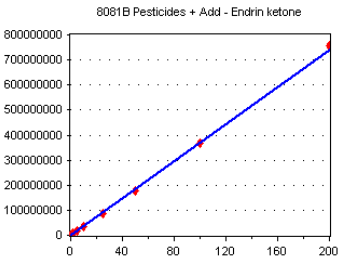
AVE RF **3358412.000** RF RSD **14.98** AVE RT **9.07**

Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Endrin ketone

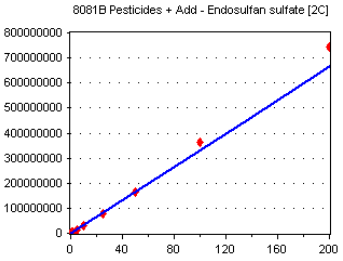


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	2069188	4138376.000	9.24
0J15061-CAL2	1	3789042	3789042.000	9.23
0J15061-CAL3	2	7274419	3637210.000	9.23
0J15061-CAL4	5	1.802375E+07	3604750.000	9.23
0J15061-CAL5	10	3.560505E+07	3560505.000	9.23
0J15061-CAL6	25	8.834975E+07	3533990.000	9.23
0J15061-CAL7	50	1.78018E+08	3560360.000	9.23
0J15061-CAL8	100	3.6819E+08	3681900.000	9.23
0J15061-CAL9	200	7.549577E+08	3774789.000	9.23

AVE RF **3697880.000** RF RSD **5.11** AVE RT **9.23**

Endosulfan sulfate [2C]

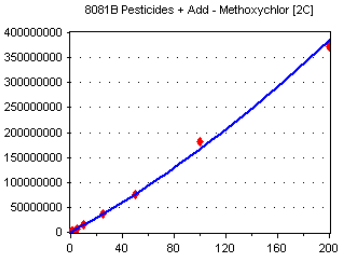


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1864404	3728808.000	9.27
0J15061-CAL2	1	3258540	3258540.000	9.27
0J15061-CAL3	2	6267396	3133698.000	9.27
0J15061-CAL4	5	1.496955E+07	2993910.000	9.27
0J15061-CAL5	10	3.045163E+07	3045163.000	9.26
0J15061-CAL6	25	7.87263E+07	3149052.000	9.26
0J15061-CAL7	50	1.628361E+08	3256722.000	9.26
0J15061-CAL8	100	3.619464E+08	3619464.000	9.26
0J15061-CAL9	200	7.438466E+08	3719233.000	9.27

AVE RF **3322732.000** RF RSD **8.71** AVE RT **9.26**

Methoxychlor [2C]

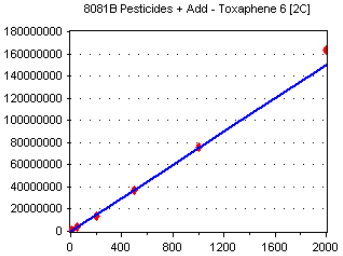


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	771752	1543504.000	9.43
0J15061-CAL2	1	1490489	1490489.000	9.42
0J15061-CAL3	2	2917738	1458869.000	9.42
0J15061-CAL4	5	6672527	1334505.000	9.42
0J15061-CAL5	10	1.410484E+07	1410484.000	9.42
0J15061-CAL6	25	3.780903E+07	1512361.000	9.42
0J15061-CAL7	50	7.507455E+07	1501491.000	9.42
0J15061-CAL8	100	1.811444E+08	1811444.000	9.42
0J15061-CAL9	200	3.725214E+08	1862607.000	9.42

AVE RF **1547306.000** RF RSD **11.37** AVE RT **9.42**

Toxaphene 6 [2C]



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	10	779942	77994.200	9.44
0J15061-CALR	50	3524155	70483.100	9.44
0J15061-CALT	200	1.399055E+07	69952.750	9.44
0J15061-CALU	500	3.661814E+07	73236.280	9.44
0J15061-CALV	1000	7.59658E+07	75965.800	9.44
0J15061-CALW	2000	1.633167E+08	81658.350	9.44

AVE RF **74881.750** RF RSD **6.07** AVE RT **9.44**

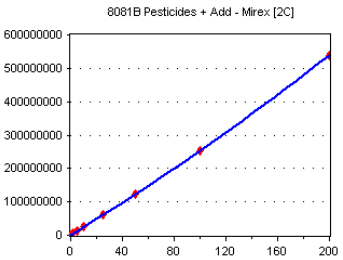
Element Calibration Review Sheet

Calibration ID: **A0J2107** Instrument: **DUALECD8** Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add** Instrument Cal ID: **ECD8_QUANTPEST_20101**

Mirex [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

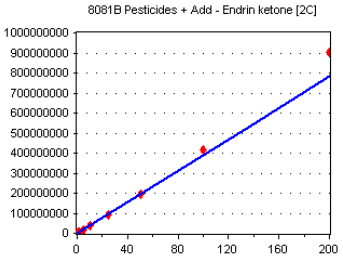


Standard	Concentration	Response	Response Factor	RT
0J15061-CALA	0.5	1941278	3882556.000	9.65
0J15061-CALB	1	3435505	3435505.000	9.65
0J15061-CALC	2	5403191	2701596.000	9.65
0J15061-CALD	5	1.21606E+07	2432120.000	9.65
0J15061-CALE	10	2.447128E+07	2447128.000	9.65
0J15061-CALF	25	6.083436E+07	2433375.000	9.65
0J15061-CALG	50	1.234717E+08	2469434.000	9.64
0J15061-CALH	100	2.545269E+08	2545269.000	9.65
0J15061-CALI	200	5.382337E+08	2691169.000	9.64

AVE RF **2782017.000** RF RSD **18.69** AVE RT **9.65**

Endrin ketone [2C]

Curve Fit: **AVERAGE RF**

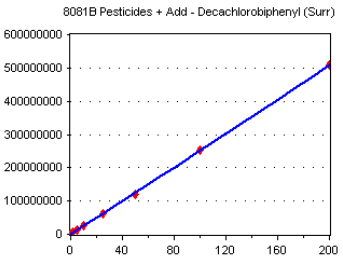


Standard	Concentration	Response	Response Factor	RT
~~0J15061-CAL1~~	~~0.5~~	~~7722012~~	~~1.544~~	~~9.66~~
0J15061-CAL2	1	4169368	4169368.000	9.66
0J15061-CAL3	2	7194544	3597272.000	9.66
0J15061-CAL4	5	1.76444E+07	3528880.000	9.66
0J15061-CAL5	10	3.655581E+07	3655581.000	9.65
0J15061-CAL6	25	9.339277E+07	3735711.000	9.66
0J15061-CAL7	50	1.932279E+08	3864558.000	9.66
0J15061-CAL8	100	4.180418E+08	4180418.000	9.66
0J15061-CAL9	200	9.03554E+08	4517770.000	9.66

AVE RF **3906195.000** RF RSD **8.92** AVE RT **9.66**

Decachlorobiphenyl (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

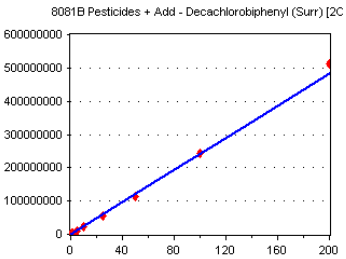


Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1866301	3732602.000	9.90
0J15061-CAL2	1	3197716	3197716.000	9.90
0J15061-CAL3	2	5701683	2850842.000	9.90
0J15061-CAL4	5	1.28632E+07	2572640.000	9.90
0J15061-CAL5	10	2.566336E+07	2566336.000	9.90
0J15061-CAL6	25	6.231846E+07	2492739.000	9.90
0J15061-CAL7	50	1.21564E+08	2431280.000	9.90
0J15061-CAL8	100	2.543656E+08	2543656.000	9.90
0J15061-CAL9	200	5.089062E+08	2544531.000	9.90

AVE RF **2770260.000** RF RSD **15.58** AVE RT **9.90**

Decachlorobiphenyl (Surr) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0J15061-CAL1	0.5	1410803	2821606.000	10.51
0J15061-CAL2	1	2586506	2586506.000	10.51
0J15061-CAL3	2	4791544	2395772.000	10.51
0J15061-CAL4	5	1.128383E+07	2256766.000	10.51
0J15061-CAL5	10	2.221992E+07	2221992.000	10.50
0J15061-CAL6	25	5.626095E+07	2250438.000	10.50
0J15061-CAL7	50	1.124335E+08	2248670.000	10.51
0J15061-CAL8	100	2.423042E+08	2423042.000	10.50
0J15061-CAL9	200	5.137921E+08	2568961.000	10.51

AVE RF **2419306.000** RF RSD **8.47** AVE RT **10.50**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0J15061

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
608.3 Pesticides
608.3 Additionals
608.3 Chlordane
608.3 Pest (Chlordane)
608.3 Pest + Add (250mL) - Development
608.3 Pesticides (DDT Only)
608.3 Pesticides (SW)
608.3 Pesticides (SW) Full List
608.3 Pesticides (TTO)
608.3 Toxaphene
8081B Pesticides
8081B 2,4+4,4-DDx Only (+Add)
8081B Chlordane
8081B DDT Only
8081B Pesticides + Add
8081B Pesticides + Add (Diss)
8081B RSET FW Sed (+Add) (2016)
8081B RSET Sediment List (+Add)
8081B RSET Sediment Marine (2016) (+Add)
8081B Toxaphene

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0J15061

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
0J15061-ICB1	Initial Cal Blank	Water	A20J148		10/15/2020 6:15:00PM
0J15061-CAL1	Cal Standard	Water	A20J274	"	10/15/2020 6:32:00PM
0J15061-CAL2	Cal Standard	Water	A20J275	"	10/15/2020 6:48:00PM
0J15061-CAL3	Cal Standard	Water	A20H471	"	10/15/2020 7:05:00PM
0J15061-CAL4	Cal Standard	Water	A20H472	"	10/15/2020 7:21:00PM
0J15061-CAL5	Cal Standard	Water	A20H473	"	10/15/2020 7:38:00PM
0J15061-CAL6	Cal Standard	Water	A20H474	"	10/15/2020 7:54:00PM
0J15061-CAL7	Cal Standard	Water	A20H475	"	10/15/2020 8:11:00PM
0J15061-CAL8	Cal Standard	Water	A20H476	"	10/15/2020 8:27:00PM
0J15061-CAL9	Cal Standard	Water	A20H470	"	10/15/2020 8:44:00PM
0J15061-ICV1	Initial Cal Check	Water	A20I130	"	10/15/2020 9:17:00PM
0J15061-CALA	Cal Standard	Water	A20J276	"	10/15/2020 9:33:00PM
0J15061-CALB	Cal Standard	Water	A20I180	"	10/15/2020 9:50:00PM
0J15061-CALC	Cal Standard	Water	A20I181	"	10/15/2020 10:06:00PM
0J15061-CALD	Cal Standard	Water	A20I182	"	10/15/2020 10:23:00PM
0J15061-CALE	Cal Standard	Water	A20I183	"	10/15/2020 10:39:00PM
0J15061-CALF	Cal Standard	Water	A20I184	"	10/15/2020 10:56:00PM
0J15061-CALG	Cal Standard	Water	A20I185	"	10/15/2020 11:12:00PM
0J15061-CALH	Cal Standard	Water	A20I186	"	10/15/2020 11:29:00PM
0J15061-CALI	Cal Standard	Water	A20I179	"	10/15/2020 11:46:00PM
0J15061-ICV2	Initial Cal Check	Water	A20I187	"	10/16/2020 12:19:00AM
0J15061-CALJ	Cal Standard	Water	A20J277	"	10/16/2020 12:35:00AM
0J15061-CALK	Cal Standard	Water	A20F057	"	10/16/2020 12:52:00AM
0J15061-CALL	Cal Standard	Water	A20F058	"	10/16/2020 1:08:00AM
0J15061-CALM	Cal Standard	Water	A20F059	"	10/16/2020 1:24:00AM
0J15061-CALN	Cal Standard	Water	A20F060	"	10/16/2020 1:41:00AM
0J15061-CALO	Cal Standard	Water	A20F061	"	10/16/2020 1:58:00AM
0J15061-CALP	Cal Standard	Water	A20F056	"	10/16/2020 2:14:00AM
0J15061-ICV3	Initial Cal Check	Water	A20F062	"	10/16/2020 2:47:00AM
0J15061-CALQ	Cal Standard	Water	A20J278	"	10/16/2020 3:04:00AM
0J15061-CALR	Cal Standard	Water	A20F064	"	10/16/2020 3:20:00AM
0J15061-CALS	Cal Standard	Water	A20F065	"	10/16/2020 3:37:00AM
0J15061-CALT	Cal Standard	Water	A20F066	"	10/16/2020 3:53:00AM
0J15061-CALU	Cal Standard	Water	A20D430	"	10/16/2020 4:10:00AM
0J15061-CALV	Cal Standard	Water	A20D431	"	10/16/2020 4:26:00AM
0J15061-CALW	Cal Standard	Water	A20F063	"	10/16/2020 4:43:00AM
0J15061-ICV4	Initial Cal Check	Water	A20F067	"	10/16/2020 5:16:00AM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0J2107** Instrument: **DUALECD8F**

1311/8081B TCLP Pest Reg L Sequence: **0J15061** Matrix: **Water**

0J15061-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0J15061

0J15061-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CAL5	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CAL6	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CAL7	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CAL8	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CAL9	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALA	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALB	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALC	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALD	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALE	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALF	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALG	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALH	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALI	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALJ	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALK	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALL	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALM	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALN	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALO	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Chlordane (Technical)	940.0000	0.00	1000	0	
Chlordane (Technical) [2C]	940.0000	0.00	1000	0	
0J15061-CALP	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
Chlordane (Technical)	940.0000	0.00	2000	0	
Chlordane (Technical) [2C]	940.0000	0.00	2000	0	
0J15061-CALQ	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALR	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALS	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALT	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**
0J15061-CALU	**Inst. MRL**	**Recalc Res.**	**Cal Level**	**%Rec.**	**Qual**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0J15061

0J15061-CALV	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Toxaphene (Total)	940.0000	0.00	1000	0	
Toxaphene (Total) [2C]	940.0000	0.00	1000	0	

0J15061-CALW	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Toxaphene (Total)	940.0000	0.00	2000	0	
Toxaphene (Total) [2C]	940.0000	0.00	2000	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: **A0J2107** Instrument: **DUALECD8F**

608.3 Pest + Add (250mL) - De Sequence: **0J15061** Matrix: **Water**

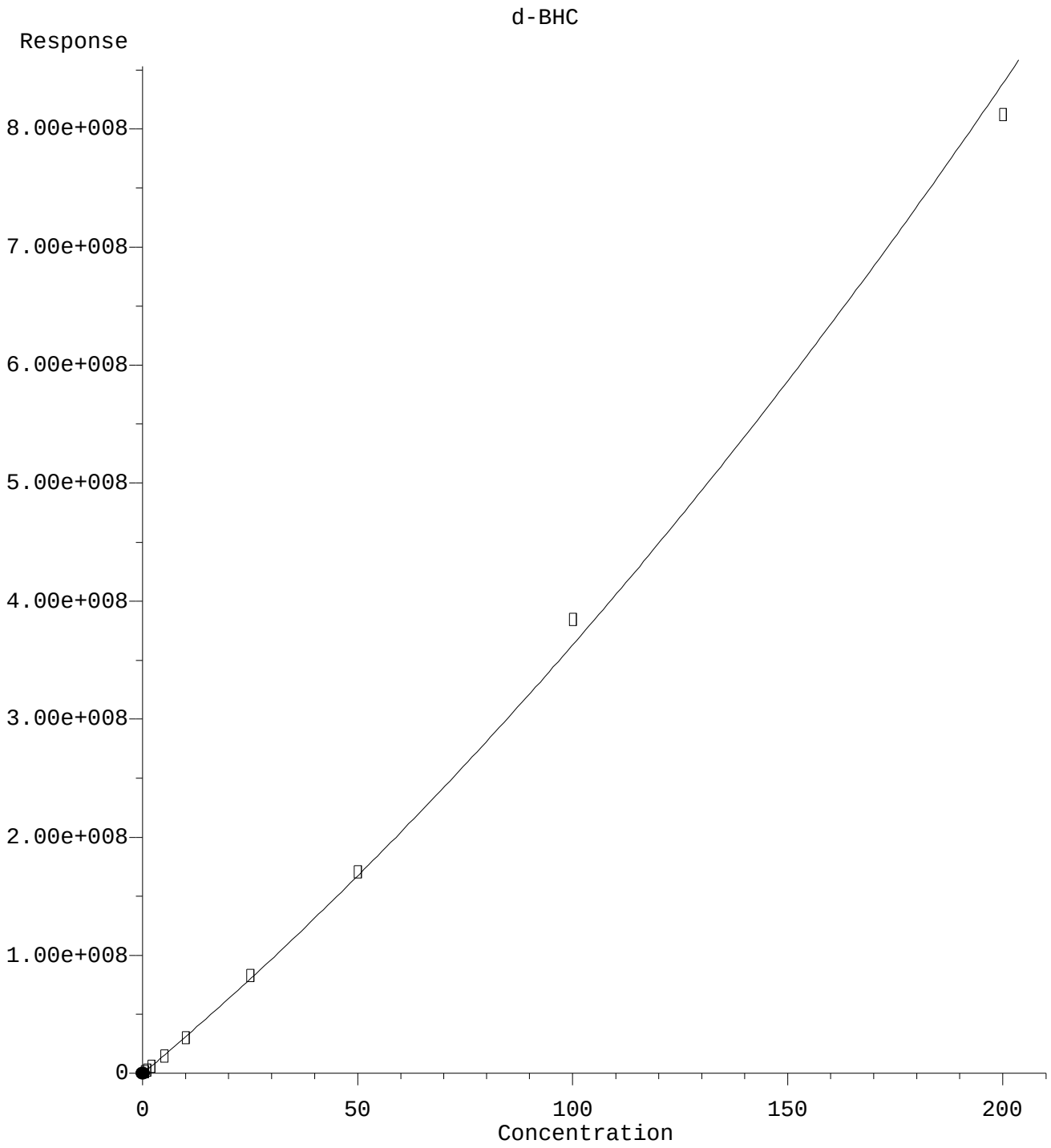
0J15061-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual

0J15061-ICV2	Inst. MRL	ICV Level	Result	%Rec.	Qual

0J15061-ICV3	Inst. MRL	ICV Level	Result	%Rec.	Qual

0J15061-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.

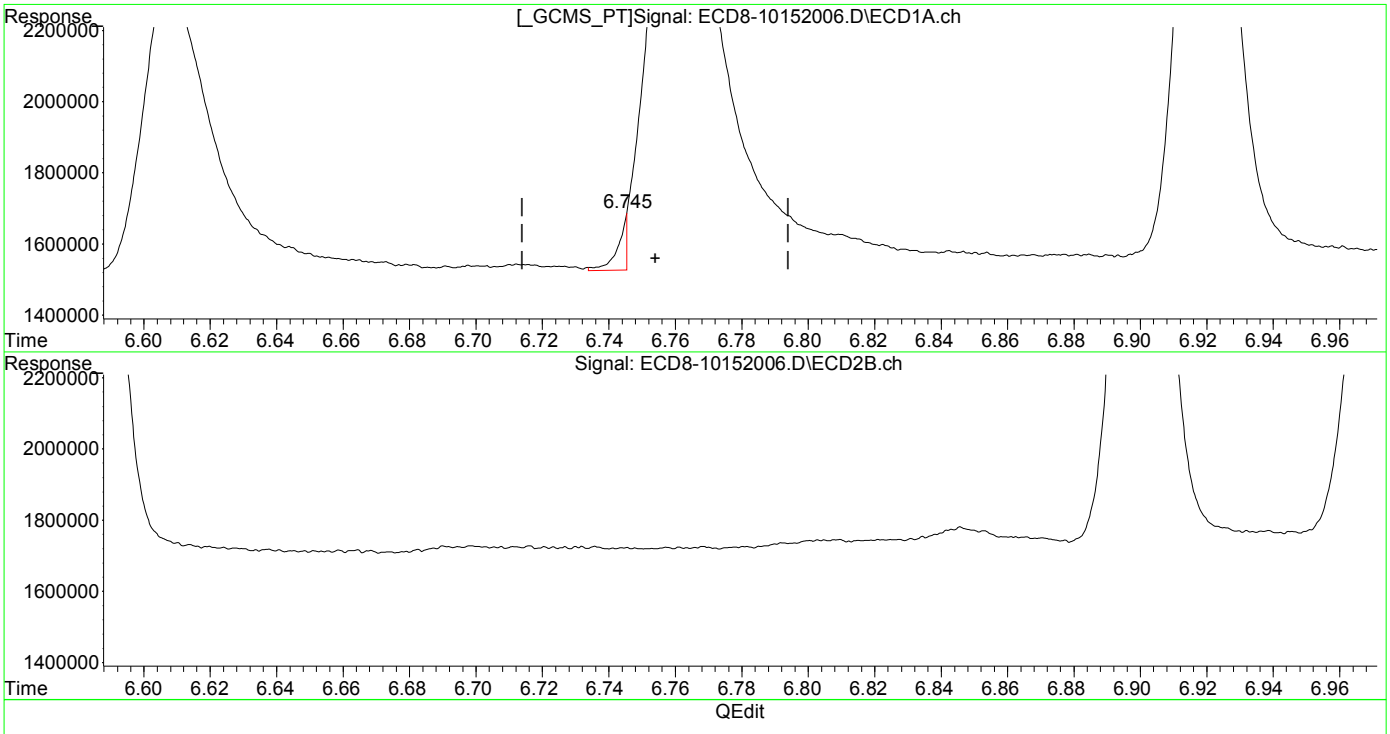


R = 5.64e+003 A*A + 3.07e+006 A - 1.78e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

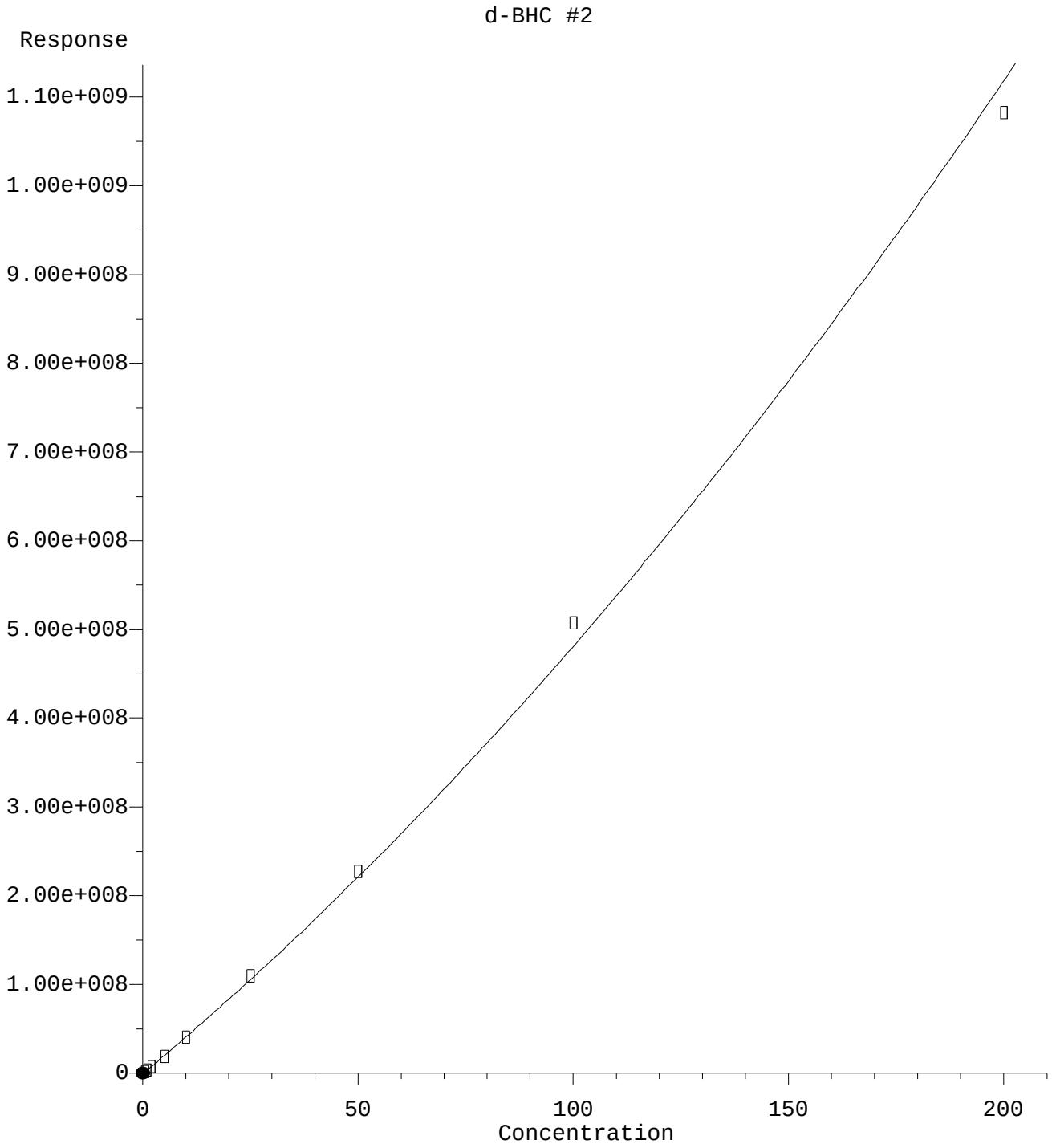


(6) d-BHC
6.745min 0.105 ng/mL m
response 142740

MJB 10/21/20

(6) d-BHC #2
7.218min 0.517 ng/mL
response 1816056

(+) = Expected Retention Time

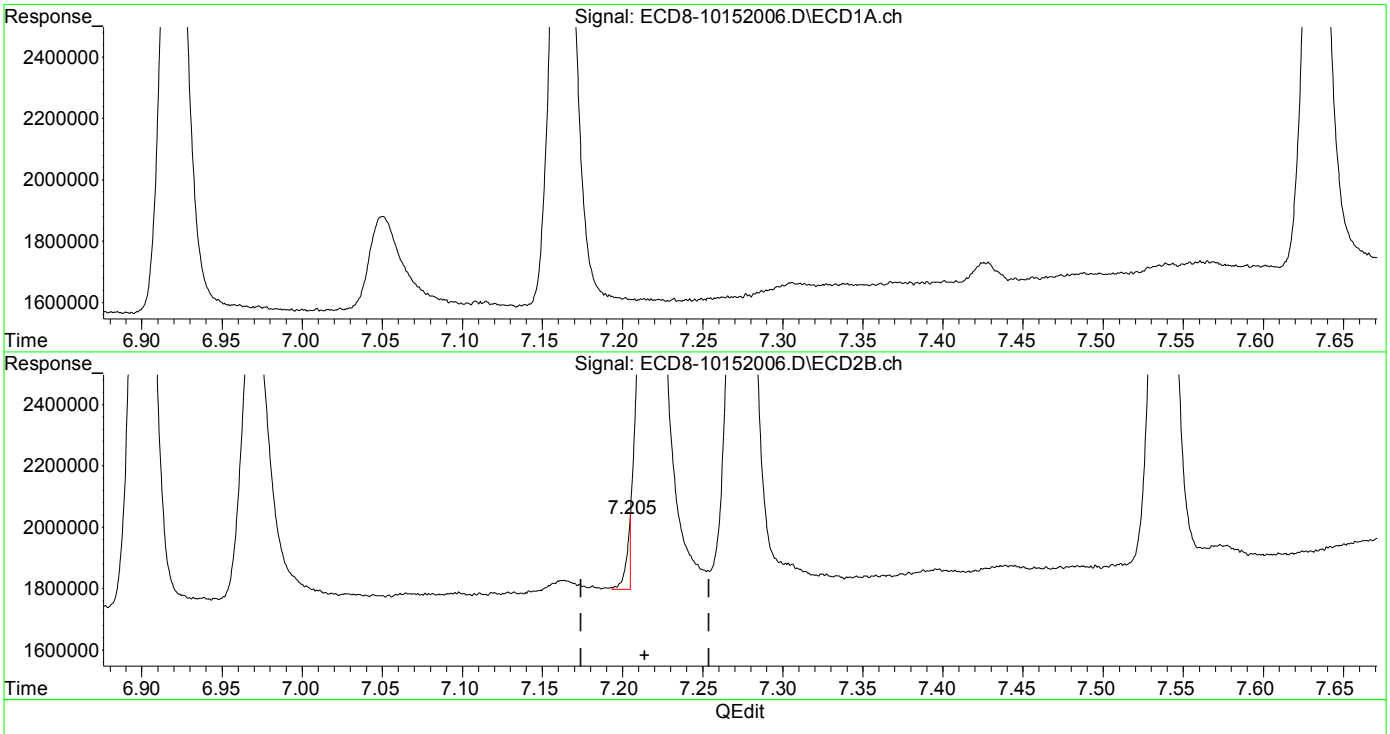


R = 7.83e+003 A*A + 4.03e+006 A - 2.70e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

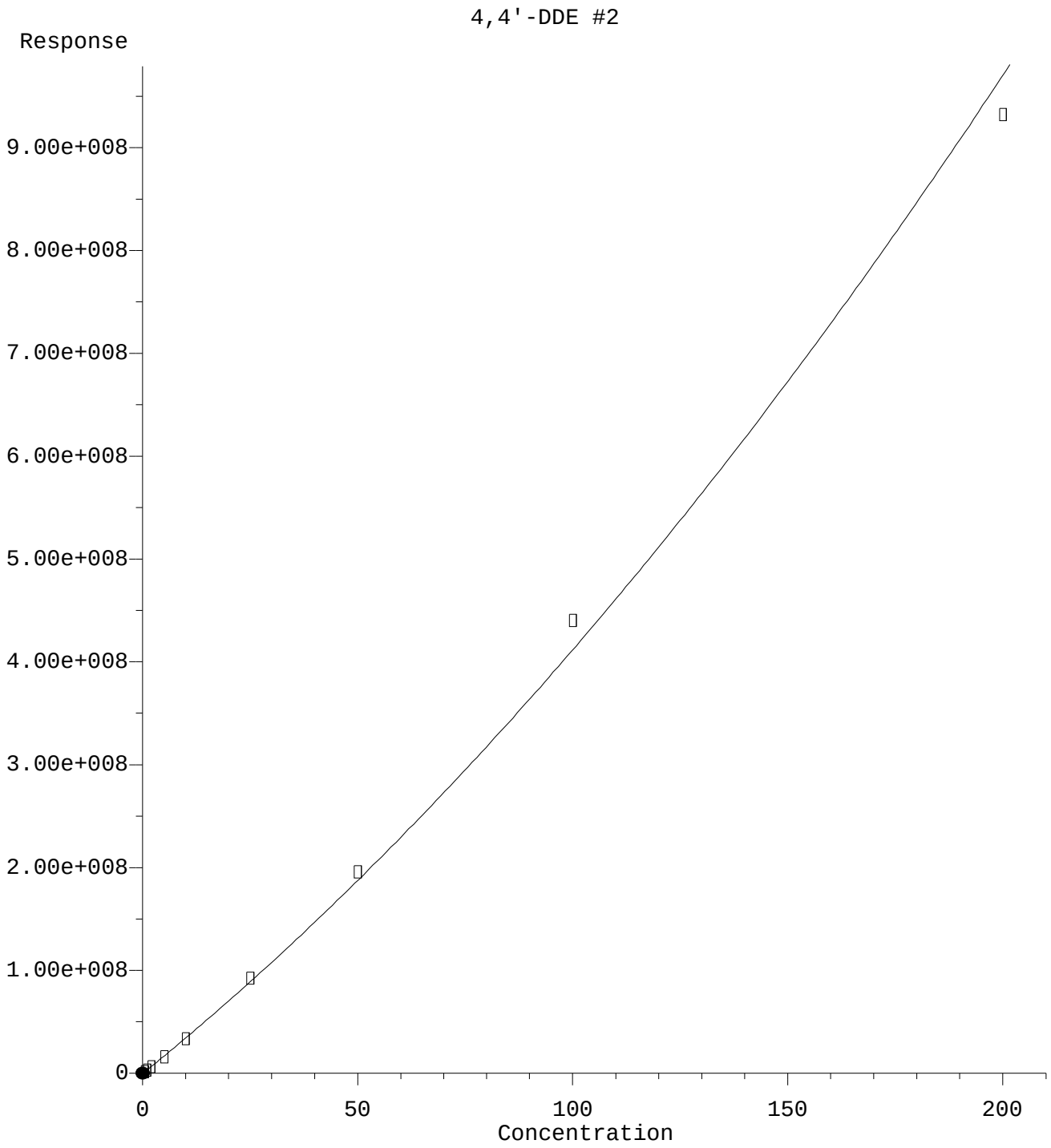


(6) d-BHC
6.745min 0.105 ng/mL m
response 142740

MJB 10/21/20

(6) d-BHC #2
7.205min 0.125 ng/mL m
response 232349

(+) = Expected Retention Time

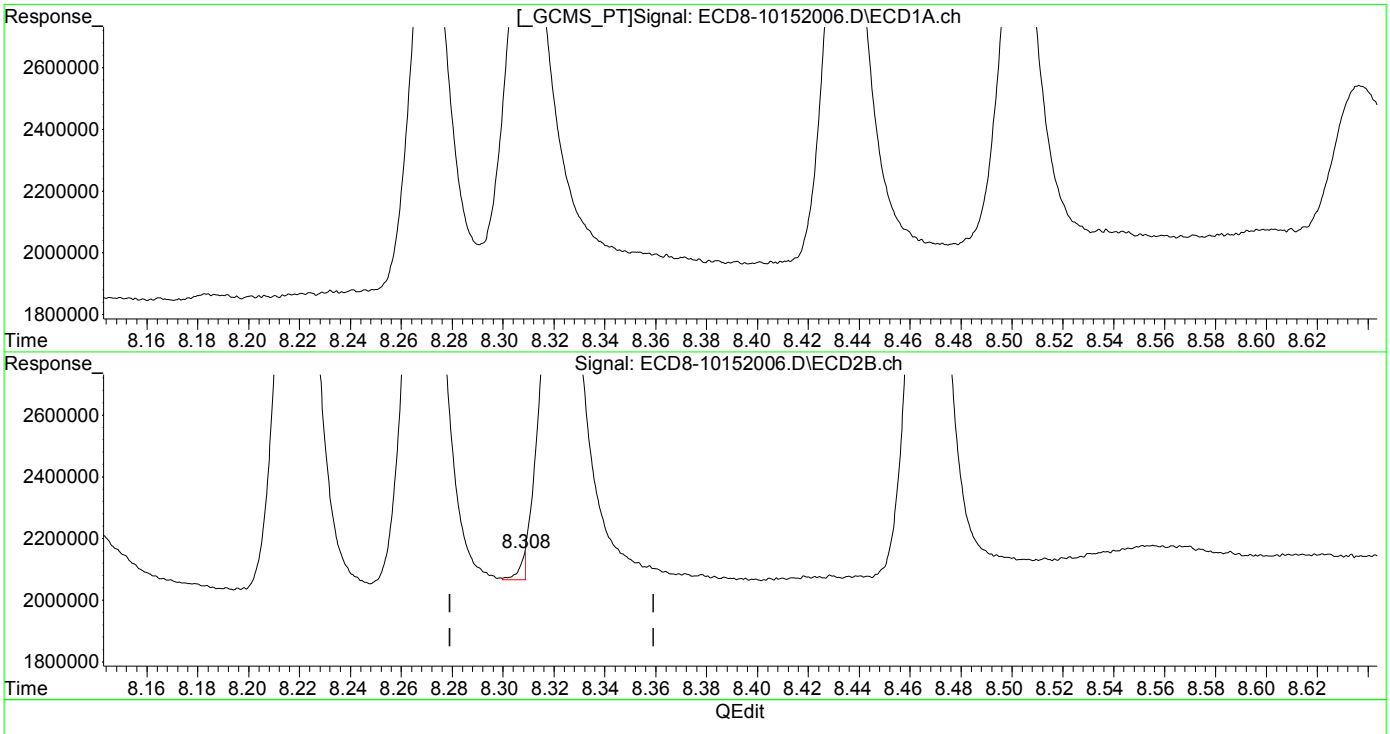


R = 7.35e+003 A*A + 3.38e+006 A - 1.61e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

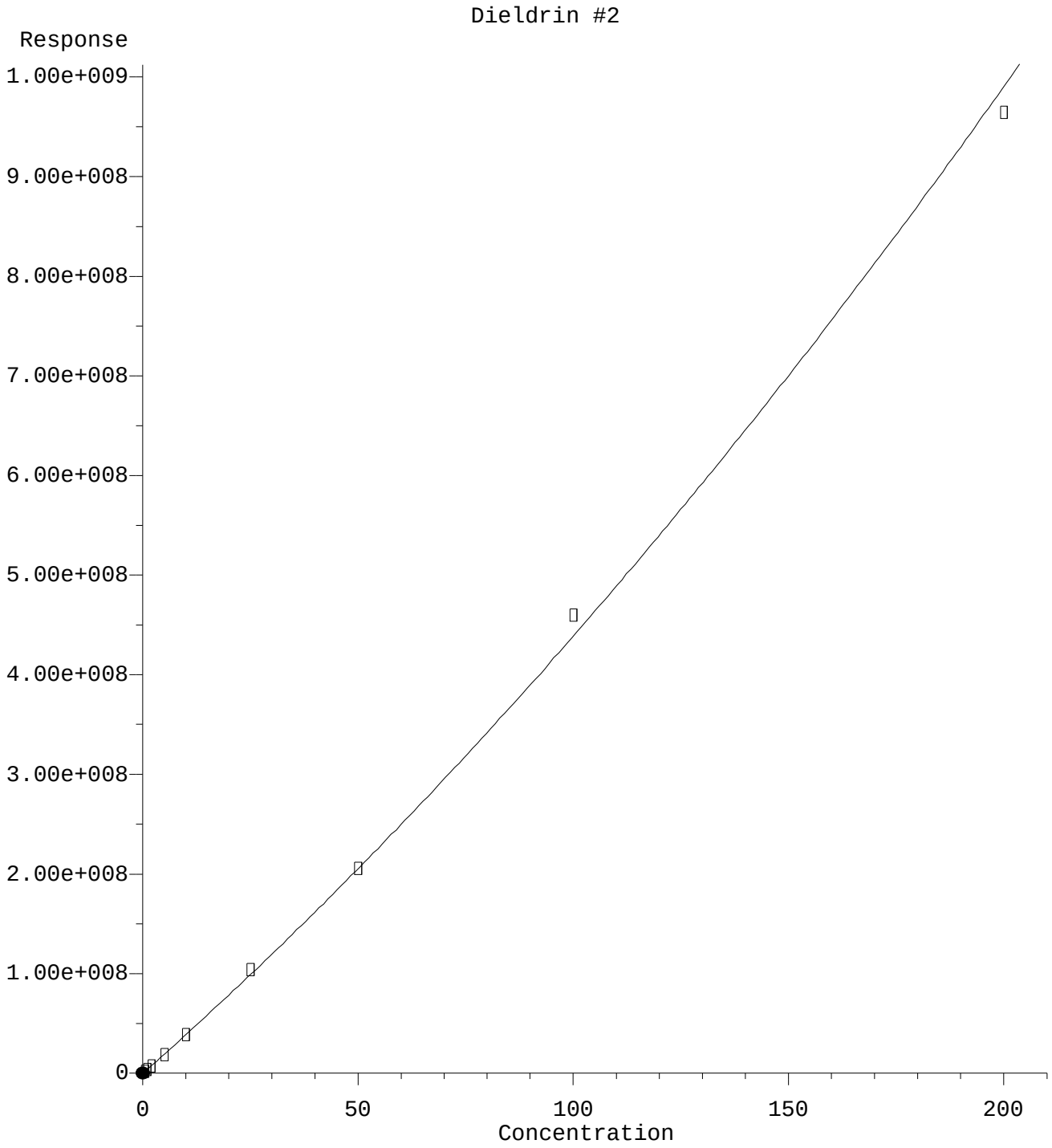


(12) 4,4'-DDE
7.880min 0.472 ng/mL
response 1488674

MJB 10/21/20

(12) 4,4'-DDE #2
8.308min 0.073 ng/mL m
response 86901

(+) = Expected Retention Time

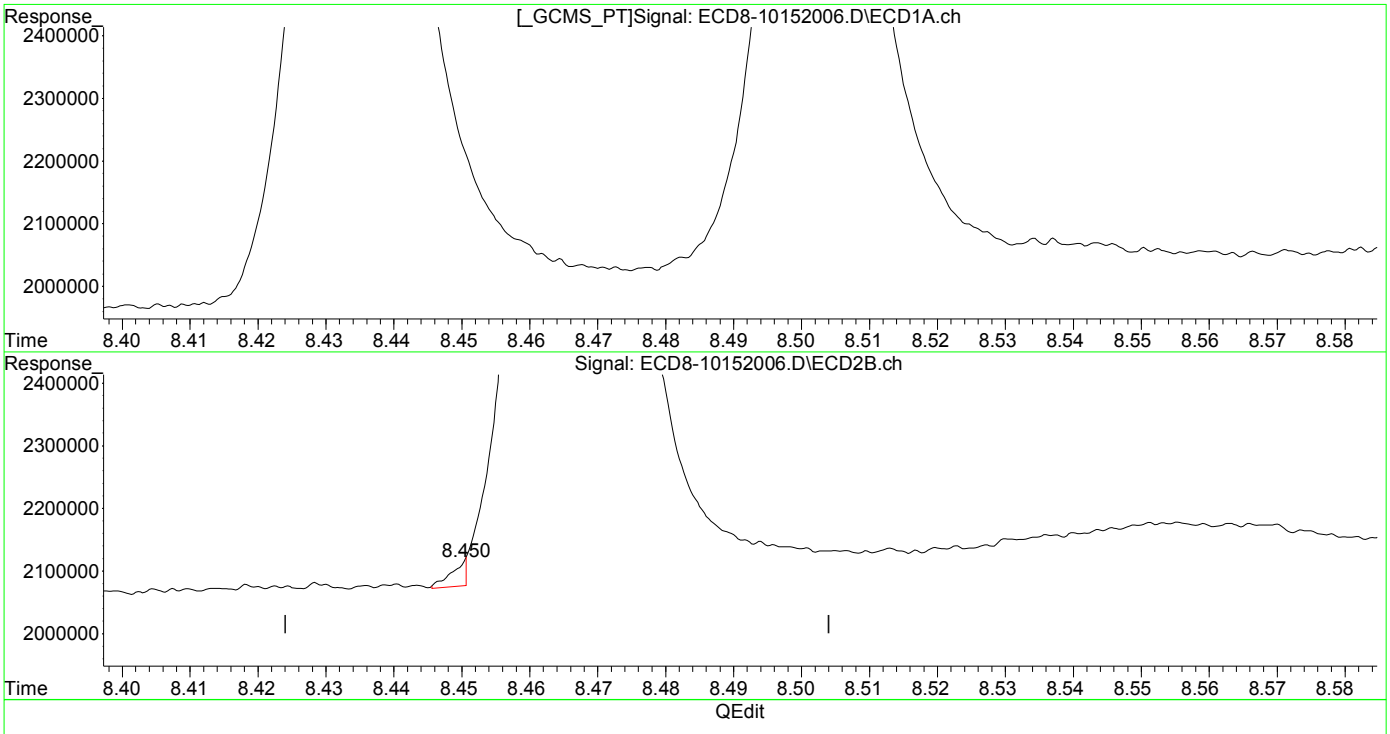


R = 5.65e+003 A*A + 3.82e+006 A - 6.30e+004
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

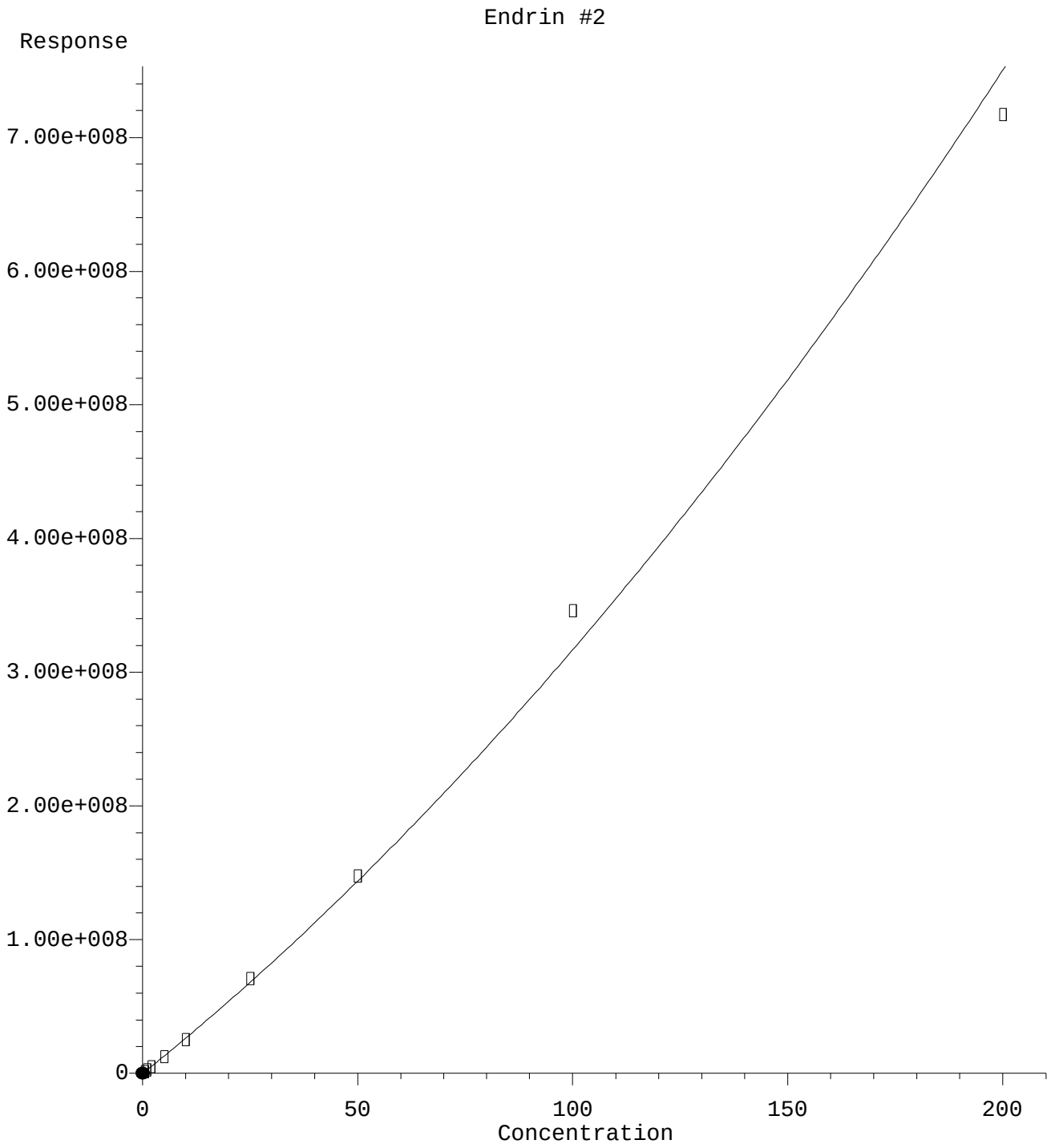


(13) Dieldrin
8.101min 0.503 ng/mL
response 1890452

MJB 10/21/20

(13) Dieldrin #2
8.450min 0.027 ng/mL m
response 38767

(+) = Expected Retention Time

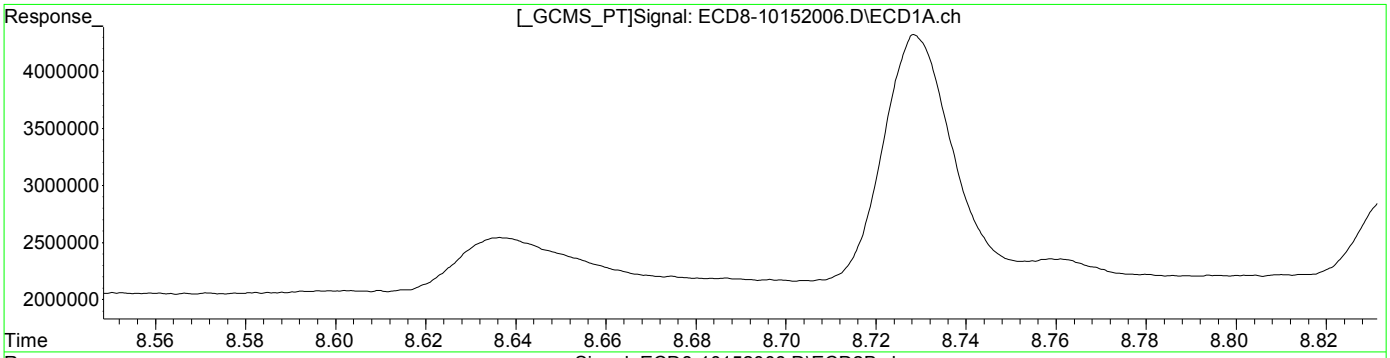


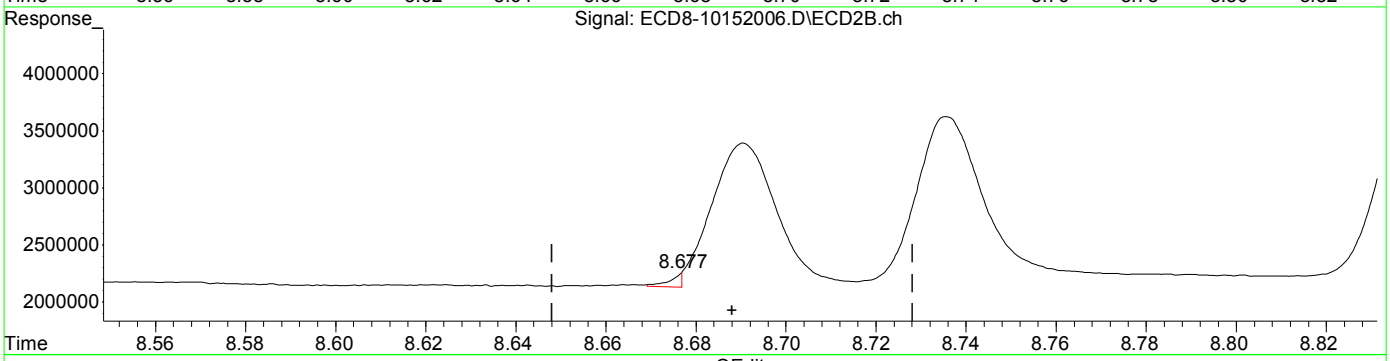
R = 5.85e+003 A*A + 2.58e+006 A - 6.81e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

(14) Endrin
8.271min 0.490 ng/mL
response 1343181

MJB 10/21/20

(14) Endrin #2
8.677min 0.074 ng/mL m
response 123816

(+) = Expected Retention Time

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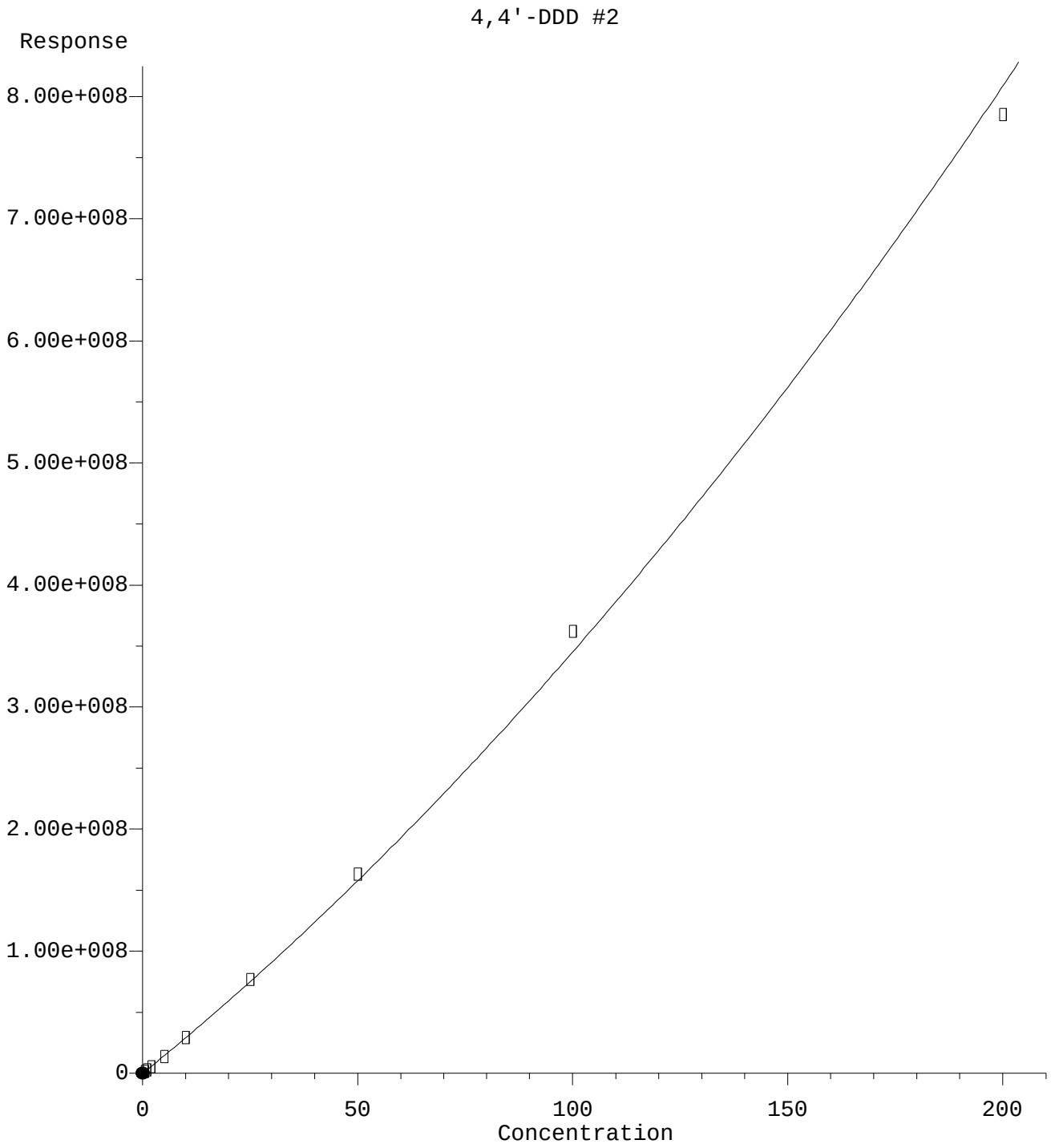
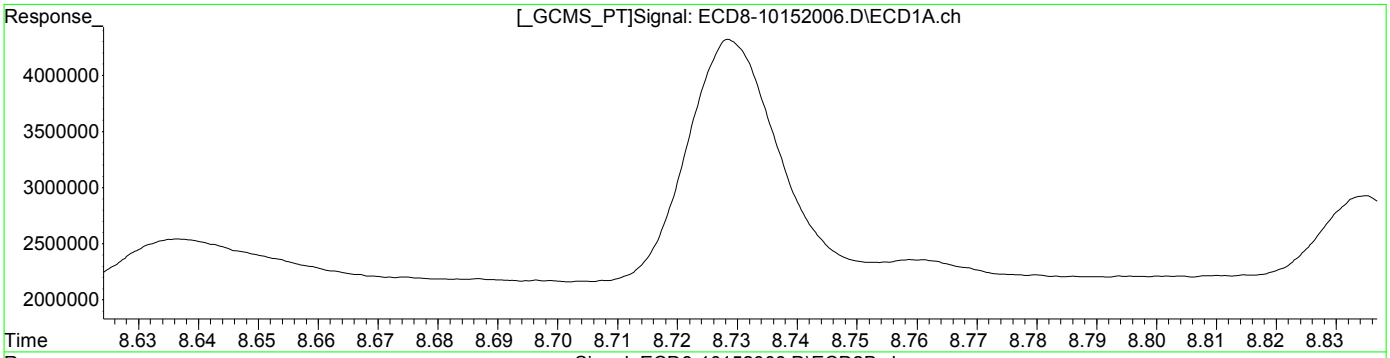


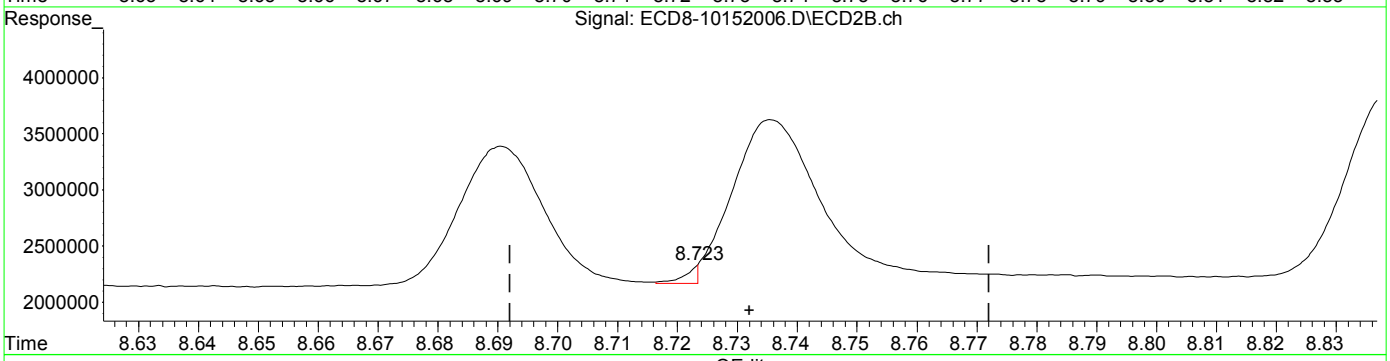
R = 5.94e+003 A*A + 2.86e+006 A - 4.68e+003
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





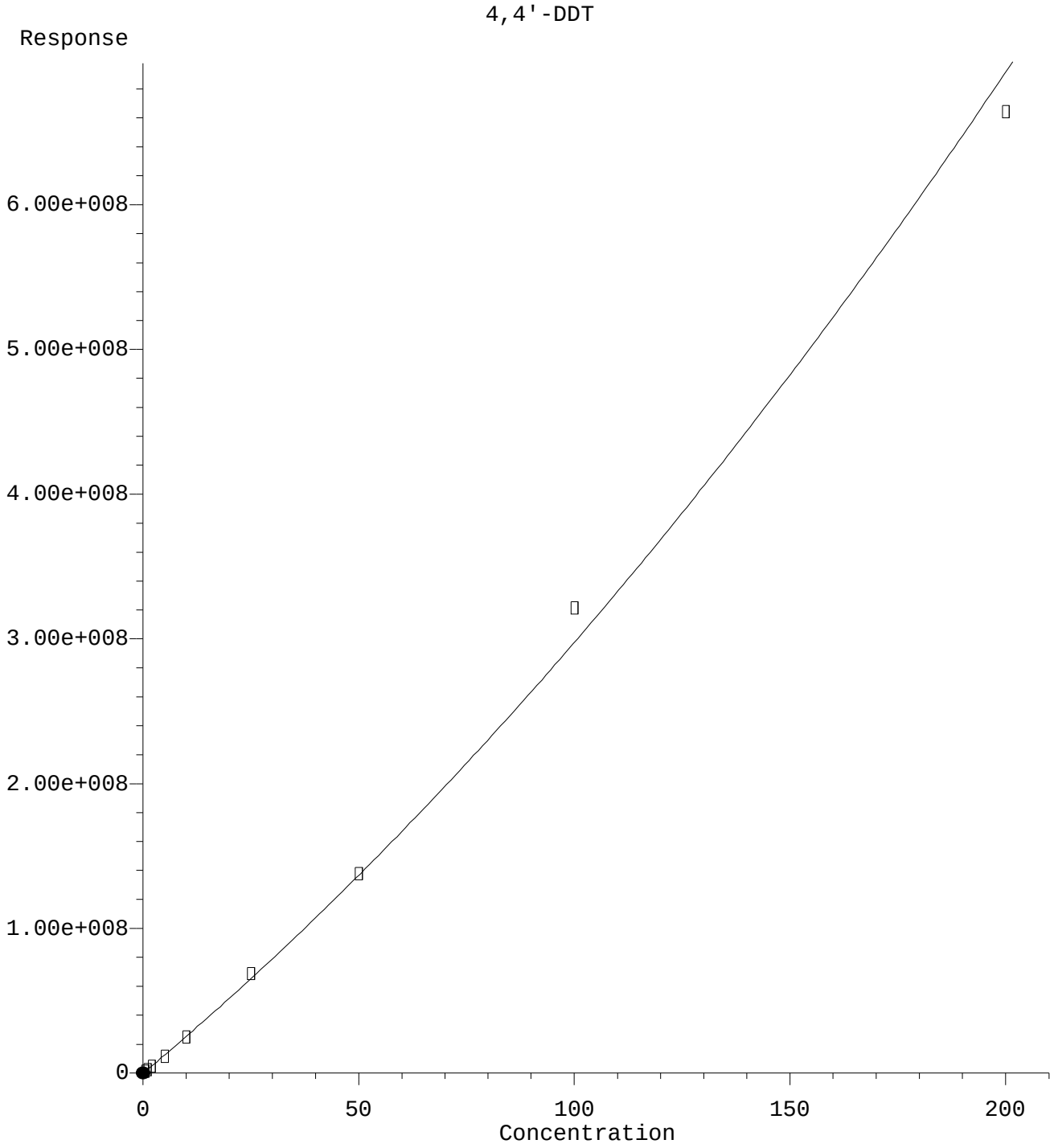
QEdit

(15) 4,4'-DDD
8.309min 0.492 ng/mL
response 1338233

MJB 10/21/20

(15) 4,4'-DDD #2
8.723min 0.060 ng/mL m
response 166696

(+) = Expected Retention Time

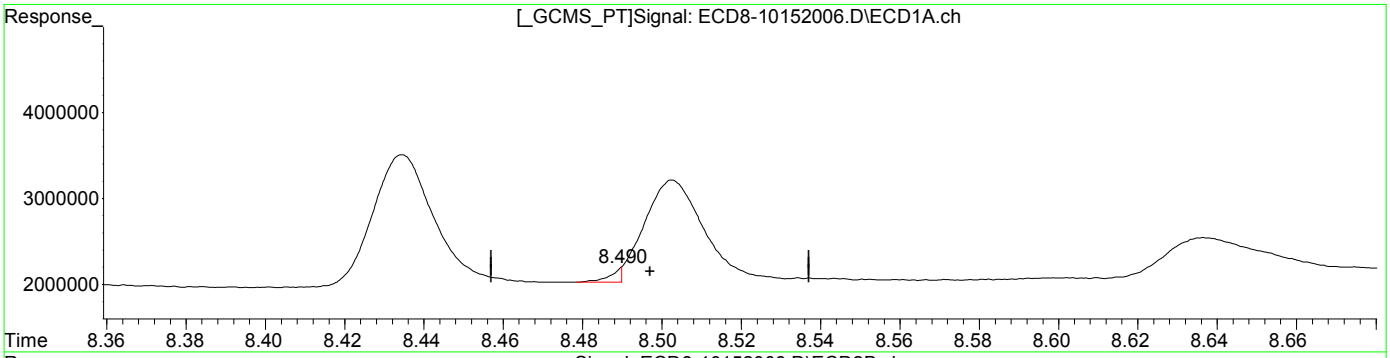


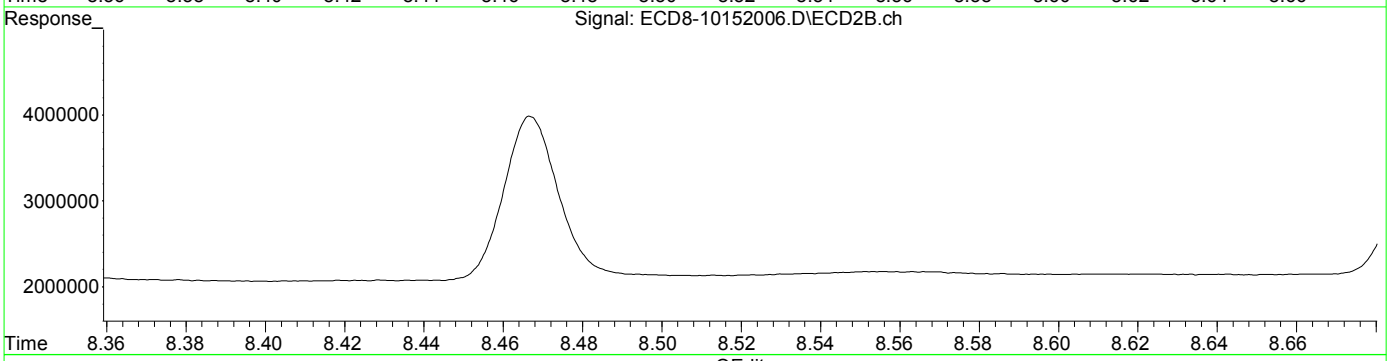
R = 4.83e+003 A*A + 2.49e+006 A - 8.00e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





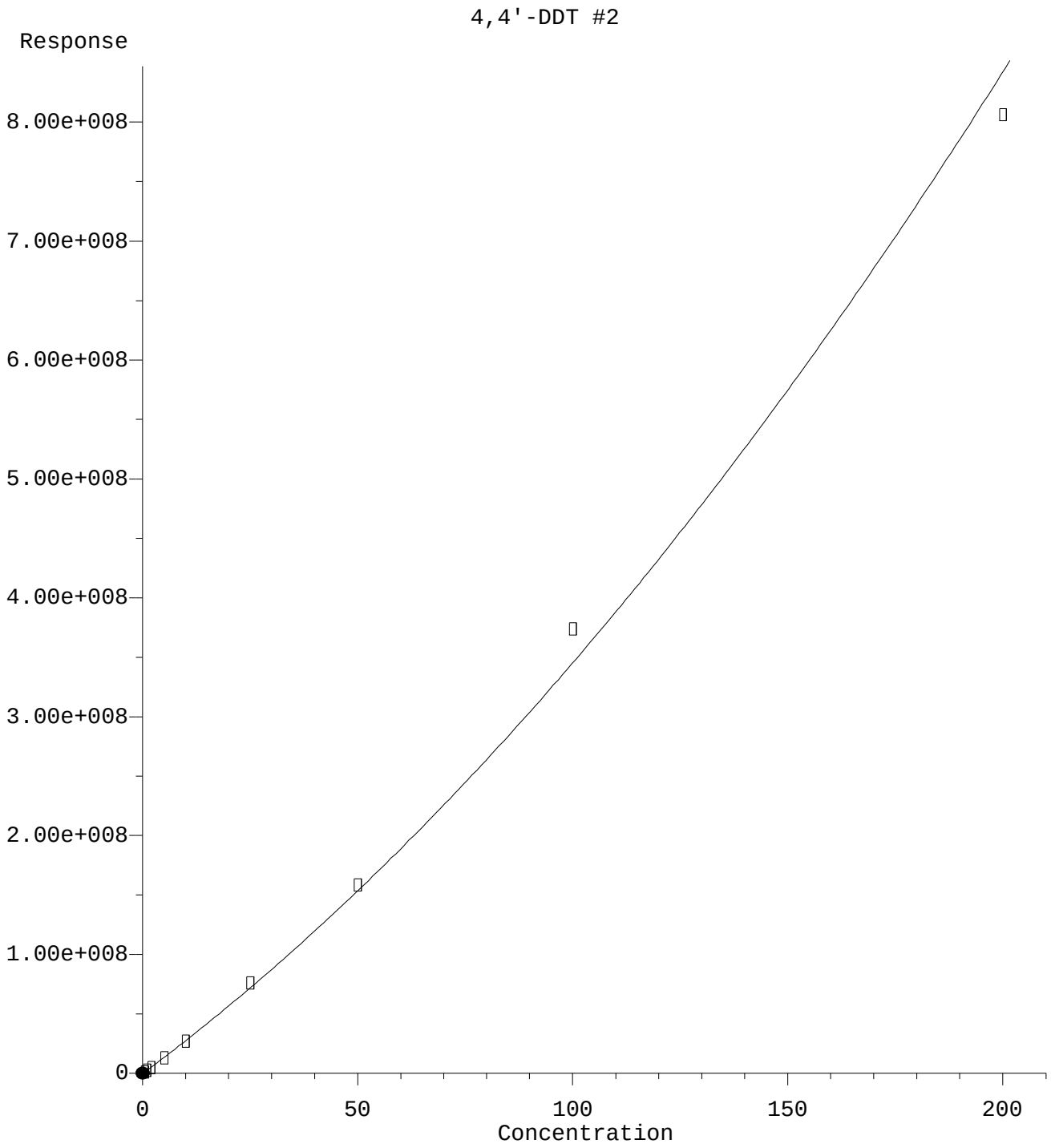
QEdit

(17) 4,4'-DDT
8.490min 0.100 ng/mL m
response 168389

MJB 10/21/20

(17) 4,4'-DDT #2
8.959min 0.519 ng/mL
response 1227833

(+) = Expected Retention Time

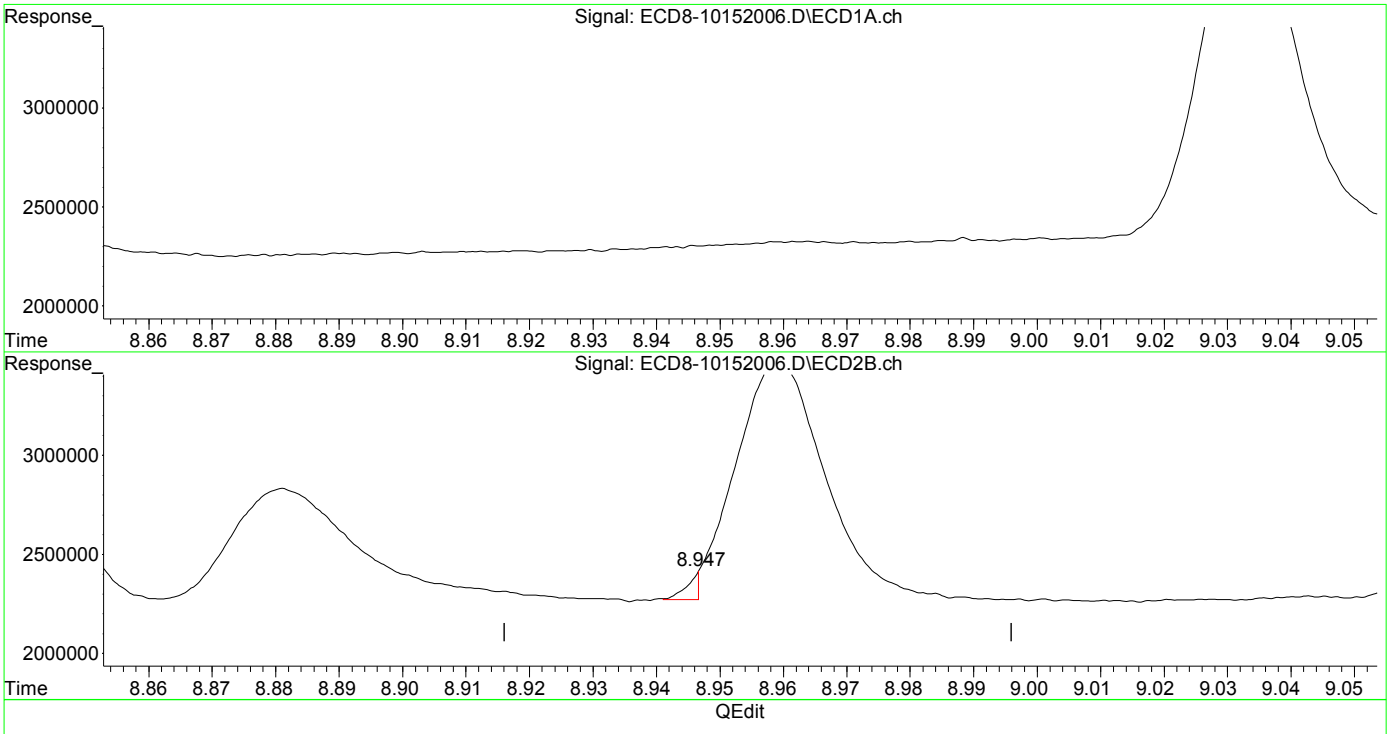


R = 7.61e+003 A*A + 2.69e+006 A - 1.70e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

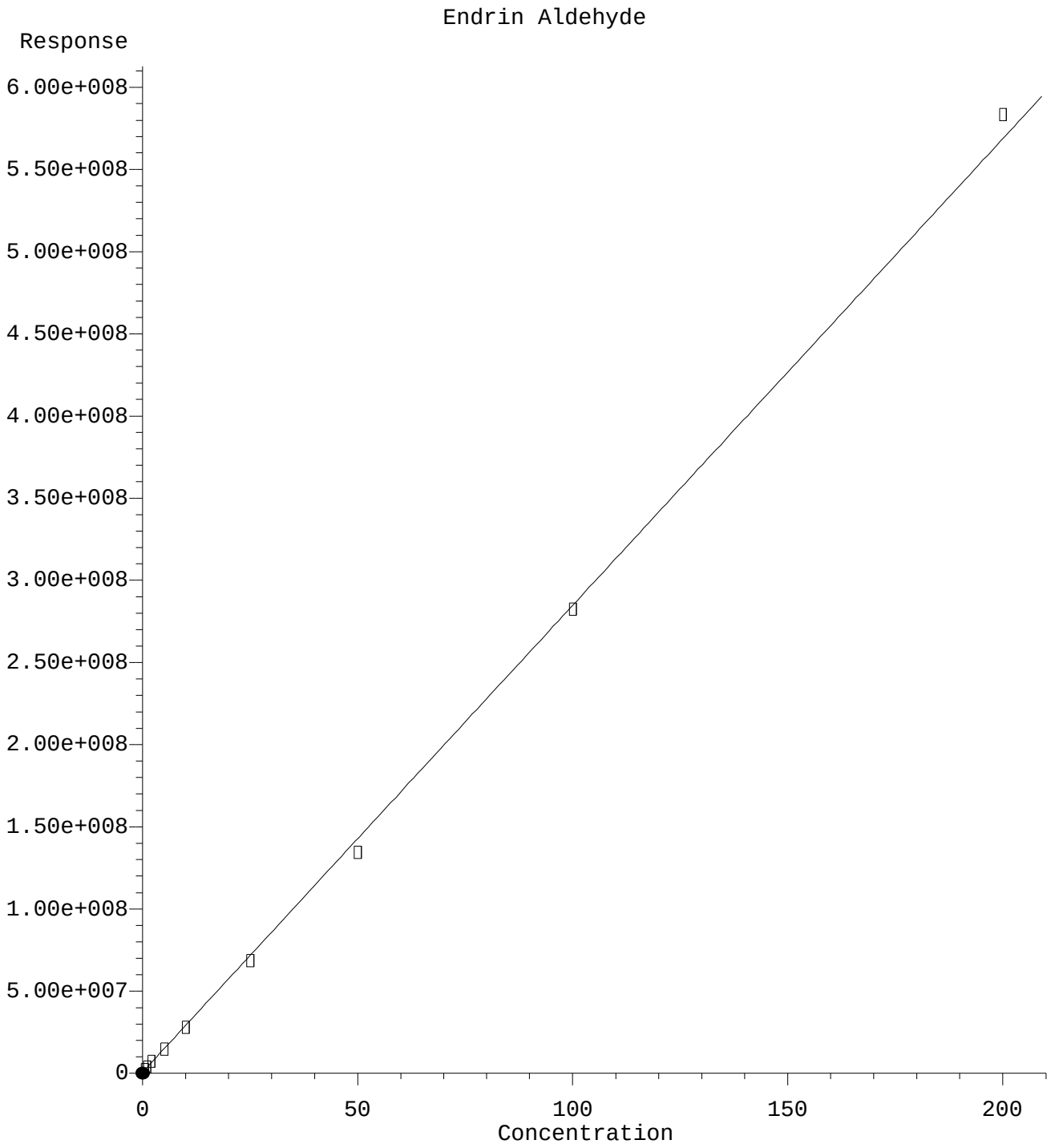


(17) 4,4'-DDT
8.490min 0.100 ng/mL m
response 168389

(17) 4,4'-DDT #2
8.947min 0.117 ng/mL m
response 144813

MJB 10/21/20

(+) = Expected Retention Time

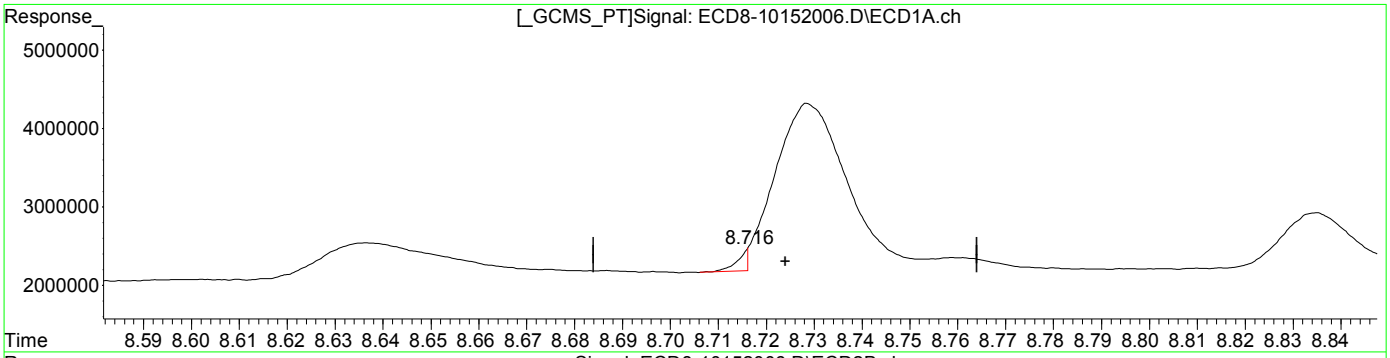


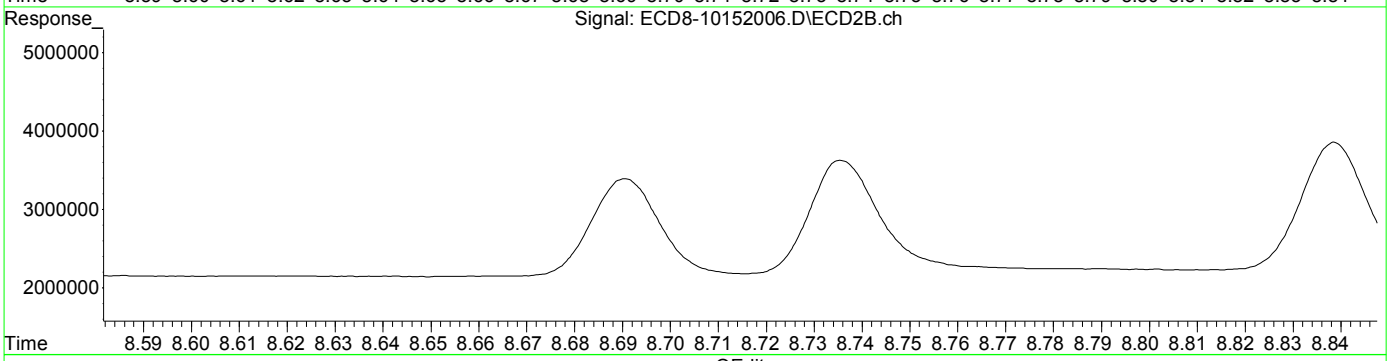
R = 1.05e+001 A*A + 2.84e+006 A + 8.53e+005
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





QEdit

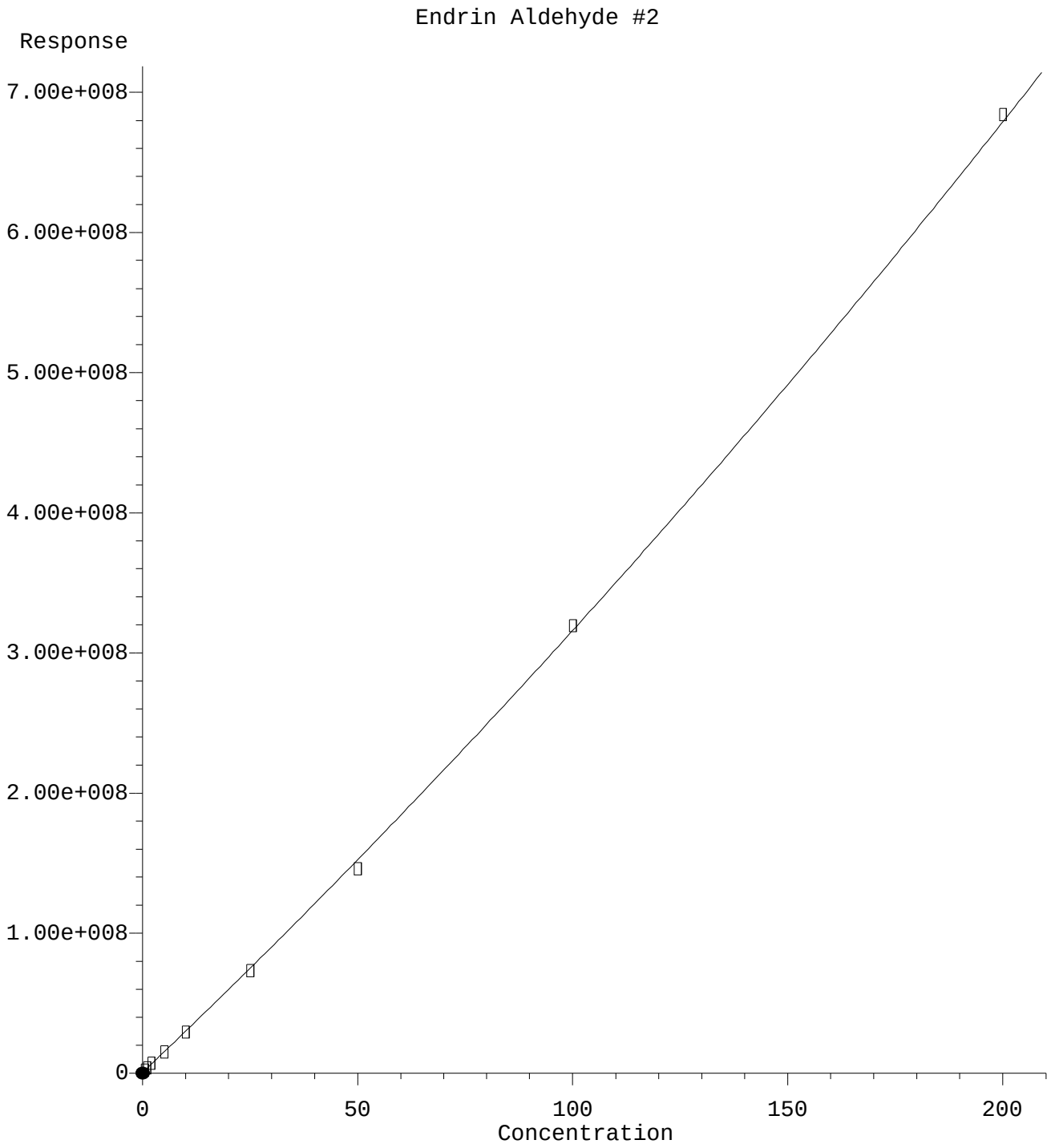
(18) Endrin Aldehyde
8.716min -0.203 ng/mL m
response 277846

MJB 10/21/20

(18) Endrin Aldehyde #2
9.073min 0.481 ng/mL
response 2196243

(+) = Expected Retention Time

ECD8_QUANTPEST_201015.M Wed Oct 21 11:20:11 2020 Page: 1

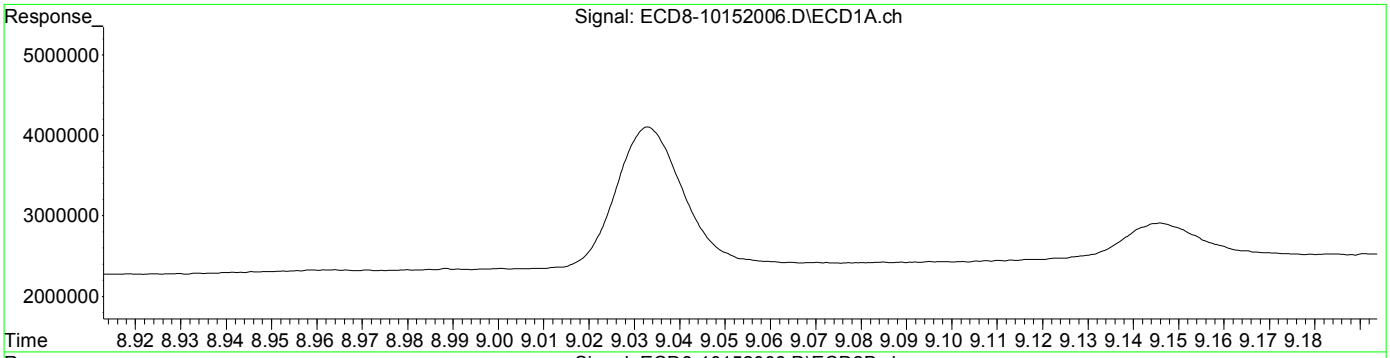


R = 2.40e+003 A*A + 2.91e+006 A + 7.95e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

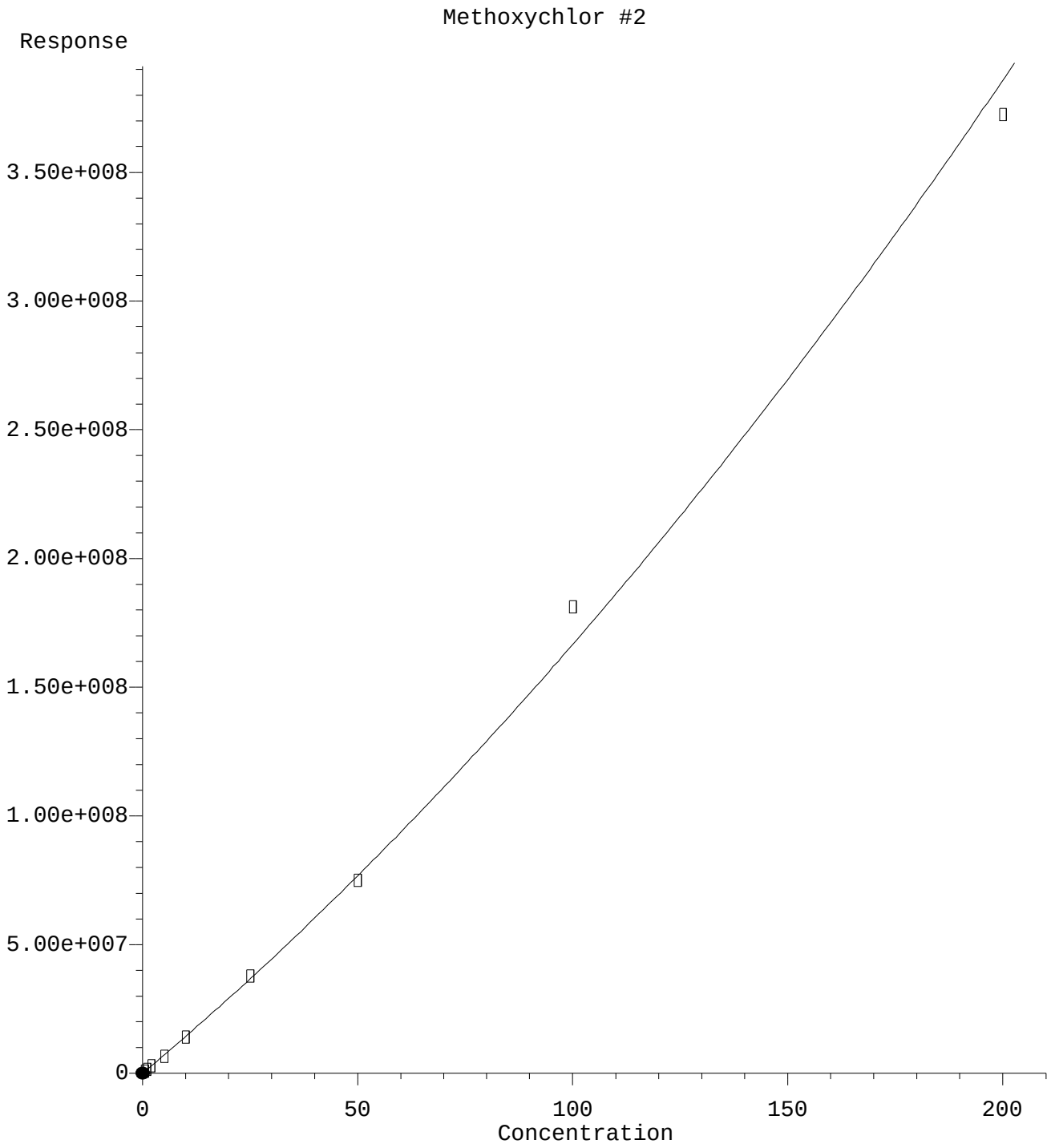


(18) Endrin Aldehyde
8.716min -0.203 ng/mL m
response 277846

MJB 10/21/20

(18) Endrin Aldehyde #2
9.059min -0.190 ng/mL m
response 241125

(+) = Expected Retention Time

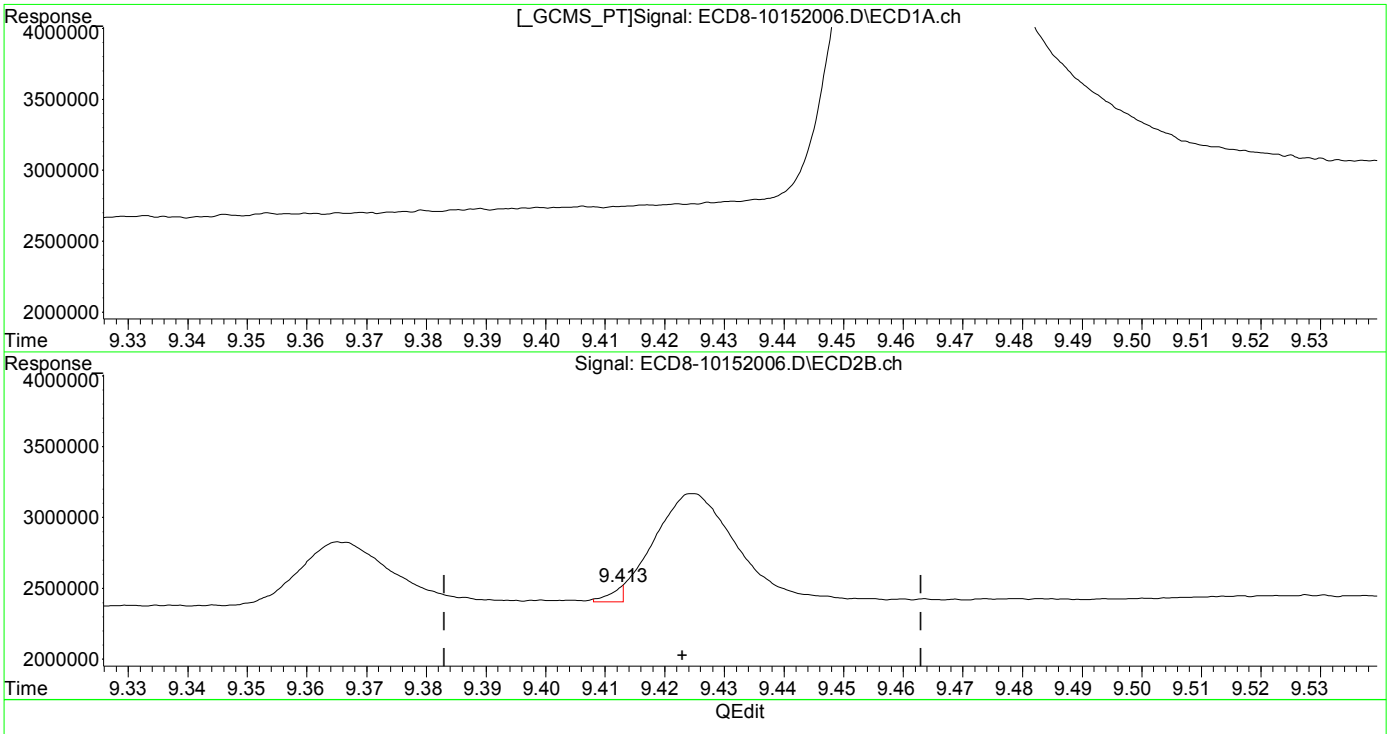


R = 2.64e+003 A*A + 1.40e+006 A + 7.17e+004
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

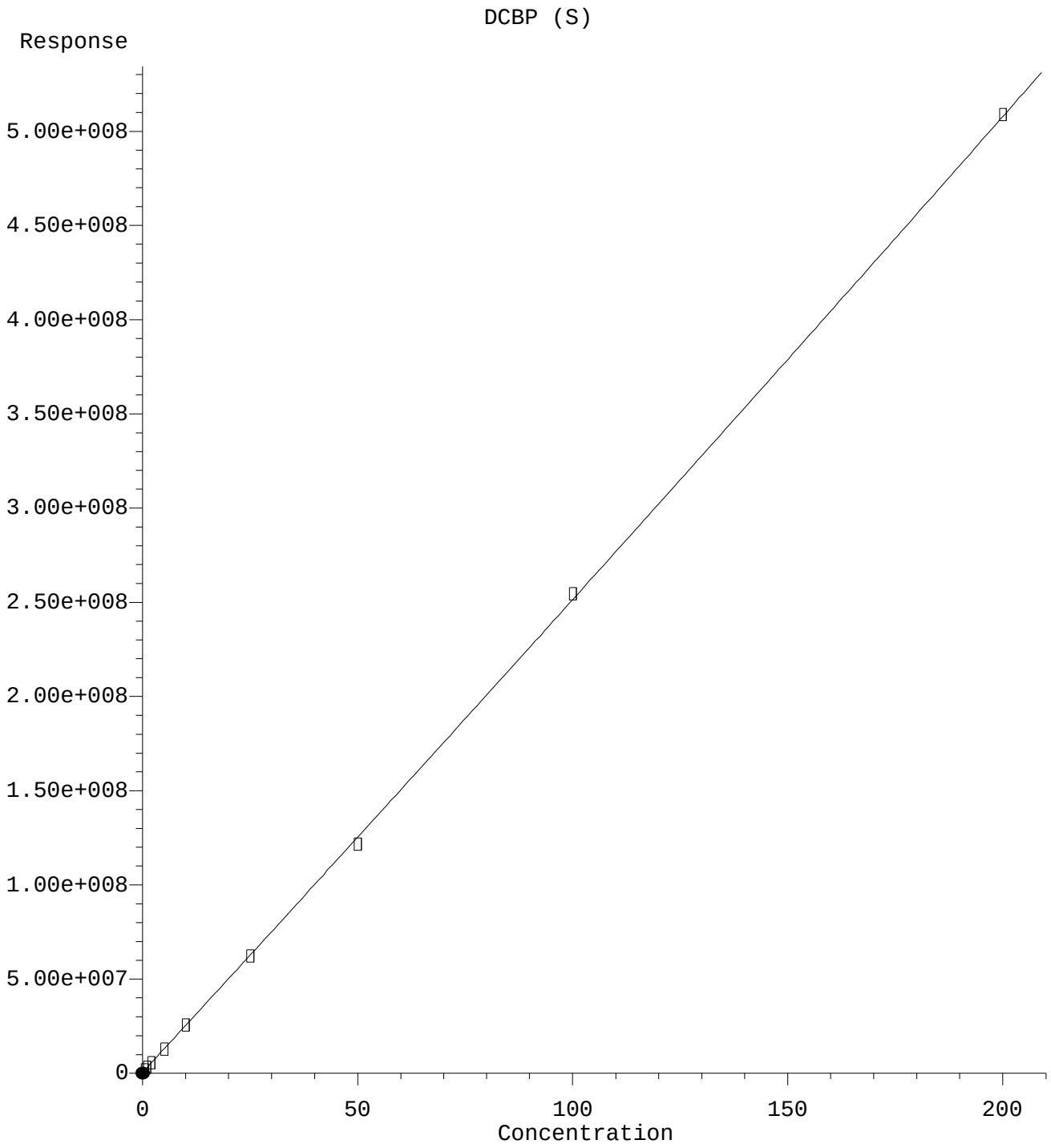


(20) Methoxychlor
8.835min 0.518 ng/mL
response 712510

MJB 10/21/20

(20) Methoxychlor #2
9.413min 0.025 ng/mL m
response 107142

(+) = Expected Retention Time

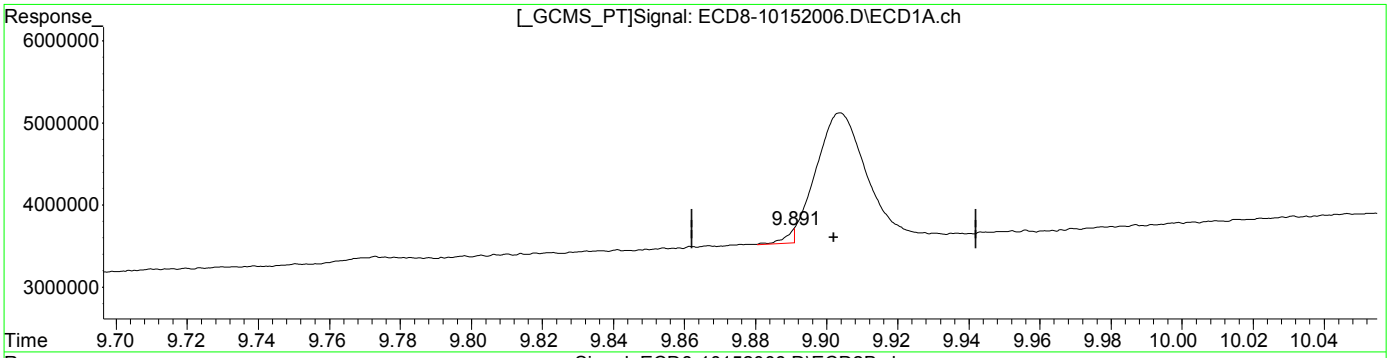


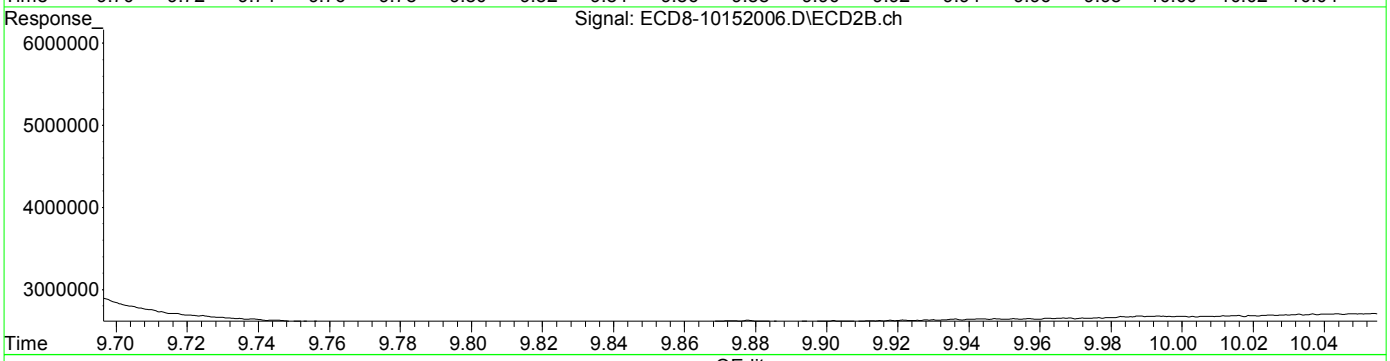
R = 2.90e+002 A*A + 2.48e+006 A + 6.49e+005
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





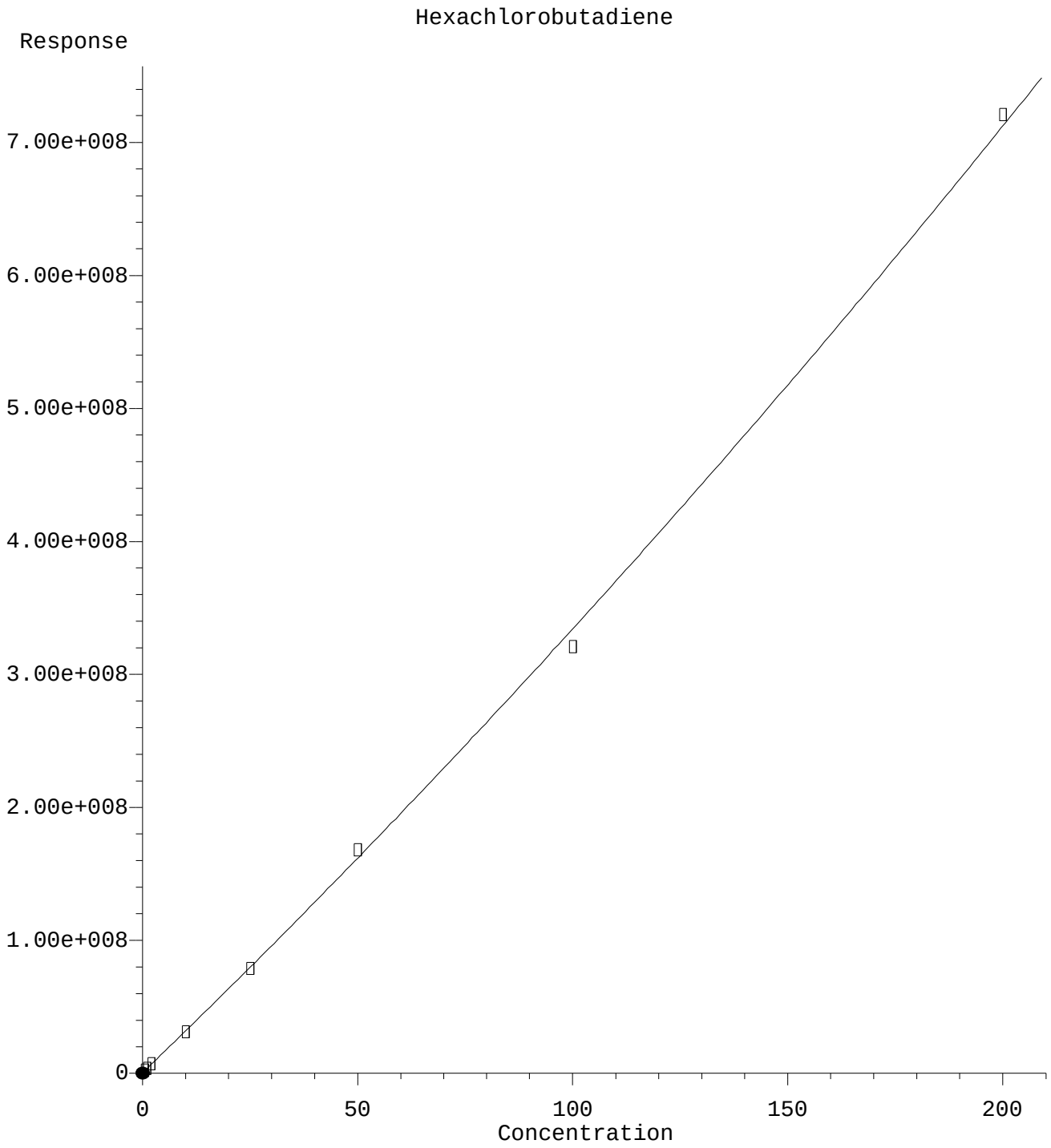
QEdit

(22) DCBP (S) (S)
9.891min -0.195 ng/mL m
response 165253

MJB 10/21/20

(22) DCBP (S) #2 (S)
10.506min 0.583 ng/mL
response 1410803

(+) = Expected Retention Time

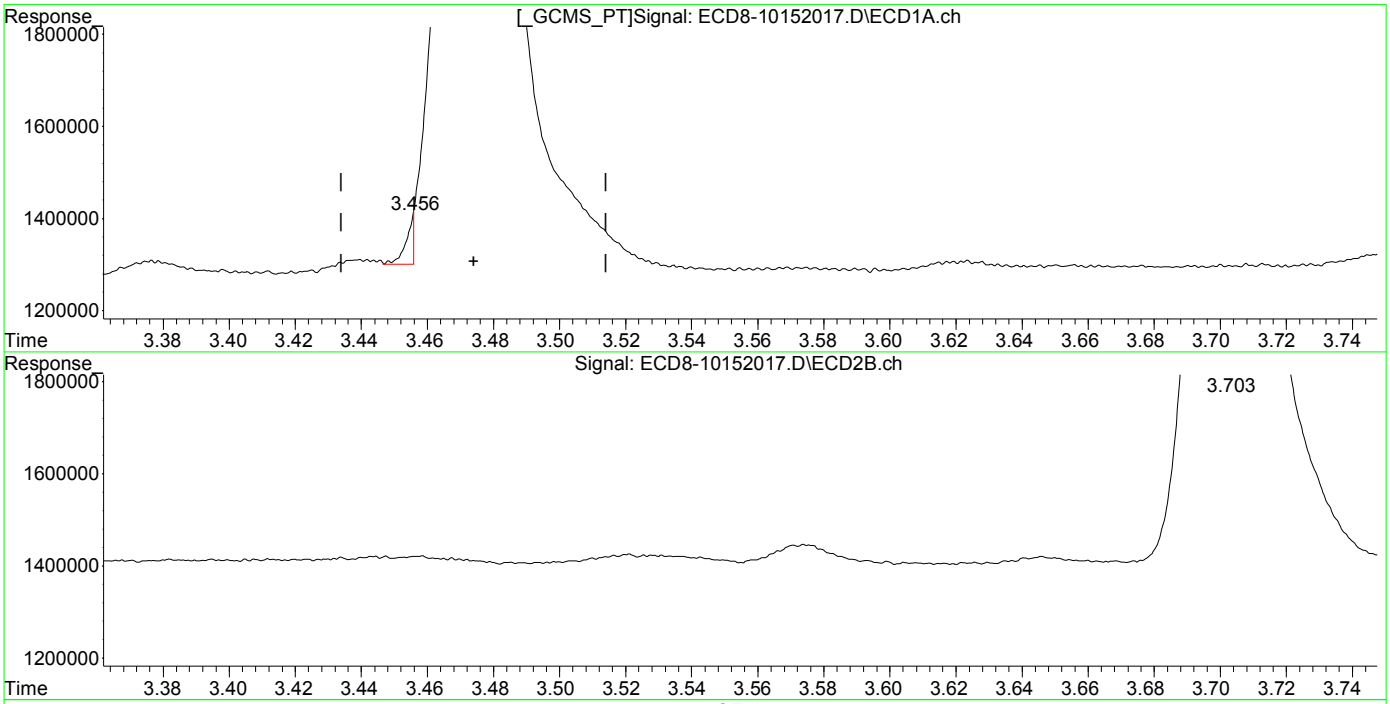


R = 2.25e+003 A*A + 3.11e+006 A + 6.88e+005
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:33
Operator : MJB
Sample : 0J15061-CALA
Misc : A20J276, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:32:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



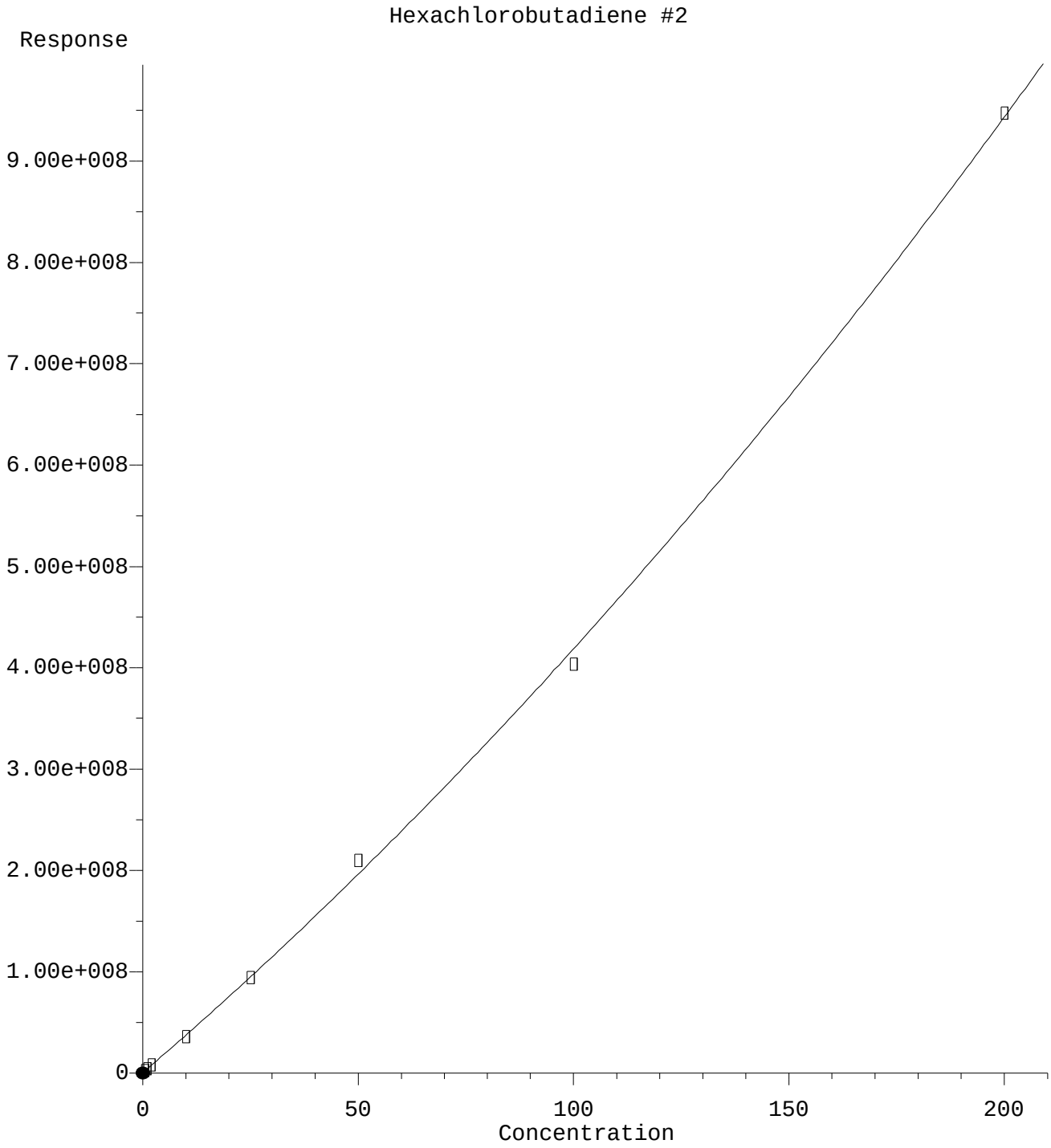
QEdit

(23) Hexachlorobutadiene
3.456min -0.187 ng/mL m
response 108144

MJB 10/21/20

(23) Hexachlorobutadiene #2
3.703min 0.500 ng/mL
response 2507236

(+) = Expected Retention Time

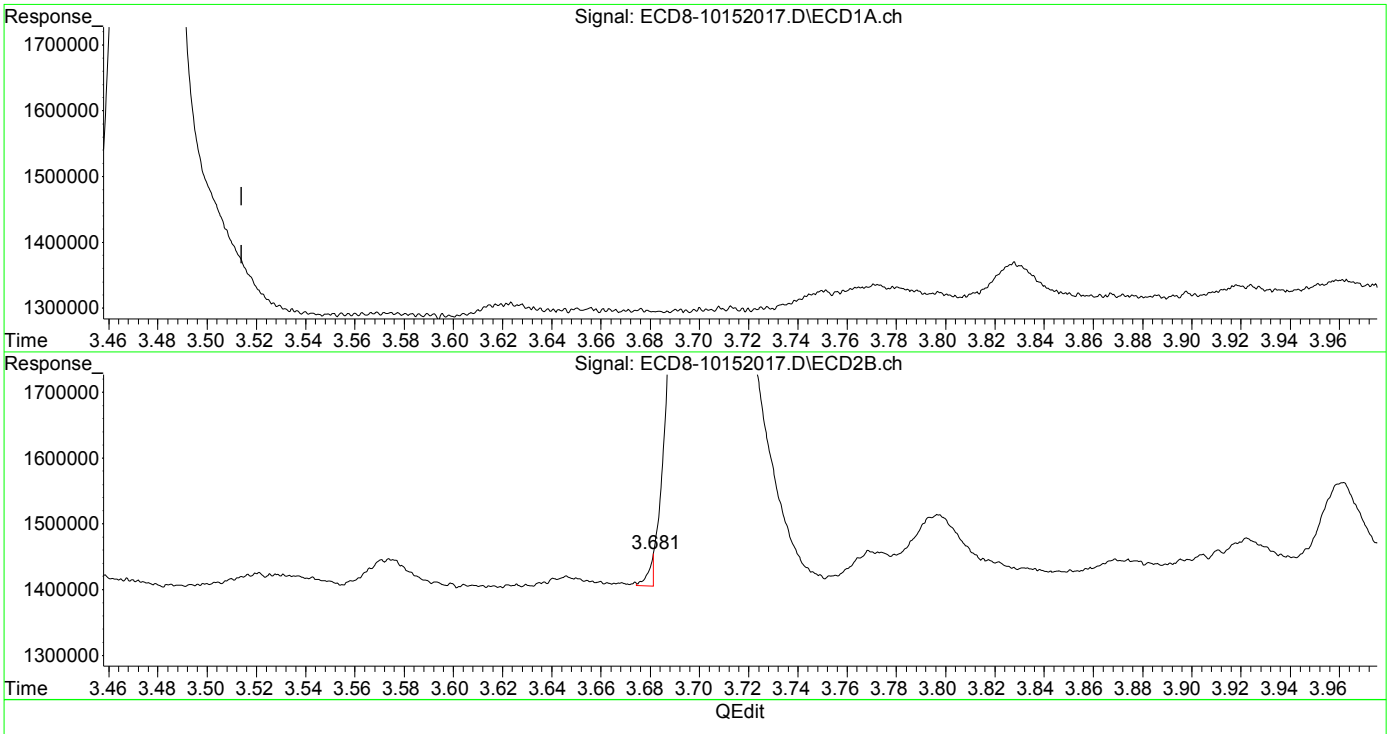


R = 5.35e+003 A*A + 3.64e+006 A + 6.85e+005
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:33
Operator : MJB
Sample : 0J15061-CALA
Misc : A20J276, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:32:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



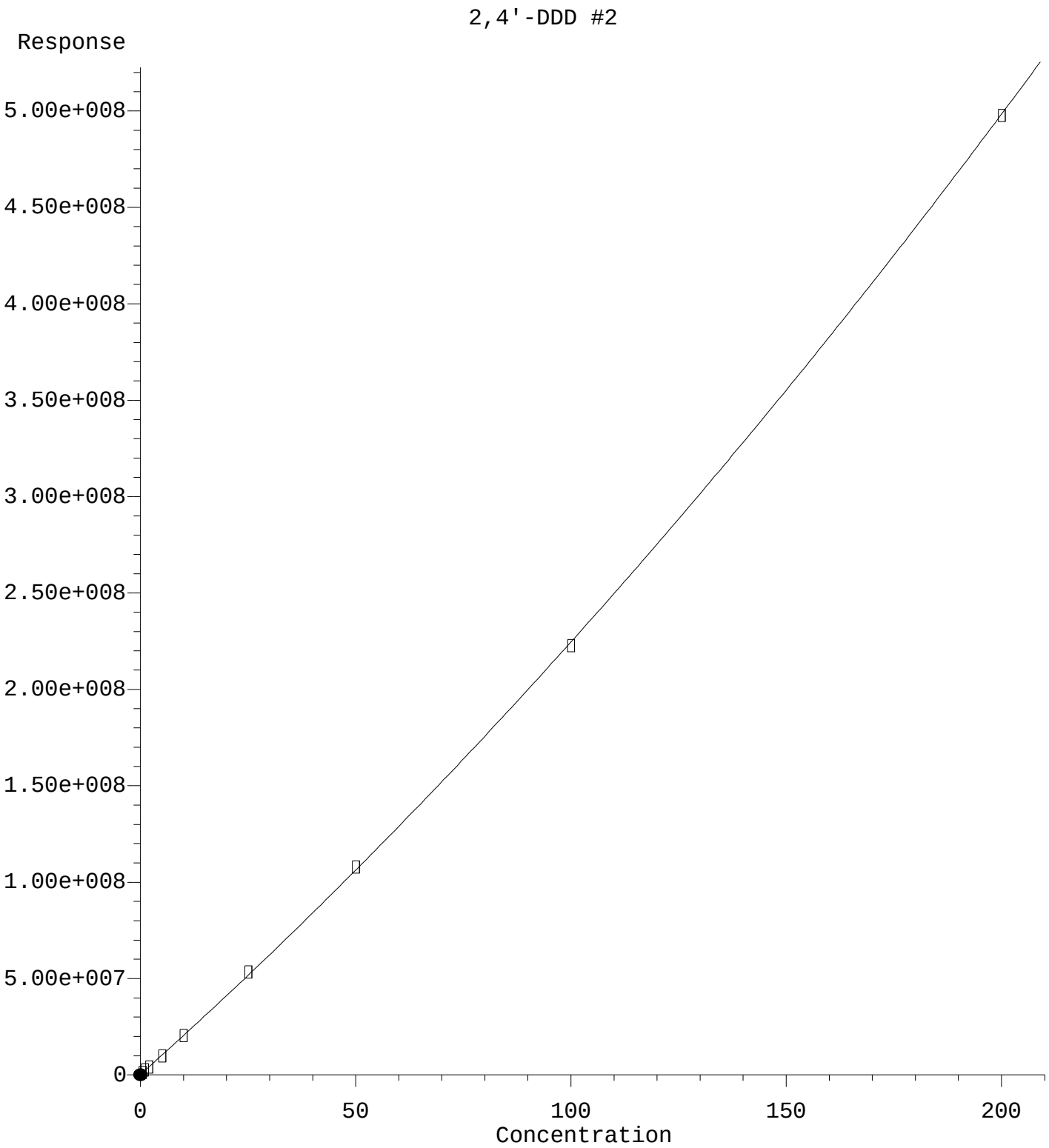
QEdit

(23) Hexachlorobutadiene
3.456min -0.187 ng/mL m
response 108144

MJB 10/21/20

(23) Hexachlorobutadiene #2
3.681min -0.174 ng/mL m
response 49437

(+) = Expected Retention Time
ECD8_QUANTPEST_201015.M Wed Oct 21 11:21:25 2020 Page: 1

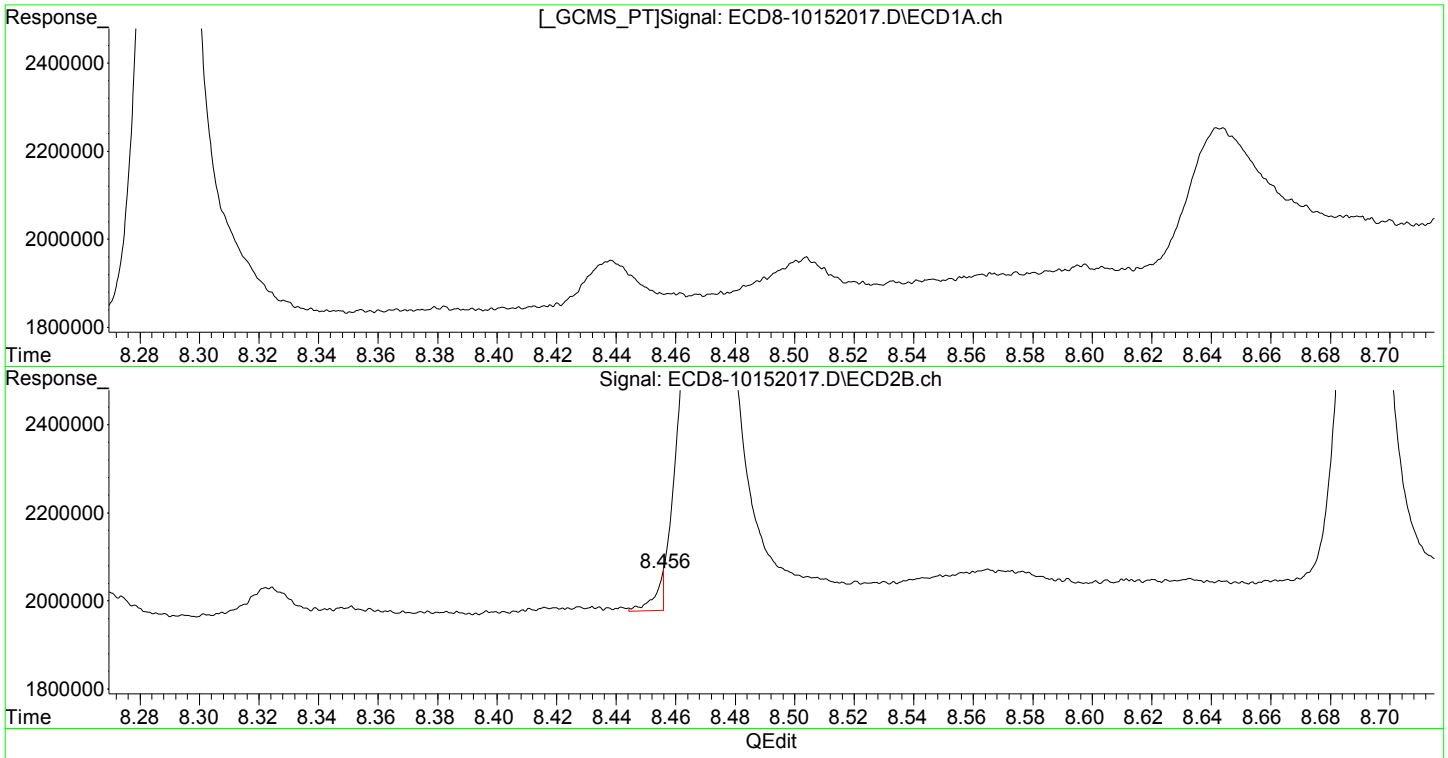


R = 2.49e+003 A*A + 1.99e+006 A + 3.53e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Wed Oct 21 13:18:48 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:33
Operator : MJB
Sample : 0J15061-CALA
Misc : A20J276, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:40:51 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

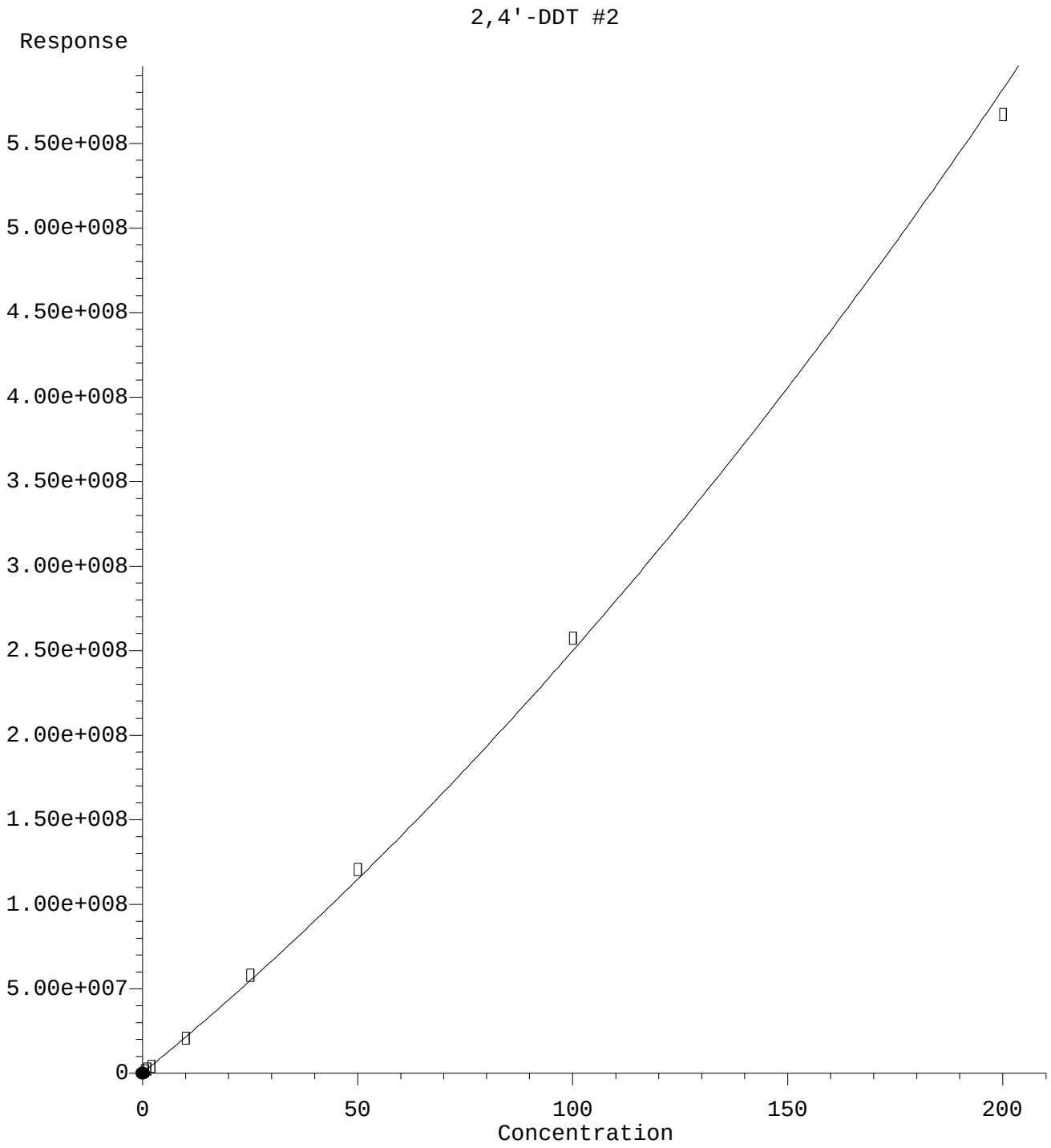


(28) 2,4'-DDD
8.006min 0.586 ng/mL
response 1125210

MJB 10/21/20

(28) 2,4'-DDD #2
8.456min -0.134 ng/mL m
response 86901

(+) = Expected Retention Time
ECD8_QUANTPEST_201015.M Wed Oct 21 14:53:31 2020 Page: 1

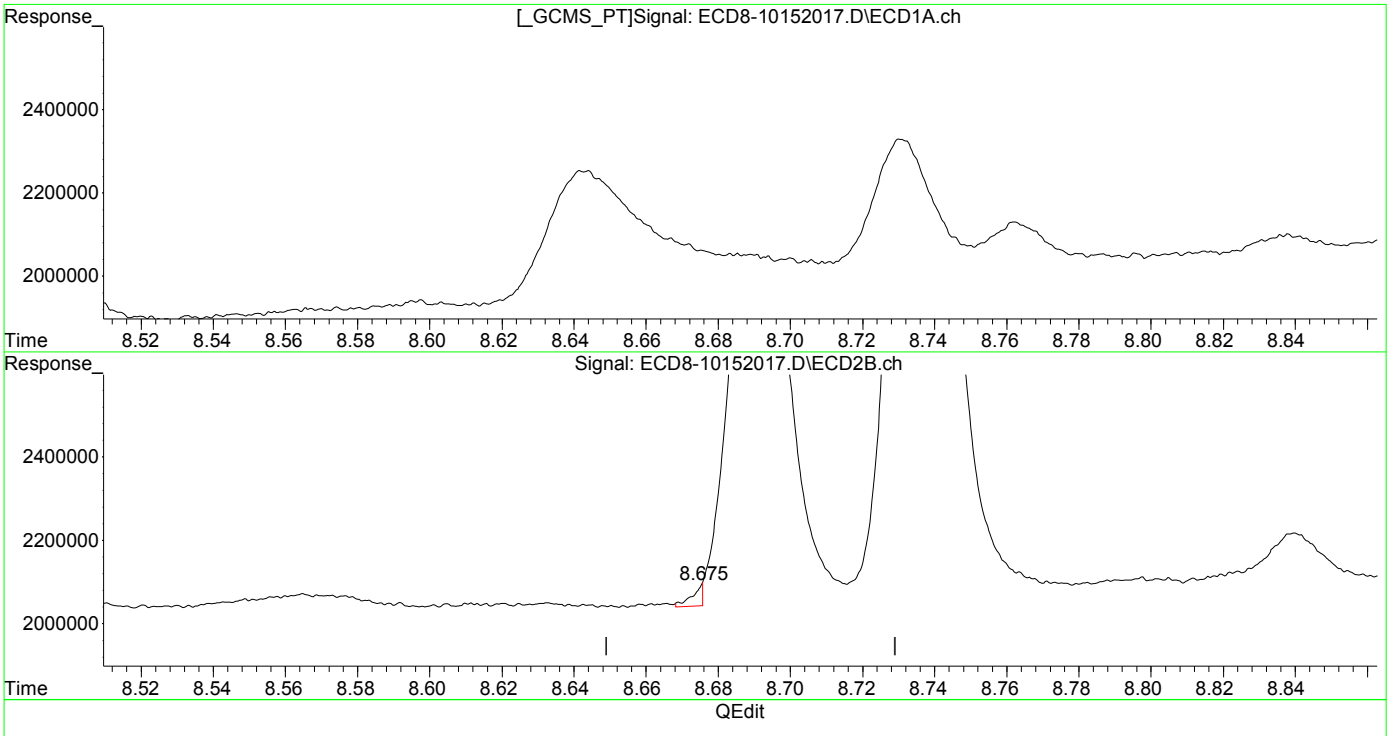


R = 4.13e+003 A*A + 2.08e+006 A + 2.88e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:33
Operator : MJB
Sample : 0J15061-CALA
Misc : A20J276, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:32:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

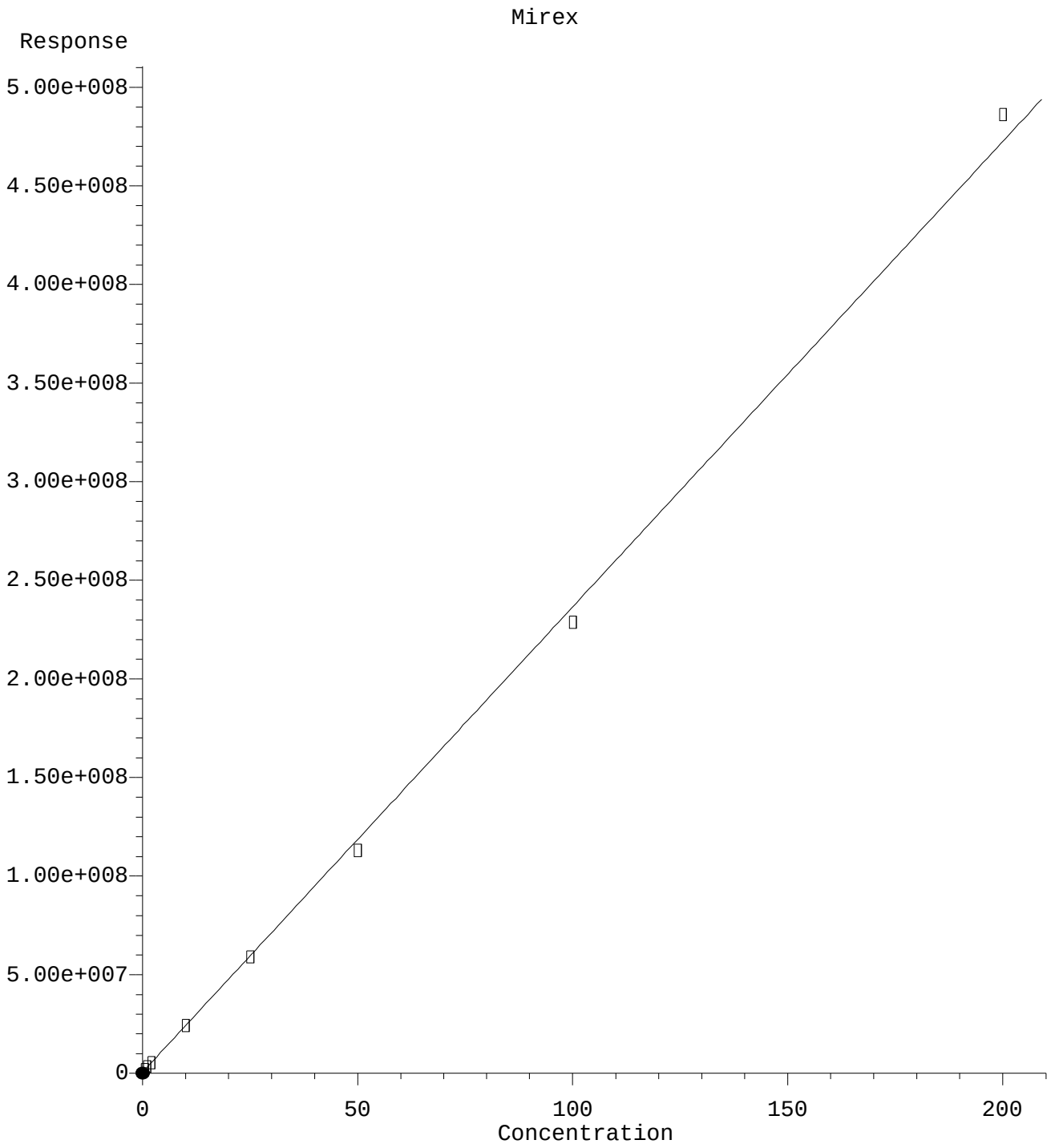


(29) 2,4'-DDT
8.185min 0.562 ng/mL
response 1221609

MJB 10/21/20

(29) 2,4'-DDT #2
8.675min -0.115 ng/mL m
response 49306

(+) = Expected Retention Time
ECD8_QUANTPEST_201015.M Wed Oct 21 11:21:39 2020 Page: 1

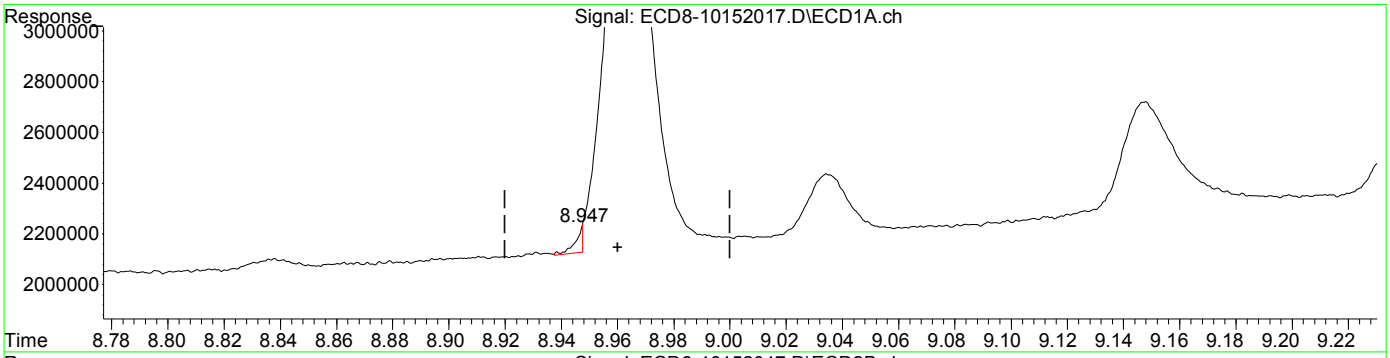


R = 1.61e+001 A*A + 2.36e+006 A + 7.10e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:33
Operator : MJB
Sample : 0J15061-CALA
Misc : A20J276, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:32:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



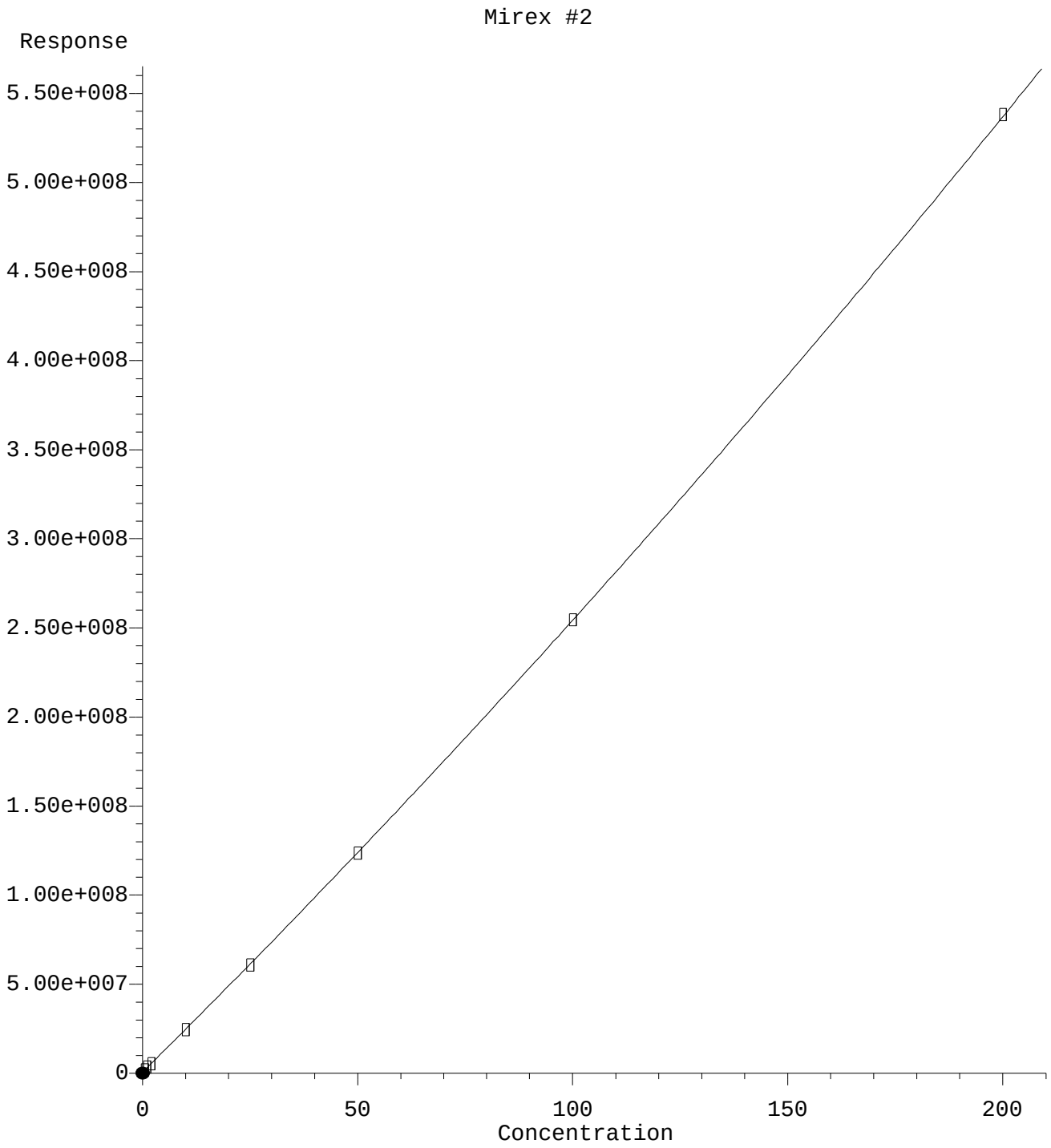
QEdit

(31) Mirex
8.947min -0.258 ng/mL m
response 102577

MJB 10/21/20

(31) Mirex #2
9.647min 0.479 ng/mL
response 1941278

(+) = Expected Retention Time

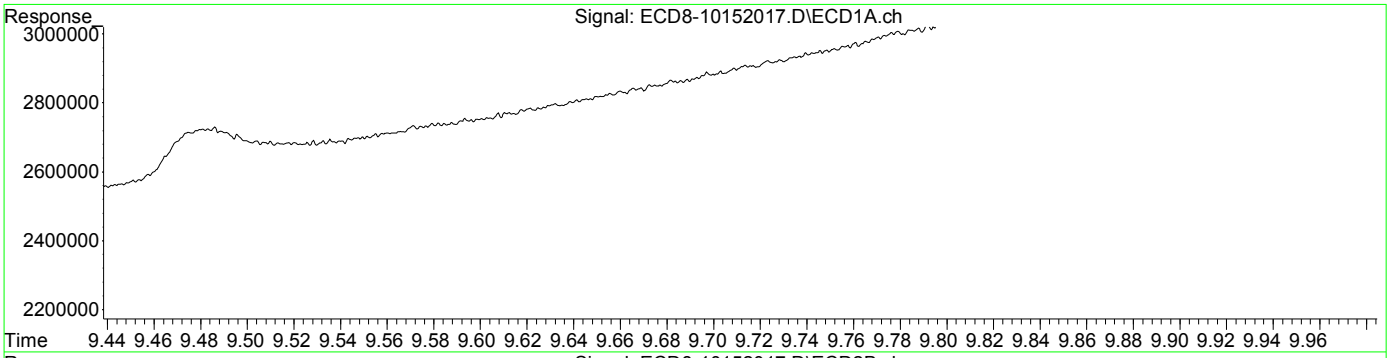


R = 1.46e+003 A*A + 2.39e+006 A + 7.96e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:33
Operator : MJB
Sample : 0J15061-CALA
Misc : A20J276, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:32:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



QEdit

(31) Mirex
8.947min -0.258 ng/mL m
response 102577

MJB 10/21/20

(31) Mirex #2
9.631min -0.289 ng/mL m
response 107309

(+) = Expected Retention Time
ECD8_QUANTPEST_201015.M Wed Oct 21 11:22:02 2020 Page: 1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:15
Operator : MJB
Sample : 0J15061-ICB1
Misc : A2J148
ALS Vial : 3 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 15:09:10 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.683	5.990	325.7E6	406.3E6	92.097	101.562	
22)	S	DCBP (S)	9.903	10.505	237.7E6	227.6E6	94.618	94.095	
		Target Compounds							
2)		a-BHC	6.233	6.585	19692	9789	0.004	0.002	#
3)		g-BHC	6.520	6.899	57479	16241	0.014	0.003	#
4)		b-BHC	6.610	6.969	28088	41528	0.018	0.021	
5)		Heptachlor	6.919	7.275	6718	23095	0.002	0.005	#
6)		d-BHC	6.761	7.220	95222	133913	0.089	0.100	
7)		Aldrin	0.000	7.539	0	24718	N.D.	0.006	#
8)		Heptachlo...	7.629	7.974	33415	52590	0.009	0.013	#
9)		trans-Chl...	7.711	8.088f	211868	9996	0.058	0.003	#
10)		cis-Chlor...	7.821	8.219	24719	41602	0.007	0.011	#
11)		Endosulfa...	7.925	8.273	40863	39560	0.012	0.011	
12)		4,4'-DDE	7.877	8.323	126080	35044	0.040	0.058	#
13)		Dieldrin	8.101	8.469	29561	42373	0.008	0.028	#
14)		Endrin	8.274	8.693	195545	50076	0.071	0.046	#
15)		4,4'-DDD	8.287	8.760f	160952	323811	0.059	0.115	#
16)		Endosulfa...	8.433	8.838	86085	110008	0.029	0.034	
17)		4,4'-DDT	8.485	8.950	62095	43976	0.057	0.080	#
18)		Endrin Al...	8.728	9.072	699614	705319	BelowCal	BelowCal	
19)		Endosulfa...	9.032	9.267	179935	189830	0.060	0.057	
20)		Methoxychlor	8.834	9.422	70846	45007	0.051	BelowCal	#
21)		Endrin Ke...	9.234	9.657	106550	134188	0.029	0.034	
23)		Hexachlor...	3.477	3.717	10074	45591	BelowCal	BelowCal	
24)		Hexachlor...	6.070	6.453	656010	44327	0.196	0.011	#
25)		Oxychlordane	7.538	7.888	18346	62419	0.006	0.018	#
26)		2,4'-DDE	7.629	8.088	33415	9996	0.016	0.004	#
27)		trans-Non...	7.809	8.185	11799	27375	0.003	0.007	#
28)		2,4'-DDD	8.012	8.469	12530	42373	0.007	BelowCal	#
29)		2,4'-DDT	8.184	8.693	6602	50076	0.003	BelowCal	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:15
Operator : MJB
Sample : 0J15061-ICB1
Misc : A2J148
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 15:09:10 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

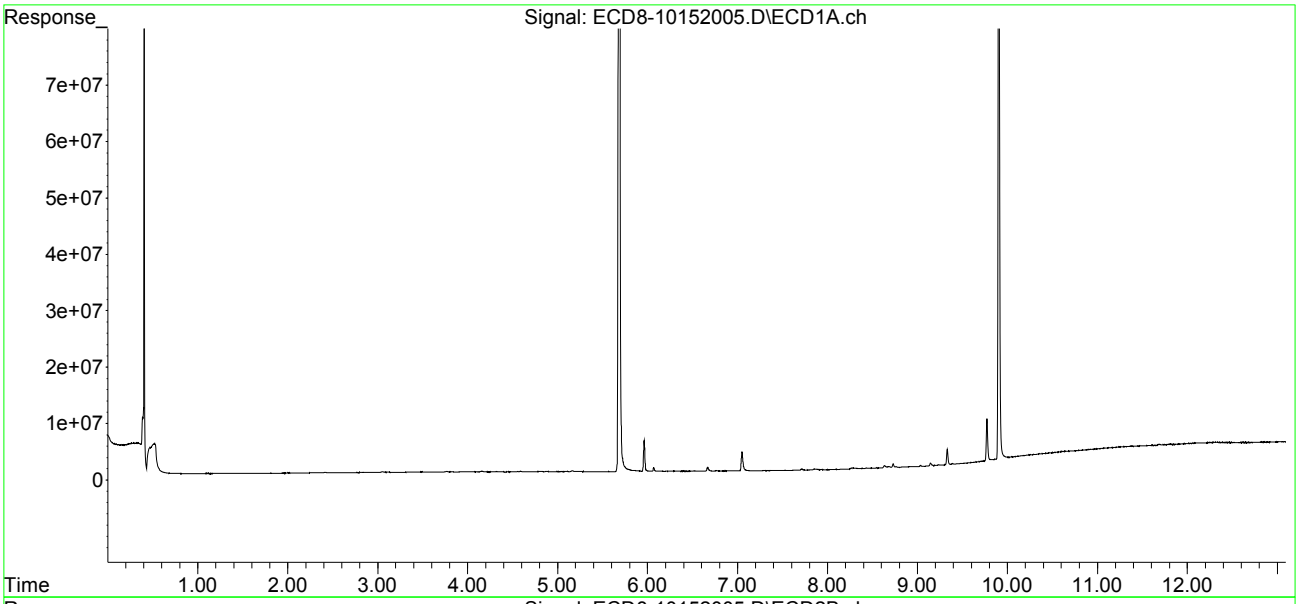
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.287	8.760f	160952	323811	0.041	0.076	#
31)	Mirex	8.956	9.634	50254	29278	BelowCal	BelowCal	
32)	Chlordane...	7.711	8.088f	211868	9996	0.514	0.021	#
33)	Chlordane...	7.821	8.219	24719	41602	0.059	0.100	#
34)	Chlordane...	8.380	8.879	66895	582363	0.519	4.306	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.809	8.443	11799	9672	0.793	0.254	#
37)	Toxaphene...	8.101	8.760f	29561	323811	0.897	6.868	#
38)	Toxaphene...	8.433	8.838	86085	110008	1.242	1.564	#
39)	Toxaphene...	8.677f	8.879	288643	582363	3.879	4.888	#
40)	Toxaphene...	8.886	9.072	18497	705319	0.312	10.238	#
41)	Toxaphene...	8.956	9.457	50254	28207	0.746	0.377	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

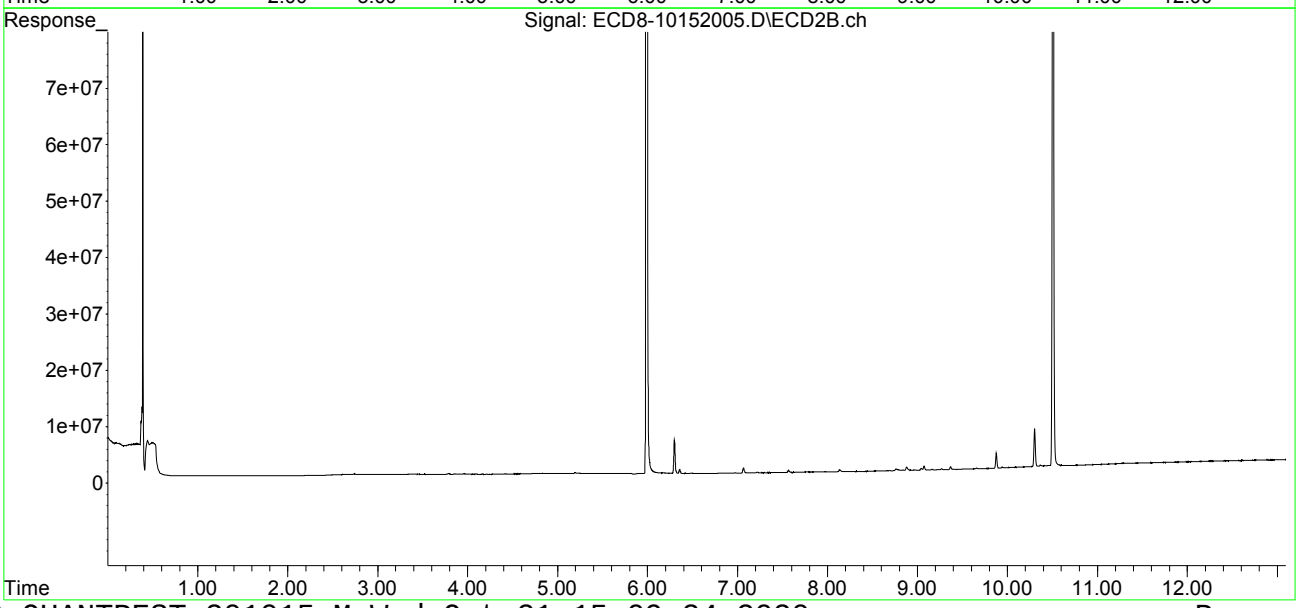
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:15
Operator : MJB
Sample : 0J15061-ICB1
Misc : A2J148
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 15:09:10 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:00
Operator : MJB
Sample : 0J15061-IBL1
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

CLEAN

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:30:22 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.683	5.995	36277	194150	0.010	0.049	#
22) S	DCBP (S)	9.904	10.503	240361	236171	BelowCal	0.098	
	Target Compounds							
2)	a-BHC	6.234	6.587	16722	54928	0.004	0.010	#
3)	g-BHC	6.480f	6.900	213856	21233	0.053	0.005	#
4)	b-BHC	6.609	6.967	52215	58701	0.033	0.030	
5)	Heptachlor	6.917	7.273	49720	24838	0.012	0.005	#
6)	d-BHC	6.758	7.216	164520	167003	0.112	0.108	
7)	Aldrin	7.160	7.536	34097	30135	0.009	0.007	
8)	Heptachlo...	7.625	7.972	222254	49389	0.061	0.012	#
9)	trans-Chl...	7.724	8.093	41501	17569	0.011	0.004	#
10)	cis-Chlor...	7.817	8.217	83940	43883	0.023	0.011	#
11)	Endosulfa...	7.926	8.269	44887	331318	0.013	0.092	#
12)	4,4'-DDE	7.876	8.323	102257	42118	0.032	0.060	#
13)	Dieldrin	8.104	8.468	229166	38739	0.061	0.027	#
14)	Endrin	8.233f	8.691	7524	294680	0.003	0.140	#
15)	4,4'-DDD	8.308	8.762f	87724	30492	0.032	0.012	#
16)	Endosulfa...	8.432	8.837	87069	61707	0.030	0.019	#
17)	4,4'-DDT	8.505	8.971	20187	56149	0.040	0.084	#
18)	Endrin Al...	8.728	9.075	407646	516207	BelowCal	BelowCal	
19)	Endosulfa...	9.032	9.266	192574	211476	0.064	0.064	
20)	Methoxychlor	8.838	0.000	31712	0	0.023	N.D.	#
21)	Endrin Ke...	9.235	9.658	113904	135542	0.031	0.035	
23)	Hexachlor...	3.475	3.716	62688	113177	BelowCal	BelowCal	
24)	Hexachlor...	6.069	6.465	88788	137457	0.026	0.034	#
25)	Oxychlordane	0.000	7.886	0	19876	N.D.	0.006	#
26)	2,4'-DDE	7.625	8.093	222254	17569	0.103	0.007	#
27)	trans-Non...	7.817	0.000	83940	0	0.023	N.D.	#
28)	2,4'-DDD	7.962f	8.468	25541	38739	0.013	0.017	#
29)	2,4'-DDT	8.172	8.691	6642	294680	0.003	0.003	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:00
Operator : MJB
Sample : 0J15061-IBL1
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:30:22 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

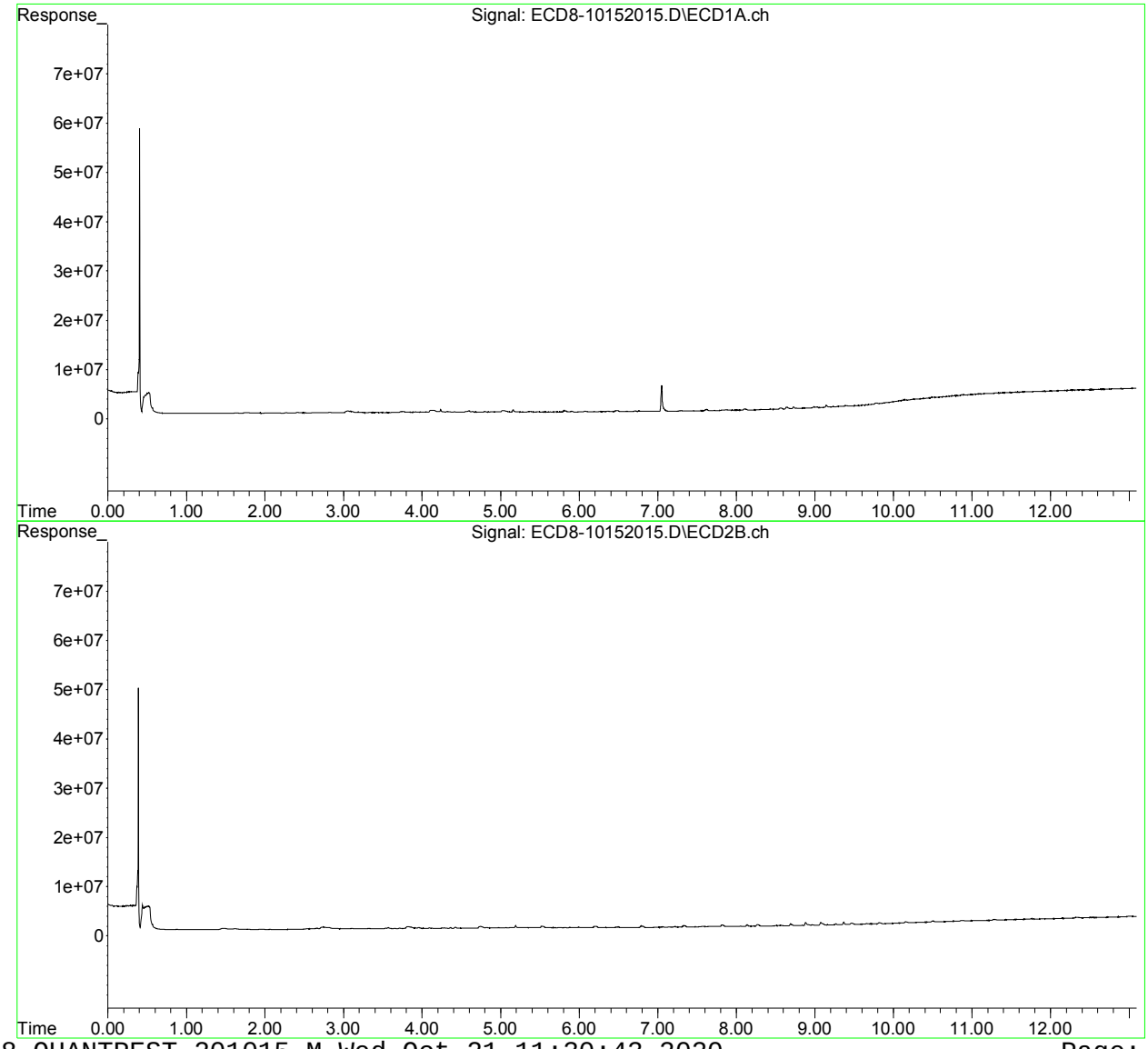
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.308f	8.762f	87724	30492	0.022	0.007	#
31)	Mirex	8.993f	9.658	205490	135542	BelowCal	BelowCal	
32)	Chlordane...	7.724	8.093	41501	17569	0.101	0.036	#
33)	Chlordane...	7.817	8.217	83940	43883	0.200	0.106	#
34)	Chlordane...	8.386	8.882	37996	555233	0.295	4.105	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.797	8.468f	16459	38739	1.106	1.019	
37)	Toxaphene...	8.104	8.773	229166	25887	6.957	0.549	#
38)	Toxaphene...	8.407	8.837	30825	61707	0.445	0.877	#
39)	Toxaphene...	8.638	8.882	411519	555233	5.530	4.661	
40)	Toxaphene...	8.889	9.075	12999	516207	0.219	7.493	#
41)	Toxaphene...	8.993f	9.467f	205490	256204	3.052	3.421	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:00
Operator : MJB
Sample : 0J15061-IBL1
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:30:22 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:17
Operator : MJB
Sample : 0J15061-ICV1
Misc : A20I130, AB 50 ppb
ALS Vial : 13 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:30:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.683	5.990	165.0E6	195.7E6	46.644	48.917	
22) S	DCBP (S)	9.905	10.507	119.4E6	112.5E6	47.655	46.518	
	Target Compounds							
2)	a-BHC	6.234	6.586	234.0E6	283.7E6	49.659	53.034	
3)	g-BHC	6.520	6.901	203.6E6	243.1E6	50.578	52.280	
4)	b-BHC	6.601	6.967	77057289	97231616	49.368	49.694	
5)	Heptachlor	6.919	7.274	195.8E6	226.8E6	48.235	49.563	
6)	d-BHC	6.755	7.215	172.4E6	229.2E6	51.426	51.762	
7)	Aldrin	7.162	7.537	202.3E6	227.3E6	51.500	53.234	
8)	Heptachlo...	7.632	7.972	177.1E6	197.9E6	48.439	49.288	
9)	trans-Chl...	7.724	8.112	181.7E6	203.2E6	49.328	51.056	
10)	cis-Chlor...	7.821	8.218	178.2E6	193.4E6	49.187	49.859	
11)	Endosulfa...	7.926	8.268	163.0E6	183.8E6	47.915	51.120	
12)	4,4'-DDE	7.873	8.320	161.8E6	190.9E6	51.351	50.859	
13)	Dieldrin	8.099	8.467	187.9E6	208.7E6	50.011	50.815	
14)	Endrin	8.269	8.690	139.8E6	149.6E6	50.976	51.865	
15)	4,4'-DDD	8.304	8.734	137.1E6	163.9E6	50.397	51.804	
16)	Endosulfa...	8.431	8.836	143.5E6	167.2E6	48.720	51.352	
17)	4,4'-DDT	8.499	8.958	141.5E6	160.1E6	51.628	51.912	
18)	Endrin Al...	8.726	9.071	144.1E6	161.9E6	50.465	53.016	
19)	Endosulfa...	9.032	9.266	143.9E6	162.9E6	48.151	49.018	
20)	Methoxychlor	8.831	9.424	67631491	79616947	49.130	51.734	
21)	Endrin Ke...	9.234	9.657	175.5E6	197.5E6	47.472	50.561	
23)	Hexachlor...	3.480	3.714	12382	21696	BelowCal	BelowCal	
24)	Hexachlor...	6.070	6.453	377547	20539	0.112	0.005	#
25)	Oxychlordane	7.565	7.887	313207	217721	0.096	0.061	#
26)	2,4'-DDE	7.632	8.112	177.1E6	203.2E6	82.240	82.621	
27)	trans-Non...	7.821	8.175	178.2E6	623023	48.877	0.156	#
28)	2,4'-DDD	0.000	8.467	0	208.7E6	N.D.	91.264	#
29)	2,4'-DDT	8.180	8.690	785637	149.6E6	0.361	63.666	#

ECD8_QUANTPEST_201015.M Wed Oct 21 11:30:51 2020 Page: 1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:17
Operator : MJB
Sample : 0J15061-ICV1
Misc : A20I130, AB 50 ppb
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:30:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

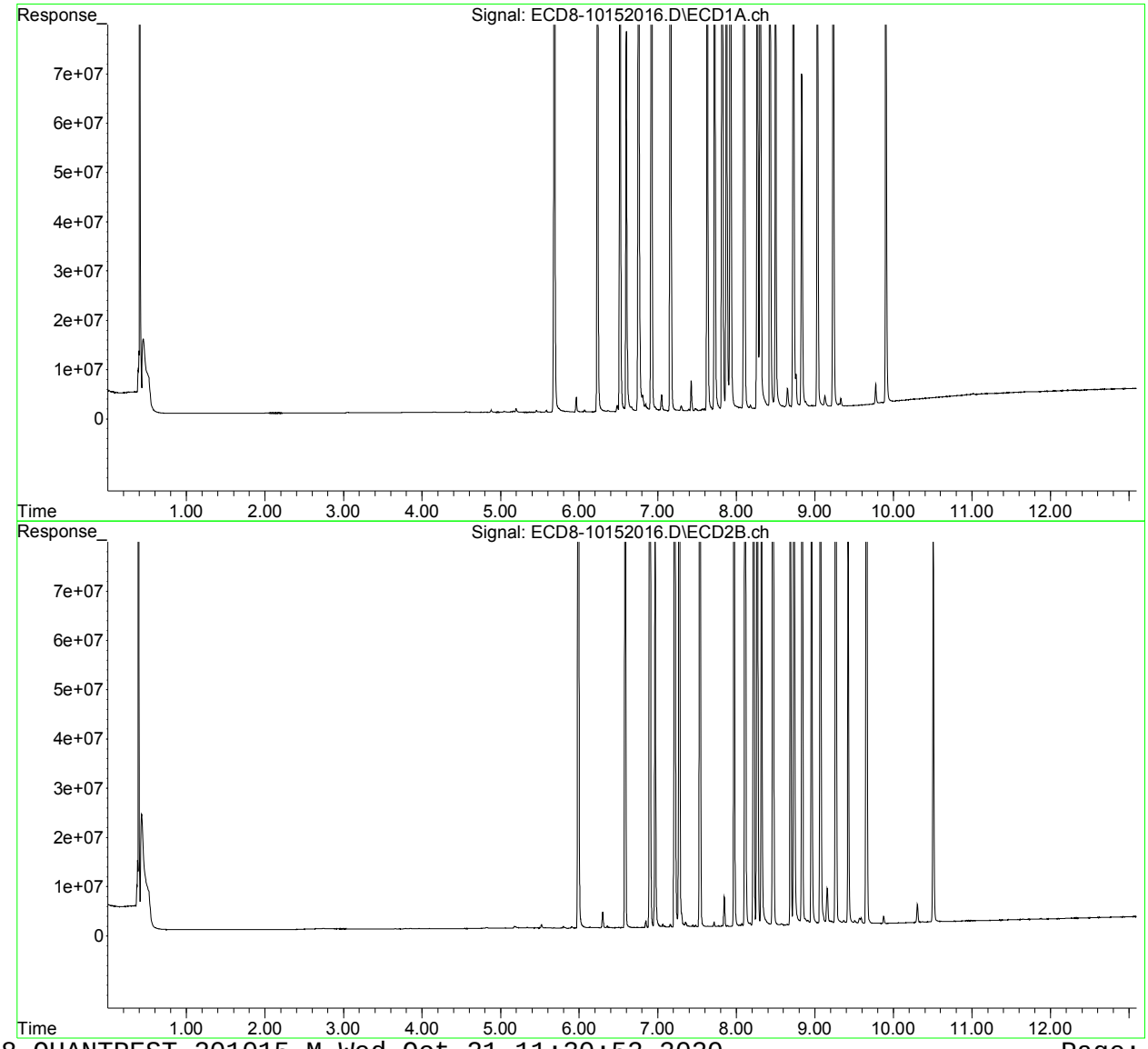
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.269	8.734	139.8E6	163.9E6	35.038	37.764	
31)	Mirex	8.963	9.657	299955	197.5E6	BelowCal	78.563	
32)	Chlordane...	7.724	8.112	181.7E6	203.2E6	440.967	417.153	
33)	Chlordane...	7.821	8.218	178.2E6	193.4E6	425.055	467.235	
34)	Chlordane...	0.000	8.877	0	1311471	N.D.	9.697	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.821	8.467f	178.2E6	208.7E6	11976.113	5492.509	#
37)	Toxaphene...	8.099	0.000	187.9E6	0	5704.044	N.D.	#
38)	Toxaphene...	8.431	8.836	143.5E6	167.2E6	2070.032	2377.317	
39)	Toxaphene...	8.650	8.877	3902275	1311471	52.435	11.009	#
40)	Toxaphene...	8.882	9.071	1118590	161.9E6	18.843	2349.795	#
41)	Toxaphene...	8.963	9.424	299955	79616947	4.455	1063.236	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:17
Operator : MJB
Sample : 0J15061-ICV1
Misc : A20I130, AB 50 ppb
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:30:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:02
Operator : MJB
Sample : 0J15061-IBL2
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

CLEAN

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:31:22 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.997	0	178278	N.D.	0.045	#
22)	S	DCBP (S)	9.904	10.500	209896	232169	BelowCal	0.096	
		Target Compounds							
2)		a-BHC	6.257f	6.585	44623	43417	0.009	0.008	
3)		g-BHC	6.481f	6.901	202870	12683	0.050	0.003	#
4)		b-BHC	6.607	6.966	38814	50083	0.025	0.026	
5)		Heptachlor	6.919	7.275	30670	14734	0.008	0.003	#
6)		d-BHC	6.759	7.216	112571	110782	0.095	0.094	
7)		Aldrin	7.133f	7.536	15128	14932	0.004	0.003	
8)		Heptachlo...	7.623	7.972	210052	29685	0.057	0.007	#
9)		trans-Chl...	7.724	8.096	27856	38667	0.008	0.010	#
10)		cis-Chlor...	7.820	8.206	74210	36983	0.020	0.010	#
11)		Endosulfa...	7.963f	8.269	48625	304599	0.014	0.085	#
12)		4,4'-DDE	7.873	8.320	93685	15919	0.030	0.052	#
13)		Dieldrin	8.107	8.470	195060	17885	0.052	0.021	#
14)		Endrin	8.269	8.689	19285	285638	0.007	0.137	#
15)		4,4'-DDD	8.305	8.748	62503	10476	0.023	0.005	#
16)		Endosulfa...	8.433	8.838	55843	30193	0.019	0.009	#
17)		4,4'-DDT	8.496	8.955	353946	45317	0.174	0.080	#
18)		Endrin Al...	8.759f	9.082	122999	282342	BelowCal	BelowCal	
19)		Endosulfa...	9.031	9.264	118930	97435	0.040	0.029	#
20)		Methoxychlor	8.814	9.403f	58248	41930	0.042	BelowCal	#
21)		Endrin Ke...	9.233	9.655	73251	80871	0.020	0.021	
23)		Hexachlor...	3.475	3.715	33292	138814	BelowCal	BelowCal	
24)		Hexachlor...	6.071	6.467	124337	157270	0.037	0.039	
25)		Oxychlordane	7.552	7.898	17835	20699	0.005	0.006	
26)		2,4'-DDE	7.623	8.096	210052	38667	0.098	0.016	#
27)		trans-Non...	7.816	8.174	74827	66265	0.021	0.017	
28)		2,4'-DDD	8.000	8.470	33553	17885	0.017	0.008	#
29)		2,4'-DDT	8.179	8.689	10473	285638	0.005	BelowCal	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:02
Operator : MJB
Sample : 0J15061-IBL2
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:31:22 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

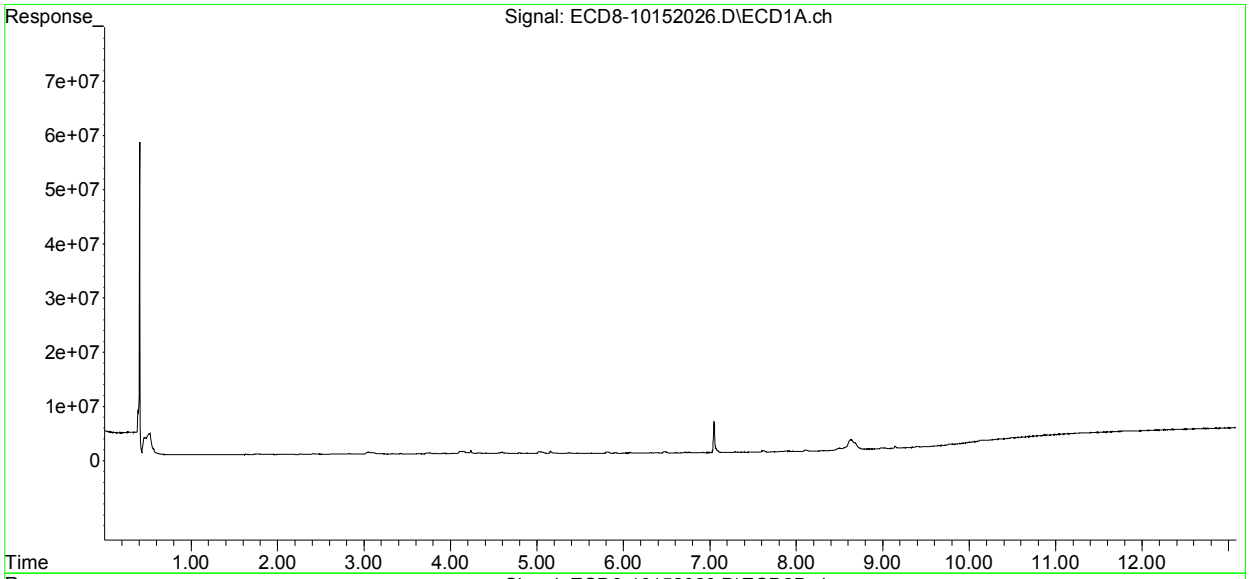
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.286	8.748	44626	10476	0.011	0.002	#
31)	Mirex	8.981f	9.655	179220	80871	BelowCal	BelowCal	
32)	Chlordane...	7.724	8.096	27856	38667	0.068	0.079	
33)	Chlordane...	7.816	8.206	74827	36983	0.179	0.089	#
34)	Chlordane...	8.389	8.882	16672	475371	0.129	3.515	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.795	8.421f	27476	9692	1.847	0.255	#
37)	Toxaphene...	8.107	8.800	195060	9317	5.922	0.198	#
38)	Toxaphene...	8.410	8.838	6772	30193	0.098	0.429	#
39)	Toxaphene...	8.636f	8.882	1916537	475371	25.753	3.990	#
40)	Toxaphene...	8.929f	9.082	9121	282342	0.154	4.098	#
41)	Toxaphene...	8.981	9.464f	179220	340512	2.662	4.547	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

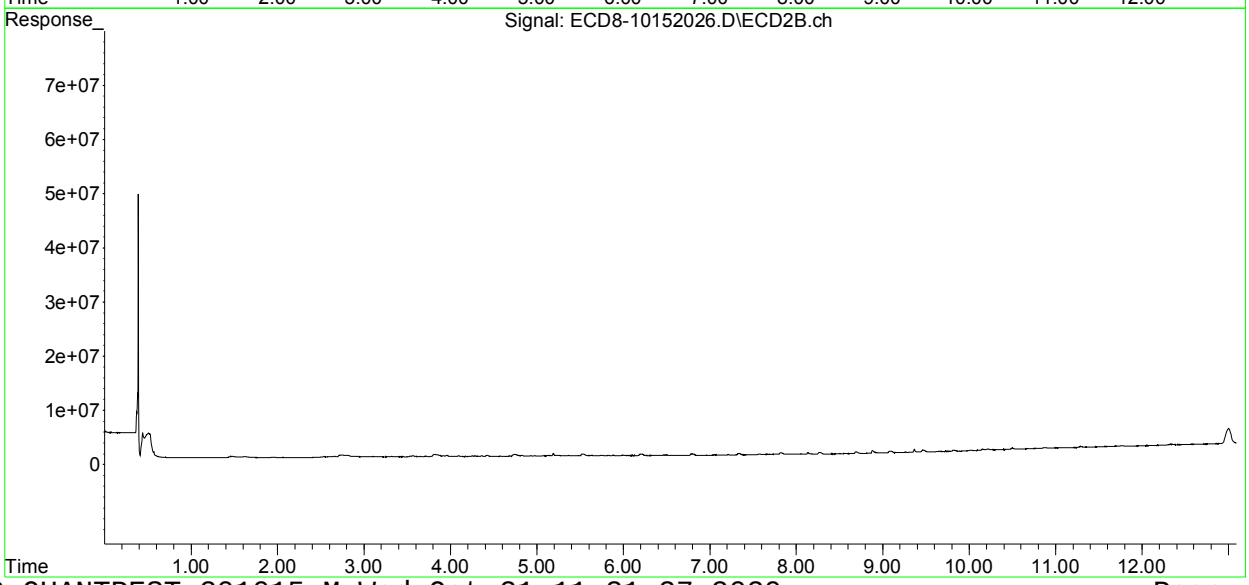
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:02
Operator : MJB
Sample : 0J15061-IBL2
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:31:22 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:19
Operator : MJB
Sample : 0J15061-ICV2
Misc : A20I187, 9-42 50 ppb
ALS Vial : 23 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 15:10:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.653f	5.980	413558	55250	0.117	0.014	#
22)	S	DCBP (S)	9.899	10.503	223499	52665	BelowCal	0.022	
		Target Compounds							
2)		a-BHC	6.265f	6.579	171094	258645	0.036	0.048	#
3)		g-BHC	6.520	6.899	68314	47487	0.017	0.010	#
4)		b-BHC	6.610	6.969	38441	66649	0.025	0.034	#
5)		Heptachlor	6.919	7.273	122111	137551	0.030	0.030	
6)		d-BHC	6.760	7.216	117197	175448	0.096	0.111	
7)		Aldrin	7.163	7.534	36349	49856	0.009	0.012	#
8)		Heptachlo...	7.621	8.007f	102.8E6	558155	28.110	0.139	#
9)		trans-Chl...	7.723	8.096	2811381	122.8E6	0.763	30.851	#
10)		cis-Chlor...	7.806	8.211	171.0E6	4866579	47.213	1.254	#
11)		Endosulfa...	7.918	8.281	3765869	505892	1.107	0.141	#
12)		4,4'-DDE	0.000	8.326	0	3049788	N.D.	0.947	#
13)		Dieldrin	8.089	8.467	774604	107.2E6	0.206	26.988	#
14)		Endrin	8.286	8.688	184.2E6	125.3E6	67.169	44.136	#
15)		4,4'-DDD	8.286	8.734	184.2E6	208.9E6	67.729	64.488	
16)		Endosulfa...	8.433	8.837	163744	223268	0.056	0.069	
17)		4,4'-DDT	8.500	8.957	119665	140090	0.080	0.115	#
18)		Endrin Al...	8.724	9.072	191173	143821	BelowCal	BelowCal	
19)		Endosulfa...	9.065f	9.265	511417	101002	0.171	0.030	#
20)		Methoxychlor	8.837	9.422	14192	36164	0.010	BelowCal	#
21)		Endrin Ke...	9.235	9.643	89134	119.9E6	0.024	30.699	#
23)		Hexachlor...	3.474	3.702	153.0E6	189.3E6	47.268	48.373	
24)		Hexachlor...	6.069	6.453	154.9E6	189.5E6	46.302	47.601	
25)		Oxychlordane	7.553	7.901	152.8E6	171.7E6	47.311	48.769	
26)		2,4'-DDE	7.621	8.096	102.8E6	122.8E6	48.319	50.602	
27)		trans-Non...	7.806	8.175	171.0E6	190.8E6	47.331	48.395	
28)		2,4'-DDD	8.000	8.467	88392674	107.2E6	46.005	50.436	
29)		2,4'-DDT	8.180	8.688	111.4E6	125.3E6	51.934	54.652	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:19
Operator : MJB
Sample : 0J15061-ICV2
Misc : A20I187, 9-42 50 ppb
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 15:10:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

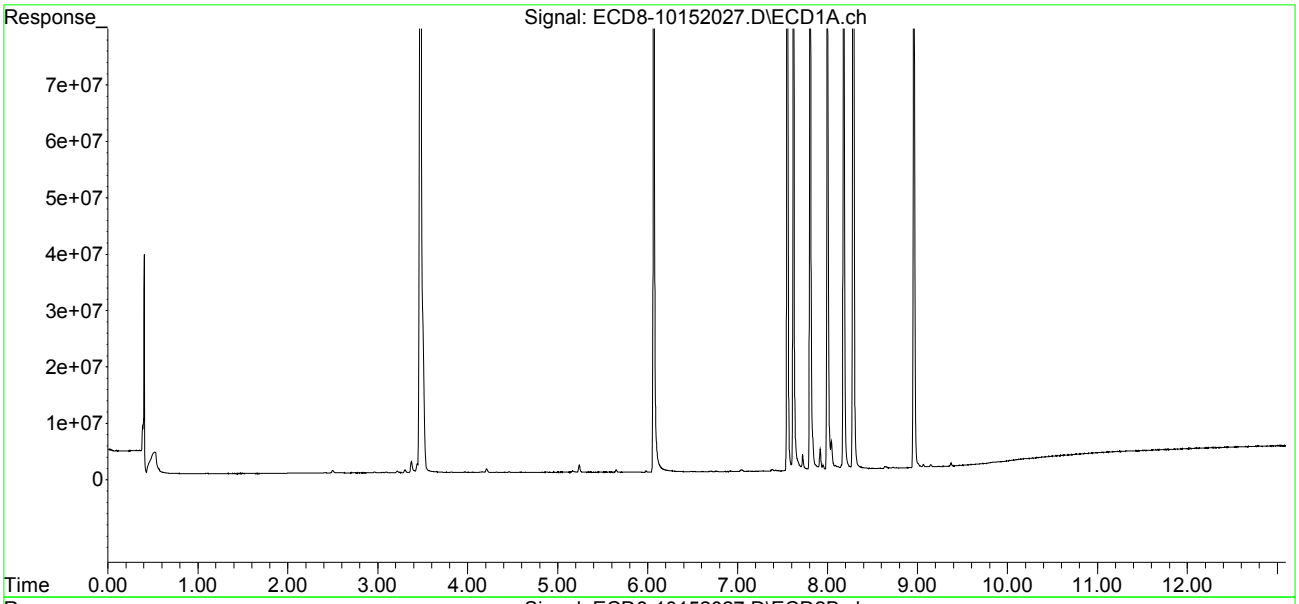
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.286	8.734	184.2E6	208.9E6	46.708	48.832	
31)	Mirex	8.961	9.643	113.4E6	119.9E6	48.087	48.808	
32)	Chlordane...	7.723	8.096	2811381	122.8E6	6.825	252.069	#
33)	Chlordane...	7.806	8.211	171.0E6	4866579	408.003	11.755	#
34)	Chlordane...	0.000	8.881	0	601552	N.D.	4.448	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.806	8.467f	171.0E6	107.2E6	11495.682	2820.717	#
37)	Toxaphene...	8.089	0.000	774604	0	23.517	N.D.	#
38)	Toxaphene...	8.433	8.837	163744	223268	2.362	3.174	#
39)	Toxaphene...	8.641	8.881	376516	601552	5.059	5.049	
40)	Toxaphene...	8.870f	9.072	8090	143821	0.136	2.088	#
41)	Toxaphene...	8.961	9.442	113.4E6	22501	1684.049	0.300	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

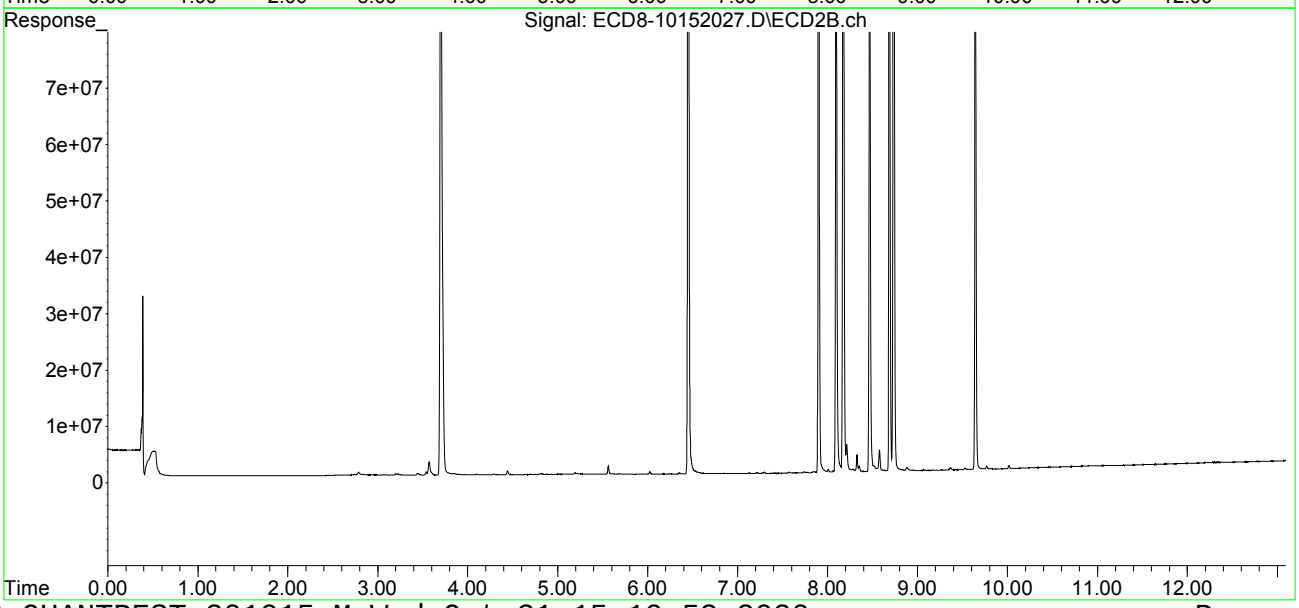
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:19
Operator : MJB
Sample : 0J15061-ICV2
Misc : A20I187, 9-42 50 ppb
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 15:10:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

CLEAN

Acq On : 16 Oct 2020 2:31
Operator : MJB
Sample : 0J15061-IBL3
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:32:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.710f	5.998	25302	155203	0.007	0.039	#
22)	S	DCBP (S)	9.941f	10.501	106252	240682	BelowCal	0.099	
		Target Compounds							
2)		a-BHC	6.260f	6.588	40623	42583	0.009	0.008	
3)		g-BHC	6.480f	6.938f	201951	7271	0.050	0.002	#
4)		b-BHC	6.613	6.966	35946	56196	0.023	0.029	
5)		Heptachlor	6.915	7.271	44476	23868	0.011	0.005	#
6)		d-BHC	6.758	7.213	100505	98350	0.091	0.091	
7)		Aldrin	7.139f	7.530	31214	27894	0.008	0.007	
8)		Heptachlo...	7.622	7.974	200689	43233	0.055	0.011	#
9)		trans-Chl...	7.722	8.110	67877	82669	0.018	0.021	
10)		cis-Chlor...	7.817	8.216	112431	85348	0.031	0.022	#
11)		Endosulfa...	7.925	8.269	56485	312281	0.017	0.087	#
12)		4,4'-DDE	7.888	8.317	81135	27474	0.026	0.056	#
13)		Dieldrin	8.104	8.464	196592	20629	0.052	0.022	#
14)		Endrin	8.287	8.689	34487	297936	0.013	0.142	#
15)		4,4'-DDD	8.309	8.747	59602	14109	0.022	0.007	#
16)		Endosulfa...	8.430	8.834	52187	29018	0.018	0.009	#
17)		4,4'-DDT	8.497	8.959	13656	90097	0.038	0.097	#
18)		Endrin Al...	8.728	9.086	163036	280065	BelowCal	BelowCal	
19)		Endosulfa...	9.029	9.264	95259	85258	0.032	0.026	
20)		Methoxychlor	8.835	9.426	24233	29157	0.018	BelowCal	#
21)		Endrin Ke...	9.233	9.653	69147	73862	0.019	0.019	
23)		Hexachlor...	3.473	3.715	32371	106232	BelowCal	BelowCal	
24)		Hexachlor...	6.077	6.469	108080	151830	0.032	0.038	
25)		Oxychlordane	7.553	7.886	11914	44155	0.004	0.012	#
26)		2,4'-DDE	7.622	8.110	200689	82669	0.093	0.034	#
27)		trans-Non...	7.817	8.175	112431	94744	0.031	0.024	
28)		2,4'-DDD	7.991	8.464	25930	20629	0.013	0.009	#
29)		2,4'-DDT	8.192	8.689	7267	297936	0.003	0.005	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 2:31
Operator : MJB
Sample : 0J15061-IBL3
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:32:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

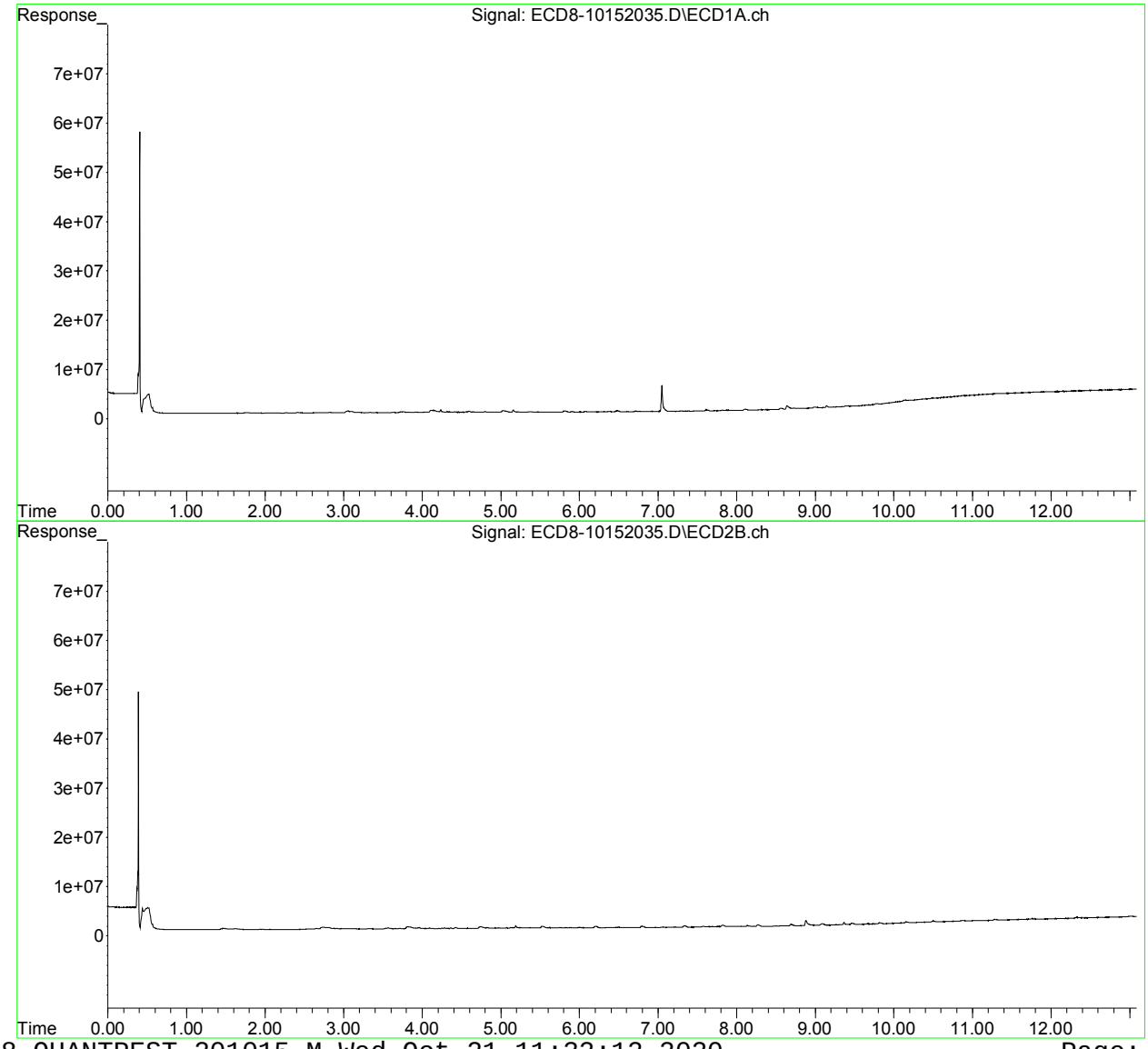
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.287	8.747	34487	14109	0.009	0.003	#
31)	Mirex	8.950	9.637	11268	21301	BelowCal	BelowCal	
32)	Chlordane...	7.722	8.110	67877	82669	0.165	0.170	
33)	Chlordane...	7.817	8.216	112431	85348	0.268	0.206	
34)	Chlordane...	8.387	8.882	27422	1017890	0.213	7.526	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.817	8.441	112431	9653	7.557	0.254	#
37)	Toxaphene...	8.104	8.792	196592	10248	5.968	0.217	#
38)	Toxaphene...	8.430	8.819	52187	10031	0.753	0.143	#
39)	Toxaphene...	8.640	8.882	739281	1017890	9.934	8.544	
40)	Toxaphene...	8.892	9.086	19730	280065	0.332	4.065	#
41)	Toxaphene...	8.950	9.435	11268	24389	0.167	0.326	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 2:31
Operator : MJB
Sample : 0J15061-IBL3
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:32:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 2:47
Operator : MJB
Sample : 0J15061-ICV3
Misc : A20F062, CHOLR 500 ppb
ALS Vial : 31 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:32:22 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.681	5.962f	82134	59226	0.023	0.015	#
22) S	DCBP (S)	9.921	10.520	431749	58803	BelowCal	0.024	
	Target Compounds							
2)	a-BHC	6.221	6.615f	74110	4143369	0.016	0.775	#
3)	g-BHC	6.528	6.911	200683	2082454	0.050	0.448	#
4)	b-BHC	6.610	6.960	2252796	253939	1.443	0.130	#
5)	Heptachlor	6.918	7.272	92152266	105.4E6	22.706	23.019	
6)	d-BHC	6.764	7.210	2614473	674000	0.909	0.234	#
7)	Aldrin	7.175	7.545	1292172	1110757	0.329	0.260	
8)	Heptachlo...	7.634	7.987	13649820	5281699	3.734	1.315	#
9)	trans-Chl...	7.723	8.109	202.0E6	247.5E6	54.864	62.187	
10)	cis-Chlor...	7.818	8.215	201.5E6	206.0E6	55.623	53.086	
11)	Endosulfa...	7.938	8.281	5505083	4043194	1.619	1.124	#
12)	4,4'-DDE	7.882	8.314	6238545	5422165	1.980	1.645	
13)	Dieldrin	8.110	8.467	6398195	22723243	1.703	5.910	#
14)	Endrin	8.285	8.687	35730637	4984027	13.029	1.948	#
15)	4,4'-DDD	8.285	8.734	35730637	38202894	13.138	13.023	
16)	Endosulfa...	8.425	8.823	4677508	5344067	1.588	1.641	
17)	4,4'-DDT	8.495	8.946	1039214	3724893	0.449	1.441	#
18)	Endrin Al...	8.740	9.099f	1171756	11646243	0.112	3.716	#
19)	Endosulfa...	9.029	9.286f	2623310	1190384	0.878	0.358	#
20)	Methoxychlor	8.839	9.421	1115523	317396	0.810	0.175	#
21)	Endrin Ke...	9.238	9.656	192223	2287043	0.052	0.585	#
23)	Hexachlor...	3.475	3.717	11560	38939	BelowCal	BelowCal	
24)	Hexachlor...	6.056	6.421f	113259	432640	0.034	0.107	#
25)	Oxychlordane	7.582f	7.883	38794935	2500611	11.916	0.701	#
26)	2,4'-DDE	7.634	8.109	13649820	247.5E6	6.339	100.635	#
27)	trans-Non...	7.818	8.175	201.5E6	175.9E6	55.273	43.992	
28)	2,4'-DDD	8.001	8.467	5829722	22723243	3.001	9.935	#
29)	2,4'-DDT	8.157f	8.687	16902532	4984027	7.773	2.245	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 2:47
Operator : MJB
Sample : 0J15061-ICV3
Misc : A20F062, CHOLR 500 ppb
ALS Vial : 31 Sample Multiplier: 1

FRONT COLUMN: 490.00
REAR COLUMN: 498.26

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:32:22 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

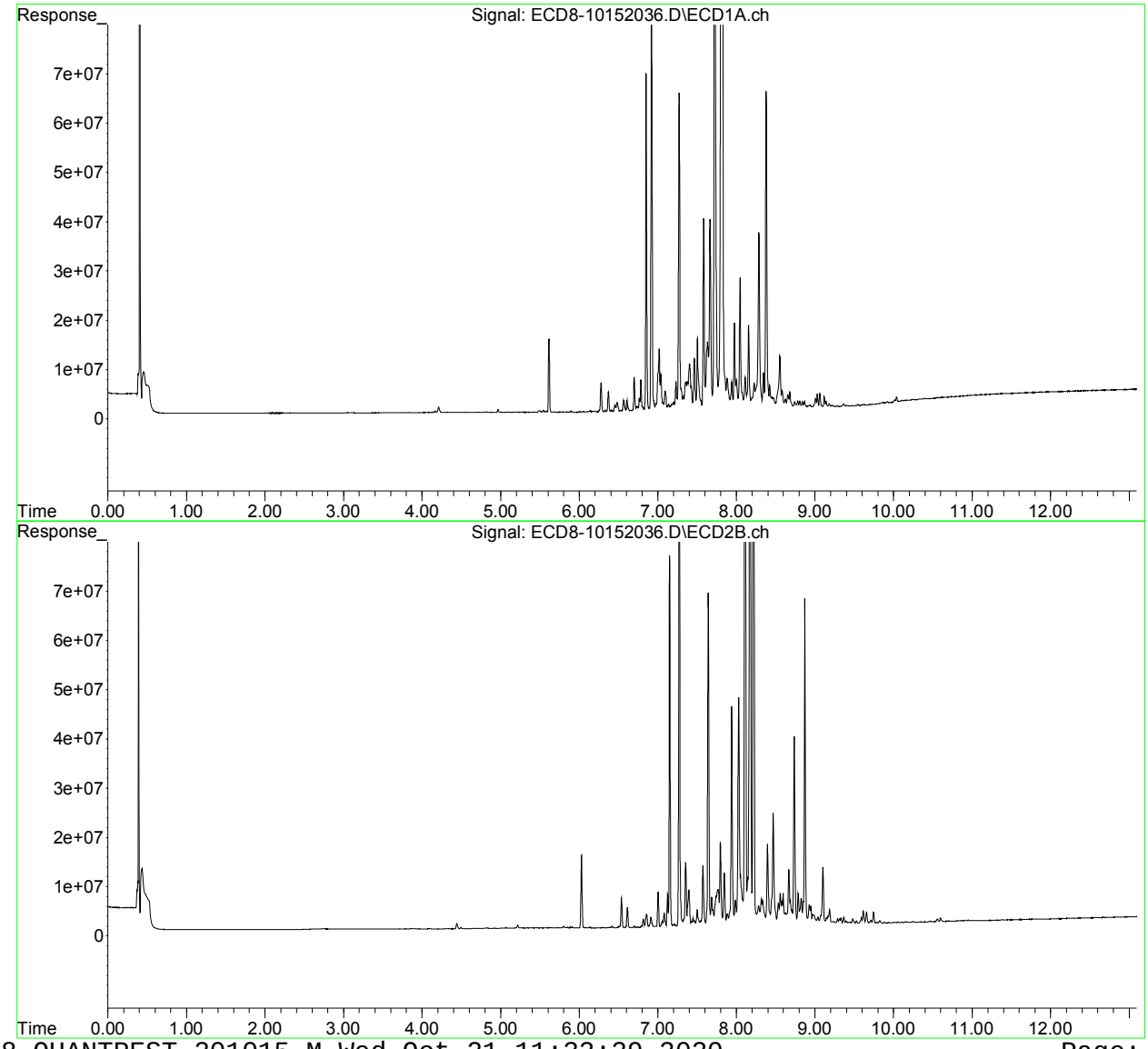
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.285	8.734	35730637	38202894	8.955	8.802	
31)	Mirex	8.939f	9.656	440315	2287043	BelowCal	0.624	
32)	Chlordane...	7.723	8.109	202.0E6	247.5E6	490.458	508.103	
33)	Chlordane...	7.818	8.215	201.5E6	206.0E6	480.678	497.475	
34)	Chlordane...	8.378	8.871	64331212	66162721	498.860	489.188	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.818	8.467f	201.5E6	22723243	13543.332	597.893	#
37)	Toxaphene...	8.110	8.788	6398195	6394433	194.246	135.635	#
38)	Toxaphene...	8.425	8.823	4677508	5344067	67.474	75.983	
39)	Toxaphene...	8.652	8.871	2614091	66162721	35.126	555.371	#
40)	Toxaphene...	8.868f	9.099f	1182746	11646243	19.924	169.055	#
41)	Toxaphene...	8.939f	9.449	440315	328808	6.540	4.391	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 2:47
Operator : MJB
Sample : 0J15061-ICV3
Misc : A20F062, CHOLR 500 ppb
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:32:22 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152044.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:59
Operator : MJB
Sample : 0J15061-IBL4
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

CLEAN

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:32:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.709f	5.997	18215	173632	0.005	0.043	#
22)	S	DCBP (S)	9.925f	10.502	180501	215456	BelowCal	0.089	
		Target Compounds							
2)		a-BHC	6.258f	6.588	47565	37975	0.010	0.007	#
3)		g-BHC	0.000	6.900	0	10067	N.D.	0.002	#
4)		b-BHC	6.614	6.966	28740	57471	0.018	0.029	#
5)		Heptachlor	6.918	7.271	38412	11381	0.009	0.002	#
6)		d-BHC	6.760	7.215	87917	81583	0.087	0.087	
7)		Aldrin	7.159	7.538	26607	17616	0.007	0.004	#
8)		Heptachlo...	7.619	7.965	197681	21428	0.054	0.005	#
9)		trans-Chl...	7.719	8.100	33114	22847	0.009	0.006	#
10)		cis-Chlor...	7.819	8.213	75657	39711	0.021	0.010	#
11)		Endosulfa...	7.921	8.269	56868	303565	0.017	0.084	#
12)		4,4'-DDE	7.879	8.344f	70386	14151	0.022	0.052	#
13)		Dieldrin	8.099	8.467	195011	14148	0.052	0.020	#
14)		Endrin	8.270	8.689	16162	290395	0.006	0.139	#
15)		4,4'-DDD	8.306	8.753f	57946	7853	0.021	0.004	#
16)		Endosulfa...	8.431	8.837	50825	25647	0.017	0.008	#
17)		4,4'-DDT	8.492	8.955	15876	54034	0.038	0.083	#
18)		Endrin Al...	8.728	9.080	119590	274885	BelowCal	BelowCal	
19)		Endosulfa...	9.027	9.264	98300	74318	0.033	0.022	#
20)		Methoxychlor	8.829	9.424	20234	30345	0.015	BelowCal	#
21)		Endrin Ke...	9.234	9.655	71038	72888	0.019	0.019	
23)		Hexachlor...	3.475	3.715	26674	111850	BelowCal	BelowCal	
24)		Hexachlor...	6.078	6.469	96869	161050	0.029	0.040	#
25)		Oxychlordane	7.552	7.905	8094	11851	0.002	0.003	#
26)		2,4'-DDE	7.619	8.100	197681	22847	0.092	0.009	#
27)		trans-Non...	7.819	8.189	75657	33291	0.021	0.008	#
28)		2,4'-DDD	7.992	8.467	27039	14148	0.014	0.006	#
29)		2,4'-DDT	8.187	8.689	9056	290395	0.004	0.001	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152044.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:59
Operator : MJB
Sample : 0J15061-IBL4
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:32:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

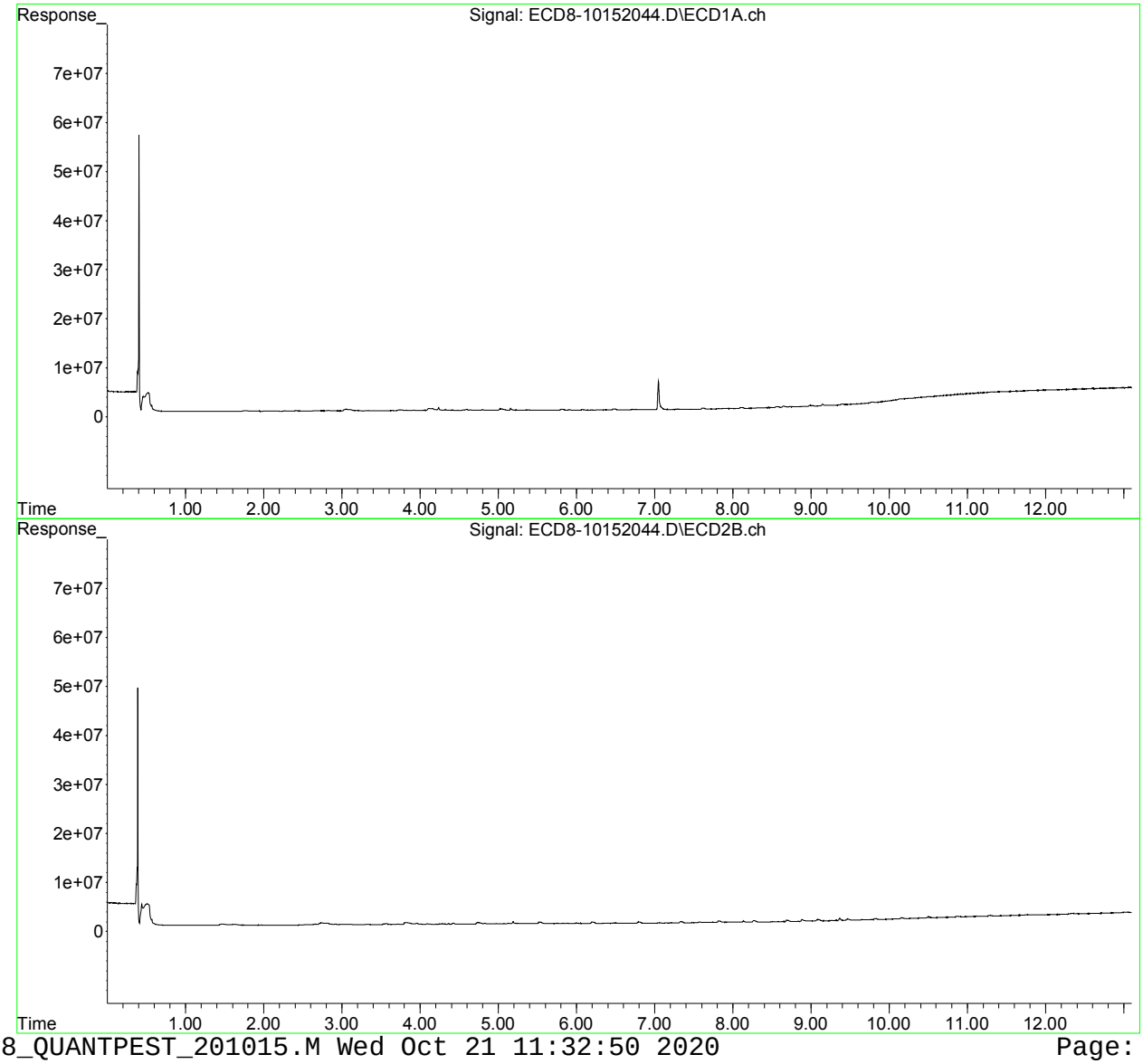
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.284	8.753	23719	7853	0.006	0.002	#
31)	Mirex	8.958	9.633	12573	19182	BelowCal	BelowCal	
32)	Chlordane...	7.719	8.100	33114	22847	0.080	0.047	#
33)	Chlordane...	7.819	8.213	75657	39711	0.180	0.096	#
34)	Chlordane...	8.378	8.884	18243	367401	0.141	2.716	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.819	8.443	75657	16033	5.086	0.422	#
37)	Toxaphene...	8.099	8.796	195011	14310	5.920	0.304	#
38)	Toxaphene...	8.410	8.837	18688	25647	0.270	0.365	#
39)	Toxaphene...	8.643	8.884	254022	367401	3.413	3.084	
40)	Toxaphene...	8.890	9.080	23886	274885	0.402	3.990	#
41)	Toxaphene...	8.958	9.424	12573	30345	0.187	0.405	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152044.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:59
Operator : MJB
Sample : 0J15061-IBL4
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:32:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 5:16
Operator : MJB
Sample : 0J15061-ICV4
Misc : A20F067, TOX 500 ppb
ALS Vial : 39 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:33:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.684	5.981	14542	12405	0.004	0.003	
22) S	DCBP (S)	9.909	10.484f	792915	1003272	0.058	0.415	#
	Target Compounds							
2)	a-BHC	6.232	6.583	70611	63825	0.015	0.012	
3)	g-BHC	6.520	6.893	55481	162404	0.014	0.035	#
4)	b-BHC	6.612	6.954	56682	277447	0.036	0.142	#
5)	Heptachlor	6.926	7.283	215099	386556	0.053	0.084	#
6)	d-BHC	6.758	7.216	178022	329315	0.116	0.149	#
7)	Aldrin	7.166	7.567f	686350	1264117	0.175	0.296	#
8)	Heptachlo...	7.637	7.968	2670273	4611090	0.730	1.148	#
9)	trans-Chl...	7.704	8.092	4046000	5672914	1.099	1.425	#
10)	cis-Chlor...	7.803	8.197	7579824	5867289	2.093	1.512	#
11)	Endosulfa...	7.931	8.276	11351357	7392687	3.337	2.056	#
12)	4,4'-DDE	7.882	8.304	3953943	8257589	1.255	2.475	#
13)	Dieldrin	8.099	8.483	16858474	9972842	4.487	2.616	#
14)	Endrin	8.281	8.685	23963695	19987601	8.738	7.633	
15)	4,4'-DDD	8.295	8.738	21684440	12840832	7.973	4.456	#
16)	Endosulfa...	8.419	8.823	36235359	34858023	12.302	10.706	
17)	4,4'-DDT	8.503	8.952	34384470	14780020	13.476	5.469	#
18)	Endrin Al...	8.705	9.069	25233104	36164633	8.591	12.031	#
19)	Endosulfa...	9.025	9.263	16327506	15569627	5.463	4.686	
20)	Methoxychlor	8.815	9.442	23378798	38435131	16.983	26.099	#
21)	Endrin Ke...	9.214	9.684f	10335766	8207182	2.795	2.101	
23)	Hexachlor...	0.000	3.717	0	20508	N.D.	BelowCal	
24)	Hexachlor...	0.000	6.450	0	29364	N.D.	0.007	#
25)	Oxychlordane	7.557	7.917	5382675	4332117	1.653	1.214	#
26)	2,4'-DDE	7.637	8.092	2670273	5672914	1.240	2.306	#
27)	trans-Non...	7.803	8.197f	7579824	5867289	2.079	1.467	#
28)	2,4'-DDD	8.000	8.483	6603128	9972842	3.399	4.360	#
29)	2,4'-DDT	8.163	8.685	18268845	19987601	8.401	9.288	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 5:16
Operator : MJB
Sample : 0J15061-ICV4
Misc : A20F067, TOX 500 ppb
ALS Vial : 39 Sample Multiplier: 1

FRONT COLUMN: 517.24
REAR COLUMN: 509.25

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:33:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

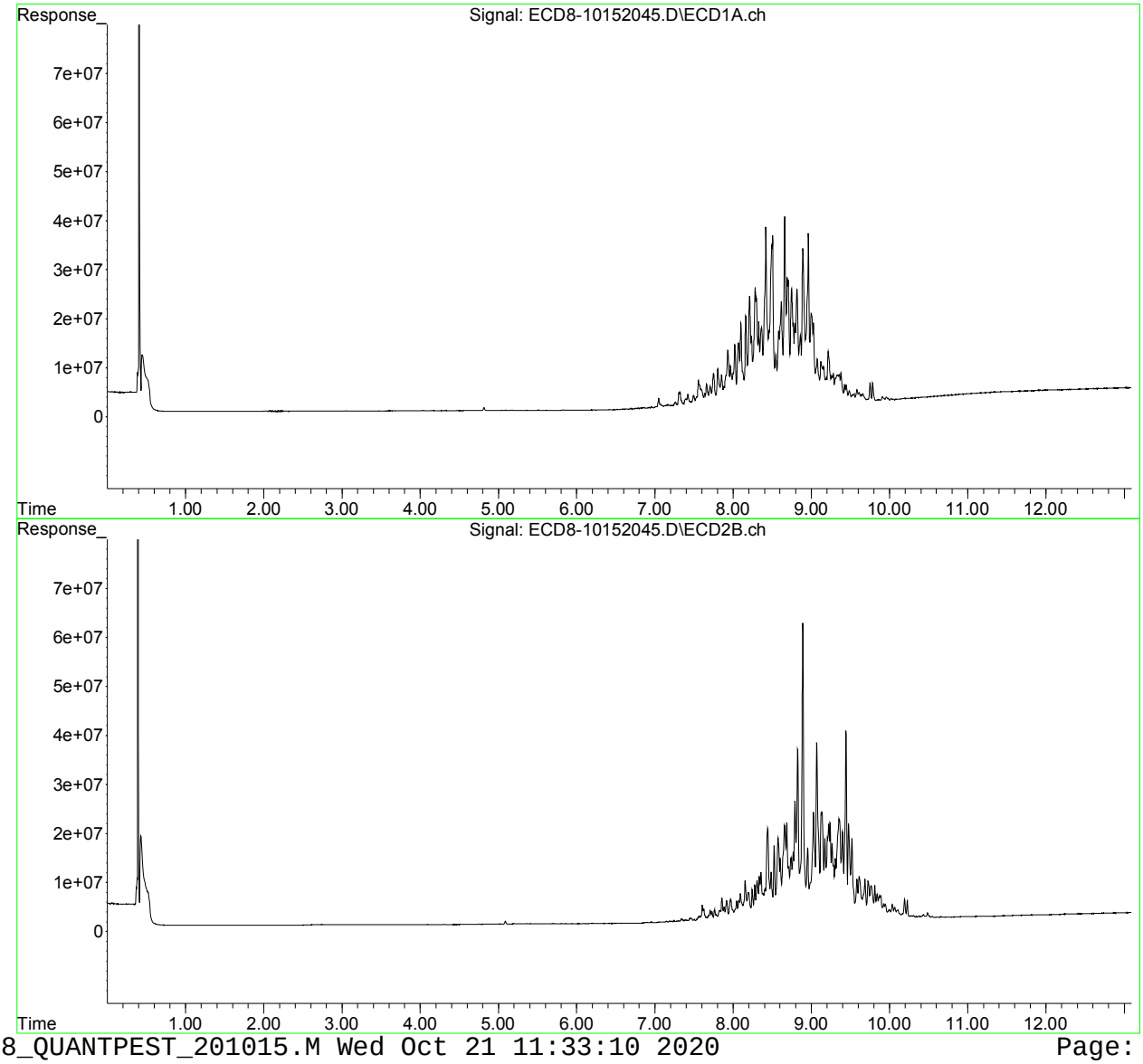
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.281	8.738	23963695	12840832	6.006	2.958	#
31)	Mirex	8.962	9.610f	34649295	8673088	14.401	3.291	#
32)	Chlordane...	7.704	8.092	4046000	5672914	9.822	11.645	
33)	Chlordane...	7.803	8.197	7579824	5867289	18.083	14.172	
34)	Chlordane...	8.363	8.891f	15731669	60630319	121.992	448.283	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.803	8.443	7579824	18874566	509.507	496.626	
37)	Toxaphene...	8.099	8.791	16858474	24330413	511.814	516.083	
38)	Toxaphene...	8.419	8.823	36235359	34858023	522.700	495.617	
39)	Toxaphene...	8.656	8.891	38190543	60630319	513.172	508.932	
40)	Toxaphene...	8.891	9.069	31557556	36164633	531.601	524.959	
41)	Toxaphene...	8.962	9.442	34649295	38435131	514.656	513.278	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152045.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 5:16
Operator : MJB
Sample : 0J15061-ICV4
Misc : A20F067, TOX 500 ppb
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 11:33:05 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

Not used in calibration

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.683	5.990	1964465	2094674	0.555	0.524	
22) S	DCBP (S)	9.904	10.506	1866301	1410803	0.491	0.583	
	Target Compounds							
2)	a-BHC	6.233	6.585	2328682	2455359	0.494	0.459	
3)	g-BHC	6.521	6.901	2071350	2228225	0.515	0.479	
4)	b-BHC	6.608	6.970	816885	1065650	0.523	0.545	
5)	Heptachlor	6.920	7.274	2088406	2266099	0.515	0.495	
6)	d-BHC	6.761	7.218	1397611	1816056	0.513	0.517	
7)	Aldrin	7.163	7.538	1983865	1985635	0.505	0.465	
8)	Heptachlo...	7.633	7.973	1984641	2034040	0.543	0.506	
9)	trans-Chl...	7.727	8.112	1925594	1969558	0.523	0.495	
10)	cis-Chlor...	7.824	8.219	1943677	1990595	0.537	0.513	
11)	Endosulfa...	7.928	8.269	1806599	1819190	0.531	0.506	
12)	4,4'-DDE	7.880	8.323	1488674	1588759	0.472	0.517	
13)	Dieldrin	8.101	8.467	1890452	1903893	0.503	0.514	
14)	Endrin	8.271	8.691	1343181	1241690	0.490	0.507	
15)	4,4'-DDD	8.309	8.736	1338233	1460301	0.492	0.512	
16)	Endosulfa...	8.435	8.839	1532660	1655922	0.520	0.509	
17)	4,4'-DDT	8.503	8.959	1202509	1227833	0.514	0.519	
18)	Endrin Al...	8.729	9.073	2173619	2196243	0.465	0.481	
19)	Endosulfa...	9.033	9.266	1731826	1864404	0.579	0.561	
20)	Methoxychlor	8.835	9.425	712510	771752	0.518	0.499	
21)	Endrin Ke...	9.235	9.657	2069188	7722012	0.560	1.977	#
23)	Hexachlor...	3.472	3.715	8726	48172	BelowCal	BelowCal	
24)	Hexachlor...	6.071	6.453	37373	41459	0.011	0.010	
25)	Oxychlordane	7.565	7.905	47936	18314	0.015	0.005	#
26)	2,4'-DDE	7.633	8.087	1984641	8624	0.922	0.004	#
27)	trans-Non...	7.824	0.000	1943677	0	0.533	N.D.	#
28)	2,4'-DDD	0.000	8.467	0	1903893	N.D.	0.832	#
29)	2,4'-DDT	8.183	8.691	19054	1241690	0.009	0.457	#

ECD8_QUANTPEST_201015.M Tue Oct 20 18:31:33 2020 Page: 1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

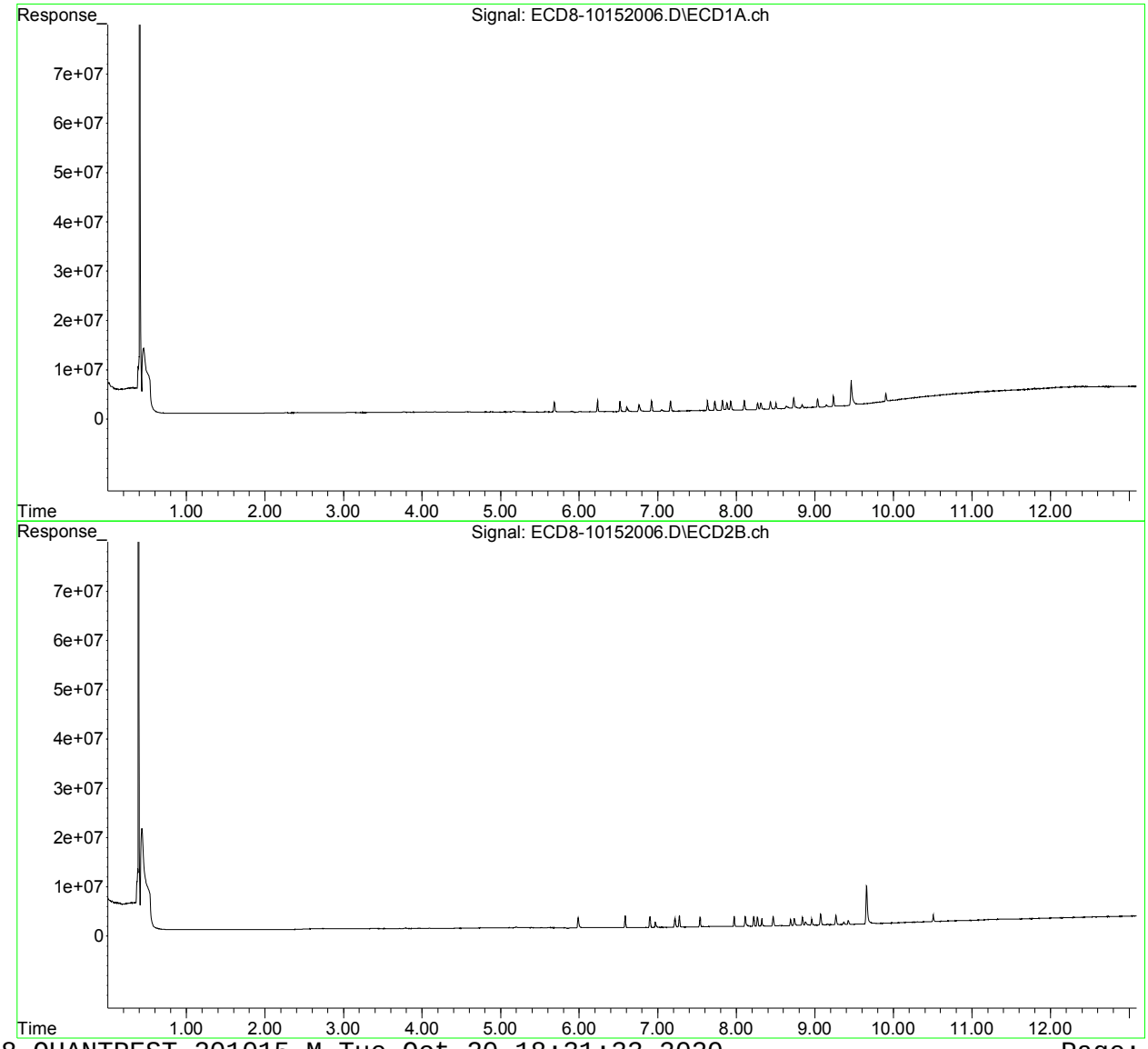
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.271	8.736	1343181	1460301	0.337	0.336	
31)	Mirex	8.964	9.657	18052	7722012	BelowCal	2.894	
32)	Chlordane...	7.727	8.112	1925594	1969558	4.674	4.043	
33)	Chlordane...	7.824	8.219	1943677	1990595	4.637	4.808	
34)	Chlordane...	8.371	8.881	44774	620143	0.347	4.585	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.824f	8.429	1943677	10558	130.652	0.278	#
37)	Toxaphene...	8.101	8.802	1890452	49833	57.393	1.057	#
38)	Toxaphene...	8.435	8.839	1532660	1655922	22.109	23.544	
39)	Toxaphene...	8.637f	8.881	453626	620143	6.095	5.205	
40)	Toxaphene...	8.890	9.073	12954	2196243	0.218	31.880	#
41)	Toxaphene...	8.964	9.425	18052	771752	0.268	10.306	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:48
Operator : MJB
Sample : 0J15061-CAL2
Misc : A20J275, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.683	5.990	3675375	3996914	1.039	0.999	
22) S	DCBP (S)	9.903	10.505	3197716	2586506	1.028	1.069	
	Target Compounds							
2)	a-BHC	6.233	6.585	4586018	4866992	0.973	0.910	
3)	g-BHC	6.520	6.900	3906552	4265430	0.971	0.917	
4)	b-BHC	6.607	6.969	1540562	1994989	0.987	1.020	
5)	Heptachlor	6.919	7.273	4125267	4334823	1.016	0.947	
6)	d-BHC	6.760	7.217	2771438	3592643	0.960	0.957	
7)	Aldrin	7.161	7.537	3890178	3922163	0.990	0.919	
8)	Heptachlo...	7.632	7.972	3780245	3912347	1.034	0.974	
9)	trans-Chl...	7.726	8.112	3633454	3716881	0.987	0.934	
10)	cis-Chlor...	7.823	8.219	3710813	3697197	1.024	0.953	
11)	Endosulfa...	7.927	8.269	3420833	3424701	1.006	0.952	
12)	4,4'-DDE	7.878	8.323	2806594	3083622	0.891	0.957	
13)	Dieldrin	8.100	8.467	3676591	3654098	0.979	0.971	
14)	Endrin	8.270	8.690	2564407	2521951	0.935	1.001	
15)	4,4'-DDD	8.307	8.736	2561702	2804997	0.942	0.982	
16)	Endosulfa...	8.433	8.838	2928662	3080696	0.994	0.946	
17)	4,4'-DDT	8.501	8.959	2340699	2447680	0.969	0.970	
18)	Endrin Al...	8.728	9.072	3907593	3815413	1.076	1.037	
19)	Endosulfa...	9.032	9.266	3157154	3258540	1.056	0.981	
20)	Methoxychlor	8.833	9.424	1332109	1490489	0.968	1.011	
21)	Endrin Ke...	9.234	9.657	3789042	4169368	1.025	1.067	
23)	Hexachlor...	3.482	3.714	11899	54077	BelowCal	BelowCal	
24)	Hexachlor...	6.070	6.453	85829	89183	0.025	0.022	
25)	Oxychlordane	7.564	7.899	41690	25198	0.013	0.007	#
26)	2,4'-DDE	7.632	8.112	3780245	3716881	1.755	1.511	
27)	trans-Non...	7.823	0.000	3710813	0	1.018	N.D.	#
28)	2,4'-DDD	8.003	8.467	32693	3654098	0.017	1.598	#
29)	2,4'-DDT	8.185	8.690	22619	2521951	0.010	1.070	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:48
Operator : MJB
Sample : 0J15061-CAL2
Misc : A20J275, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

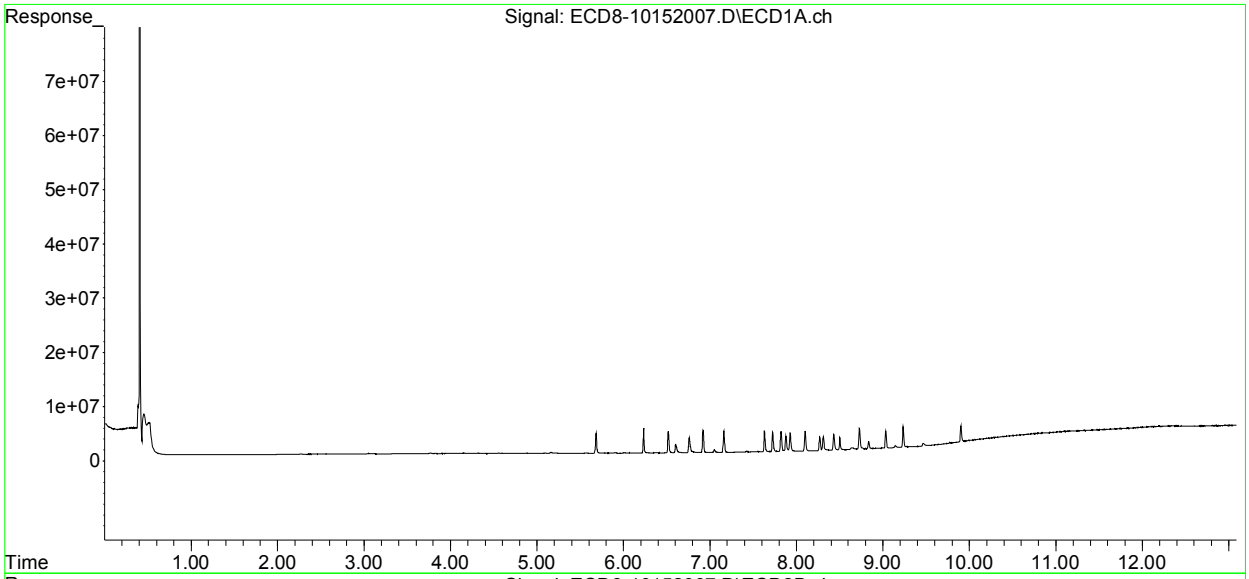
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.270	8.736	2564407	2804997	0.643	0.646	
31)	Mirex	8.969	9.657	14063	4169368	BelowCal	1.411	
32)	Chlordane...	7.726	8.112	3633454	3716881	8.820	7.630	
33)	Chlordane...	7.823	8.219	3710813	3697197	8.853	8.930	
34)	Chlordane...	0.000	8.882	0	448677	N.D.	3.317	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.823	8.467f	3710813	3654098	249.437	96.146	#
37)	Toxaphene...	8.100	0.000	3676591	0	111.619	N.D.	#
38)	Toxaphene...	8.433	8.838	2928662	3080696	42.246	43.802	
39)	Toxaphene...	8.637f	8.882	295960	448677	3.977	3.766	
40)	Toxaphene...	8.883	9.072	23351	3815413	0.393	55.384	#
41)	Toxaphene...	8.969	9.424	14063	1490489	0.209	19.905	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

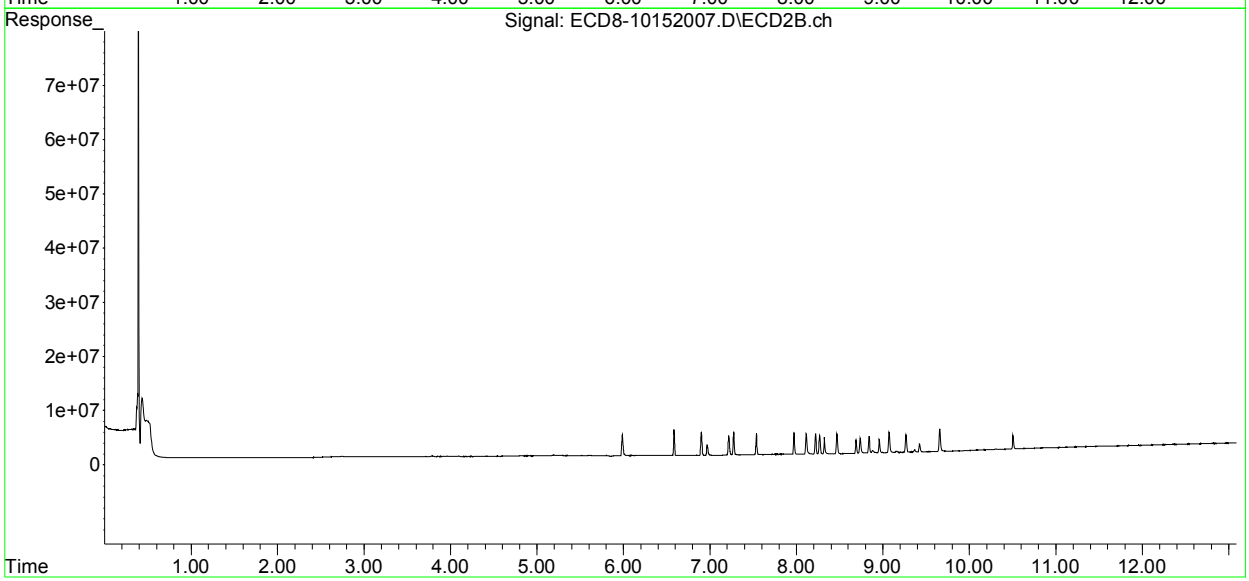
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:48
Operator : MJB
Sample : 0J15061-CAL2
Misc : A20J275, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:05
Operator : MJB
Sample : 0J15061-CAL3 MJB 10/20/20
Misc : A20H471, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:27 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.682	5.990	6974987	7527988	1.972	1.882	
22) S	DCBP (S)	9.902	10.505	5701683	4791544	2.038	1.981	
	Target Compounds							
2)	a-BHC	6.233	6.585	9063124	9584271	1.924	1.792	
3)	g-BHC	6.520	6.900	7694107	8481393	1.912	1.824	
4)	b-BHC	6.604	6.968	3020188	3743280	1.935	1.913	
5)	Heptachlor	6.919	7.274	7834074	8356845	1.930	1.826	
6)	d-BHC	6.758	7.216	5908930	7521244	1.978	1.927	
7)	Aldrin	7.162	7.536	7559480	7805224	1.925	1.828	
8)	Heptachlo...	7.631	7.971	7111174	7501012	1.945	1.868	
9)	trans-Chl...	7.725	8.111	7224345	7196150	1.962	1.808	
10)	cis-Chlor...	7.822	8.217	6946216	7123870	1.918	1.836	
11)	Endosulfa...	7.926	8.268	6845706	6450502	2.013	1.794	
12)	4,4'-DDE	7.875	8.320	5832058	6467389	1.851	1.951	
13)	Dieldrin	8.099	8.466	7217877	7205936	1.921	1.897	
14)	Endrin	8.269	8.690	5198958	4965041	1.896	1.940	
15)	4,4'-DDD	8.305	8.734	5108732	5453646	1.878	1.903	
16)	Endosulfa...	8.431	8.836	5775620	5953424	1.961	1.828	
17)	4,4'-DDT	8.499	8.957	4776266	4865206	1.941	1.861	
18)	Endrin Al...	8.726	9.071	7357293	7179367	2.292	2.189	
19)	Endosulfa...	9.031	9.265	5905541	6267396	1.976	1.886	
20)	Methoxychlor	8.831	9.424	2713959	2917738	1.972	2.024	
21)	Endrin Ke...	9.233	9.655	7274419	7194544	1.967	1.842	
23)	Hexachlor...	3.474	3.716	4791	34774	BelowCal	BelowCal	
24)	Hexachlor...	6.068	6.451	65431	17657	0.019	0.004	#
25)	Oxychlordane	7.566	7.888	48596	73763	0.015	0.021	#
26)	2,4'-DDE	7.631	8.111	7111174	7196150	3.302	2.926	
27)	trans-Non...	7.822	8.175	6946216	65707	1.906	0.016	#
28)	2,4'-DDD	8.034f	8.466	36699	7205936	0.019	3.150	#
29)	2,4'-DDT	8.184	8.690	30346	4965041	0.014	2.236	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:05
Operator : MJB
Sample : 0J15061-CAL3
Misc : A20H471, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:27 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

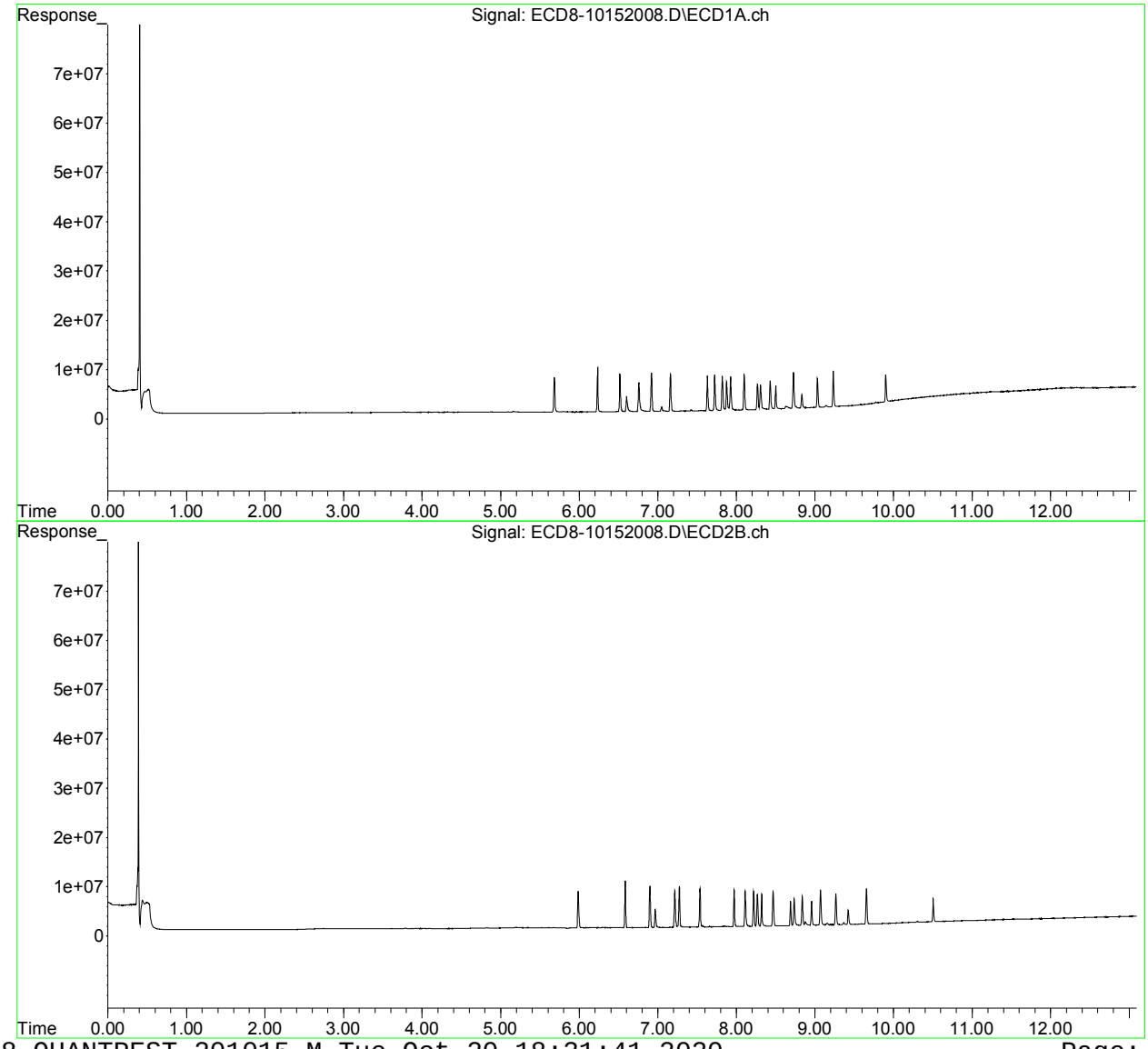
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.269	8.734	5198958	5453646	1.303	1.257	
31)	Mirex	8.961	9.655	32360	7194544	BelowCal	2.674	
32)	Chlordane...	7.725	8.111	7224345	7196150	17.537	14.772	
33)	Chlordane...	7.822	8.217	6946216	7123870	16.572	17.207	
34)	Chlordane...	8.398	8.878	38979	707915	0.302	5.234	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.822	8.431	6946216	7391	466.917	0.194	#
37)	Toxaphene...	8.099	0.000	7217877	0	219.131	N.D.	#
38)	Toxaphene...	8.431	8.836	5775620	5953424	83.314	84.647	
39)	Toxaphene...	8.632f	8.878	493164	707915	6.627	5.942	
40)	Toxaphene...	8.898	9.071	24194	7179367	0.408	104.214	#
41)	Toxaphene...	8.961	9.424	32360	2917738	0.481	38.965	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:05
Operator : MJB
Sample : 0J15061-CAL3
Misc : A20H471, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:27 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:21
Operator : MJB
Sample : 0J15061-CAL4
Misc : A20H472, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:36 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.682	5.990	16956681	18484065	4.795	4.620	
22) S	DCBP (S)	9.902	10.505	12863204	11283832	4.926	4.664	
	Target Compounds							
2)	a-BHC	6.233	6.585	22751844	25276916	4.829	4.726	
3)	g-BHC	6.521	6.900	18571945	21316708	4.615	4.584	
4)	b-BHC	6.605	6.968	6967859	8823163	4.464	4.509	
5)	Heptachlor	6.920	7.274	19135941	20724830	4.715	4.528	
6)	d-BHC	6.759	7.216	14723164	19014583	4.816	4.743	
7)	Aldrin	7.163	7.537	19043093	19417167	4.848	4.548	
8)	Heptachlo...	7.633	7.971	17849960	18369288	4.882	4.574	
9)	trans-Chl...	7.725	8.111	17399945	18128038	4.725	4.555	
10)	cis-Chlor...	7.823	8.218	17370803	17821595	4.796	4.594	
11)	Endosulfa...	7.927	8.268	16393128	16389737	4.820	4.557	
12)	4,4'-DDE	7.876	8.320	14353371	15866253	4.555	4.690	
13)	Dieldrin	8.100	8.466	18084070	18768975	4.814	4.892	
14)	Endrin	8.270	8.689	12643881	12382702	4.611	4.769	
15)	4,4'-DDD	8.306	8.734	12317174	13730751	4.529	4.761	
16)	Endosulfa...	8.432	8.836	13817746	14467378	4.691	4.443	
17)	4,4'-DDT	8.500	8.958	11690217	12754125	4.680	4.738	
18)	Endrin Al...	8.726	9.071	14781149	15071497	4.908	4.885	
19)	Endosulfa...	9.031	9.265	13964857	14969553	4.673	4.505	
20)	Methoxychlor	8.832	9.423	6325525	6672527	4.595	4.670	
21)	Endrin Ke...	9.234	9.655	18023751	17644405	4.874	4.517	
23)	Hexachlor...	3.478	3.716	8052	33249	BelowCal	BelowCal	
24)	Hexachlor...	6.070	6.454	55293	35397	0.016	0.009	#
25)	Oxychlordane	7.567	7.886	98221	75224	0.030	0.021	#
26)	2,4'-DDE	7.633	8.111	17849960	18128038	8.289	7.370	
27)	trans-Non...	7.823	8.173	17370803	104482	4.765	0.026	#
28)	2,4'-DDD	0.000	8.466	0	18768975	N.D.	8.206	#
29)	2,4'-DDT	8.180	8.689	60601	12382702	0.028	5.742	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:21
Operator : MJB
Sample : 0J15061-CAL4
Misc : A20H472, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:36 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

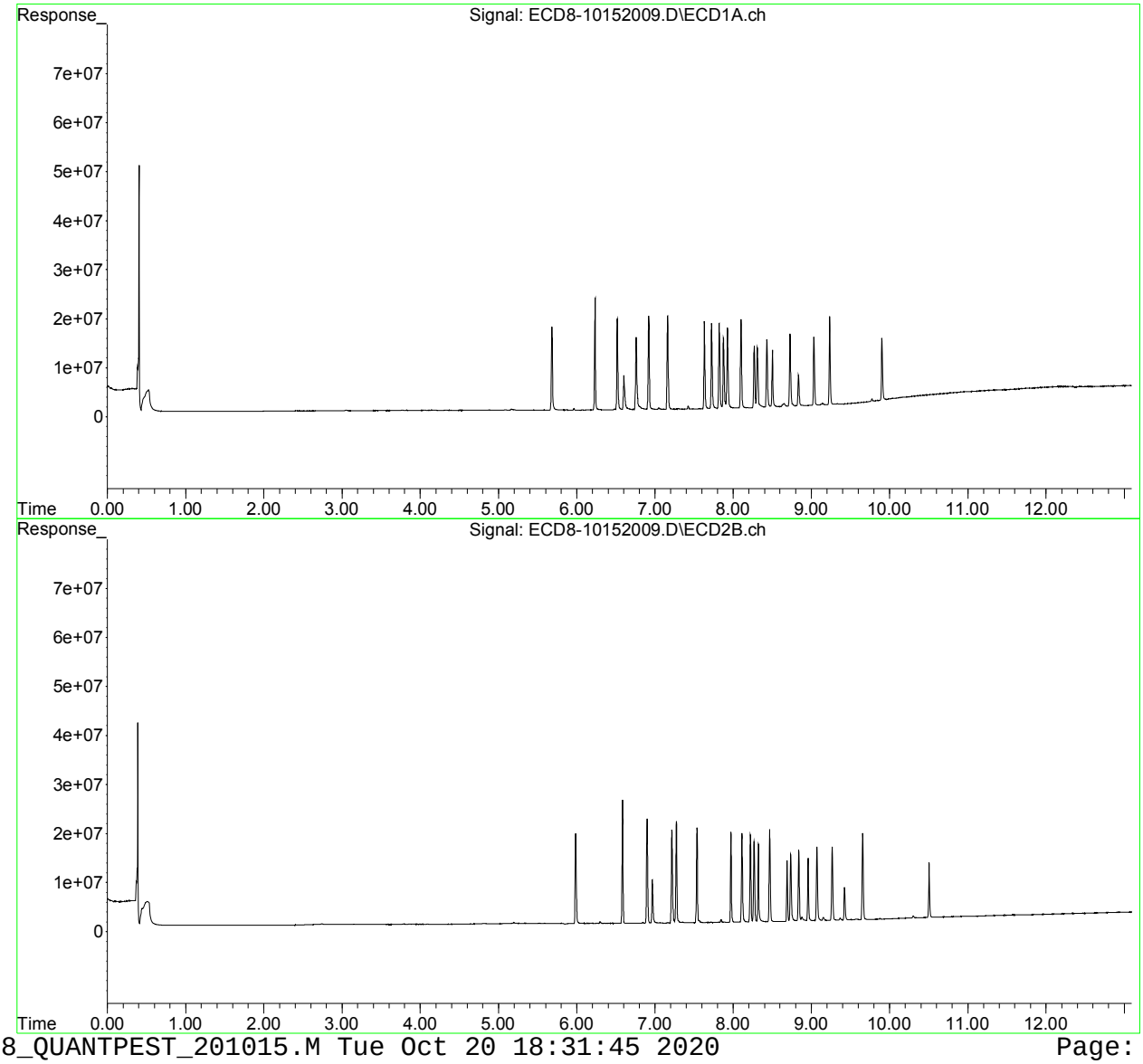
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.270	8.734	12643881	13730751	3.169	3.164	
31)	Mirex	8.959	9.655	22892	17644405	BelowCal	7.023	
32)	Chlordane...	7.725	8.111	17399945	18128038	42.238	37.213	
33)	Chlordane...	7.823	8.218	17370803	17821595	41.442	43.047	
34)	Chlordane...	0.000	8.879	0	762586	N.D.	5.638	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.823	8.424	17370803	38904	1167.646	1.024	#
37)	Toxaphene...	8.100	0.000	18084070	0	549.022	N.D.	#
38)	Toxaphene...	8.432	8.836	13817746	14467378	199.323	205.699	
39)	Toxaphene...	8.650	8.879	670904	762586	9.015	6.401	#
40)	Toxaphene...	8.884	9.071	106803	15071497	1.799	218.775	#
41)	Toxaphene...	8.959	9.423	22892	6672527	0.340	89.108	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:21
Operator : MJB
Sample : 0J15061-CAL4
Misc : A20H472, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:36 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:38
Operator : MJB
Sample : 0J15061-CAL5
Misc : A20H473, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:46 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.682	5.989	33785802	37691189	9.554	9.421	
22) S	DCBP (S)	9.902	10.504	25663363	22219920	10.082	9.184	
	Target Compounds							
2)	a-BHC	6.233	6.584	45945237	51661582	9.752	9.658	
3)	g-BHC	6.520	6.900	39002587	45048871	9.691	9.687	
4)	b-BHC	6.603	6.967	14251469	17799613	9.131	9.097	
5)	Heptachlor	6.919	7.273	39173115	44108090	9.652	9.637	
6)	d-BHC	6.757	7.215	30313826	40912398	9.767	10.027	
7)	Aldrin	7.161	7.536	39135359	41106892	9.963	9.629	
8)	Heptachlo...	7.631	7.971	35393917	38488002	9.681	9.584	
9)	trans-Chl...	7.725	8.111	35298078	37624061	9.585	9.453	
10)	cis-Chlor...	7.822	8.218	35411410	37266618	9.776	9.606	
11)	Endosulfa...	7.926	8.267	32830959	34291287	9.653	9.535	
12)	4,4'-DDE	7.875	8.320	30250769	33692294	9.600	9.799	
13)	Dieldrin	8.099	8.466	37548230	38676878	9.995	9.988	
14)	Endrin	8.269	8.689	25971387	24972648	9.471	9.491	
15)	4,4'-DDD	8.305	8.733	25608106	29438067	9.416	10.096	
16)	Endosulfa...	8.431	8.835	28511350	30118924	9.680	9.250	
17)	4,4'-DDT	8.499	8.957	25096147	26962252	9.911	9.807	
18)	Endrin Al...	8.725	9.070	27881516	29477669	9.524	9.774	
19)	Endosulfa...	9.030	9.264	28097911	30451627	9.402	9.165	
20)	Methoxychlor	8.832	9.423	12655213	14104841	9.193	9.834	
21)	Endrin Ke...	9.232	9.654	35605046	36555813	9.629	9.358	
23)	Hexachlor...	3.475	3.717	10195	35516	BelowCal	BelowCal	
24)	Hexachlor...	6.070	6.453	72562	31391	0.021	0.008	#
25)	Oxychlordane	7.565	7.890	181867	83246	0.056	0.023	#
26)	2,4'-DDE	7.631	8.111	35393917	37624061	16.436	15.297	
27)	trans-Non...	7.822	8.174	35411410	184607	9.715	0.046	#
28)	2,4'-DDD	0.000	8.466	0	38676878	N.D.	16.910	#
29)	2,4'-DDT	8.182	8.689	129283	24972648	0.059	11.586	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:38
Operator : MJB
Sample : 0J15061-CAL5
Misc : A20H473, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:46 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

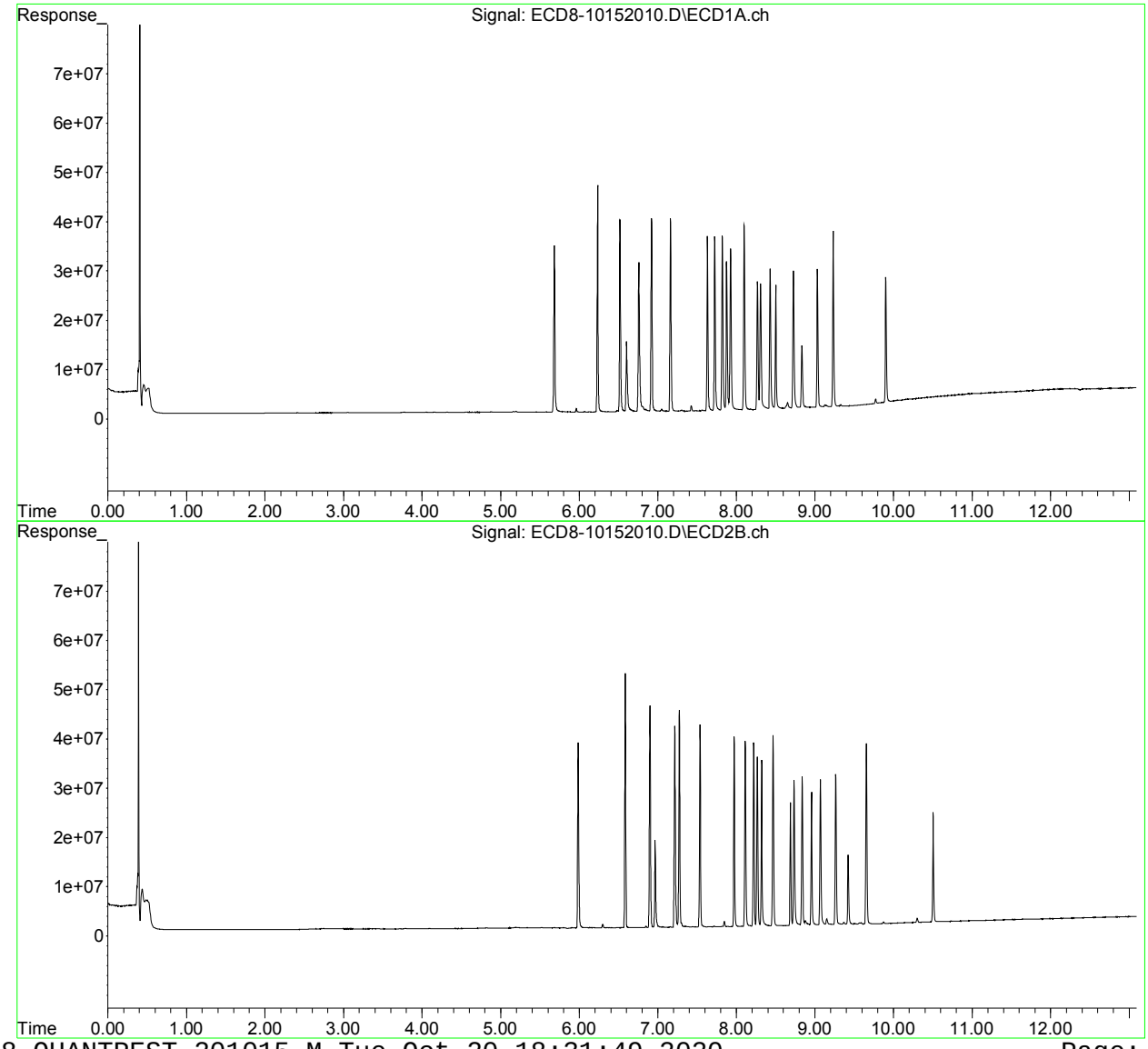
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.269	8.733	25971387	29438067	6.509	6.782	
31)	Mirex	8.963	9.654	40708	36555813	BelowCal	14.835	
32)	Chlordane...	7.725	8.111	35298078	37624061	85.685	77.235	
33)	Chlordane...	7.822	8.218	35411410	37266618	84.482	90.016	
34)	Chlordane...	0.000	8.878	0	894100	N.D.	6.611	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.822	8.466f	35411410	38676878	2380.315	1017.664	#
37)	Toxaphene...	8.099	0.000	37548230	0	1139.944	N.D.	#
38)	Toxaphene...	8.431	8.835	28511350	30118924	411.280	428.235	
39)	Toxaphene...	8.649	8.878	1197276	894100	16.088	7.505	#
40)	Toxaphene...	0.000	9.070	0	29477669	N.D.	427.892	#
41)	Toxaphene...	8.963	9.423	40708	14104841	0.605	188.362	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:38
Operator : MJB
Sample : 0J15061-CAL5
Misc : A20H473, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:46 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:54
Operator : MJB
Sample : 0J15061-CAL6
Misc : A20H474, AB 25 ppb MJB 10/20/20
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.682	5.989	86612386	97518197	24.492	24.374	
22) S	DCBP (S)	9.902	10.504	62318460	56260952	24.812	23.255	
	Target Compounds							
2)	a-BHC	6.233	6.585	120.1E6	137.7E6	25.488	25.736	
3)	g-BHC	6.520	6.900	100.3E6	118.2E6	24.928	25.420	
4)	b-BHC	6.601	6.966	38003561	46171935	24.348	23.598	
5)	Heptachlor	6.919	7.273	101.7E6	114.2E6	25.052	24.951	
6)	d-BHC	6.755	7.215	82864455	109.6E6	25.850	25.955	
7)	Aldrin	7.161	7.536	97817805	109.3E6	24.903	25.592	
8)	Heptachlo...	7.631	7.971	89599740	99299787	24.507	24.727	
9)	trans-Chl...	7.724	8.111	91365998	97950589	24.810	24.609	
10)	cis-Chlor...	7.821	8.217	88782494	95308938	24.510	24.566	
11)	Endosulfa...	7.925	8.267	83964035	90769540	24.686	25.239	
12)	4,4'-DDE	7.874	8.320	79179643	92501534	25.128	25.932	
13)	Dieldrin	8.099	8.466	93635281	103.9E6	24.924	26.176	
14)	Endrin	8.269	8.689	68701409	70747094	25.052	25.899	
15)	4,4'-DDD	8.304	8.733	67884289	76853167	24.961	25.550	
16)	Endosulfa...	8.431	8.836	72694490	79168334	24.680	24.315	
17)	4,4'-DDT	8.499	8.957	68705008	76033637	26.261	26.346	
18)	Endrin Al...	8.726	9.070	68571764	73274578	23.861	24.407	
19)	Endosulfa...	9.030	9.264	71990912	78726299	24.088	23.693	
20)	Methoxychlor	8.831	9.422	32595572	37809034	23.679	25.691	
21)	Endrin Ke...	9.232	9.655	88349751	93392767	23.892	23.909	
23)	Hexachlor...	0.000	3.716	0	40736	N.D.	BelowCal	
24)	Hexachlor...	6.069	6.445	187720	31011	0.056	0.008	#
25)	Oxychlordane	7.565	7.886	428478	102845	0.132	0.029	#
26)	2,4'-DDE	7.631	8.111	89599740	97950589	41.609	39.825	
27)	trans-Non...	7.821	8.175	88782494	362727	24.356	0.091	#
28)	2,4'-DDD	0.000	8.466	0	103.9E6	N.D.	45.407	#
29)	2,4'-DDT	8.180	8.689	293338	70747094	0.135	31.823	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:54
Operator : MJB
Sample : 0J15061-CAL6
Misc : A20H474, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

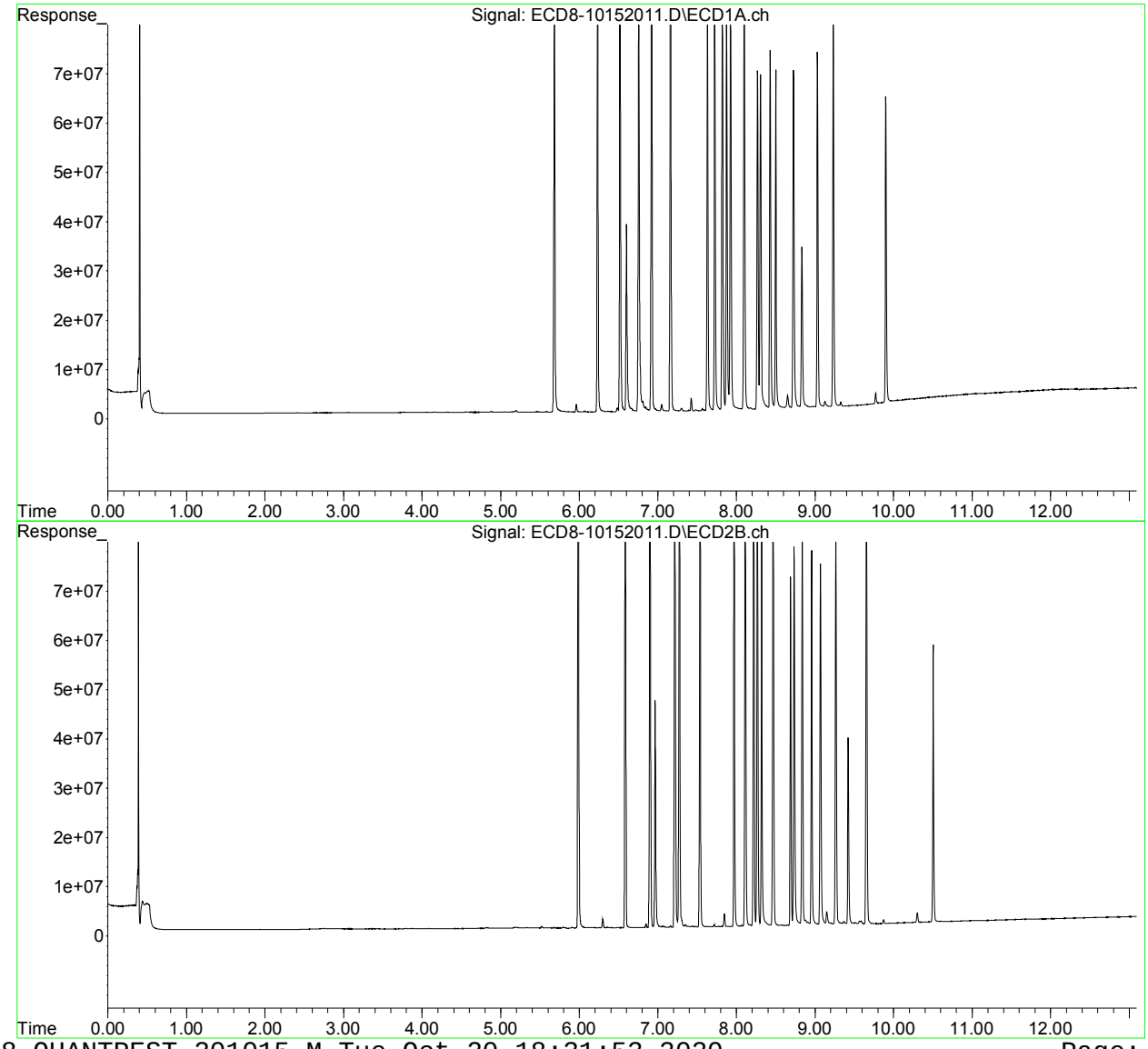
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.269	8.733	68701409	76853167	17.219	17.707	
31)	Mirex	8.963	9.655	104068	93392767	BelowCal	37.883	
32)	Chlordane...	7.724	8.111	91365998	97950589	221.788	201.073	
33)	Chlordane...	7.821	8.217	88782494	95308938	211.811	230.214	
34)	Chlordane...	0.000	8.878	0	1038872	N.D.	7.681	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.821	8.466f	88782494	103.9E6	5967.860	2732.677	#
37)	Toxaphene...	8.099	0.000	93635281	0	2842.716	N.D.	#
38)	Toxaphene...	8.431	8.836	72694490	79168334	1048.629	1125.627	
39)	Toxaphene...	8.649	8.878	2575177	1038872	34.603	8.720	#
40)	Toxaphene...	8.877	9.070	579947	73274578	9.769	1063.639	#
41)	Toxaphene...	8.963	9.422	104068	37809034	1.546	504.917	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:54
Operator : MJB
Sample : 0J15061-CAL6
Misc : A20H474, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:30:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:11
Operator : MJB
Sample : 0J15061-CAL7
Misc : A20H475, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:31:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.683	5.990	171.3E6	202.3E6	48.444	50.565	
22) S	DCBP (S)	9.903	10.506	121.6E6	112.4E6	48.516	46.473	
	Target Compounds							
2)	a-BHC	6.234	6.585	237.8E6	276.4E6	50.473	51.676	
3)	g-BHC	6.520	6.900	199.7E6	242.4E6	49.621	52.132	
4)	b-BHC	6.601	6.966	77551148	98666610	49.685	50.427	
5)	Heptachlor	6.919	7.273	197.0E6	235.2E6	48.534	51.388	
6)	d-BHC	6.755	7.215	170.5E6	227.1E6	50.904	51.316	
7)	Aldrin	7.162	7.537	193.9E6	228.4E6	49.359	53.499	
8)	Heptachlo...	7.631	7.971	175.7E6	201.0E6	48.059	50.063	
9)	trans-Chl...	7.723	8.110	183.0E6	206.2E6	49.697	51.813	
10)	cis-Chlor...	7.821	8.217	175.8E6	195.5E6	48.523	50.388	
11)	Endosulfa...	7.925	8.267	164.8E6	182.7E6	48.441	50.800	
12)	4,4'-DDE	7.872	8.319	165.1E6	195.7E6	52.403	52.021	
13)	Dieldrin	8.098	8.465	187.2E6	205.8E6	49.834	50.144	
14)	Endrin	8.268	8.689	138.9E6	147.3E6	50.635	51.139	
15)	4,4'-DDD	8.303	8.733	134.1E6	163.2E6	49.303	51.600	
16)	Endosulfa...	8.429	8.835	142.3E6	165.5E6	48.327	50.820	
17)	4,4'-DDT	8.498	8.957	137.9E6	158.4E6	50.422	51.434	
18)	Endrin Al...	8.724	9.071	134.3E6	146.0E6	47.014	47.993	
19)	Endosulfa...	9.030	9.264	142.5E6	162.8E6	47.692	49.007	
20)	Methoxychlor	8.831	9.423	63985860	75074553	46.482	49.009	
21)	Endrin Ke...	9.233	9.656	178.0E6	193.2E6	48.141	49.467	
23)	Hexachlor...	3.481	3.715	12969	36799	BelowCal	BelowCal	
24)	Hexachlor...	6.069	6.450	374979	21131	0.111	0.005	#
25)	Oxychlordane	7.564	7.887	829530	219488	0.255	0.061	#
26)	2,4'-DDE	7.631	8.110	175.7E6	206.2E6	81.594	83.847	
27)	trans-Non...	7.821	8.175	175.8E6	637724	48.217	0.159	#
28)	2,4'-DDD	0.000	8.465	0	205.8E6	N.D.	89.975	#
29)	2,4'-DDT	8.179	8.689	557285	147.3E6	0.256	62.777	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:11
Operator : MJB
Sample : 0J15061-CAL7
Misc : A20H475, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:31:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

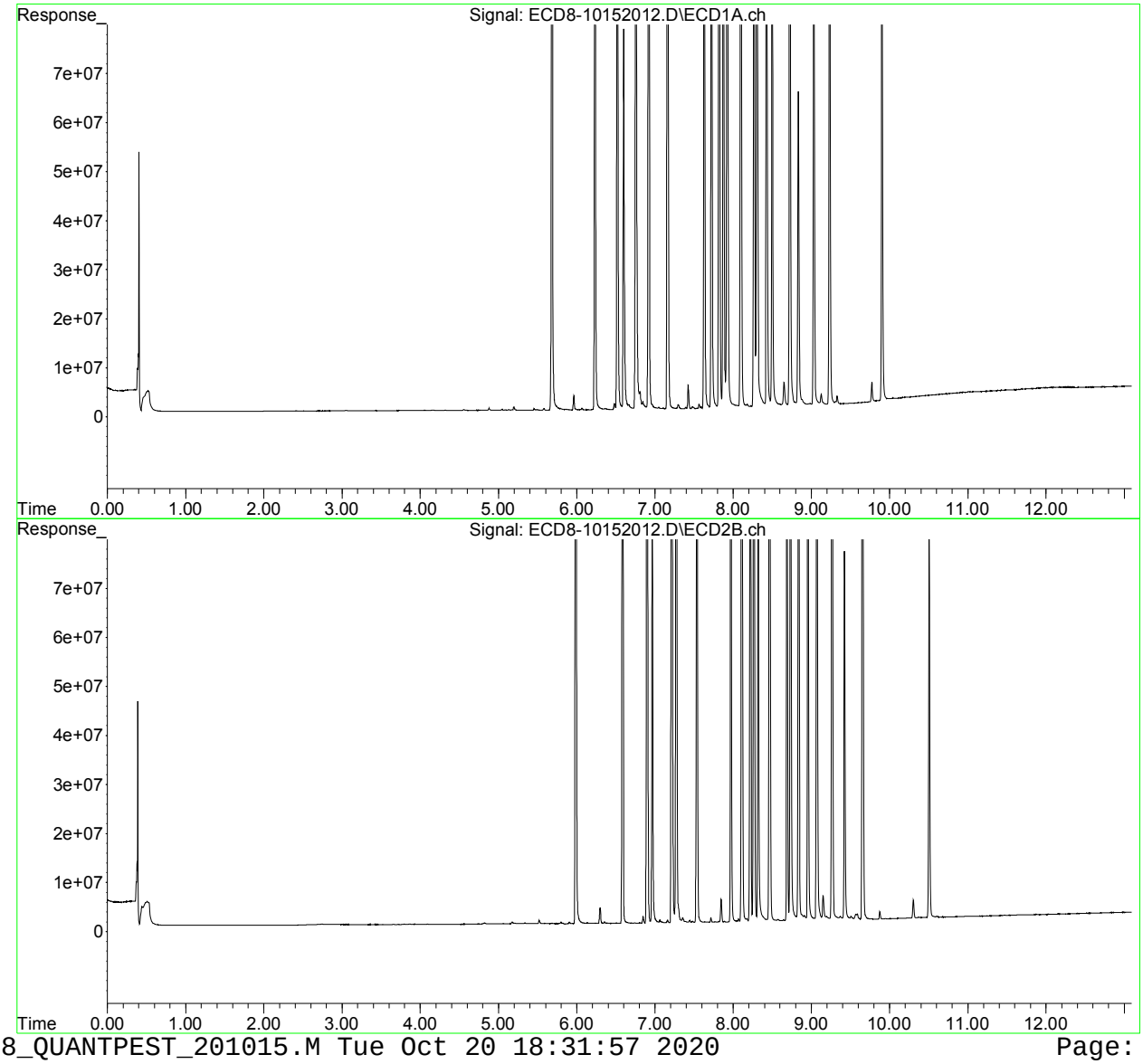
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.268	8.733	138.9E6	163.2E6	34.803	37.601	
31)	Mirex	8.964	9.656	213223	193.2E6	BelowCal	76.930	
32)	Chlordane...	7.723	8.110	183.0E6	206.2E6	444.273	423.341	
33)	Chlordane...	7.821	8.217	175.8E6	195.5E6	419.319	472.193	
34)	Chlordane...	0.000	8.875	0	1245824	N.D.	9.211	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.821	8.465f	175.8E6	205.8E6	11814.511	5414.911	#
37)	Toxaphene...	8.098	0.000	187.2E6	0	5683.784	N.D.	#
38)	Toxaphene...	8.429	8.835	142.3E6	165.5E6	2053.330	2352.685	
39)	Toxaphene...	8.649	8.875	4755814	1245824	63.905	10.457	#
40)	Toxaphene...	8.881	9.071	1098469	146.0E6	18.504	2119.882	#
41)	Toxaphene...	8.964	9.423	213223	75074553	3.167	1002.575	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:11
Operator : MJB
Sample : 0J15061-CAL7
Misc : A20H475, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:31:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:27
Operator : MJB
Sample : 0J15061-CAL8
Misc : A20H476, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:31:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.683	5.990	353.9E6	425.7E6	100.085	106.406	
22) S	DCBP (S)	9.902	10.504	254.4E6	242.3E6	101.182	100.154	
	Target Compounds							
2)	a-BHC	6.234	6.585	492.9E6	598.9E6	104.615	111.971	
3)	g-BHC	6.520	6.900	432.4E6	506.9E6	107.443	109.005	
4)	b-BHC	6.599	6.965	173.0E6	211.1E6	110.831	107.883	
5)	Heptachlor	6.918	7.273	425.5E6	500.4E6	104.835	109.320	
6)	d-BHC	6.751	7.213	384.5E6	507.6E6	105.125	104.749	
7)	Aldrin	7.160	7.536	415.8E6	476.9E6	105.847	111.713	
8)	Heptachlo...	7.629	7.970	370.1E6	442.7E6	101.228	110.241	
9)	trans-Chl...	7.722	8.110	386.7E6	449.4E6	105.008	112.897	
10)	cis-Chlor...	7.820	8.217	372.5E6	421.6E6	102.832	108.657	
11)	Endosulfa...	7.924	8.267	346.0E6	395.1E6	101.717	109.862	
12)	4,4'-DDE	7.870	8.318	362.8E6	440.1E6	115.131	105.816	
13)	Dieldrin	8.098	8.465	395.8E6	459.8E6	105.360	104.252	
14)	Endrin	8.268	8.689	308.9E6	345.9E6	112.656	107.687	
15)	4,4'-DDD	8.300	8.731	313.9E6	361.9E6	115.426	104.155	
16)	Endosulfa...	8.429	8.835	312.1E6	366.8E6	105.978	112.656	
17)	4,4'-DDT	8.497	8.956	321.4E6	373.7E6	106.851	106.702	
18)	Endrin Al...	8.724	9.070	282.4E6	319.3E6	99.188	100.997	
19)	Endosulfa...	9.030	9.264	301.0E6	361.9E6	100.718	108.930	
20)	Methoxychlor	8.827	9.422	158.4E6	181.1E6	115.051	107.480	
21)	Endrin Ke...	9.232	9.656	368.2E6	418.0E6	99.568	107.020	
23)	Hexachlor...	3.472	3.708	39913	44195	BelowCal	BelowCal	
24)	Hexachlor...	6.070	6.456	756551	169916	0.224	0.042	#
25)	Oxychlordane	7.563	7.885	1627296	541268	0.500	0.152	#
26)	2,4'-DDE	7.629	8.110	370.1E6	449.4E6	171.865	182.696	
27)	trans-Non...	7.820	8.175	372.5E6	1147906	102.184	0.287	#
28)	2,4'-DDD	8.039f	8.465	602816	459.8E6	0.310	201.029	#
29)	2,4'-DDT	8.178	8.689	1218495	345.9E6	0.560	131.602	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:27
Operator : MJB
Sample : 0J15061-CAL8
Misc : A20H476, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:31:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

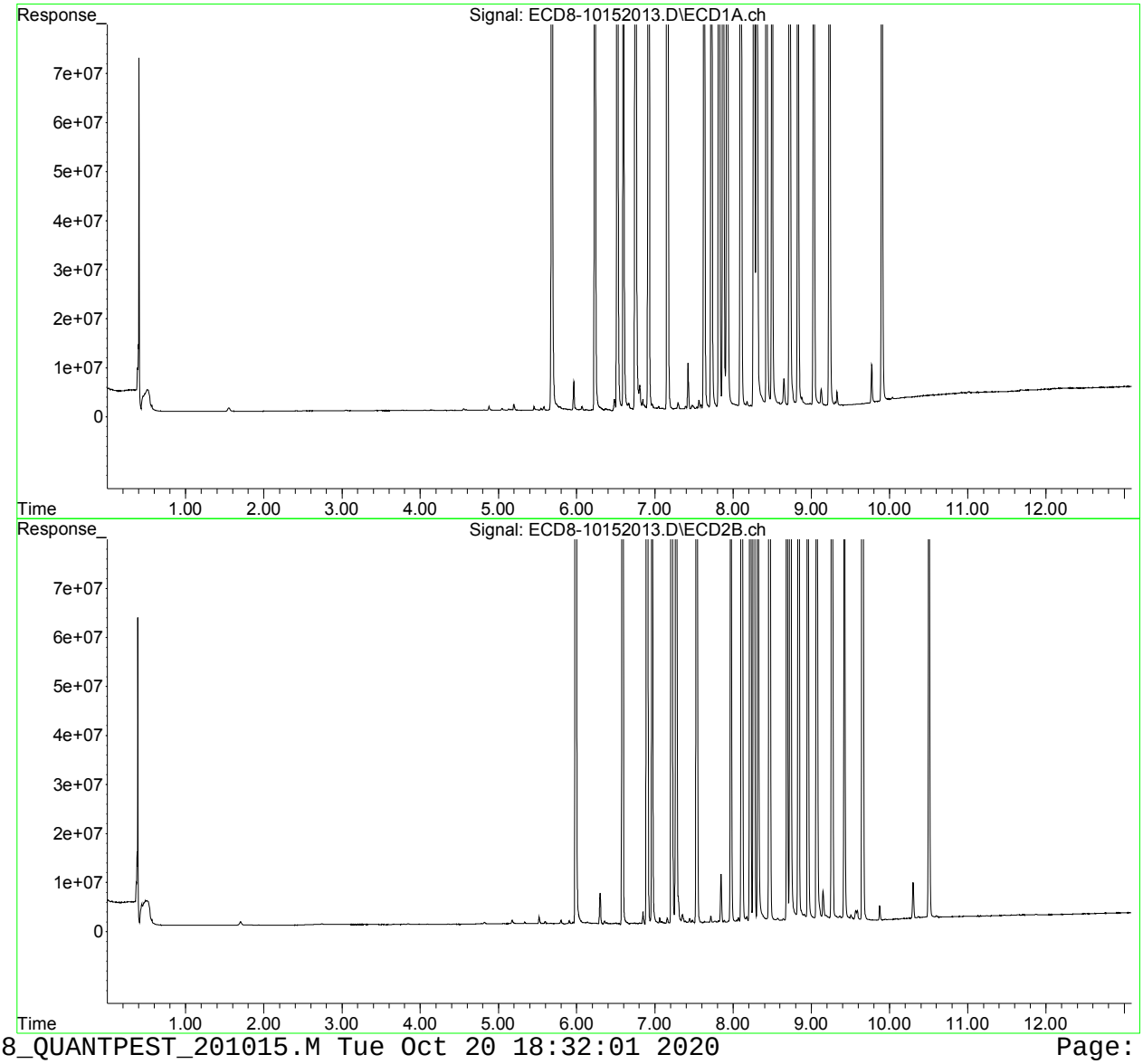
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.300	8.731	313.9E6	361.9E6	78.680	83.391	
31)	Mirex	8.958	9.656	487895	418.0E6	BelowCal	159.151	
32)	Chlordane...	7.722	8.110	386.7E6	449.4E6	938.729	922.426	
33)	Chlordane...	7.820	8.217	372.5E6	421.6E6	888.637	1018.238	
34)	Chlordane...	0.000	8.906f	0	1495013	N.D.	11.054	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.820	8.465f	372.5E6	459.8E6	25037.749	12098.394	#
37)	Toxaphene...	8.098	0.000	395.8E6	0	12016.858	N.D.	#
38)	Toxaphene...	8.429	8.835	312.1E6	366.8E6	4502.803	5215.307	
39)	Toxaphene...	8.648	8.906	5641100	1495013	75.800	12.549	#
40)	Toxaphene...	8.878	9.070	1851306	319.3E6	31.186	4635.029	#
41)	Toxaphene...	8.958	9.422f	487895	181.1E6	7.247	2419.073	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:27
Operator : MJB
Sample : 0J15061-CAL8
Misc : A20H476, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:31:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:44
Operator : MJB
Sample : 0J15061-CAL9
Misc : A20H470, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:31:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.683	5.991	707.1E6	877.5E6	199.958	219.328	
22) S	DCBP (S)	9.903	10.505	508.9E6	513.8E6	200.396	212.372	
	Target Compounds							
2)	a-BHC	6.234	6.586	999.0E6	1264.9E6	212.042	236.485	
3)	g-BHC	6.520	6.901	875.8E6	1095.4E6	217.618	235.537	
4)	b-BHC	6.599	6.966	348.7E6	427.2E6	223.404	218.338	
5)	Heptachlor	6.919	7.274	860.4E6	1063.1E6	211.990	232.284	
6)	d-BHC	6.752	7.214	812.4E6	1082.6E6	195.029	194.947	
7)	Aldrin	7.161	7.537	808.8E6	985.1E6	205.899	230.744	
8)	Heptachlo...	7.630	7.971	738.1E6	893.9E6	201.897	222.584	
9)	trans-Chl...	7.723	8.111	771.1E6	928.7E6	209.378	233.339	
10)	cis-Chlor...	7.820	8.218	744.5E6	889.6E6	205.523	229.305	
11)	Endosulfa...	7.924	8.267	695.9E6	827.3E6	204.590	230.023	
12)	4,4'-DDE	7.870	8.319	733.3E6	932.3E6	232.716	193.902	
13)	Dieldrin	8.098	8.466	785.1E6	964.7E6	208.979	195.757	
14)	Endrin	8.267	8.689	618.0E6	717.2E6	225.373	193.184	
15)	4,4'-DDD	8.300	8.732	624.8E6	785.4E6	229.726	195.491	
16)	Endosulfa...	8.429	8.835	627.2E6	777.0E6	212.956	238.645	
17)	4,4'-DDT	8.497	8.957	664.3E6	806.5E6	193.766	193.667	
18)	Endrin Al...	8.724	9.070	583.5E6	684.2E6	205.164	201.324	
19)	Endosulfa...	9.030	9.265	596.2E6	743.8E6	199.484	223.866	
20)	Methoxychlor	8.828	9.422	315.4E6	372.5E6	229.151	194.544	
21)	Endrin Ke...	9.232	9.656	755.0E6	903.6E6	204.160	231.313	
23)	Hexachlor...	3.477	3.718	10639	36591	BelowCal	BelowCal	
24)	Hexachlor...	6.069	6.453	1365555	51879	0.404	0.013	#
25)	Oxychlordane	7.563	7.886	3135692	607096	0.963	0.170	#
26)	2,4'-DDE	7.630	8.111	738.1E6	928.7E6	342.781	377.603	
27)	trans-Non...	7.820	8.175	744.5E6	1864329	204.229	0.466	#
28)	2,4'-DDD	8.009	8.466	1349192	964.7E6	0.694	421.751	#
29)	2,4'-DDT	8.177	8.689	2245182	717.2E6	1.032	234.852	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:44
Operator : MJB
Sample : 0J15061-CAL9
Misc : A20H470, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:31:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

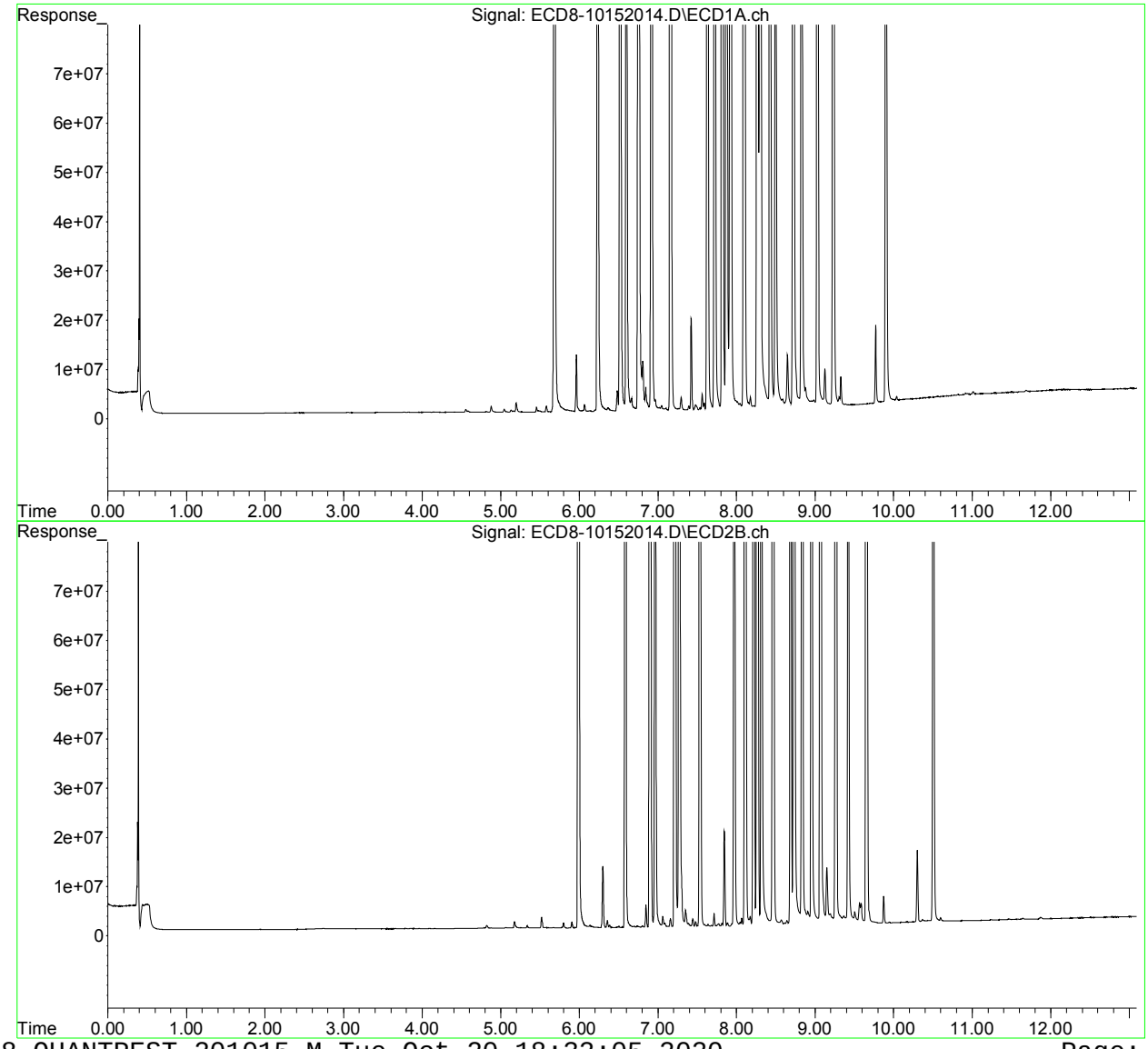
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.300	8.732	624.8E6	785.4E6	156.593	180.952	
31)	Mirex	8.961	9.656	998875	903.6E6	0.122	316.534	#
32)	Chlordane...	7.723	8.111	771.1E6	928.7E6	1871.751	1906.504	
33)	Chlordane...	7.820	8.218	744.5E6	889.6E6	1776.066	2148.856	
34)	Chlordane...	0.000	8.835f	0	777.0E6	N.D.	5745.103	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.820	8.466f	744.5E6	964.7E6	50041.481	25382.040	#
37)	Toxaphene...	8.098	0.000	785.1E6	0	23835.220	N.D.	#
38)	Toxaphene...	8.429	8.835	627.2E6	777.0E6	9048.138	11047.867	
39)	Toxaphene...	8.647	8.907	10582094	2687443	142.193	22.558	#
40)	Toxaphene...	8.880	9.070	3719464	684.2E6	62.656	9932.263	#
41)	Toxaphene...	8.961	9.422f	998875	372.5E6	14.837	4974.796	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:44
Operator : MJB
Sample : 0J15061-CAL9
Misc : A20H470, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:31:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:33
Operator : MJB
Sample : 0J15061-CALA
Misc : A20J276, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:40:51 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.684	6.009	18070	209078	0.005	0.052	#
22) S	DCBP (S)	9.909	10.508	226604	71433	BelowCal	0.030	
	Target Compounds							
2)	a-BHC	6.234	6.585	93052	100504	0.020	0.019	
3)	g-BHC	6.521	6.900	89900	82075	0.022	0.018	
4)	b-BHC	6.613	6.972	50932	78741	0.033	0.040	
5)	Heptachlor	6.921	7.273	59866	71674	0.015	0.016	
6)	d-BHC	6.766	7.220	144823	197447	0.105	0.116	
7)	Aldrin	7.164	7.539	53417	61917	0.014	0.015	
8)	Heptachlo...	7.627	7.971	1201503	91636	0.329	0.023	#
9)	trans-Chl...	7.727	8.100	83452	1304771	0.023	0.328	#
10)	cis-Chlor...	7.810	8.218	2163375	136666	0.597	0.035	#
11)	Endosulfa...	7.928	8.270	83914	83552	0.025	0.023	
12)	4,4'-DDE	7.879	8.324	140677	78162	0.045	0.071	#
13)	Dieldrin	8.102	8.471	71440	1319106	0.019	0.361	#
14)	Endrin	8.289f	8.691	2361680	1355429	0.861	0.550	#
15)	4,4'-DDD	8.289	8.737	2361680	2474139	0.868	0.866	
16)	Endosulfa...	8.438	8.840	95320	119722	0.032	0.037	
17)	4,4'-DDT	8.504	8.962	75573	95652	0.062	0.099	#
18)	Endrin Al...	8.731	9.074	328585	336359	BelowCal	BelowCal	
19)	Endosulfa...	9.035	9.267	228719	267471	0.077	0.080	
20)	Methoxychlor	8.838	9.425	37403	58164	0.027	BelowCal	#
21)	Endrin Ke...	9.237	9.647	196289	1941278	0.053	0.497	#
23)	Hexachlor...	3.475	3.703	2239091	2507236	0.499	0.500	
24)	Hexachlor...	6.070	6.454	1970418	2349149	0.589	0.590	
25)	Oxychlordane	7.556	7.904	1937874	2061148	0.600	0.586	
26)	2,4'-DDE	7.627	8.100	1201503	1304771	0.565	0.538	
27)	trans-Non...	7.810	8.179	2163375	2327996	0.599	0.590	
28)	2,4'-DDD	8.006	8.471	1125210	1319106	0.586	0.484	
29)	2,4'-DDT	8.185	8.691	1221609	1355429	0.569	0.511	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:33
Operator : MJB
Sample : 0J15061-CALA
Misc : A20J276, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:40:51 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

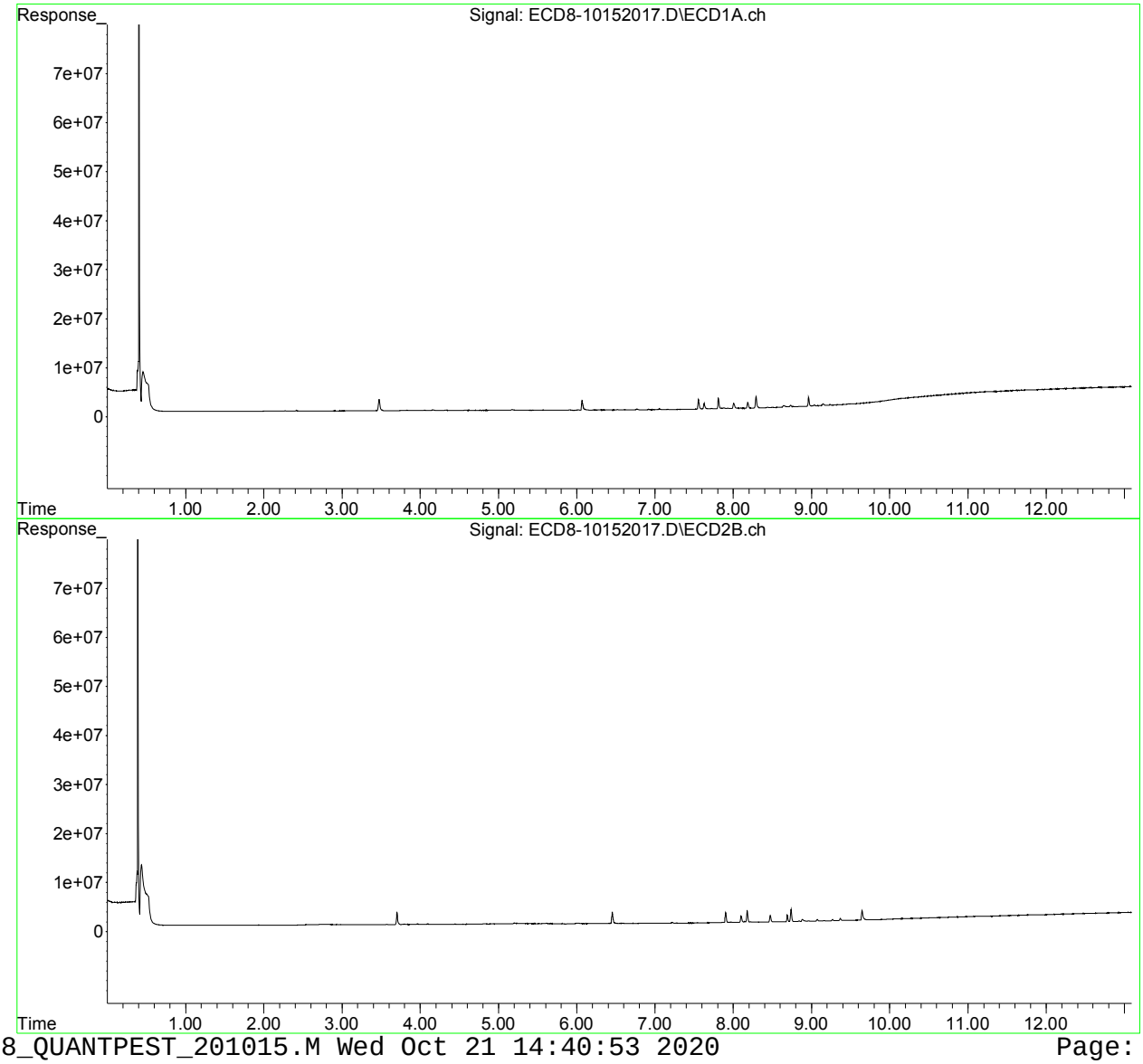
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.289	8.737	2361680	2474139	0.599	0.578	
31)	Mirex	8.964	9.647	1825977	1941278	0.473	0.478	
32)	Chlordane...	7.727	8.100	83452	1304771	0.203	2.678	#
33)	Chlordane...	7.810	8.218	2163375	136666	5.161	0.330	#
34)	Chlordane...	8.382	8.884	14003	405965	0.109	3.002	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.810	8.442	2163375	4857	145.420	0.128	#
37)	Toxaphene...	8.102	8.798	71440	28661	2.169	0.608	#
38)	Toxaphene...	8.438	8.840	95320	119722	1.375	1.702	
39)	Toxaphene...	8.643	8.884	304431	405965	4.091	3.408	
40)	Toxaphene...	0.000	9.074	0	336359	N.D.	4.883	#
41)	Toxaphene...	8.964	9.445	1825977	16925	27.122	0.226	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:33
Operator : MJB
Sample : 0J15061-CALA
Misc : A20J276, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:40:51 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:50
Operator : MJB
Sample : 0J15061-CALB
Misc : A20I180, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:40:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.653f	5.991	31493	60808	0.009	0.015	#
22)	S	DCBP (S)	9.909	10.509	227878	57712	BelowCal	0.024	
		Target Compounds							
2)		a-BHC	6.234	6.584	100774	127193	0.021	0.024	
3)		g-BHC	6.519	6.900	134304	112671	0.033	0.024	#
4)		b-BHC	6.613	6.971	65424	100009	0.042	0.051	
5)		Heptachlor	6.920	7.274	99120	123162	0.024	0.027	
6)		d-BHC	6.763	7.218	166725	226780	0.112	0.123	
7)		Aldrin	7.163	7.537	82327	95571	0.021	0.022	
8)		Heptachlo...	7.626	7.971	2330761	135674	0.638	0.034	#
9)		trans-Chl...	7.726	8.099	213854	2507932	0.058	0.630	#
10)		cis-Chlor...	7.809	8.217	3910682	214545	1.080	0.055	#
11)		Endosulfa...	7.927	8.269	90017	117700	0.026	0.033	
12)		4,4'-DDE	7.865	8.322	110138	100769	0.035	0.077	#
13)		Dieldrin	8.100	8.470	109817	2545735	0.029	0.682	#
14)		Endrin	8.288f	8.691	4530614	2394823	1.652	0.952	#
15)		4,4'-DDD	8.288	8.737	4530614	4587763	1.666	1.602	
16)		Endosulfa...	8.436	8.838	122633	142804	0.042	0.044	
17)		4,4'-DDT	8.502	8.959	53824	80050	0.054	0.093	#
18)		Endrin Al...	8.729	9.073	292807	306207	BelowCal	BelowCal	
19)		Endosulfa...	9.034	9.266	222830	221707	0.075	0.067	
20)		Methoxychlor	8.835	9.425	32315	41646	0.023	BelowCal	#
21)		Endrin Ke...	9.237	9.646	178999	3435505	0.048	0.880	#
23)		Hexachlor...	3.474	3.703	3774672	4324213	0.991	0.998	
24)		Hexachlor...	6.070	6.454	3664461	4208870	1.095	1.058	
25)		Oxychlordane	7.555	7.903	3610716	3742926	1.118	1.063	
26)		2,4'-DDE	7.626	8.099	2330761	2507932	1.096	1.034	
27)		trans-Non...	7.809	8.178	3910682	4195390	1.082	1.064	
28)		2,4'-DDD	8.004	8.470	2191428	2545735	1.141	1.098	
29)		2,4'-DDT	8.183	8.691	2264292	2394823	1.055	1.017	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:50
Operator : MJB
Sample : 0J15061-CALB
Misc : A20I180, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:40:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

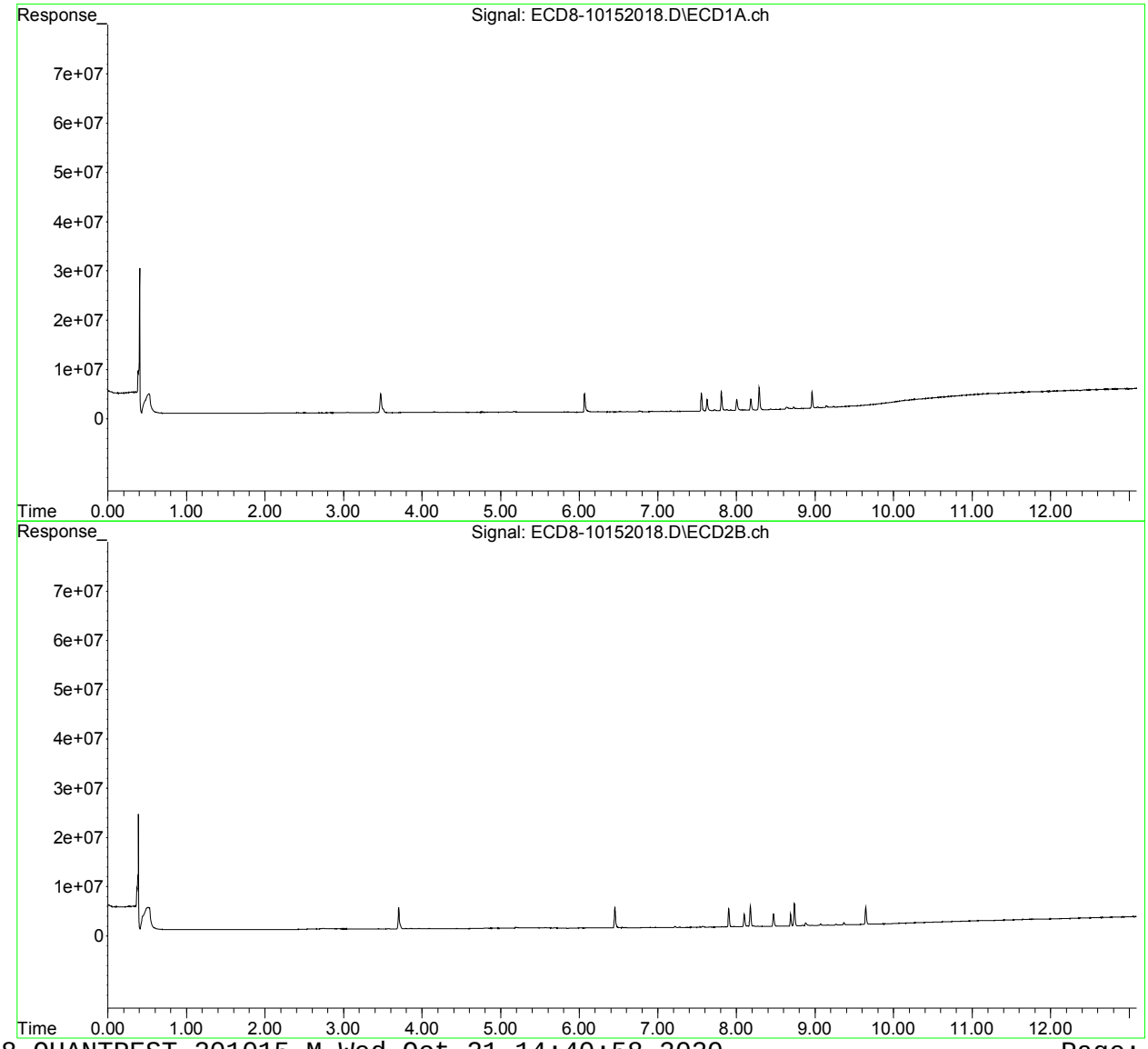
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.288	8.737	4530614	4587763	1.149	1.072	
31)	Mirex	8.963	9.646	3315145	3435505	1.110	1.111	
32)	Chlordane...	7.726	8.099	213854	2507932	0.519	5.148	#
33)	Chlordane...	7.809	8.217	3910682	214545	9.330	0.518	#
34)	Chlordane...	8.379	8.882	10822	554202	0.084	4.098	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.809	8.431	3910682	5400	262.872	0.142	#
37)	Toxaphene...	8.100	8.792	109817	37481	3.334	0.795	#
38)	Toxaphene...	8.436	8.838	122633	142804	1.769	2.030	
39)	Toxaphene...	8.638	8.882	396827	554202	5.332	4.652	
40)	Toxaphene...	8.891	9.073	8692	306207	0.146	4.445	#
41)	Toxaphene...	8.963	9.425	3315145	41646	49.241	0.556	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:50
Operator : MJB
Sample : 0J15061-CALB
Misc : A20I180, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:40:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:06
Operator : MJB
Sample : 0J15061-CALC
Misc : A20I181, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.653f	5.988	76897	55228	0.022	0.014	#
22) S	DCBP (S)	9.870f	10.515	163145	58933	BelowCal	0.024	
	Target Compounds							
2)	a-BHC	6.232	6.584	36736	55011	0.008	0.010	#
3)	g-BHC	6.519	6.900	55408	36804	0.014	0.008	#
4)	b-BHC	6.612	6.971	33171	67533	0.021	0.035	#
5)	Heptachlor	6.920	7.273	51196	61676	0.013	0.013	
6)	d-BHC	6.766	7.218	101430	148814	0.091	0.104	
7)	Aldrin	7.165	7.538	31631	41785	0.008	0.010	
8)	Heptachlo...	7.624	7.971	3901157	87541	1.067	0.022	#
9)	trans-Chl...	7.721	8.099	209465	4384687	0.057	1.102	#
10)	cis-Chlor...	7.809	8.215	6858041	210510	1.893	0.054	#
11)	Endosulfa...	7.928	8.267	81766	89349	0.024	0.025	
12)	4,4'-DDE	7.878	8.323	198690	77077	0.063	0.070	
13)	Dieldrin	8.100	8.469	93835	4129327	0.025	1.095	#
14)	Endrin	8.288	8.690	7468006	3988690	2.723	1.565	#
15)	4,4'-DDD	8.288	8.736	7468006	7629694	2.746	2.658	
16)	Endosulfa...	8.435	8.838	94701	118264	0.032	0.036	
17)	4,4'-DDT	8.504	8.958	53928	84295	0.054	0.095	#
18)	Endrin Al...	8.729	9.072	216411	211304	BelowCal	BelowCal	
19)	Endosulfa...	9.034	9.266	200784	206297	0.067	0.062	
20)	Methoxychlor	8.837	9.425	34766	43547	0.025	BelowCal	#
21)	Endrin Ke...	9.236	9.645	160941	5403191	0.044	1.383	#
23)	Hexachlor...	3.474	3.703	7127380	8105552	2.064	2.032	
24)	Hexachlor...	6.069	6.453	6539006	7438773	1.955	1.869	
25)	Oxychlordane	7.554	7.903	6208420	6625326	1.922	1.882	
26)	2,4'-DDE	7.624	8.099	3901157	4384687	1.834	1.807	
27)	trans-Non...	7.809	8.177	6858041	7161689	1.898	1.816	
28)	2,4'-DDD	8.004	8.469	3682349	4129327	1.917	1.890	
29)	2,4'-DDT	8.183	8.690	3742080	3988690	1.744	1.790	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:06
Operator : MJB
Sample : 0J15061-CALC
Misc : A20I181, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

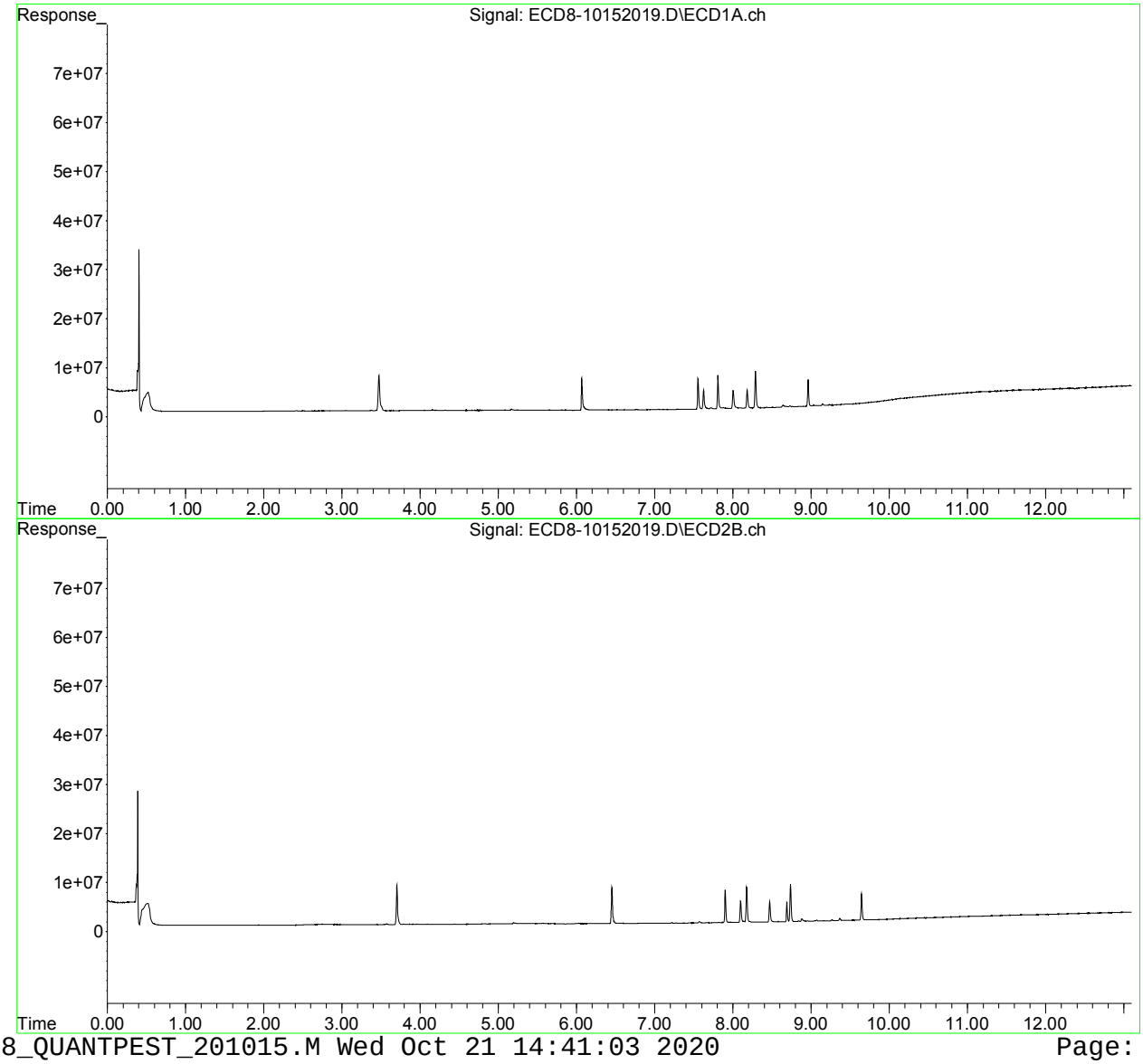
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.288	8.736	7468006	7629694	1.894	1.784	
31)	Mirex	8.963	9.645	5444461	5403191	2.022	1.943	
32)	Chlordane...	7.721	8.099	209465	4384687	0.508	9.001	#
33)	Chlordane...	7.809	8.215	6858041	210510	16.361	0.508	#
34)	Chlordane...	8.377	8.883	13321	504118	0.103	3.727	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.809	8.435	6858041	5693	460.990	0.150	#
37)	Toxaphene...	8.100	8.797	93835	44023	2.849	0.934	#
38)	Toxaphene...	8.414	8.838	8675	118264	0.125	1.681	#
39)	Toxaphene...	8.639	8.883	362816	504118	4.875	4.232	
40)	Toxaphene...	8.905	9.072	36426	211304	0.614	3.067	#
41)	Toxaphene...	8.963	9.444	5444461	12398	80.868	0.166	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:06
Operator : MJB
Sample : 0J15061-CALC
Misc : A20I181, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:23
Operator : MJB
Sample : 0J15061-CALD
Misc : A20I182, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.654f	5.990	161204	56742	0.046	0.014	#
22) S	DCBP (S)	9.907	10.510	170802	55345	BelowCal	0.023	
	Target Compounds							
2)	a-BHC	6.261f	6.583	11203	61900	0.002	0.012	#
3)	g-BHC	6.517	6.899	54878	17586	0.014	0.004	#
4)	b-BHC	6.610	6.971	21928	44052	0.014	0.023	#
5)	Heptachlor	6.920	7.273	60051	70226	0.015	0.015	
6)	d-BHC	6.762	7.217	78565	115968	0.084	0.096	
7)	Aldrin	0.000	7.535	0	28019	N.D.	0.007	#
8)	Heptachlo...	7.624	7.969	9576140	84549	2.619	0.021	#
9)	trans-Chl...	7.723	8.098	166925	10816208	0.045	2.718	#
10)	cis-Chlor...	7.808	8.177f	16788723	17453607	4.635	4.499	
11)	Endosulfa...	7.918	8.269	71327	69168	0.021	0.019	
12)	4,4'-DDE	7.911f	8.325	78394	44620	0.025	0.061	#
13)	Dieldrin	8.118f	8.470	42380	9938801	0.011	2.607	#
14)	Endrin	8.254	8.690	32820	10115568	0.012	3.908	#
15)	4,4'-DDD	8.288	8.736	17869077	18893080	6.570	6.527	
16)	Endosulfa...	8.433	8.838	47811	70495	0.016	0.022	#
17)	4,4'-DDT	8.499	8.959	26245	60375	0.043	0.086	#
18)	Endrin Al...	8.727	9.072	166972	144100	BelowCal	BelowCal	
19)	Endosulfa...	9.030	9.266	133927	101937	0.045	0.031	#
20)	Methoxychlor	8.827	9.424	12277	23307	0.009	BelowCal	#
21)	Endrin Ke...	9.235	9.645	67133	12160597	0.018	3.113	#
23)	Hexachlor...	3.474	3.702	16458450	18933435	5.041	4.977	
24)	Hexachlor...	6.070	6.453	15453104	17842730	4.620	4.483	
25)	Oxychlordane	7.554	7.903	15094980	15610146	4.674	4.435	
26)	2,4'-DDE	7.624	8.098	9576140	10816208	4.502	4.457	
27)	trans-Non...	7.808	8.177	16788723	17453607	4.646	4.427	
28)	2,4'-DDD	8.003	8.470	8751372	9938801	4.555	4.781	
29)	2,4'-DDT	8.182	8.690	9587017	10115568	4.467	4.739	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:23
Operator : MJB
Sample : 0J15061-CALD
Misc : A20I182, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

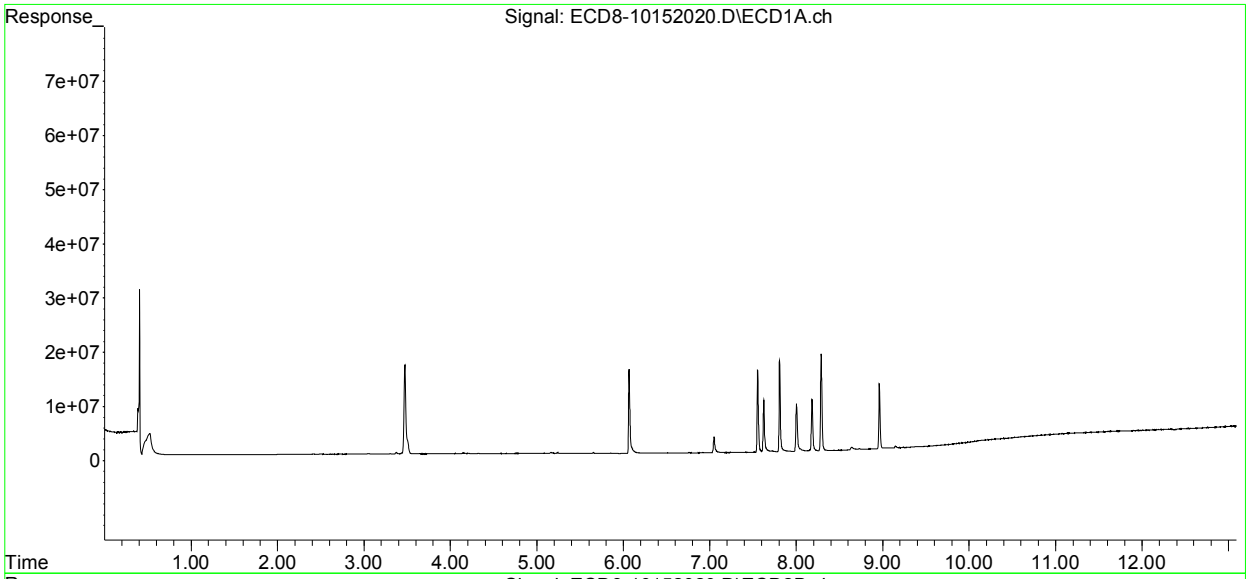
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.288	8.736	17869077	18893080	4.531	4.416	
31)	Mirex	8.962	9.645	12051077	12160597	4.850	4.794	
32)	Chlordane...	7.723	8.098	166925	10816208	0.405	22.203	#
33)	Chlordane...	7.808	8.177f	16788723	17453607	40.053	42.158	
34)	Chlordane...	8.378	8.882	31843	679236	0.247	5.022	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.808	8.437	16788723	5142	1128.519	0.135	#
37)	Toxaphene...	8.118	8.815f	42380	50071	1.287	1.062	
38)	Toxaphene...	8.433	8.815	47811	50071	0.690	0.712	
39)	Toxaphene...	8.674	8.882	140585	679236	1.889	5.702	#
40)	Toxaphene...	8.892	9.072	9412	144100	0.159	2.092	#
41)	Toxaphene...	8.962	9.440	12051077	15320	178.998	0.205	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

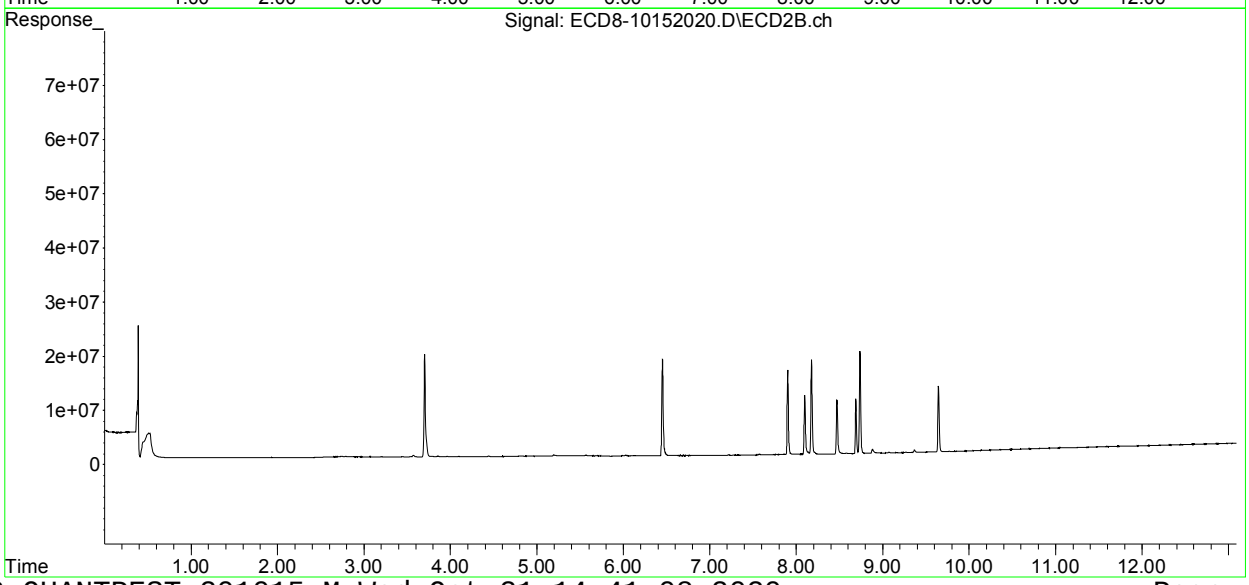
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:23
Operator : MJB
Sample : 0J15061-CALD
Misc : A20I182, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:39
Operator : MJB
Sample : 0J15061-CALE
Misc : A20I183, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.653f	5.990	308301	47048	0.087	0.012	#
22) S	DCBP (S)	0.000	10.475f	0	49871	N.D.	0.021	#
	Target Compounds							
2)	a-BHC	6.232	6.582	52846	75796	0.011	0.014	#
3)	g-BHC	6.516	6.900	71042	31767	0.018	0.007	#
4)	b-BHC	6.607	6.969	38280	57608	0.025	0.029	
5)	Heptachlor	6.920	7.273	108402	126920	0.027	0.028	
6)	d-BHC	6.762	7.218	102619	141068	0.091	0.102	
7)	Aldrin	7.160	7.539	24229	31842	0.006	0.007	
8)	Heptachlo...	7.624	7.968	20166332	114181	5.516	0.028	#
9)	trans-Chl...	7.723	8.098	276417	22142201	0.075	5.563	#
10)	cis-Chlor...	7.808	8.177f	34482563	35712472	9.520	9.205	
11)	Endosulfa...	7.906	8.265	148934	115264	0.044	0.032	#
12)	4,4'-DDE	7.906f	8.324	148934	80700	0.047	0.071	#
13)	Dieldrin	8.075f	8.469	348958	20436379	0.093	5.322	#
14)	Endrin	8.287	8.690	37147659	20908468	13.546	7.978	#
15)	4,4'-DDD	8.287	8.735	37147659	39146339	13.659	13.336	
16)	Endosulfa...	8.437	8.837	69817	101068	0.024	0.031	#
17)	4,4'-DDT	8.500	8.955	39678	66318	0.048	0.088	#
18)	Endrin Al...	8.728	9.072	170430	146134	BelowCal	BelowCal	
19)	Endosulfa...	9.032	9.268	143522	100929	0.048	0.030	#
20)	Methoxychlor	8.839	9.425	17455	24874	0.013	BelowCal	#
21)	Endrin Ke...	9.236	9.645	73575	24471276	0.020	6.265	#
23)	Hexachlor...	3.475	3.703	31387777	36173041	9.780	9.614	
24)	Hexachlor...	6.069	6.453	31515539	36065499	9.421	9.062	
25)	Oxychlordane	7.554	7.903	30846461	33196377	9.552	9.432	
26)	2,4'-DDE	7.624	8.098	20166332	22142201	9.481	9.125	
27)	trans-Non...	7.808	8.177	34482563	35712472	9.543	9.057	
28)	2,4'-DDD	8.003	8.469	17648727	20436379	9.185	9.953	
29)	2,4'-DDT	8.182	8.690	19702359	20908468	9.181	9.848	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:39
Operator : MJB
Sample : 0J15061-CALE
Misc : A20I183, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

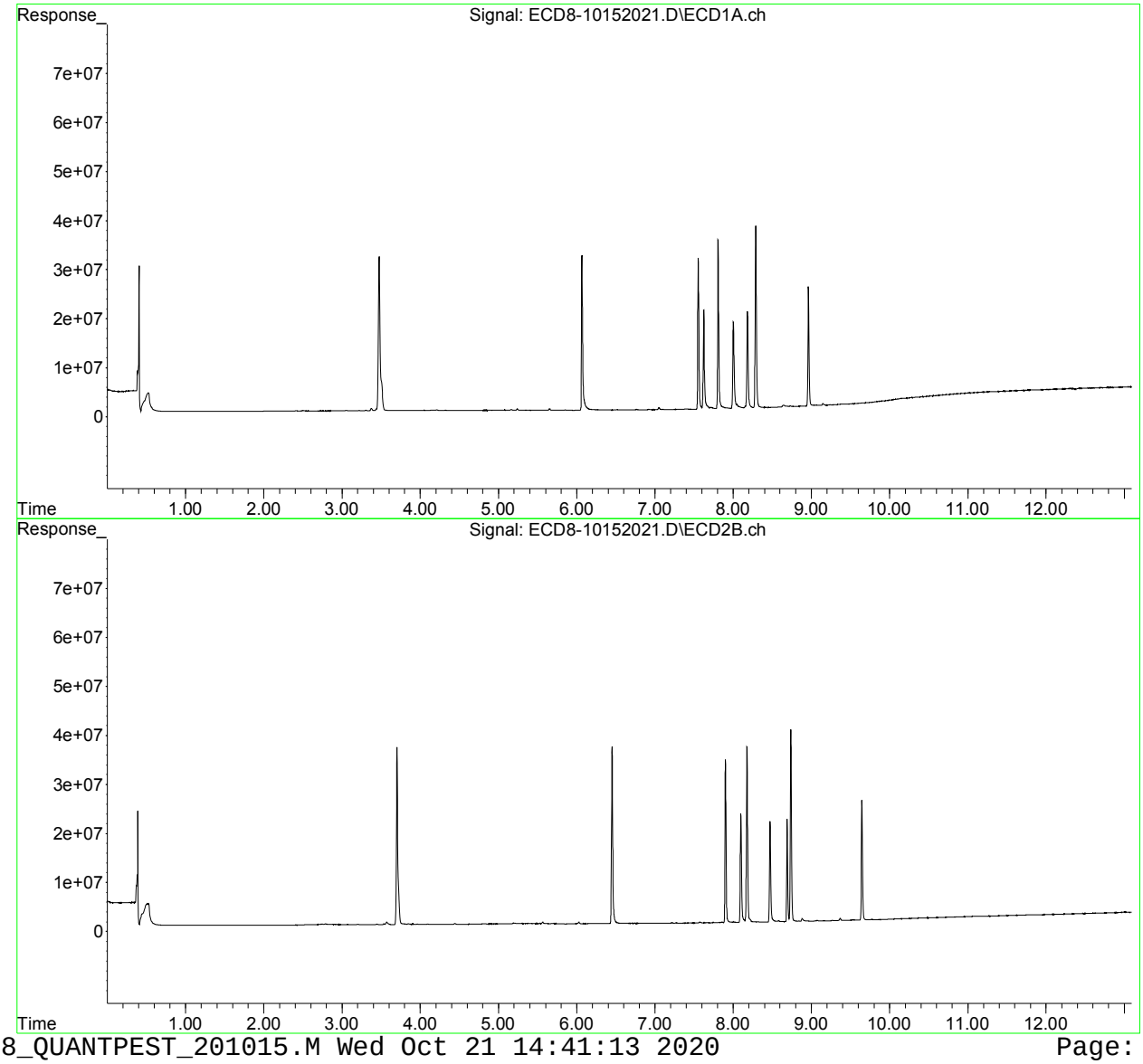
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.287	8.735	37147659	39146339	9.420	9.151	
31)	Mirex	8.962	9.645	24373423	24471276	10.122	9.960	
32)	Chlordane...	7.723	8.098	276417	22142201	0.671	45.453	#
33)	Chlordane...	7.808	8.177f	34482563	35712472	82.266	86.262	
34)	Chlordane...	8.397	8.883	44340	499890	0.344	3.696	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.808	8.469f	34482563	20436379	2317.879	537.721	#
37)	Toxaphene...	8.075f	0.000	348958	0	10.594	N.D.	#
38)	Toxaphene...	8.437	8.837	69817	101068	1.007	1.437	#
39)	Toxaphene...	8.642	8.883	378889	499890	5.091	4.196	
40)	Toxaphene...	8.880	9.072	6469	146134	0.109	2.121	#
41)	Toxaphene...	8.962	9.445	24373423	18132	362.025	0.242	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:39
Operator : MJB
Sample : 0J15061-CALE
Misc : A20I183, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:56
Operator : MJB
Sample : 0J15061-CALF
Misc : A20I184, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.654f	5.957f	737705	12435	0.209	0.003	#
22) S	DCBP (S)	9.910	10.509	230997	61427	BelowCal	0.025	
	Target Compounds							
2)	a-BHC	6.226	6.581	189049	168684	0.040	0.032	
3)	g-BHC	6.509	6.897	93727	48894	0.023	0.011	#
4)	b-BHC	6.609	6.969	62236	87490	0.040	0.045	
5)	Heptachlor	6.919	7.273	261345	276988	0.064	0.061	
6)	d-BHC	6.760	7.215	94746	131126	0.089	0.100	
7)	Aldrin	7.165	7.532	13711	25429	0.003	0.006	#
8)	Heptachlo...	7.622	8.008f	52220273	313025	14.283	0.078	#
9)	trans-Chl...	7.722	8.097	433970	59909816	0.118	15.052	#
10)	cis-Chlor...	7.807	0.000	88005937	0	24.296	N.D.	#
11)	Endosulfa...	7.915	8.265	260962	166304	0.077	0.046	#
12)	4,4'-DDE	7.907f	8.326	262010	159299	0.083	0.095	
13)	Dieldrin	8.075f	8.468	757137	53380696	0.202	13.705	#
14)	Endrin	8.286	8.690	93575402	58013258	34.122	21.446	#
15)	4,4'-DDD	8.286	8.735	93575402	103.3E6	34.407	33.785	
16)	Endosulfa...	8.436	8.836	97417	128880	0.033	0.040	
17)	4,4'-DDT	8.502	8.948	62478	104018	0.057	0.102	#
18)	Endrin Al...	8.726	9.076	189061	176780	BelowCal	BelowCal	
19)	Endosulfa...	9.029	9.265	188411	96055	0.063	0.029	#
20)	Methoxychlor	8.832	9.419	15370	20156	0.011	BelowCal	#
21)	Endrin Ke...	9.235	9.645	71724	60834363	0.019	15.574	#
23)	Hexachlor...	3.475	3.703	78802280	94309654	24.628	24.815	
24)	Hexachlor...	6.069	6.453	79779430	94109412	23.850	23.646	
25)	Oxychlordane	7.553	7.902	77425998	84676703	23.975	24.058	
26)	2,4'-DDE	7.622	8.097	52220273	59909816	24.552	24.688	
27)	trans-Non...	7.807	8.177	88005937	95054160	24.356	24.108	
28)	2,4'-DDD	8.001	8.468	46590623	53380696	24.249	25.777	
29)	2,4'-DDT	8.181	8.690	52493263	58013258	24.461	26.651	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:56
Operator : MJB
Sample : 0J15061-CALF
Misc : A20I184, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

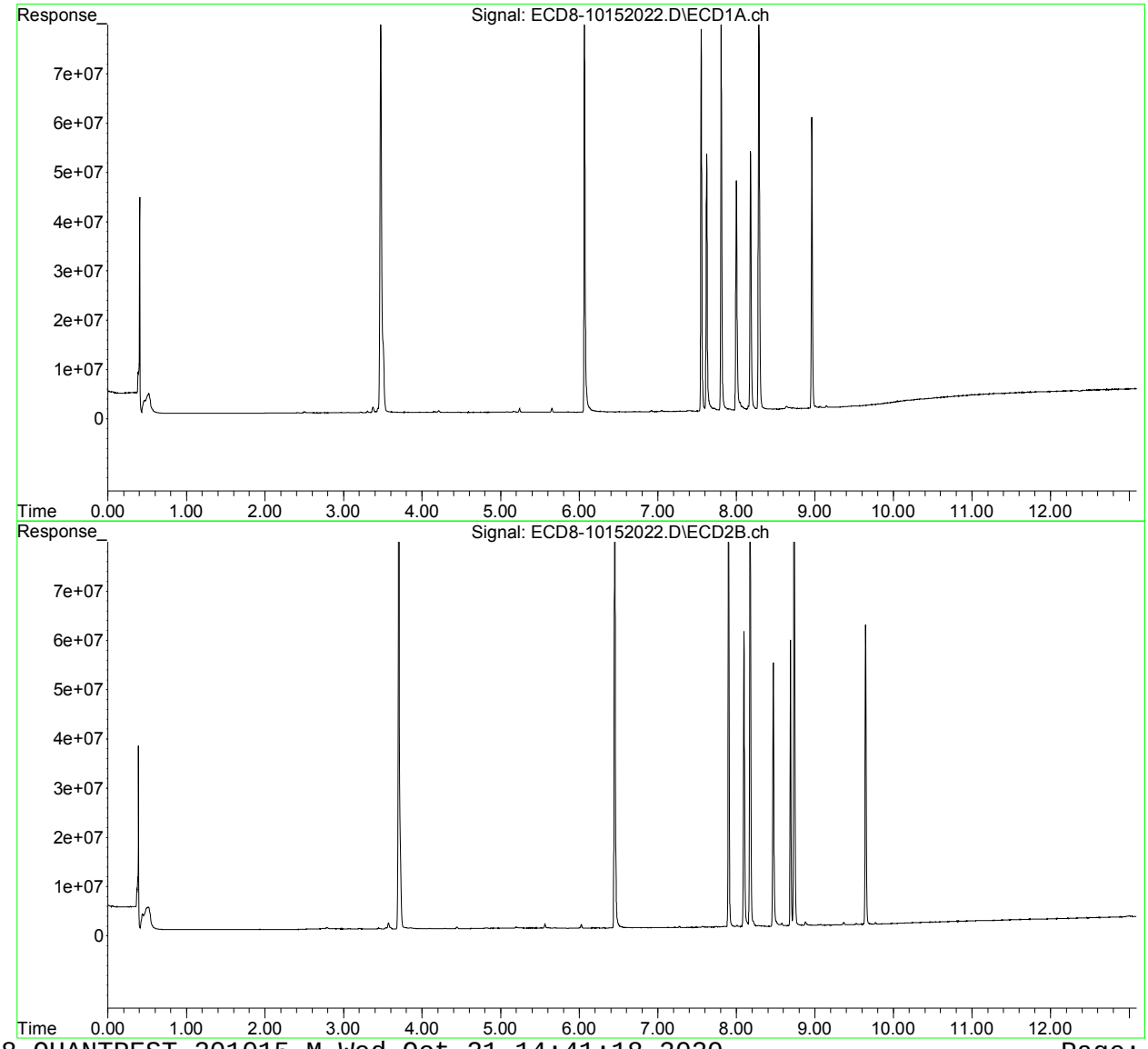
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.286	8.735	93575402	103.3E6	23.728	24.142	
31)	Mirex	8.962	9.645	59074282	60834363	24.948	25.004	
32)	Chlordane...	7.722	8.097	433970	59909816	1.053	122.983	#
33)	Chlordane...	7.807	8.177f	88005937	95054160	209.958	229.598	
34)	Chlordane...	0.000	8.879	0	686959	N.D.	5.079	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.807	8.419f	88005937	16175	5915.661	0.426	#
37)	Toxaphene...	8.075f	0.000	757137	0	22.986	N.D.	#
38)	Toxaphene...	8.436	8.836	97417	128880	1.405	1.832	#
39)	Toxaphene...	8.637	8.879	557909	686959	7.497	5.766	
40)	Toxaphene...	8.886	9.076	7924	176780	0.133	2.566	#
41)	Toxaphene...	8.962	9.447	59074282	18915	877.447	0.253	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:56
Operator : MJB
Sample : 0J15061-CALF
Misc : A20I184, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:12
Operator : MJB
Sample : 0J15061-CALG
Misc : A20I185, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.653f	5.989	1358241	48984	0.384	0.012	#
22) S	DCBP (S)	9.883	10.512	161998	38221	BelowCal	0.016	
	Target Compounds							
2)	a-BHC	6.228	6.625f	308160	92113	0.065	0.017	#
3)	g-BHC	6.520	6.899	80112	27503	0.020	0.006	#
4)	b-BHC	6.610	6.971	61477	70350	0.039	0.036	
5)	Heptachlor	6.920	7.273	427192	459407	0.105	0.100	
6)	d-BHC	6.762	7.218	99669	123514	0.091	0.098	
7)	Aldrin	7.163	7.530	23107	37776	0.006	0.009	#
8)	Heptachlo...	7.621	8.008f	103.4E6	530245	28.273	0.132	#
9)	trans-Chl...	7.722	8.096	715480	117.8E6	0.194	29.596	#
10)	cis-Chlor...	7.807	0.000	169.1E6	0	46.675	N.D.	#
11)	Endosulfa...	7.916	8.268	528687	319301	0.155	0.089	#
12)	4,4'-DDE	0.000	8.325	0	358718	N.D.	0.154	#
13)	Dieldrin	8.074f	8.467	1337325	107.8E6	0.356	27.128	#
14)	Endrin	8.286	8.689	183.9E6	120.3E6	67.075	42.512	#
15)	4,4'-DDD	8.286	8.735	183.9E6	208.4E6	67.634	64.352	
16)	Endosulfa...	8.437	0.000	194510	0	0.066	N.D.	#
17)	4,4'-DDT	8.498	8.947	139525	180426	0.088	0.130	#
18)	Endrin Al...	8.725	9.076	237291	243893	BelowCal	BelowCal	
19)	Endosulfa...	9.064f	9.265	596466	87563	0.200	0.026	#
20)	Methoxychlor	8.834	9.423	12455	30984	0.009	BelowCal	#
21)	Endrin Ke...	9.234	9.644	67044	123.5E6	0.018	31.609	#
23)	Hexachlor...	3.474	3.702	168.1E6	209.9E6	51.814	53.291	
24)	Hexachlor...	6.069	6.453	159.6E6	193.4E6	47.699	48.604	
25)	Oxychlordane	7.553	7.902	149.6E6	170.3E6	46.319	48.387	
26)	2,4'-DDE	7.621	8.096	103.4E6	117.8E6	48.599	48.544	
27)	trans-Non...	7.807	8.176	169.1E6	188.6E6	46.791	47.840	
28)	2,4'-DDD	8.000	8.467	89007702	107.8E6	46.325	50.694	
29)	2,4'-DDT	8.180	8.689	108.2E6	120.3E6	50.404	52.659	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:12
Operator : MJB
Sample : 0J15061-CALG
Misc : A20I185, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

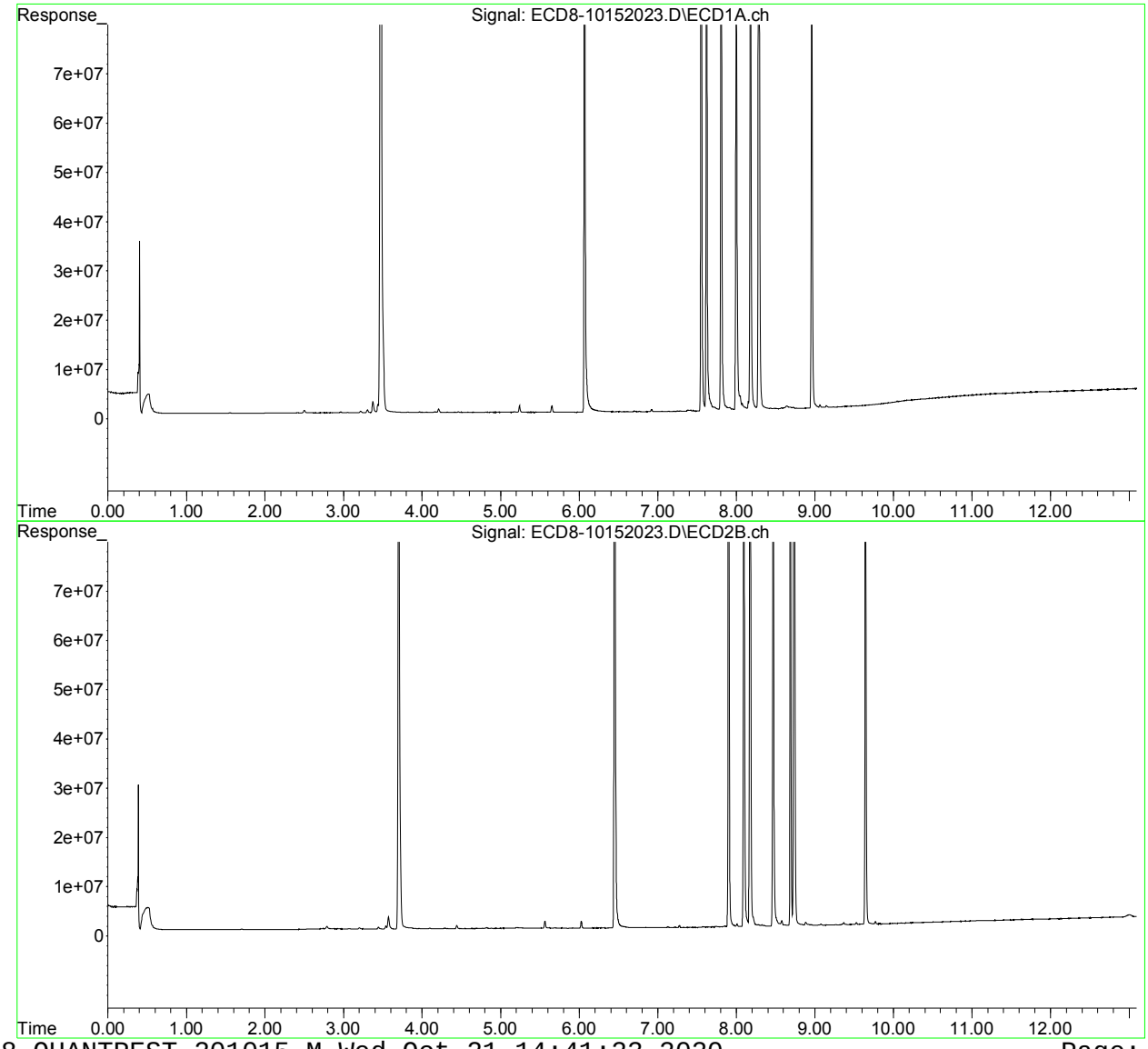
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.286	8.735	183.9E6	208.4E6	46.643	48.717	
31)	Mirex	8.960	9.644	113.0E6	123.5E6	47.943	50.216	
32)	Chlordane...	7.722	8.096	715480	117.8E6	1.737	241.815	#
33)	Chlordane...	7.807	8.176f	169.1E6	188.6E6	403.352	455.621	
34)	Chlordane...	0.000	8.883	0	614166	N.D.	4.541	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.807	8.467f	169.1E6	107.8E6	11364.625	2835.963	#
37)	Toxaphene...	8.074f	0.000	1337325	0	40.600	N.D.	#
38)	Toxaphene...	8.437	0.000	194510	0	2.806	N.D.	#
39)	Toxaphene...	8.638	8.883	574074	614166	7.714	5.155	#
40)	Toxaphene...	8.887	9.076	5873	243893	0.099	3.540	#
41)	Toxaphene...	8.960	9.445	113.0E6	29849	1679.020	0.399	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:12
Operator : MJB
Sample : 0J15061-CALG
Misc : A20I185, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:29
Operator : MJB
Sample : 0J15061-CALH
Misc : A20I186, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.653f	5.998	2500528	55352	0.707	0.014	#
22) S	DCBP (S)	9.916	10.506	195687	39403	BelowCal	0.016	
	Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3)	g-BHC	6.519	6.900	108360	39618	0.027	0.009	#
4)	b-BHC	6.612	6.971	92482	106341	0.059	0.054	
5)	Heptachlor	6.920	7.274	773927	855952	0.191	0.187	
6)	d-BHC	6.762	7.218	130335	163231	0.101	0.108	
7)	Aldrin	7.162	7.533	26455	52854	0.007	0.012	#
8)	Heptachlo...	7.620	8.008f	210.1E6	987495	57.476	0.246	#
9)	trans-Chl...	7.722	8.096	1155162	256.1E6	0.314	64.349	#
10)	cis-Chlor...	7.807	8.210	343.2E6	3247970	94.747	0.837	#
11)	Endosulfa...	7.917	8.281	1051997	718288	0.309	0.200	#
12)	4,4'-DDE	0.000	8.326	0	754516	N.D.	0.270	#
13)	Dieldrin	8.108	8.467	851957	222.6E6	0.227	53.963	#
14)	Endrin	8.285	8.689	378.2E6	257.3E6	137.926	83.744	#
15)	4,4'-DDD	8.285	8.735	378.2E6	435.1E6	139.076	121.592	
16)	Endosulfa...	8.435	0.000	352102	0	0.120	N.D.	#
17)	4,4'-DDT	8.499	8.946	294755	306089	0.150	0.177	
18)	Endrin Al...	8.722	9.077	386673	396286	BelowCal	BelowCal	
19)	Endosulfa...	9.004f	9.265	1467429	88445	0.491	0.027	#
20)	Methoxychlor	8.835	9.425	23930	50513	0.017	BelowCal	#
21)	Endrin Ke...	9.234	9.645	75056	254.5E6	0.020	65.160	#
23)	Hexachlor...	3.475	3.703	320.7E6	403.4E6	96.154	96.801	
24)	Hexachlor...	6.069	6.453	322.5E6	403.2E6	96.424	101.308	
25)	Oxychlordane	7.553	7.902	304.8E6	351.7E6	94.376	99.919	
26)	2,4'-DDE	7.620	8.096	210.1E6	256.1E6	98.797	105.547	
27)	trans-Non...	7.807	8.177	343.2E6	405.2E6	94.982	102.758	
28)	2,4'-DDD	7.999	8.467	185.8E6	222.6E6	96.716	99.241	
29)	2,4'-DDT	8.180	8.689	220.7E6	257.3E6	102.848	102.868	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:29
Operator : MJB
Sample : 0J15061-CALH
Misc : A20I186, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

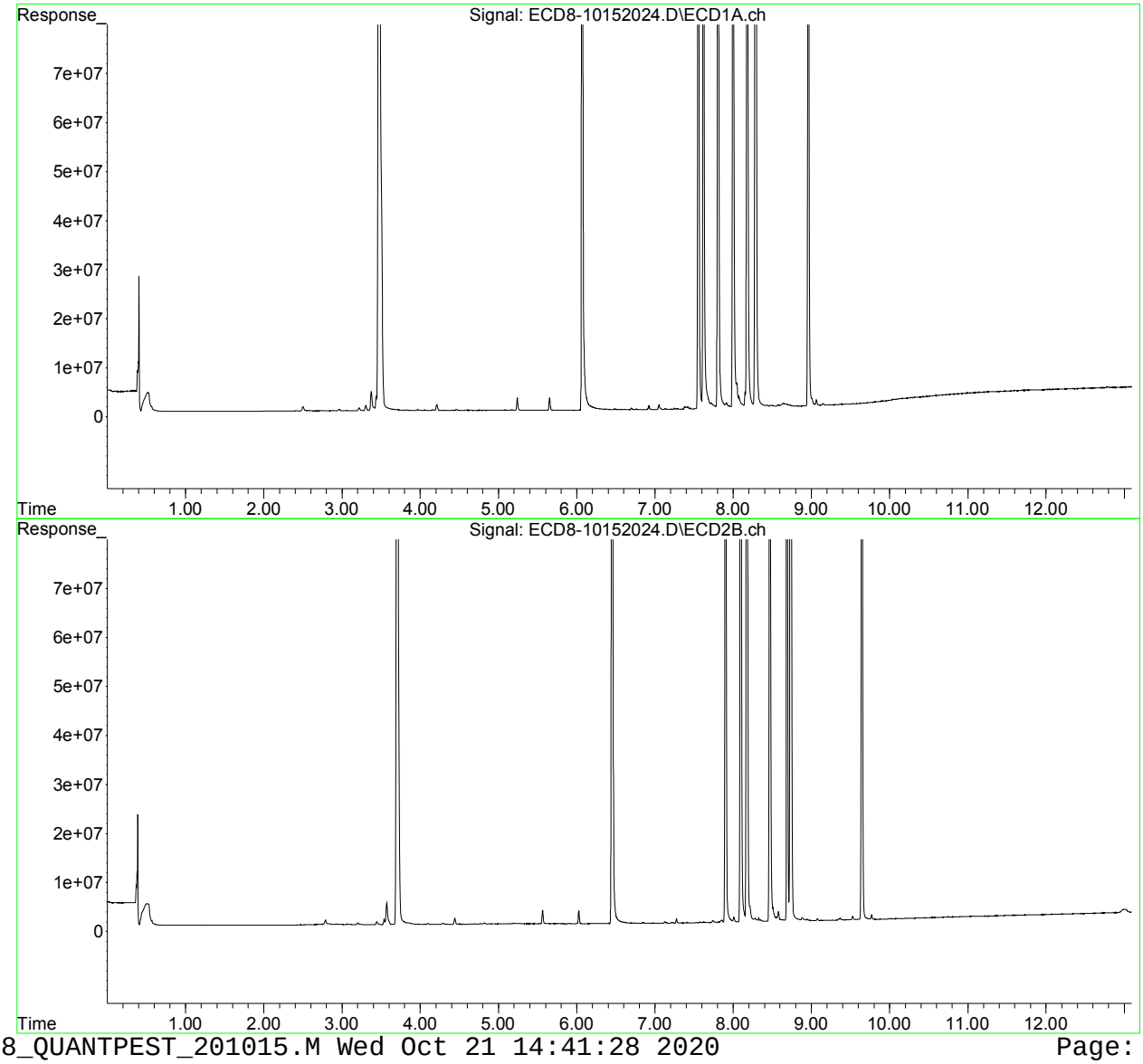
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.285	8.735	378.2E6	435.1E6	95.913	101.715	
31)	Mirex	8.961	9.645	228.7E6	254.5E6	96.979	100.420	
32)	Chlordane...	7.722	8.096	1155162	256.1E6	2.804	525.767	#
33)	Chlordane...	7.807	8.210	343.2E6	3247970	818.770	7.845	#
34)	Chlordane...	0.000	8.884	0	628302	N.D.	4.645	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.807	8.467f	343.2E6	222.6E6	23069.211	5858.107	#
37)	Toxaphene...	8.108	0.000	851957	0	25.865	N.D.	#
38)	Toxaphene...	8.435	0.000	352102	0	5.079	N.D.	#
39)	Toxaphene...	8.640	8.884	716891	628302	9.633	5.274	#
40)	Toxaphene...	0.000	9.077	0	396286	N.D.	5.752	#
41)	Toxaphene...	8.961	9.430	228.7E6	51415	3397.033	0.687	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:29
Operator : MJB
Sample : 0J15061-CALH
Misc : A20I186, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:46
Operator : MJB
Sample : 0J15061-CALI
Misc : A20I179, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:31 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.653f	5.989	4852405	83170	1.372	0.021	#
22) S	DCBP (S)	9.905	10.505	267494	99106	BelowCal	0.041	
	Target Compounds							
2)	a-BHC	6.231	6.582	801838	712587	0.170	0.133	
3)	g-BHC	6.520	6.899	274186	206430	0.068	0.044	#
4)	b-BHC	6.607	6.969	254182	301686	0.163	0.154	
5)	Heptachlor	6.919	7.272	1576391	1729799	0.388	0.378	
6)	d-BHC	6.758	7.215	383149	489755	0.183	0.189	
7)	Aldrin	7.160	7.534	154336	174432	0.039	0.041	
8)	Heptachlo...	7.619	7.967	453.7E6	893169	124.101	0.222	#
9)	trans-Chl...	7.721	8.095	1995927	567.8E6	0.542	142.647	#
10)	cis-Chlor...	7.806	8.210	742.7E6	4736942	205.032	1.221	#
11)	Endosulfa...	7.917	8.280	2375996	1063454	0.699	0.296	#
12)	4,4'-DDE	0.000	8.325	0	1845358	N.D.	0.592	#
13)	Dieldrin	8.073f	8.466	4108469	497.7E6	1.094	111.771	#
14)	Endrin	8.285	8.688	802.3E6	567.1E6	292.565	160.925	#
15)	4,4'-DDD	8.285	8.734	802.3E6	961.3E6	295.004	228.230	
16)	Endosulfa...	8.435	8.835	712668	683162	0.242	0.210	
17)	4,4'-DDT	8.498	8.953	731595	633853	0.325	0.298	
18)	Endrin Al...	8.723	9.075	840830	908964	BelowCal	0.039	
19)	Endosulfa...	9.003f	9.265	2301163	309513	0.770	0.093	#
20)	Methoxychlor	8.833	9.424	129275	183552	0.094	0.080	
21)	Endrin Ke...	9.234	9.644	303060	538.2E6	0.082	137.790	#
23)	Hexachlor...	3.477	3.704	721.1E6	947.4E6	202.297	200.581	
24)	Hexachlor...	6.070	6.454	676.2E6	870.6E6	202.145	218.750	
25)	Oxychlordane	7.552	7.901	646.9E6	749.5E6	200.301	212.937	
26)	2,4'-DDE	7.619	8.095	453.7E6	567.8E6	213.321	233.972	
27)	trans-Non...	7.806	8.176	742.7E6	873.1E6	205.541	221.426	
28)	2,4'-DDD	7.997	8.466	398.4E6	497.7E6	207.369	199.759	
29)	2,4'-DDT	8.179	8.688	475.5E6	567.1E6	221.569	195.348	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:46
Operator : MJB
Sample : 0J15061-CALI
Misc : A20I179, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:31 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

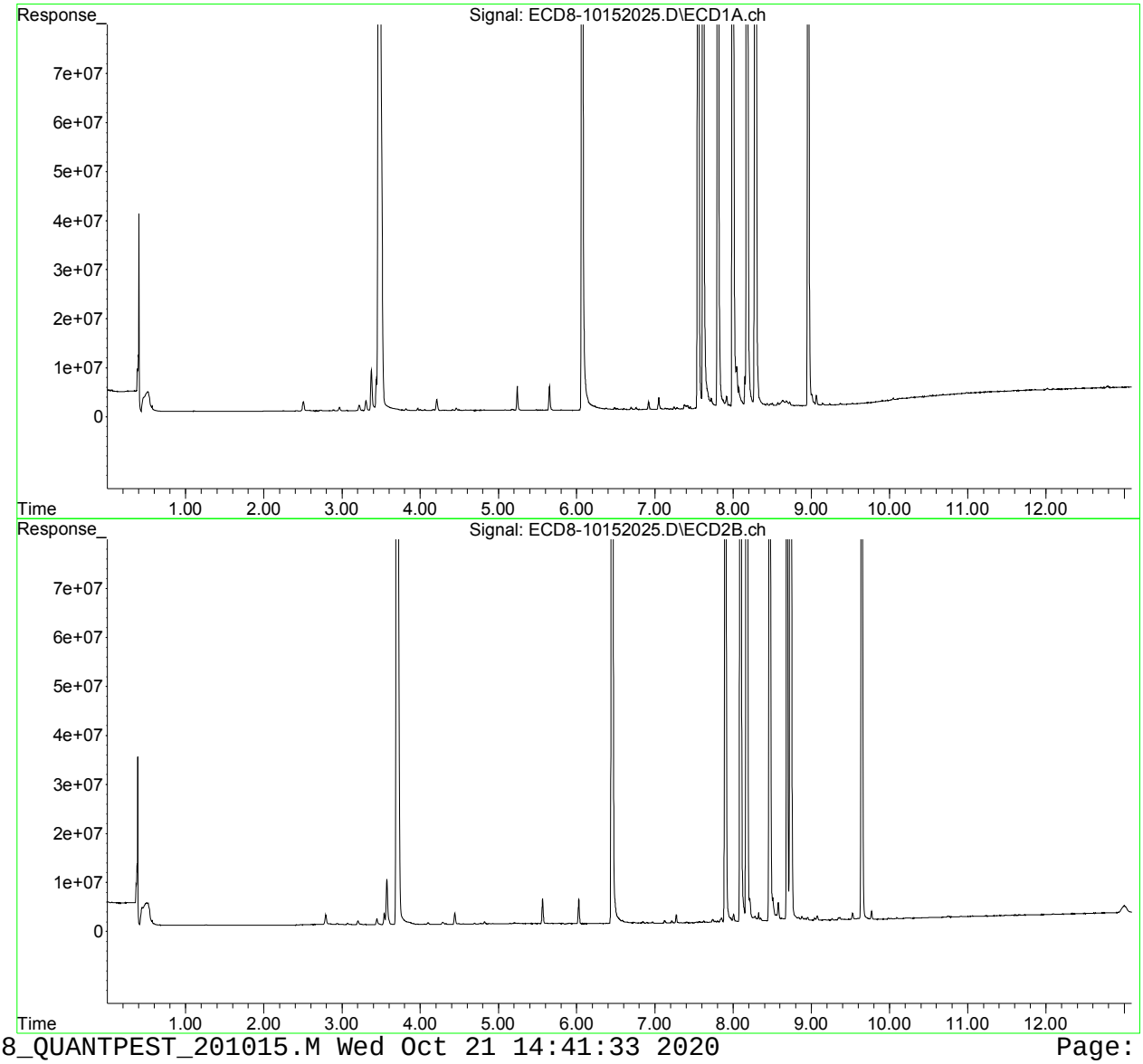
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.285	8.734	802.3E6	961.3E6	203.447	224.714	
31)	Mirex	8.960	9.644	486.2E6	538.2E6	204.967	199.611	
32)	Chlordane...	7.721	8.095	1995927	567.8E6	4.845	1165.500	#
33)	Chlordane...	7.806	8.210	742.7E6	4736942	1771.821	11.442	#
34)	Chlordane...	0.000	8.879	0	831463	N.D.	6.148	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.806	8.466f	742.7E6	497.7E6	49921.875	13096.089	#
37)	Toxaphene...	8.073f	0.000	4108469	0	124.731	N.D.	#
38)	Toxaphene...	8.435	8.835	712668	683162	10.280	9.713	
39)	Toxaphene...	8.679f	8.879	1078460	831463	14.491	6.979	#
40)	Toxaphene...	8.868f	9.075	18678	908964	0.315	13.194	#
41)	Toxaphene...	8.960	9.447	486.2E6	122200	7222.109	1.632	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:46
Operator : MJB
Sample : 0J15061-CALI
Misc : A20I179, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 21 14:41:31 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:35
Operator : MJB
Sample : 0J15061-CALJ
Misc : A20J277, CHLOR 10 ppb MJB 10/20/20
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:34:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	6.006	0	221308	N.D.	0.055	#
22)	S	DCBP (S)	9.905	10.509	173374	69161	BelowCal	0.029	
		Target Compounds							
2)		a-BHC	6.212f	6.587	17226	24795	0.004	0.005	#
3)		g-BHC	6.519	6.903	39463	47365	0.010	0.010	
4)		b-BHC	6.611	6.973	76764	39883	0.049	0.020	#
5)		Heptachlor	6.919	7.273	1986647	2146157	0.489	0.469	
6)		d-BHC	6.764	7.217	125725	88056	0.099	0.089	
7)		Aldrin	7.176	7.534	15808	20583	0.004	0.005	
8)		Heptachlo...	7.629	7.973	338221	67850	0.093	0.017	#
9)		trans-Chl...	7.726	8.111	4101623	4425582	1.114	1.112	
10)		cis-Chlor...	7.820	8.217	4385167	4119232	1.211	1.062	
11)		Endosulfa...	7.940	8.281	123062	81765	0.036	0.023	#
12)		4,4'-DDE	7.884	8.318	200071	133912	0.063	0.087	#
13)		Dieldrin	8.114	8.468	130374	397390	0.035	0.120	#
14)		Endrin	8.259	8.689	71386	125823	0.026	0.075	#
15)		4,4'-DDD	8.287	8.736	833739	986216	0.307	0.347	
16)		Endosulfa...	8.430	8.826	79988	111565	0.027	0.034	#
17)		4,4'-DDT	8.502	8.948	97970	126064	0.071	0.110	#
18)		Endrin Al...	8.728	9.072	135716	100247	BelowCal	BelowCal	
19)		Endosulfa...	9.032	9.265	224182	176094	0.075	0.053	#
20)		Methoxychlor	8.838	9.424	35161	54726	0.026	BelowCal	#
21)		Endrin Ke...	9.234	9.658	164530	238435	0.044	0.061	#
23)		Hexachlor...	0.000	3.717	0	51548	N.D.	BelowCal	
24)		Hexachlor...	6.068	6.452	54295	57452	0.016	0.014	
25)		Oxychlordane	7.551	7.904	33845	46935	0.010	0.013	#
26)		2,4'-DDE	7.629	8.111	338221	4425582	0.157	1.799	#
27)		trans-Non...	7.820	8.177	4385167	3611207	1.203	0.903	
28)		2,4'-DDD	8.005	8.468	127856	397390	0.066	0.174	#
29)		2,4'-DDT	8.200	8.689	6670	125823	0.003	BelowCal	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:35
Operator : MJB
Sample : 0J15061-CALJ
Misc : A20J277, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:34:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

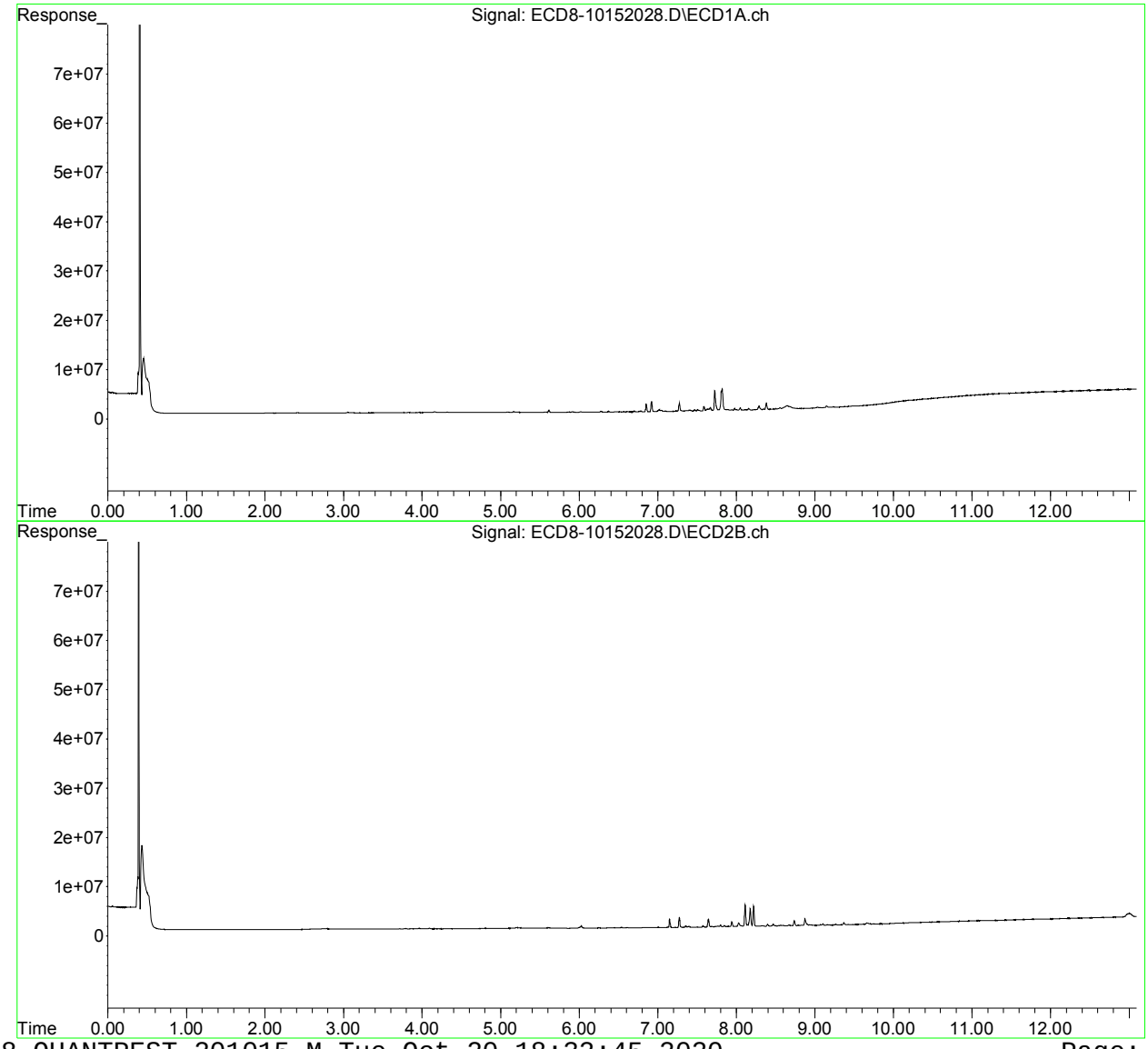
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.287	8.736	833739	986216	0.209	0.227	
31)	Mirex	8.965	9.658	23549	238435	BelowCal	BelowCal	
32)	Chlordane...	7.726	8.111	4101623	4425582	9.957	9.085	
33)	Chlordane...	7.820	8.217	4385167	4119232	10.462	9.950	
34)	Chlordane...	8.380	8.873	1337616	1424459	10.373	10.532	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.820	8.468f	4385167	397390	294.766	10.456	#
37)	Toxaphene...	8.114	8.789	130374	131453	3.958	2.788	#
38)	Toxaphene...	8.430	8.826	79988	111565	1.154	1.586	#
39)	Toxaphene...	8.644	8.873	705741	1424459	9.483	11.957	#
40)	Toxaphene...	8.868f	9.072	17081	100247	0.288	1.455	#
41)	Toxaphene...	8.965	9.448	23549	28584	0.350	0.382	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:35
Operator : MJB
Sample : 0J15061-CALJ
Misc : A20J277, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:34:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:52
Operator : MJB
Sample : 0J15061-CALK
Misc : A20F057, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:34:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	0.000	5.989	0	33174	N.D.	0.008	#
22) S	DCBP (S)	0.000	10.529f	0	65966	N.D.	0.027	#
	Target Compounds							
2)	a-BHC	6.254f	6.615f	23129	580064	0.005	0.108	#
3)	g-BHC	6.524	6.912	33804	252216	0.008	0.054	#
4)	b-BHC	6.611	6.970	274416	45275	0.176	0.023	#
5)	Heptachlor	6.919	7.273	8991697	9384897	2.216	2.050	
6)	d-BHC	6.764	7.214	344304	120082	0.170	0.097	#
7)	Aldrin	7.175	7.548	112488	123992	0.029	0.029	
8)	Heptachlo...	7.635	7.989	1426113	548176	0.390	0.137	#
9)	trans-Chl...	7.725	8.111	19538919	22190571	5.306	5.575	
10)	cis-Chlor...	7.820	8.217	20854744	18468542	5.757	4.760	
11)	Endosulfa...	7.940	8.281	514148	311801	0.151	0.087	#
12)	4,4'-DDE	7.885	8.317	669544	549016	0.212	0.210	
13)	Dieldrin	8.112	8.468	640327	1811484	0.170	0.490	#
14)	Endrin	8.286	8.688	3694204	504303	1.347	0.222	#
15)	4,4'-DDD	8.286	8.736	3694204	3883327	1.358	1.357	
16)	Endosulfa...	8.426	8.826	413884	483861	0.141	0.149	
17)	4,4'-DDT	8.471f	8.947	123263	375579	0.082	0.203	#
18)	Endrin Al...	8.741	9.072	103937	183457	BelowCal	BelowCal	
19)	Endosulfa...	9.029	9.266	334776	62674	0.112	0.019	#
20)	Methoxychlor	8.839	9.425	82567	21885	0.060	BelowCal	#
21)	Endrin Ke...	9.236	9.658	69829	302682	0.019	0.077	#
23)	Hexachlor...	0.000	3.715	0	36748	N.D.	BelowCal	
24)	Hexachlor...	6.066	6.451	24859	29266	0.007	0.007	
25)	Oxychlordane	7.584f	7.885	3823638	260960	1.174	0.073	#
26)	2,4'-DDE	7.635	8.083	1426113	565479	0.662	0.230	#
27)	trans-Non...	7.820	8.176	20854744	16292621	5.721	4.074	#
28)	2,4'-DDD	8.003	8.468	547005	1811484	0.282	0.792	#
29)	2,4'-DDT	8.158f	8.688	1450498	504303	0.667	0.104	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:52
Operator : MJB
Sample : 0J15061-CALK
Misc : A20F057, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:34:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

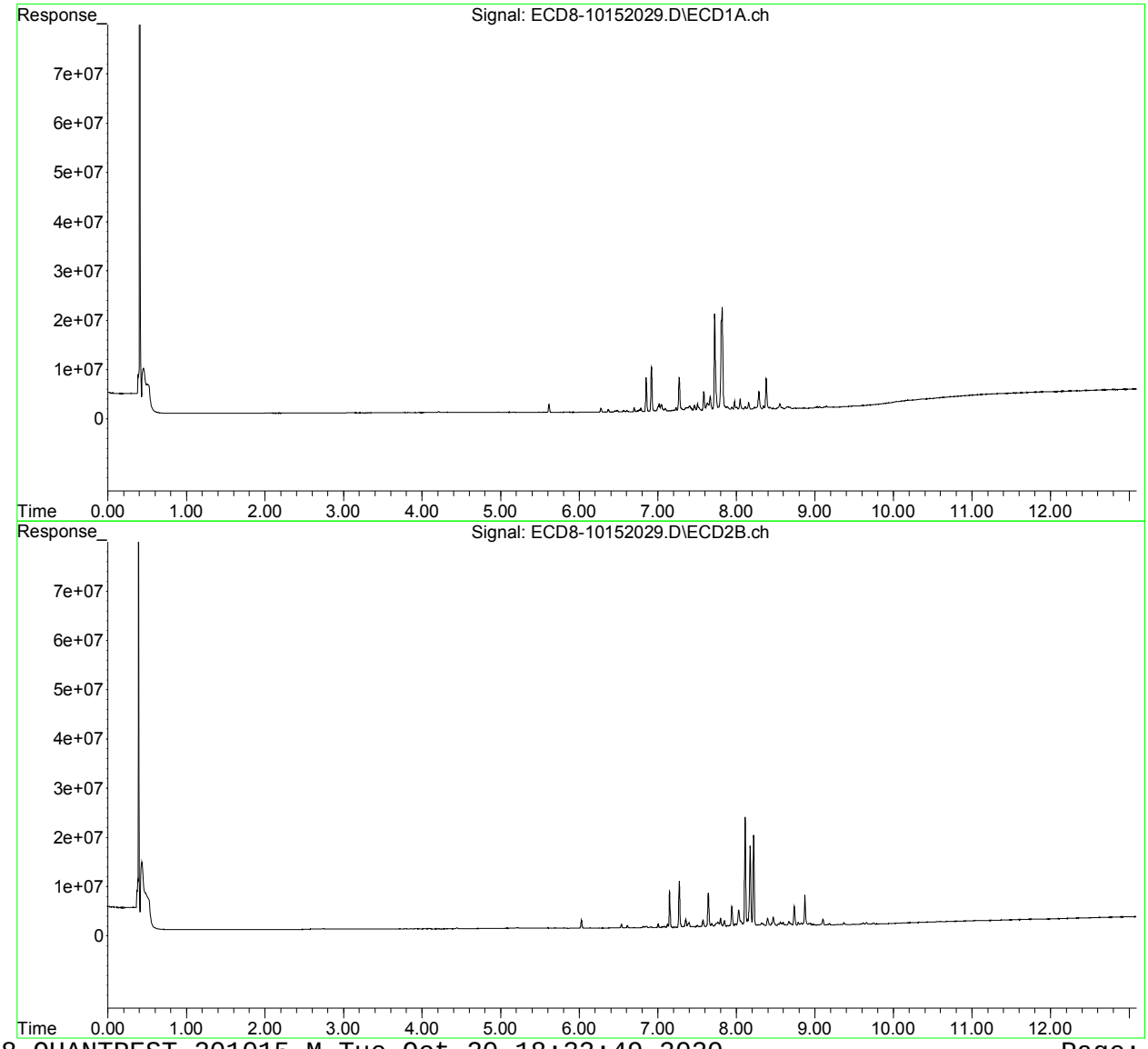
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.286	8.736	3694204	3883327	0.926	0.895	
31)	Mirex	8.964	9.658	19461	302682	BelowCal	BelowCal	
32)	Chlordane...	7.725	8.111	19538919	22190571	47.430	45.553	
33)	Chlordane...	7.820	8.217	20854744	18468542	49.754	44.610	
34)	Chlordane...	8.379	8.873	6256198	6150473	48.514	45.475	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.820	8.468f	20854744	1811484	1401.833	47.664	#
37)	Toxaphene...	8.112	8.789	640327	611009	19.440	12.960	#
38)	Toxaphene...	8.426	8.826	413884	483861	5.970	6.880	
39)	Toxaphene...	8.649	8.873	456959	6150473	6.140	51.627	#
40)	Toxaphene...	8.869f	9.072	105054	183457	1.770	2.663	#
41)	Toxaphene...	8.964	9.449	19461	10590	0.289	0.141	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:52
Operator : MJB
Sample : 0J15061-CALK
Misc : A20F057, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:34:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:08
Operator : MJB
Sample : 0J15061-CALL
Misc : A20F058, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.680	5.963f	20660	23665	0.006	0.006	
22) S	DCBP (S)	9.905	10.473f	199559	73652	BelowCal	0.030	
	Target Compounds							
2)	a-BHC	6.258f	6.577	54537	18735	0.012	0.004	#
3)	g-BHC	6.528	6.912	49575	493025	0.012	0.106	#
4)	b-BHC	6.611	6.971	517801	54950	0.332	0.028	#
5)	Heptachlor	6.920	7.272	18093909	20519528	4.458	4.483	
6)	d-BHC	6.765	7.213	608290	177077	0.256	0.111	#
7)	Aldrin	7.180	7.500f	251385	752437	0.064	0.176	#
8)	Heptachlo...	7.635	7.989	2867507	1101957	0.784	0.274	#
9)	trans-Chl...	7.725	8.110	40102111	46516148	10.889	11.687	
10)	cis-Chlor...	7.819	8.216	40925321	39446568	11.298	10.167	
11)	Endosulfa...	7.939	8.282	1068395	703497	0.314	0.196	#
12)	4,4'-DDE	7.884	8.316	1315261	1068876	0.417	0.363	
13)	Dieldrin	8.112	8.468	1346652	3842608	0.358	1.020	#
14)	Endrin	8.286	8.688	7134309	1003287	2.602	0.414	#
15)	4,4'-DDD	8.286	8.735	7134309	7621823	2.623	2.655	
16)	Endosulfa...	8.426	8.825	895588	1003790	0.304	0.308	
17)	4,4'-DDT	8.469f	8.947	349089	758528	0.172	0.345	#
18)	Endrin Al...	8.741	9.100f	229587	2393213	BelowCal	0.549	
19)	Endosulfa...	9.030	9.265	581129	59892	0.194	0.018	#
20)	Methoxychlor	8.840	9.419	195441	44271	0.142	BelowCal	#
21)	Endrin Ke...	9.238	9.658	76462	522438	0.021	0.134	#
23)	Hexachlor...	0.000	3.717	0	43921	N.D.	BelowCal	
24)	Hexachlor...	6.064	6.422f	29854	110566	0.009	0.027	#
25)	Oxychlordane	7.584f	7.883	7690311	537030	2.362	0.150	#
26)	2,4'-DDE	7.635	8.110	2867507	46516148	1.332	18.912	#
27)	trans-Non...	7.819	8.176	40925321	34061650	11.227	8.517	
28)	2,4'-DDD	8.002	8.468	1148787	3842608	0.591	1.680	#
29)	2,4'-DDT	8.198	8.688	349223	1003287	0.161	0.343	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:08
Operator : MJB
Sample : 0J15061-CALL
Misc : A20F058, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

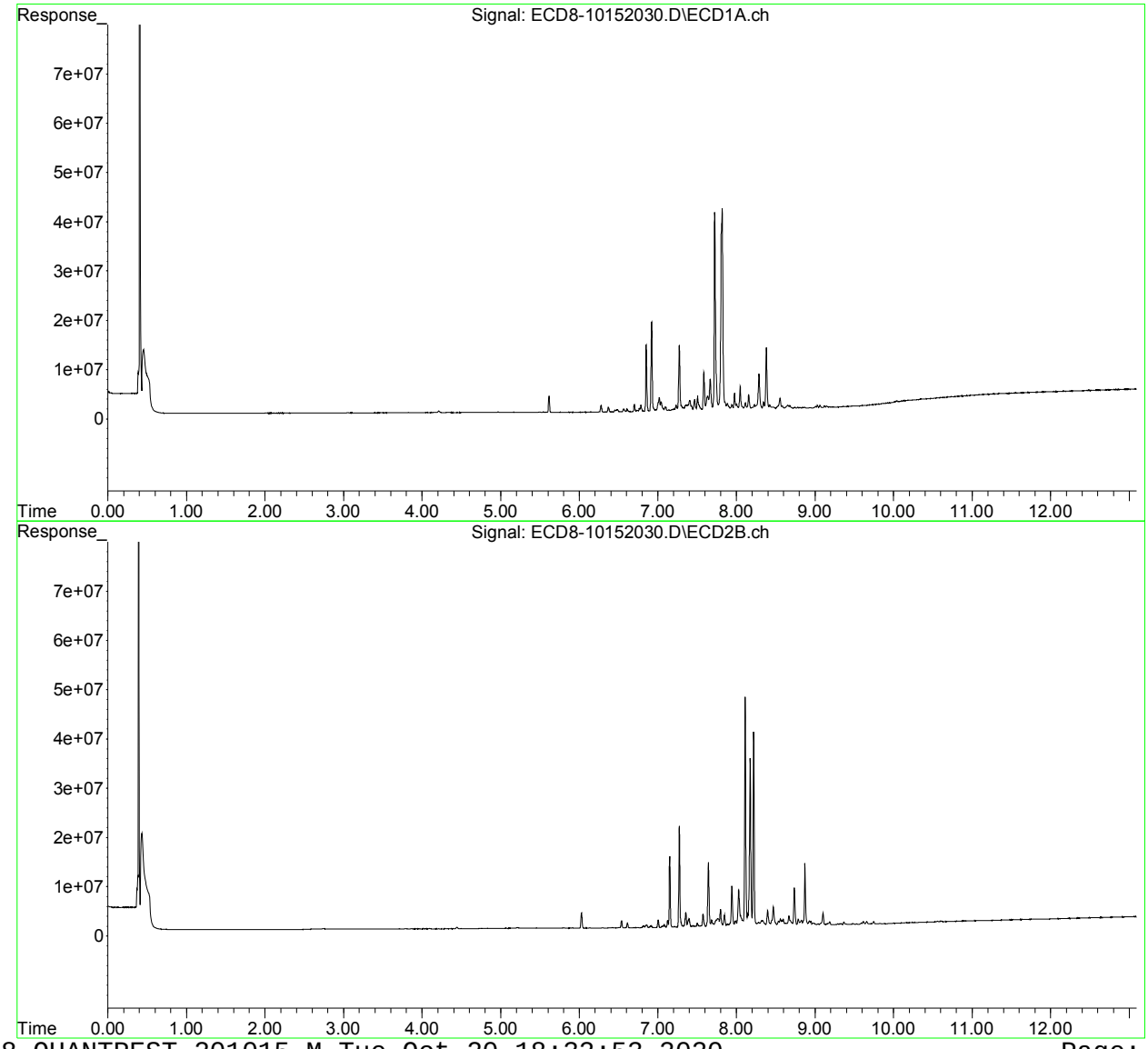
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.286	8.735	7134309	7621823	1.788	1.756	
31)	Mirex	8.971	9.658	3477	522438	BelowCal	BelowCal	
32)	Chlordane...	7.725	8.110	40102111	46516148	97.346	95.488	
33)	Chlordane...	7.819	8.216	40925321	39446568	97.637	95.281	
34)	Chlordane...	8.379	8.872	12465253	12535896	96.663	92.687	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.819	8.468f	40925321	3842608	2750.954	101.106	#
37)	Toxaphene...	8.112	8.788	1346652	1280764	40.884	27.167	#
38)	Toxaphene...	8.426	8.825	895588	1003790	12.919	14.272	
39)	Toxaphene...	8.651	8.872	748684	12535896	10.060	105.227	#
40)	Toxaphene...	8.869f	9.039f	218849	240755	3.687	3.495	
41)	Toxaphene...	8.971	9.449	3477	26950	0.052	0.360	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:08
Operator : MJB
Sample : 0J15061-CALL
Misc : A20F058, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:24
Operator : MJB
Sample : 0J15061-CALM
Misc : A20F059, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:10 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.681	5.961f	31459	27231	0.009	0.007	
22) S	DCBP (S)	9.919	10.470f	296432	101108	BelowCal	0.042	
	Target Compounds							
2)	a-BHC	6.225	6.615f	38484	1981545	0.008	0.370	#
3)	g-BHC	6.530	6.912	70116	906084	0.017	0.195	#
4)	b-BHC	6.611	6.953	973165	148972	0.623	0.076	#
5)	Heptachlor	6.918	7.272	37810761	41611295	9.316	9.092	
6)	d-BHC	6.765	7.213	1109130	350439	0.419	0.154	#
7)	Aldrin	7.175	7.500f	584213	1549820	0.149	0.363	#
8)	Heptachlo...	7.634	7.989	5621933	2211943	1.538	0.551	#
9)	trans-Chl...	7.723	8.110	83839566	95919284	22.766	24.099	
10)	cis-Chlor...	7.819	8.217	83684527	81115667	23.103	20.908	
11)	Endosulfa...	7.939	8.282	2223566	1584161	0.654	0.440	#
12)	4,4'-DDE	7.883	8.315	2536038	2230150	0.805	0.706	
13)	Dieldrin	8.111	8.467	2734489	8368576	0.728	2.199	#
14)	Endrin	8.286	8.688	14566305	2105793	5.312	0.840	#
15)	4,4'-DDD	8.286	8.735	14566305	15298762	5.356	5.299	
16)	Endosulfa...	8.425	8.825	1843694	2198745	0.626	0.675	
17)	4,4'-DDT	8.470f	8.947	797744	1545792	0.352	0.636	#
18)	Endrin Al...	8.740	9.100f	466107	4685425	BelowCal	1.335	
19)	Endosulfa...	9.029	9.265	1100818	139424	0.368	0.042	#
20)	Methoxychlor	8.839	9.422	416130	115004	0.302	0.031	#
21)	Endrin Ke...	9.237	9.657	101374	1006446	0.027	0.258	#
23)	Hexachlor...	3.475	3.716	14721	39636	BelowCal	BelowCal	
24)	Hexachlor...	6.057	6.478f	61999	64875	0.018	0.016	
25)	Oxychlordane	7.583f	7.884	15774576	1110879	4.845	0.311	#
26)	2,4'-DDE	7.634	8.110	5621933	95919284	2.611	38.999	#
27)	trans-Non...	7.819	8.176	83684527	71289498	22.957	17.825	
28)	2,4'-DDD	8.002	8.467	2329243	8368576	1.199	3.659	#
29)	2,4'-DDT	8.157f	8.688	6477923	2105793	2.979	0.871	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:24
Operator : MJB
Sample : 0J15061-CALM
Misc : A20F059, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:10 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

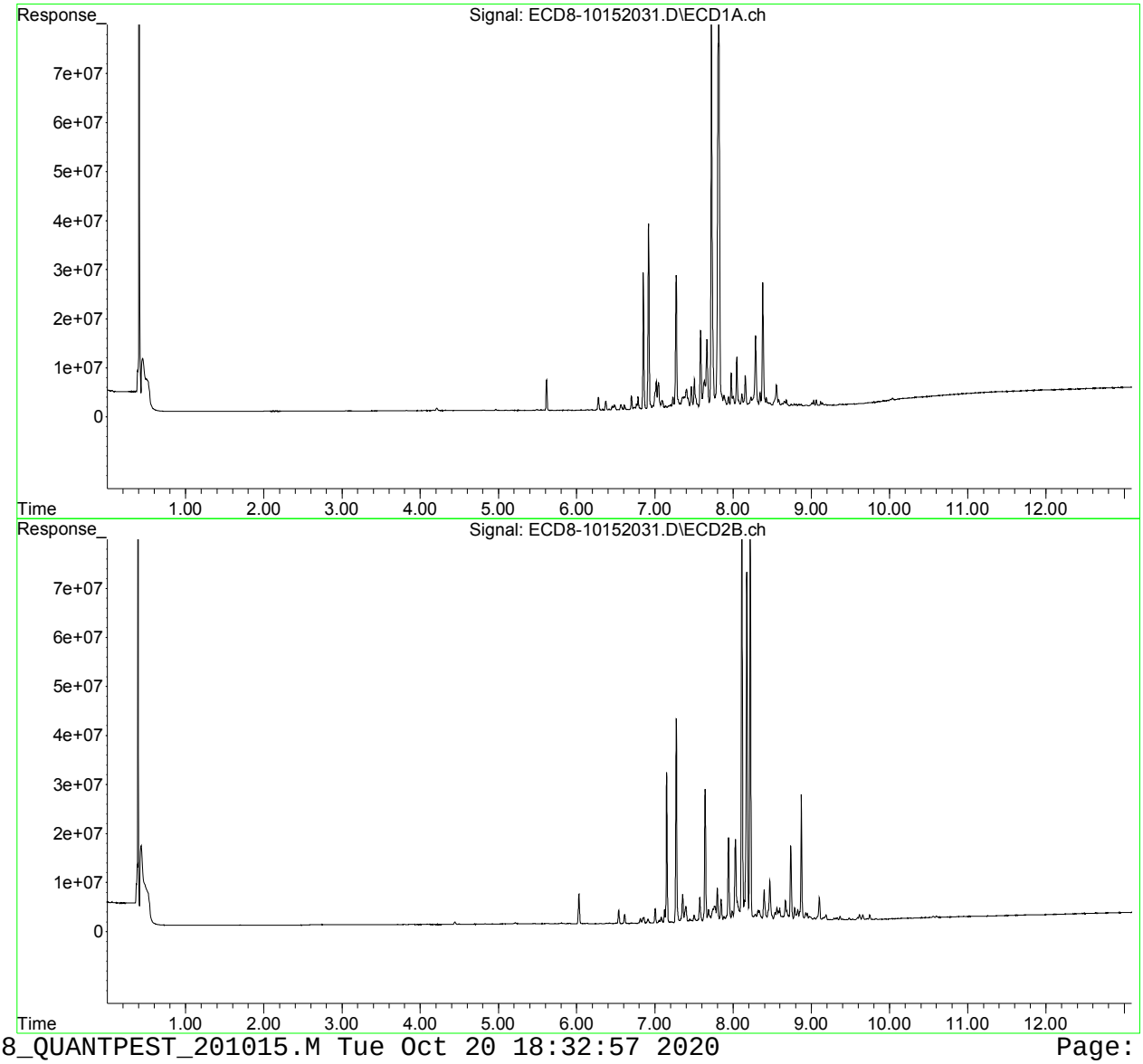
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.286	8.735	14566305	15298762	3.651	3.525	
31)	Mirex	8.929f	9.657	173275	1006446	BelowCal	0.088	
32)	Chlordane...	7.723	8.110	83839566	95919284	203.517	196.903	
33)	Chlordane...	7.819	8.217	83684527	81115667	199.648	195.931	
34)	Chlordane...	8.378	8.872	25372320	25782833	196.751	190.631	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.819	8.467f	83684527	8368576	5625.180	220.193	#
37)	Toxaphene...	8.111	8.789	2734489	2633442	83.018	55.859	#
38)	Toxaphene...	8.425	8.825	1843694	2198745	26.596	31.262	
39)	Toxaphene...	8.653	8.872	1104477	25782833	14.841	216.422	#
40)	Toxaphene...	8.869f	9.038f	462389	570311	7.789	8.279	
41)	Toxaphene...	8.929f	9.450	173275	109397	2.574	1.461	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:24
Operator : MJB
Sample : 0J15061-CALM
Misc : A20F059, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:10 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:41
Operator : MJB
Sample : 0J15061-CALN
Misc : A20F060, CHLOR 500 ppb MJB 10/20/20
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.681	6.001	110799	116318	0.031	0.029	
22)	S	DCBP (S)	9.921	10.507	424514	68123	BelowCal	0.028	
		Target Compounds							
2)		a-BHC	6.223	6.614f	79840	4224724	0.017	0.790	#
3)		g-BHC	6.530	6.912	205799	2103527	0.051	0.452	#
4)		b-BHC	6.610	6.964	2242528	279901	1.437	0.143	#
5)		Heptachlor	6.918	7.272	92217127	101.7E6	22.722	22.216	
6)		d-BHC	6.764	7.211	2561930	726297	0.892	0.247	#
7)		Aldrin	7.175	7.545	1455495	1354986	0.371	0.317	
8)		Heptachlo...	7.634	7.988	14127912	5379798	3.864	1.340	#
9)		trans-Chl...	7.723	8.109	209.0E6	255.1E6	56.764	64.103	
10)		cis-Chlor...	7.818	8.216	206.6E6	207.8E6	57.034	53.554	
11)		Endosulfa...	7.938	8.281	5464012	3658127	1.606	1.017	#
12)		4,4'-DDE	7.882	8.315	6165178	5290134	1.957	1.606	
13)		Dieldrin	8.110	8.466	6569286	21901890	1.749	5.699	#
14)		Endrin	8.285	8.686	35687502	4863760	13.014	1.901	#
15)		4,4'-DDD	8.285	8.734	35687502	38638907	13.122	13.168	
16)		Endosulfa...	8.425	8.823	4512772	5150741	1.532	1.582	
17)		4,4'-DDT	8.496	8.946	991069	3787211	0.429	1.464	#
18)		Endrin Al...	8.740	9.099f	1240449	11436414	0.137	3.645	#
19)		Endosulfa...	9.029	9.243f	2575717	468116	0.862	0.141	#
20)		Methoxychlor	8.839	9.420	1146618	310246	0.833	0.170	#
21)		Endrin Ke...	9.237	9.656	188435	2246036	0.051	0.575	#
23)		Hexachlor...	3.438f	3.700	17291	22765	BelowCal	BelowCal	
24)		Hexachlor...	6.069	6.422f	114292	421085	0.034	0.104	#
25)		Oxychlordane	7.582f	7.883	39906229	2641914	12.257	0.740	#
26)		2,4'-DDE	7.634	8.109	14127912	255.1E6	6.561	103.736	#
27)		trans-Non...	7.818	8.175	206.6E6	177.4E6	56.675	44.369	
28)		2,4'-DDD	8.001	8.466	5749963	21901890	2.960	9.576	#
29)		2,4'-DDT	8.156f	8.686	15530262	4863760	7.142	2.187	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:41
Operator : MJB
Sample : 0J15061-CALN
Misc : A20F060, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

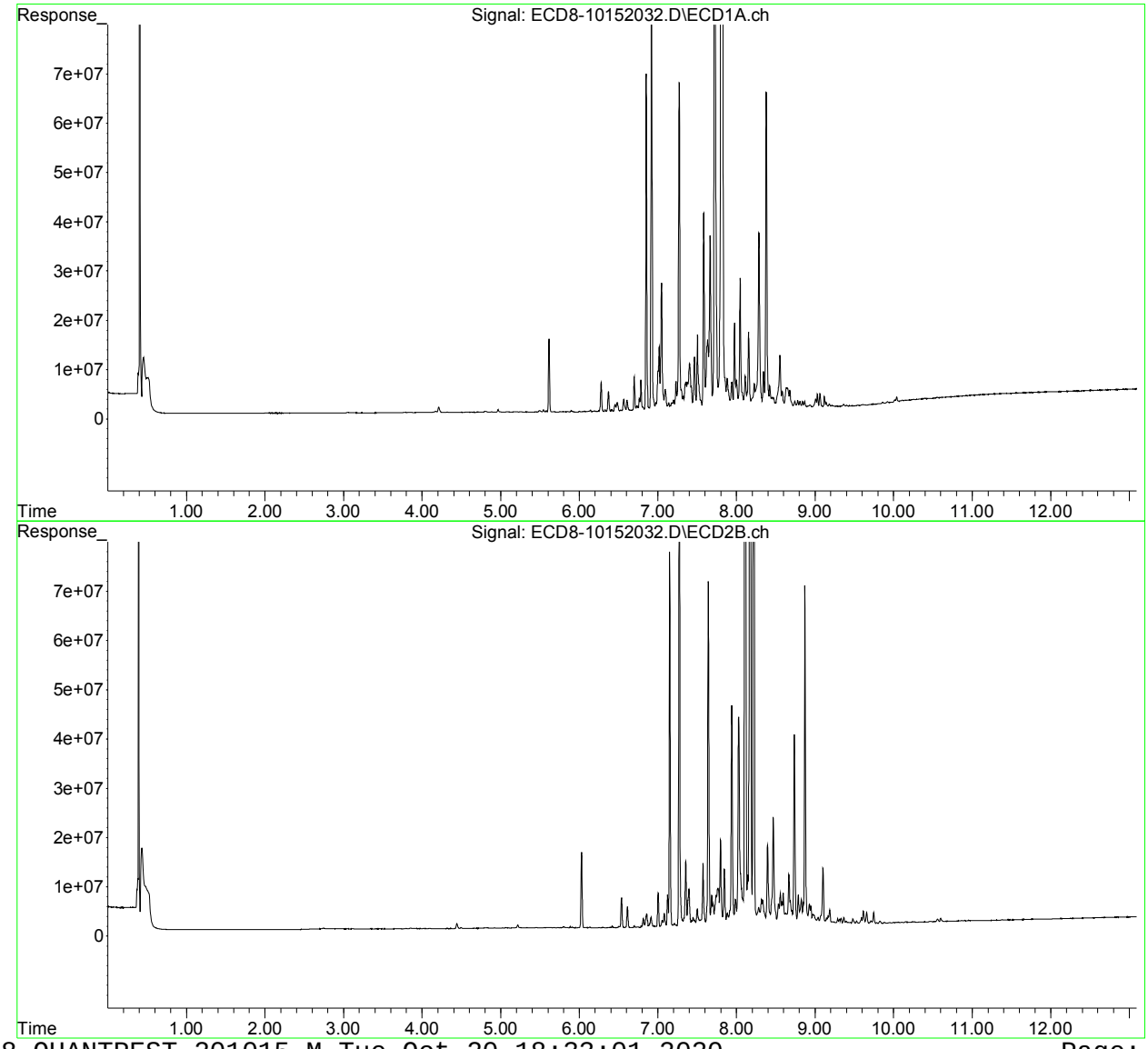
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.285	8.734	35687502	38638907	8.945	8.902	
31)	Mirex	8.938f	9.656	418978	2246036	BelowCal	0.607	
32)	Chlordane...	7.723	8.109	209.0E6	255.1E6	507.446	523.757	
33)	Chlordane...	7.818	8.216	206.6E6	207.8E6	492.869	501.859	
34)	Chlordane...	8.378	8.871	64135607	68754277	497.343	508.349	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.818	8.466f	206.6E6	21901890	13886.810	576.281	#
37)	Toxaphene...	8.110	8.788	6569286	6082032	199.440	129.009	#
38)	Toxaphene...	8.425	8.823	4512772	5150741	65.097	73.234	
39)	Toxaphene...	8.648	8.871	3956278	68754277	53.161	577.125	#
40)	Toxaphene...	8.868f	9.099f	1174027	11436414	19.777	166.009	#
41)	Toxaphene...	8.938f	9.449	418978	293849	6.223	3.924	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:41
Operator : MJB
Sample : 0J15061-CALN
Misc : A20F060, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:58
Operator : MJB
Sample : 0J15061-CALO
Misc : A20F061, CHLOR 1000 ppb MJB 10/20/20
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.681	6.001	169291	71198	0.048	0.018	#
22) S	DCBP (S)	9.892	10.523	176455	94741	BelowCal	0.039	
	Target Compounds							
2)	a-BHC	6.223	6.615f	144304	7589500	0.031	1.419	#
3)	g-BHC	6.529	6.912	409459	3837984	0.102	0.825	#
4)	b-BHC	6.610	6.955	4326177	488660	2.772	0.250	#
5)	Heptachlor	6.918	7.272	180.3E6	210.9E6	44.429	46.081	
6)	d-BHC	6.764	7.211	5010884	1179359	1.687	0.359	#
7)	Aldrin	7.175	7.545	2528207	2004920	0.644	0.470	#
8)	Heptachlo...	7.633	7.987	26358676	10115550	7.210	2.519	#
9)	trans-Chl...	7.722	8.110	397.3E6	490.1E6	107.890	123.129	
10)	cis-Chlor...	7.818	8.216	397.5E6	427.7E6	109.729	110.252	
11)	Endosulfa...	7.938	8.282	10732001	7915123	3.155	2.201	#
12)	4,4'-DDE	7.882	8.315	11971064	9992135	3.799	2.982	
13)	Dieldrin	8.110	8.467	12585414	46869135	3.350	12.064	#
14)	Endrin	8.286	8.687	70487451	9590399	25.703	3.708	#
15)	4,4'-DDD	8.286	8.735	70487451	76378208	25.918	25.399	
16)	Endosulfa...	8.425	8.823	9079282	10387840	3.082	3.190	
17)	4,4'-DDT	8.495	8.947	2160595	7301863	0.897	2.754	#
18)	Endrin Al...	8.740	9.099f	2354170	22579861	0.529	7.438	#
19)	Endosulfa...	9.029	9.243f	4921983	1092565	1.647	0.329	#
20)	Methoxychlor	8.839	9.421	2315968	686247	1.682	0.438	#
21)	Endrin Ke...	9.239	9.657	348342	4411974	0.094	1.129	#
23)	Hexachlor...	0.000	3.695	0	10231	N.D.	BelowCal	
24)	Hexachlor...	6.056	6.421f	196973	776664	0.058	0.193	#
25)	Oxychlordane	7.581f	7.882	76575219	4632499	23.520	1.298	#
26)	2,4'-DDE	7.633	8.110	26358676	490.1E6	12.241	199.255	#
27)	trans-Non...	7.818	8.175	397.5E6	364.1E6	109.037	91.038	
28)	2,4'-DDD	8.001	8.467	11435246	46869135	5.886	20.491	#
29)	2,4'-DDT	8.157f	8.687	33148881	9590399	15.244	4.428	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:58
Operator : MJB
Sample : 0J15061-CALO
Misc : A20F061, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

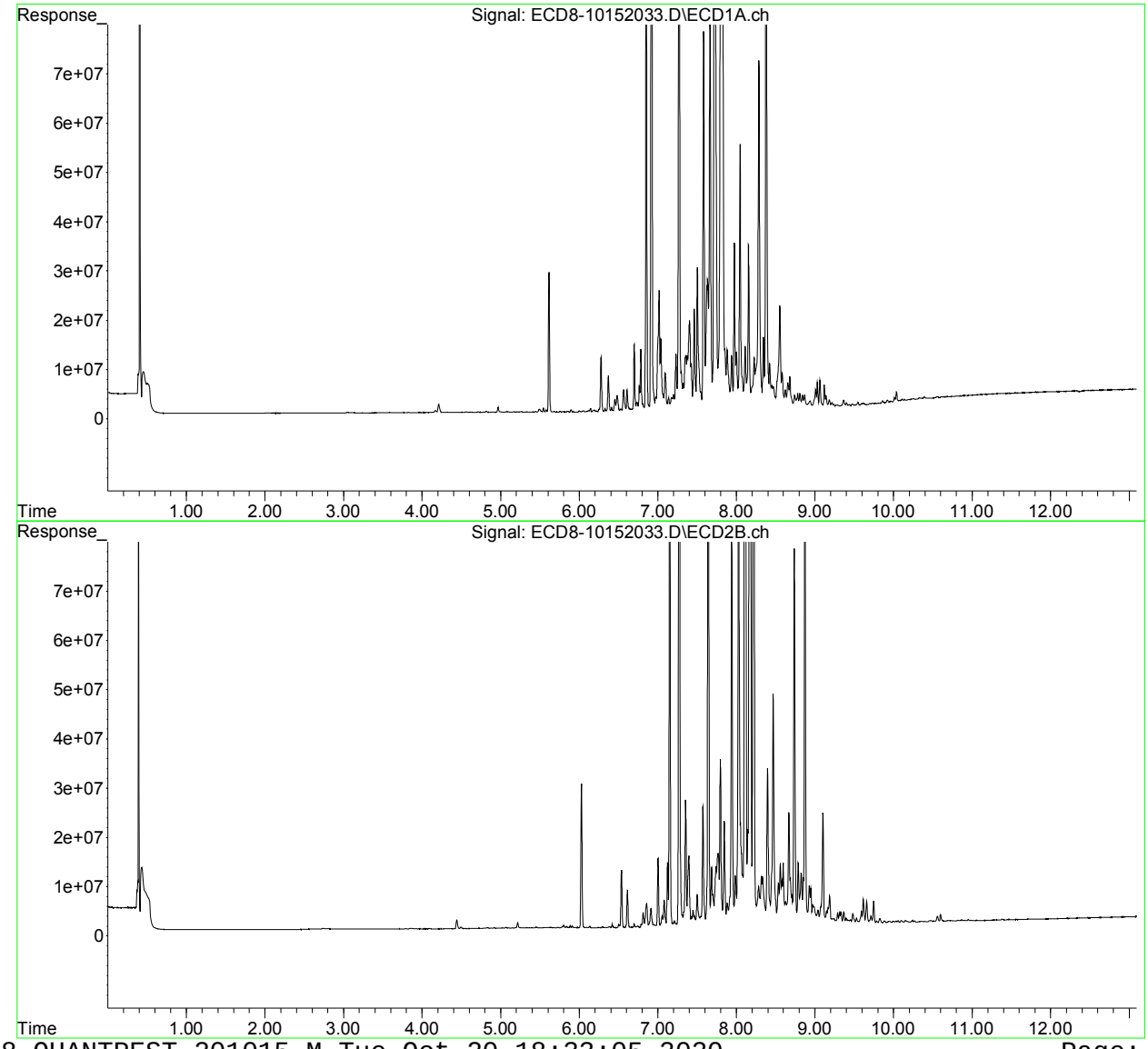
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.286	8.735	70487451	76378208	17.667	17.597	
31)	Mirex	8.938f	9.657	1063687	4411974	0.150	1.512	#
32)	Chlordane...	7.722	8.110	397.3E6	490.1E6	964.491	1006.031	
33)	Chlordane...	7.818	8.216	397.5E6	427.7E6	948.240	1033.189	
34)	Chlordane...	8.378	8.872	126.7E6	138.5E6	982.600	1023.753	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.818	8.467f	397.5E6	46869135	26717.094	1233.218	#
37)	Toxaphene...	8.110	8.788	12585414	12520551	382.086	265.579	#
38)	Toxaphene...	8.425	8.823	9079282	10387840	130.970	147.696	
39)	Toxaphene...	8.652	8.872	4981725	138.5E6	66.940	1162.259	#
40)	Toxaphene...	8.869f	9.099f	2421809	22579861	40.796	327.765	#
41)	Toxaphene...	8.938f	9.451	1063687	753325	15.799	10.060	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:58
Operator : MJB
Sample : 0J15061-CALO
Misc : A20F061, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 2:14
Operator : MJB
Sample : 0J15061-CALP
Misc : A20F056, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:33 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.682	6.028f	327273	64063695	0.093	16.013	#
22) S	DCBP (S)	9.921	10.523	1183133	219433	0.216	0.091	#
	Target Compounds							
2)	a-BHC	6.223	6.615f	301020	15569408	0.064	2.911	#
3)	g-BHC	6.529	6.912	795606	7930079	0.198	1.705	#
4)	b-BHC	6.610	6.955	9188954	993056	5.887	0.508	#
5)	Heptachlor	6.918	7.272	386.0E6	463.5E6	95.101	101.277	
6)	d-BHC	6.764	7.210	10379882	2344687	3.421	0.648	#
7)	Aldrin	7.175	7.545	5105978	3953327	1.300	0.926	#
8)	Heptachlo...	7.633	7.987	57116400	22382390	15.623	5.573	#
9)	trans-Chl...	7.722	8.109	894.2E6	1157.0E6	242.811	290.684	
10)	cis-Chlor...	7.818	8.216	880.4E6	946.8E6	243.046	244.037	
11)	Endosulfa...	7.937	8.281	22675257	17938862	6.667	4.988	#
12)	4,4'-DDE	7.881	8.314	25299135	21901524	8.029	6.432	
13)	Dieldrin	8.109	8.466	27741708	108.0E6	7.384	27.179	#
14)	Endrin	8.285	8.686	150.6E6	20893477	54.908	7.972	#
15)	4,4'-DDD	8.285	8.734	150.6E6	172.1E6	55.366	54.165	
16)	Endosulfa...	8.424	8.823	19462067	23326122	6.608	7.164	
17)	4,4'-DDT	8.495	8.946	4686699	16392184	1.906	6.049	#
18)	Endrin Al...	8.739	9.099f	5262699	50186688	1.554	16.736	#
19)	Endosulfa...	9.028	9.242f	10489120	2549737	3.510	0.767	#
20)	Methoxychlor	8.838	9.420	5113063	1598273	3.714	1.087	#
21)	Endrin Ke...	9.238	9.656	798831	9314822	0.216	2.385	#
23)	Hexachlor...	0.000	3.714	0	32123	N.D.	BelowCal	
24)	Hexachlor...	6.050	6.422f	407275	1504319	0.121	0.373	#
25)	Oxychlordane	7.545	7.882	7526227	9465730	2.312	2.652	
26)	2,4'-DDE	7.633	8.109	57116400	1157.0E6	26.524	470.403	#
27)	trans-Non...	7.818	8.175	880.4E6	808.0E6	241.515	202.018	
28)	2,4'-DDD	8.000	8.466	24640620	108.0E6	12.683	47.213	#
29)	2,4'-DDT	8.156f	8.686	73271989	20893477	33.695	9.707	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 2:14
Operator : MJB
Sample : 0J15061-CALP
Misc : A20F056, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:33 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

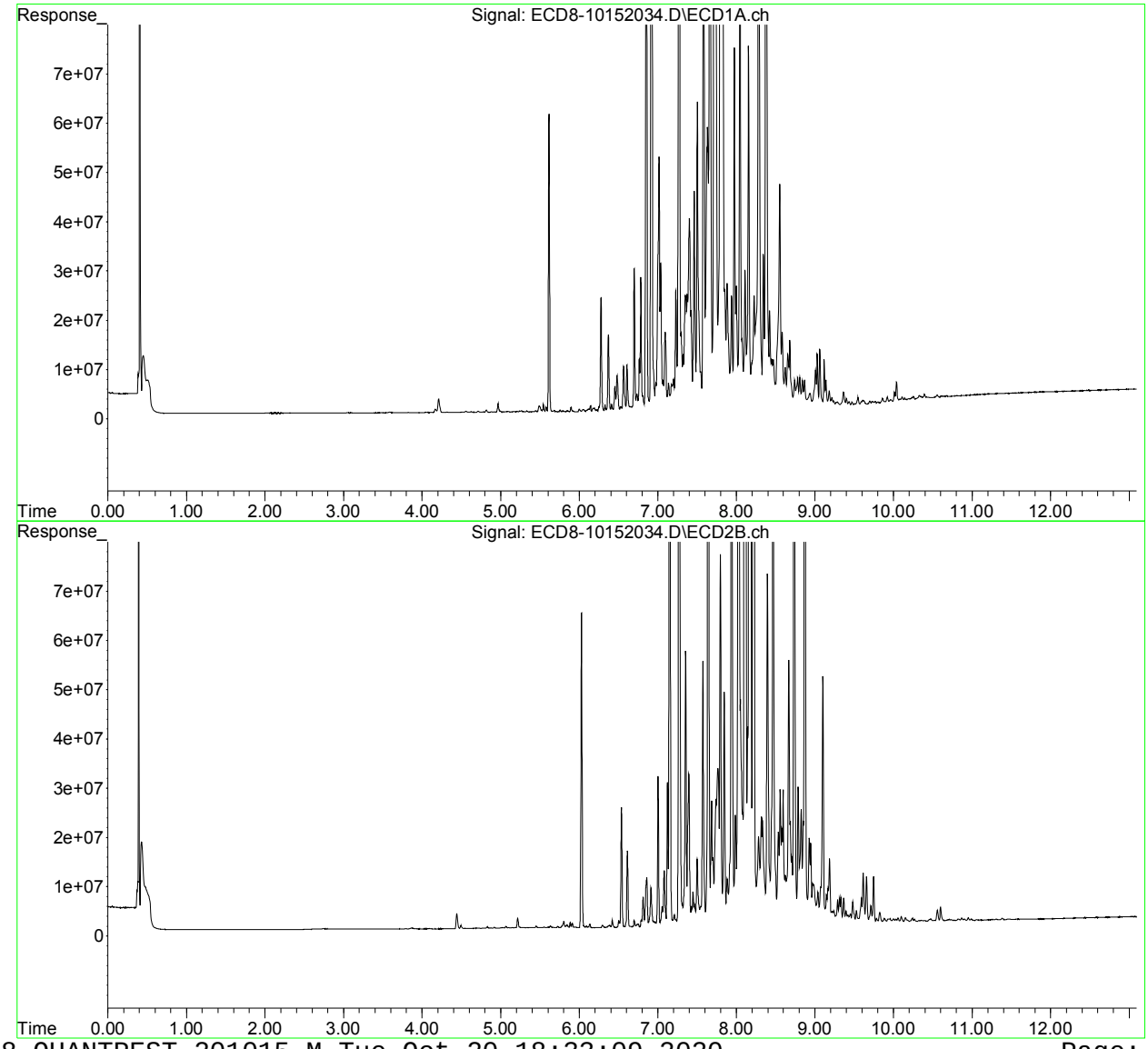
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.285	8.734	150.6E6	172.1E6	37.740	39.661	
31)	Mirex	8.939f	9.656	2486060	9314822	0.753	3.558	#
32)	Chlordane...	7.722	8.109	894.2E6	1157.0E6	2170.626	2375.047	
33)	Chlordane...	7.818	8.216	880.4E6	946.8E6	2100.325	2286.910	
34)	Chlordane...	8.378	8.871	274.6E6	302.1E6	2129.576	2233.653	
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.818	8.466f	880.4E6	108.0E6	59177.641	2841.407	#
37)	Toxaphene...	8.109	8.788	27741708	27793477	842.223	589.540	#
38)	Toxaphene...	8.424	8.823	19462067	23326122	280.743	331.654	
39)	Toxaphene...	8.652	8.871	10558366	302.1E6	141.874	2535.849	#
40)	Toxaphene...	8.868f	9.099f	5232631	50186688	88.146	728.500	#
41)	Toxaphene...	8.939f	9.450	2486060	1863106	36.926	24.881	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 2:14
Operator : MJB
Sample : 0J15061-CALP
Misc : A20F056, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:33 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:04
Operator : MJB
Sample : 0J15061-CALQ
Misc : A20J278, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	0.000	5.981	0	17918	N.D.	0.004	#
22) S	DCBP (S)	9.906	10.504	183449	48008	BelowCal	0.020	
	Target Compounds							
2)	a-BHC	6.231	6.581	20554	28078	0.004	0.005	
3)	g-BHC	6.521	6.896	23105	24098	0.006	0.005	
4)	b-BHC	6.608	6.971	13113	33188	0.008	0.017	#
5)	Heptachlor	6.924	7.281	23630	9944	0.006	0.002	#
6)	d-BHC	6.763	7.219	44784	55522	0.073	0.081	
7)	Aldrin	7.163	0.000	49142	0	0.013	N.D.	#
8)	Heptachlo...	7.625	7.970	36715	133912	0.010	0.033	#
9)	trans-Chl...	7.724	8.095	58612	123277	0.016	0.031	#
10)	cis-Chlor...	7.808	8.200	144669	123115	0.040	0.032	
11)	Endosulfa...	7.934	8.278	230235	150931	0.068	0.042	#
12)	4,4'-DDE	7.882	8.305	85029	150186	0.027	0.092	#
13)	Dieldrin	8.102	8.444	330702	399011	0.088	0.121	#
14)	Endrin	8.283	8.685	448876	338332	0.164	0.157	
15)	4,4'-DDD	8.296	8.736	391442	299286	0.144	0.106	#
16)	Endosulfa...	8.422	8.825	688382	754224	0.234	0.232	
17)	4,4'-DDT	8.505	8.955	649731	320219	0.293	0.182	#
18)	Endrin Al...	8.708	9.071	450365	702293	BelowCal	BelowCal	
19)	Endosulfa...	9.030	9.265	340976	370398	0.114	0.111	
20)	Methoxychlor	8.818	9.443f	358235	779942	0.260	0.505	#
21)	Endrin Ke...	9.233	9.670	217100	722539	0.059	0.185	#
23)	Hexachlor...	0.000	3.715	0	53985	N.D.	BelowCal	
24)	Hexachlor...	6.071	6.451	64055	44523	0.019	0.011	#
25)	Oxychlordane	7.560	7.888	121589	110603	0.037	0.031	
26)	2,4'-DDE	7.620	8.095	40999	123277	0.019	0.050	#
27)	trans-Non...	7.808	8.190	144669	124061	0.040	0.031	
28)	2,4'-DDD	7.980	8.485	87977	193383	0.045	0.085	#
29)	2,4'-DDT	8.165	8.685	318864	338332	0.147	0.024	#

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:04
Operator : MJB
Sample : 0J15061-CALQ
Misc : A20J278, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

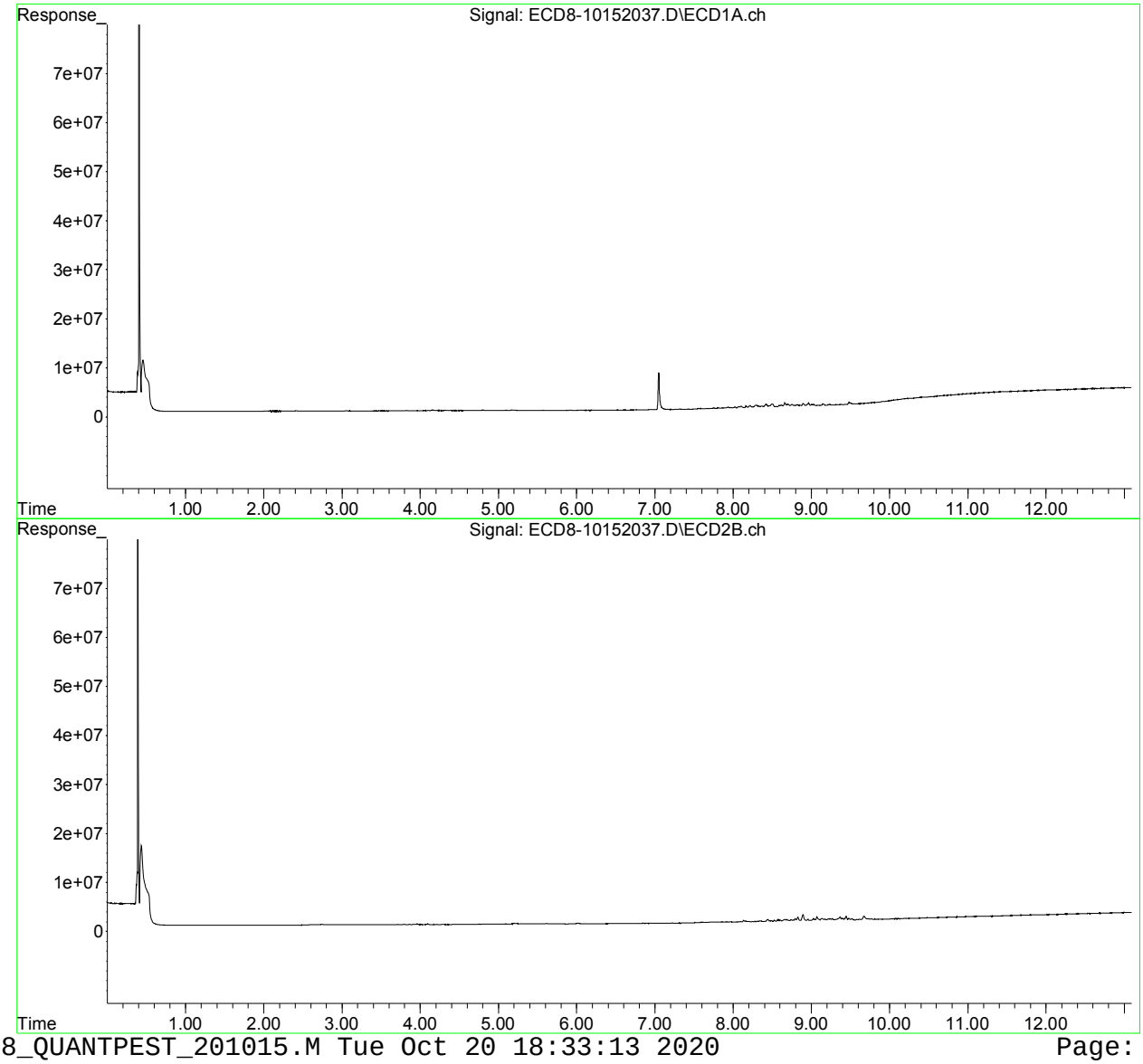
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.283	8.736	448876	299286	0.113	0.069	#
31)	Mirex	8.965	9.616f	681518	115833	BelowCal	BelowCal	
32)	Chlordane...	7.724	8.095	58612	123277	0.142	0.253	#
33)	Chlordane...	7.808	8.200	144669	123115	0.345	0.297	
34)	Chlordane...	8.367	8.893f	225793	1349902	1.751	9.981	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.808	8.444	144669	399011	9.725	10.499	
37)	Toxaphene...	8.102	8.793	330702	464016	10.040	9.842	
38)	Toxaphene...	8.422	8.825	688382	754224	9.930	10.724	
39)	Toxaphene...	8.659	8.893	806604	1349902	10.838	11.331	
40)	Toxaphene...	8.894	9.071	543118	702293	9.149	10.194	
41)	Toxaphene...	8.965	9.443	681518	779942	10.123	10.416	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:04
Operator : MJB
Sample : 0J15061-CALQ
Misc : A20J278, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:35:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:20
Operator : MJB
Sample : 0J15061-CALR
Misc : A20F064, TOX 50 ppb MJB 10/20/20
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	0.000	6.001	0	11357	N.D.	0.003	#
22) S	DCBP (S)	9.910	10.504	157188	36285	BelowCal	0.015	
	Target Compounds							
2)	a-BHC	6.207f	6.589	16980	18620	0.004	0.003	
3)	g-BHC	6.524	6.895	17923	20808	0.004	0.004	
4)	b-BHC	6.610	6.967	25907	30086	0.017	0.015	
5)	Heptachlor	6.920	7.276	34778	21542	0.009	0.005	#
6)	d-BHC	6.763	7.218	61049	72583	0.078	0.085	
7)	Aldrin	7.168	7.540	65548	40021	0.017	0.009	#
8)	Heptachlo...	7.640	7.970	196014	487958	0.054	0.122	#
9)	trans-Chl...	7.710	8.118	352374	327981	0.096	0.082	
10)	cis-Chlor...	7.805	8.199	726337	618692	0.201	0.159	
11)	Endosulfa...	7.933	8.277	1072444	803398	0.315	0.223	#
12)	4,4'-DDE	7.885	8.305	370099	822599	0.117	0.291	#
13)	Dieldrin	8.101	8.484	1648417	1037885	0.439	0.288	#
14)	Endrin	8.282	8.686	2265555	1757793	0.826	0.706	
15)	4,4'-DDD	8.297	8.738	2007377	1204485	0.738	0.423	#
16)	Endosulfa...	8.421	8.825	3404622	3392585	1.156	1.042	
17)	4,4'-DDT	8.492	8.953	2982242	1369800	1.226	0.571	#
18)	Endrin Al...	8.707	9.070	2265327	3263105	0.498	0.847	#
19)	Endosulfa...	9.027	9.265	1384638	1398974	0.463	0.421	
20)	Methoxychlor	8.818	9.443f	1992726	3524155	1.448	2.453	#
21)	Endrin Ke...	9.218	9.644	828569	307482	0.224	0.079	#
23)	Hexachlor...	0.000	3.717	0	22102	N.D.	BelowCal	
24)	Hexachlor...	6.064	6.452	11909	13955	0.004	0.003	
25)	Oxychlordane	7.558	7.886	569424	315739	0.175	0.088	#
26)	2,4'-DDE	7.604	8.093	290872	580067	0.135	0.236	#
27)	trans-Non...	7.805	8.155f	726337	887981	0.199	0.222	
28)	2,4'-DDD	8.006	8.484	602535	1037885	0.310	0.454	#
29)	2,4'-DDT	8.165	8.686	1697102	1757793	0.780	0.705	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:20
Operator : MJB
Sample : 0J15061-CALR
Misc : A20F064, TOX 50 ppb
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

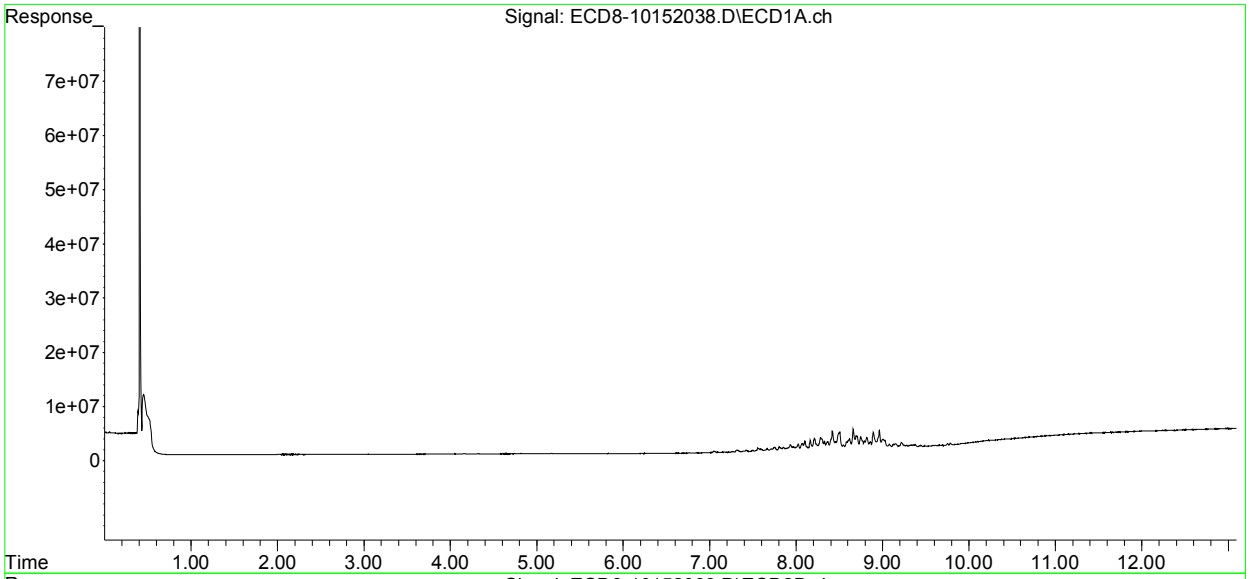
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.282	8.738	2265555	1204485	0.568	0.278	#
31)	Mirex	8.964	9.644	3244525	307482	1.075	BelowCal	#
32)	Chlordane...	7.710	8.118	352374	327981	0.855	0.673	
33)	Chlordane...	7.805	8.199	726337	618692	1.733	1.494	
34)	Chlordane...	8.366	8.892f	1398538	5669610	10.845	41.919	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.805	8.443	726337	1944781	48.824	51.171	
37)	Toxaphene...	8.101	8.793	1648417	2303326	50.045	48.857	
38)	Toxaphene...	8.421	8.825	3404622	3392585	49.112	48.236	
39)	Toxaphene...	8.658	8.892	3598900	5669610	48.359	47.591	
40)	Toxaphene...	8.893	9.070	2870073	3263105	48.348	47.367	
41)	Toxaphene...	8.964	9.443	3244525	3524155	48.192	47.063	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

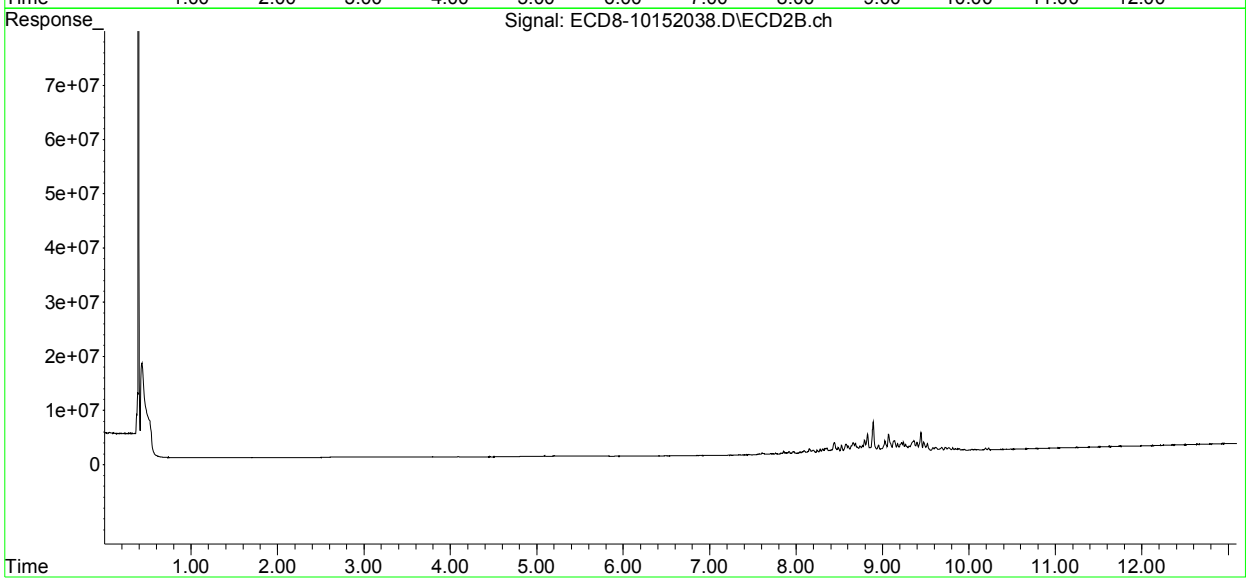
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:20
Operator : MJB
Sample : 0J15061-CALR
Misc : A20F064, TOX 50 ppb
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:53
Operator : MJB
Sample : 0J15061-CALT
Misc : A20F066, TOX 200 ppb MJB 10/20/20
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	0.000	5.980	0	15848	N.D.	0.004	#
22)	S	DCBP (S)	9.911	10.484f	346950	336295	BelowCal	0.139	
		Target Compounds							
2)		a-BHC	6.232	6.585	26275	31030	0.006	0.006	
3)		g-BHC	6.526	6.891	32414	63329	0.008	0.014	#
4)		b-BHC	6.600	6.955	31358	101133	0.020	0.052	#
5)		Heptachlor	6.921	7.283	69944	134545	0.017	0.029	#
6)		d-BHC	6.760	7.219	112041	152243	0.095	0.105	
7)		Aldrin	7.168	7.504f	250413	232297	0.064	0.054	
8)		Heptachlo...	7.637	7.970	970878	1885974	0.266	0.470	#
9)		trans-Chl...	7.708	8.122	1518305	1352888	0.412	0.340	
10)		cis-Chlor...	7.804	8.199	2928701	2353949	0.809	0.607	
11)		Endosulfa...	7.932	8.277	4359435	3009796	1.282	0.837	#
12)		4,4'-DDE	7.882	8.304	1556414	3195519	0.494	0.990	#
13)		Dieldrin	8.099	8.483	6531155	3936547	1.738	1.045	#
14)		Endrin	8.282	8.686	8870121	7250586	3.235	2.816	
15)		4,4'-DDD	8.295	8.740	8232473	4747286	3.027	1.658	#
16)		Endosulfa...	8.419	8.825	13381927	13097504	4.543	4.023	
17)		4,4'-DDT	8.492	8.953	12330217	5519157	4.932	2.101	#
18)		Endrin Al...	8.707	9.070	9319598	12845839	2.984	4.126	#
19)		Endosulfa...	9.026	9.265	5918710	5655045	1.980	1.702	
20)		Methoxychlor	8.816	9.442	8387919	13990550	6.093	9.755	#
21)		Endrin Ke...	9.215	9.685f	3728114	2874284	1.008	0.736	#
23)		Hexachlor...	0.000	3.714	0	14766	N.D.	BelowCal	
24)		Hexachlor...	6.104f	6.450	12399	14629	0.004	0.004	
25)		Oxychlordane	7.559	7.885	2189701	1237030	0.673	0.347	#
26)		2,4'-DDE	7.637	8.093	970878	2203347	0.451	0.896	#
27)		trans-Non...	7.804	8.155f	2928701	3308844	0.803	0.827	
28)		2,4'-DDD	8.021f	8.483	4663931	3936547	2.401	1.721	#
29)		2,4'-DDT	8.164	8.686	6886026	7250586	3.167	3.321	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:53
Operator : MJB
Sample : 0J15061-CALT
Misc : A20F066, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

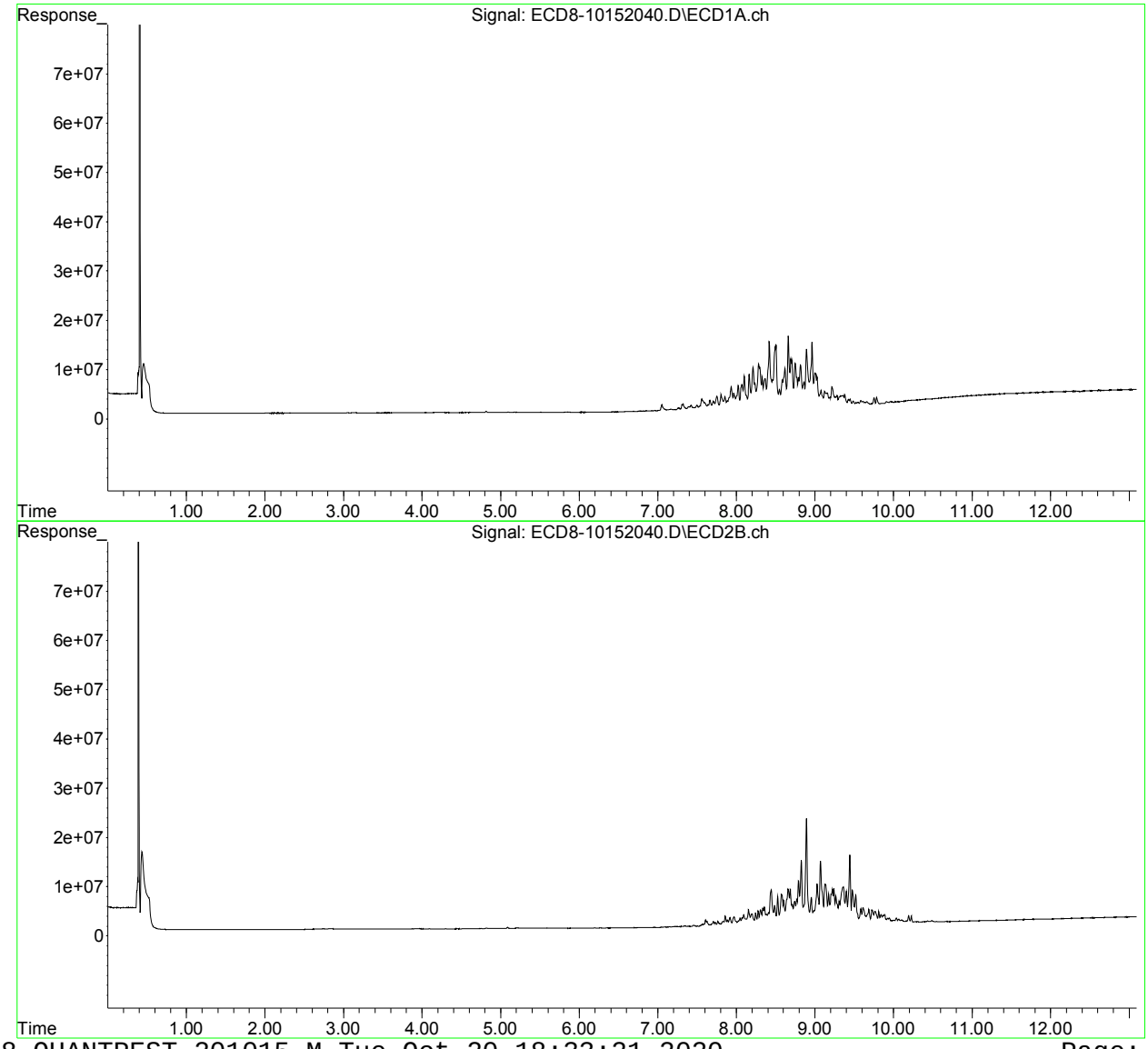
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.282	8.740	8870121	4747286	2.223	1.094	#
31)	Mirex	8.963	9.612f	13009268	3173528	5.219	0.994	#
32)	Chlordane...	7.708	8.122	1518305	1352888	3.686	2.777	
33)	Chlordane...	7.804	8.199	2928701	2353949	6.987	5.686	
34)	Chlordane...	8.364	8.892f	5830126	21519149	45.210	159.106	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.804	8.444	2928701	7231910	196.864	190.286	
37)	Toxaphene...	8.099	8.792	6531155	8939693	198.282	189.624	
38)	Toxaphene...	8.419	8.825	13381927	13097504	193.036	186.222	
39)	Toxaphene...	8.658	8.892	14340541	21519149	192.696	180.632	
40)	Toxaphene...	8.892	9.070	11584089	12845839	195.139	186.468	
41)	Toxaphene...	8.963	9.442	13009268	13990550	193.230	186.835	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:53
Operator : MJB
Sample : 0J15061-CALT
Misc : A20F066, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:10
Operator : MJB
Sample : 0J15061-CALU
Misc : A20D430, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.677	5.997	9548	21103	0.003	0.005	#
22) S	DCBP (S)	9.911	10.485f	737327	915460	0.036	0.378	#
	Target Compounds							
2)	a-BHC	6.233	6.584	63960	57093	0.014	0.011	
3)	g-BHC	6.523	6.892	48579	145409	0.012	0.031	#
4)	b-BHC	6.607	6.975	55576	82684	0.036	0.042	
5)	Heptachlor	6.927	7.282	191558	350208	0.047	0.077	#
6)	d-BHC	6.759	7.218	173662	301043	0.115	0.142	
7)	Aldrin	7.167	7.538	641944	558817	0.163	0.131	
8)	Heptachlo...	7.636	7.968	2494481	4375451	0.682	1.090	#
9)	trans-Chl...	7.704	8.093	3859254	5312356	1.048	1.335	#
10)	cis-Chlor...	7.803	8.197f	7355899	5543879	2.031	1.429	#
11)	Endosulfa...	7.931	8.277	10725049	7176176	3.153	1.995	#
12)	4,4'-DDE	7.882	8.304	3875790	7910482	1.230	2.374	#
13)	Dieldrin	8.099	8.483	16121893	9544857	4.291	2.505	#
14)	Endrin	8.281	8.685	22820033	18689593	8.321	7.147	
15)	4,4'-DDD	8.294	8.739	20212557	12230790	7.432	4.246	#
16)	Endosulfa...	8.419	8.825	34493083	33775269	11.711	10.373	
17)	4,4'-DDT	8.492	8.952	30900392	13779668	12.144	5.108	#
18)	Endrin Al...	8.706	9.070	24183586	33539622	8.221	11.146	#
19)	Endosulfa...	9.026	9.264	15650087	14411195	5.237	4.337	
20)	Methoxychlor	8.815	9.442	22055185	36618141	16.022	24.915	#
21)	Endrin Ke...	9.216	9.685f	9862349	7612018	2.667	1.949	#
23)	Hexachlor...	0.000	3.716	0	143178	N.D.	BelowCal	
24)	Hexachlor...	6.099f	6.444	25689	21215	0.008	0.005	#
25)	Oxychlordane	7.558	7.917	5337073	4143676	1.639	1.161	#
26)	2,4'-DDE	7.636	8.093	2494481	5312356	1.158	2.160	#
27)	trans-Non...	7.803	8.197f	7355899	5543879	2.018	1.386	#
28)	2,4'-DDD	8.021f	8.483	11659748	9544857	6.002	4.173	#
29)	2,4'-DDT	8.164	8.685	16902752	18689593	7.773	8.686	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:10
Operator : MJB
Sample : 0J15061-CALU
Misc : A20D430, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

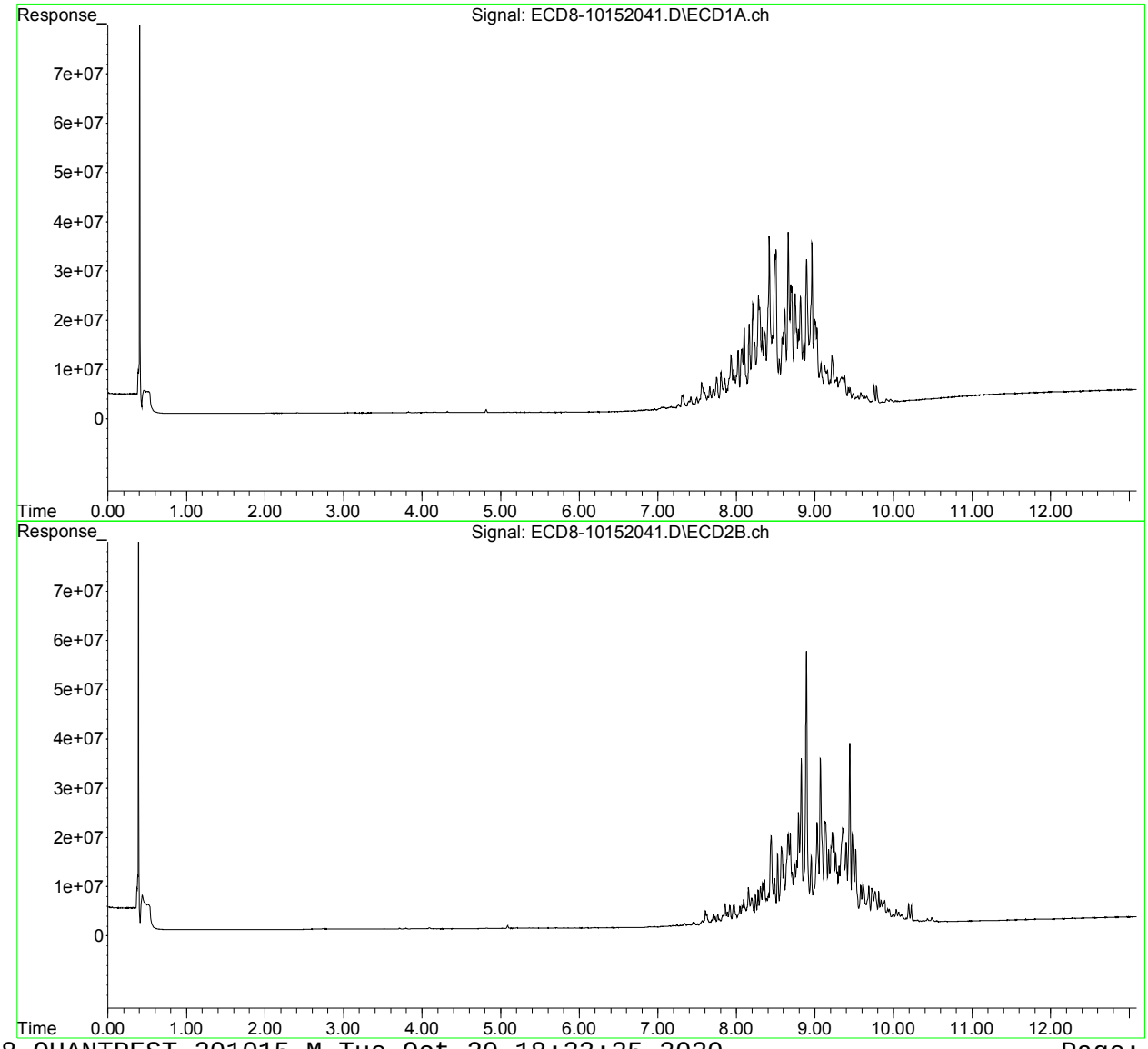
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.281	8.739	22820033	12230790	5.720	2.818	#
31)	Mirex	8.963	9.611f	33036149	8132991	13.717	3.065	#
32)	Chlordane...	7.704	8.093	3859254	5312356	9.368	10.905	
33)	Chlordane...	7.803	8.197	7355899	5543879	17.549	13.391	
34)	Chlordane...	8.364	8.892f	15027700	55412823	116.533	409.706	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.803	8.444	7355899	18107794	494.455	476.451	
37)	Toxaphene...	8.099	8.791	16121893	22747138	489.452	482.500	
38)	Toxaphene...	8.419	8.825	34493083	33775269	497.568	480.222	
39)	Toxaphene...	8.657	8.892	35303409	55412823	474.377	465.137	
40)	Toxaphene...	8.893	9.070	29598444	33539622	498.599	486.854	
41)	Toxaphene...	8.963	9.442	33036149	36618141	490.695	489.013	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:10
Operator : MJB
Sample : 0J15061-CALU
Misc : A20D430, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:26
Operator : MJB
Sample : 0J15061-CALV
Misc : A20D431, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:41 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.682	6.007	17350	30453	0.005	0.008	#
22) S	DCBP (S)	9.910	10.485f	1581180	1949290	0.376	0.806	#
	Target Compounds							
2)	a-BHC	6.230	6.583	120026	115633	0.025	0.022	
3)	g-BHC	6.520	6.890	92095	300202	0.023	0.065	#
4)	b-BHC	6.605	6.956	119980	524544	0.077	0.268	#
5)	Heptachlor	6.928	7.282	477246	725856	0.118	0.159	#
6)	d-BHC	6.758	7.216	358875	595742	0.175	0.215	
7)	Aldrin	7.165	7.566f	1396136	2191963	0.355	0.513	#
8)	Heptachlo...	7.635	7.969	5203813	8649843	1.423	2.154	#
9)	trans-Chl...	7.702f	8.092	7875633	10538130	2.139	2.648	
10)	cis-Chlor...	7.802	8.195f	15006216	10888998	4.143	2.807	#
11)	Endosulfa...	7.930	8.276	21816179	14263647	6.414	3.966	#
12)	4,4'-DDE	7.881	8.303	7745002	15693000	2.458	4.640	#
13)	Dieldrin	8.098	8.482	32732158	19390267	8.713	5.052	#
14)	Endrin	8.281	8.685	46026301	39091984	16.784	14.674	
15)	4,4'-DDD	8.293	8.737	42458072	24823485	15.612	8.540	#
16)	Endosulfa...	8.418	8.824	69458796	70093512	23.582	21.528	
17)	4,4'-DDT	8.491	8.952	63679509	28375465	24.425	10.304	#
18)	Endrin Al...	8.705	9.069	49458453	69799894	17.127	23.258	#
19)	Endosulfa...	9.025	9.263	32317353	30686343	10.813	9.235	
20)	Methoxychlor	8.814	9.442	45960593	75965801	33.387	49.545	#
21)	Endrin Ke...	9.214	9.685f	20744881	16044185	5.610	4.107	#
23)	Hexachlor...	0.000	3.716	0	136111	N.D.	BelowCal	
24)	Hexachlor...	6.067	6.453	15375	42024	0.005	0.010	#
25)	Oxychlordane	7.557	7.916	10620875	8319530	3.262	2.331	#
26)	2,4'-DDE	7.635	8.092	5203813	10538130	2.417	4.285	#
27)	trans-Non...	7.802	8.195	15006216	10888998	4.117	2.723	#
28)	2,4'-DDD	8.001	8.482	13103620	19390267	6.745	8.477	#
29)	2,4'-DDT	8.163	8.685	35246663	39091984	16.209	17.990	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:26
Operator : MJB
Sample : 0J15061-CALV
Misc : A20D431, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:41 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

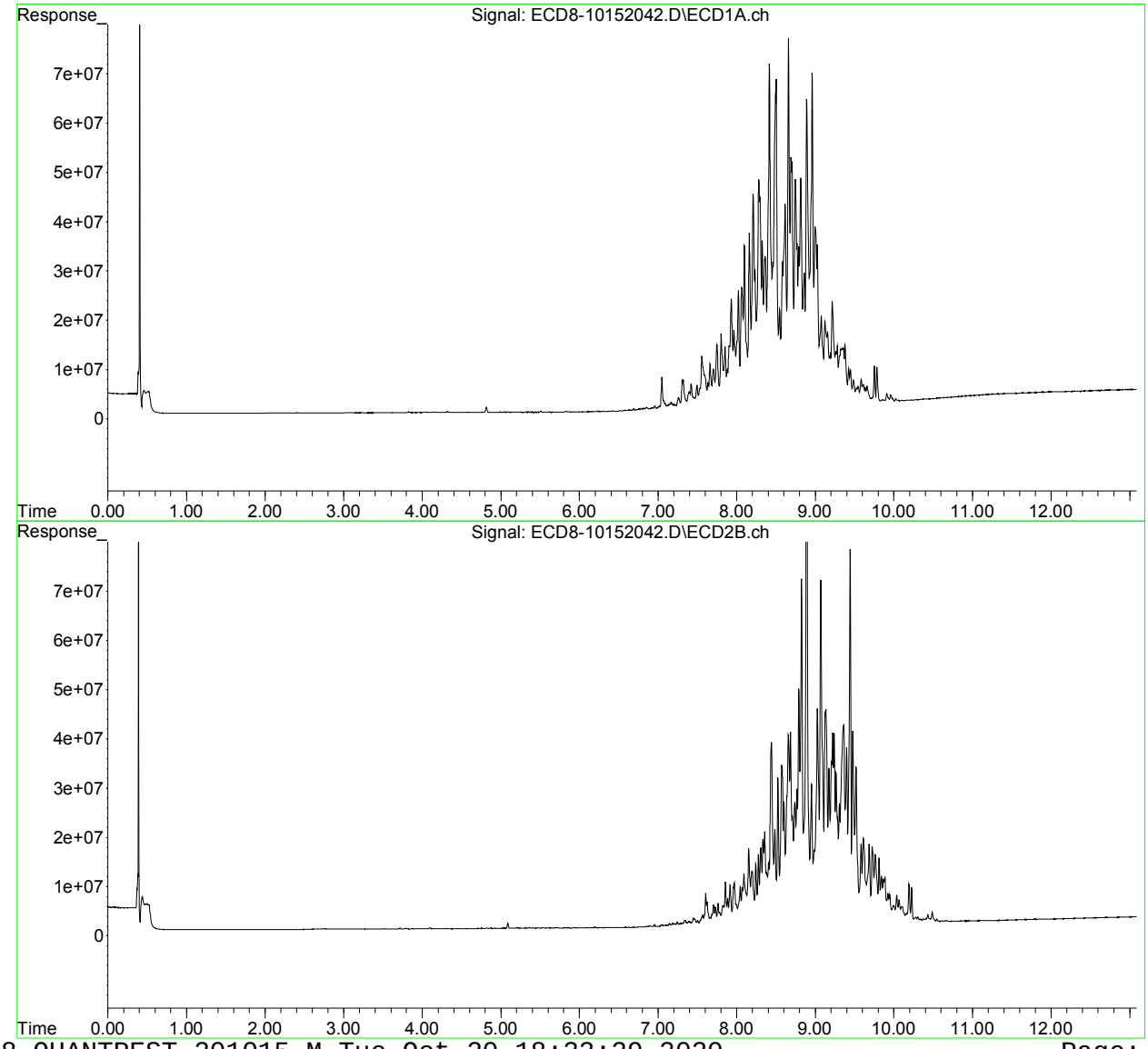
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.281	8.737	46026301	24823485	11.536	5.719	#
31)	Mirex	8.962	9.611f	67239784	17309336	28.228	6.884	#
32)	Chlordane...	7.702f	8.092	7875633	10538130	19.118	21.633	
33)	Chlordane...	7.802	8.195f	15006216	10888998	35.801	26.302	#
34)	Chlordane...	8.363	8.891f	30223958	120.1E6	234.373	887.867	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.802	8.442	15006216	37044200	1008.701	974.705	
37)	Toxaphene...	8.098	8.791	32732158	47836415	993.730	1014.679	
38)	Toxaphene...	8.418	8.824	69458796	70093512	1001.953	996.600	
39)	Toxaphene...	8.656	8.891	74462214	120.1E6	1000.560	1007.988	
40)	Toxaphene...	8.891	9.069	61876109	69799894	1042.331	1013.201	
41)	Toxaphene...	8.962	9.442	67239784	75965801	998.731	1014.477	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:26
Operator : MJB
Sample : 0J15061-CALV
Misc : A20D431, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:41 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:43
Operator : MJB
Sample : 0J15061-CALW
Misc : A20F063, TOX 2000 ppb MJB 10/20/20
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.683	5.984	29722	27925	0.008	0.007	
22)	S	DCBP (S)	9.909	10.483f	3621144	4119258	1.199	1.703	#
		Target Compounds							
2)		a-BHC	6.231	6.583	231252	258471	0.049	0.048	
3)		g-BHC	6.519	6.889	180773	609988	0.045	0.131	#
4)		b-BHC	6.604	6.954	241938	1022978	0.155	0.523	#
5)		Heptachlor	6.927	7.281	974779	1463841	0.240	0.320	#
6)		d-BHC	6.757	7.216	647555	1052197	0.269	0.328	
7)		Aldrin	7.165	7.536	2842940	2196807	0.724	0.515	#
8)		Heptachlo...	7.635	7.968	10965009	17926689	2.999	4.464	#
9)		trans-Chl...	7.701f	8.092	16781813	22214335	4.557	5.581	
10)		cis-Chlor...	7.802	8.243f	31810920	26722191	8.782	6.888	
11)		Endosulfa...	7.930	8.275	45871163	30727897	13.486	8.544	#
12)		4,4'-DDE	7.881	8.302	16042587	34225903	5.091	9.950	#
13)		Dieldrin	8.098	8.482	67923479	40887171	18.080	10.550	#
14)		Endrin	8.279	8.685	97653004	85738203	35.609	31.040	
15)		4,4'-DDD	8.279f	8.737	97653004	53581524	35.906	18.080	#
16)		Endosulfa...	8.418	8.823	147.3E6	151.2E6	50.013	46.431	
17)		4,4'-DDT	8.502	8.952	139.8E6	62591169	51.057	21.952	#
18)		Endrin Al...	8.705	9.069	106.2E6	153.5E6	37.134	50.359	#
19)		Endosulfa...	9.024	9.263	69188535	66239565	23.151	19.935	
20)		Methoxychlor	8.813	9.442	96529580	163.3E6	70.122	98.310	#
21)		Endrin Ke...	9.214	9.684f	44336334	36331764	11.990	9.301	
23)		Hexachlor...	0.000	3.712	0	11183	N.D.	BelowCal	
24)		Hexachlor...	6.068	6.450	20709	83763	0.006	0.021	#
25)		Oxychlordane	7.557	7.916	21980402	16881908	6.751	4.730	#
26)		2,4'-DDE	7.635	8.092	10965009	22214335	5.092	9.032	#
27)		trans-Non...	7.802	8.189	31810920	22819927	8.727	5.706	#
28)		2,4'-DDD	8.019	8.482	50836959	40887171	26.167	17.876	#
29)		2,4'-DDT	8.162	8.685	75080299	85738203	34.527	38.144	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:43
Operator : MJB
Sample : 0J15061-CALW
Misc : A20F063, TOX 2000 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation

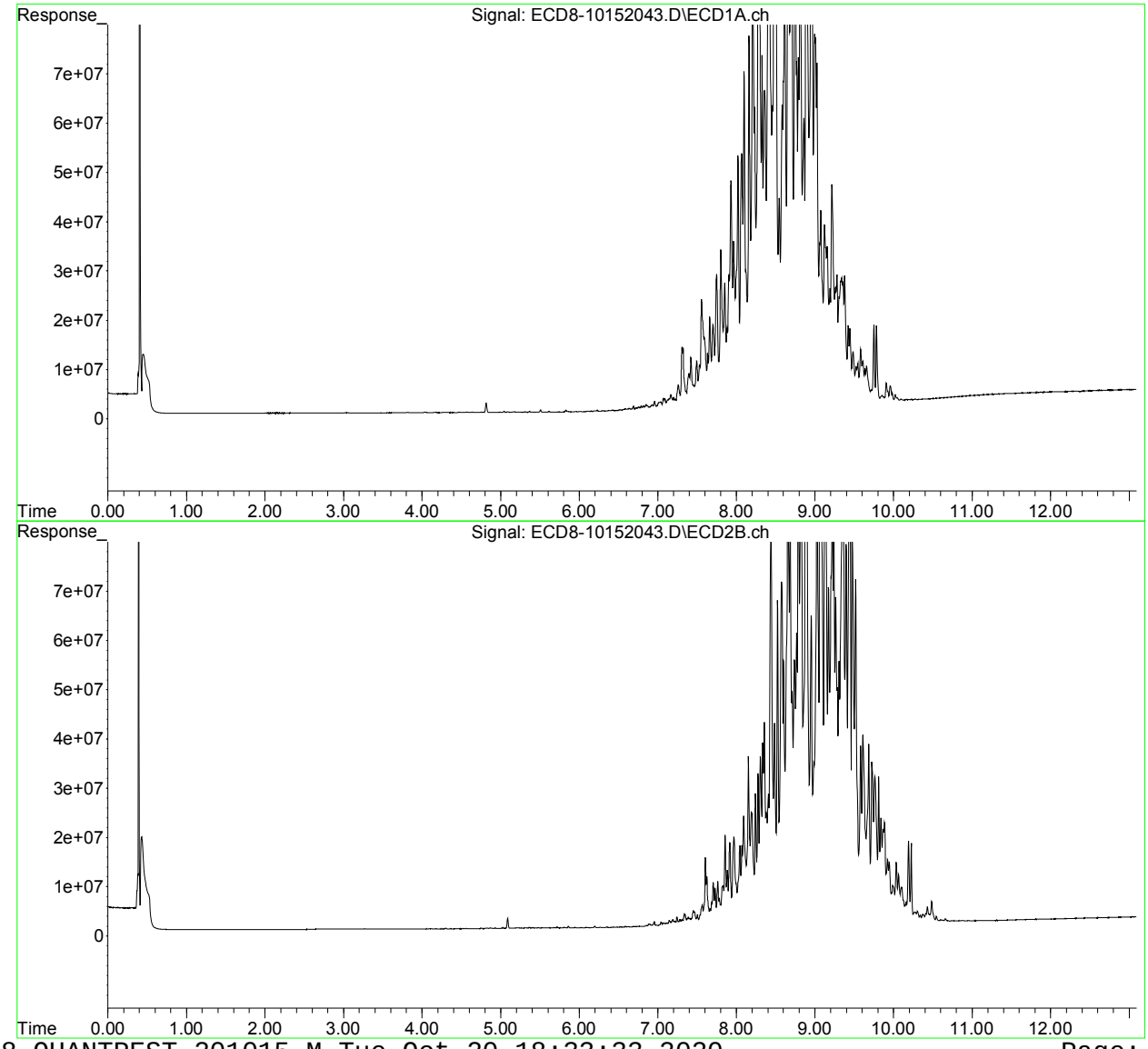
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.279	8.737	97653004	53581524	24.476	12.345	#
31)	Mirex	8.961	9.609f	145.1E6	38175088	61.250	15.500	#
32)	Chlordane...	7.701f	8.092	16781813	22214335	40.737	45.601	
33)	Chlordane...	7.802	8.189f	31810920	22819927	75.892	55.120	#
34)	Chlordane...	8.359	8.891	63898589	255.8E6	495.505	1891.406	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.802	8.441	31810920	79634590	2138.294	2095.340	
37)	Toxaphene...	8.098	8.790	67923479	104.7E6	2062.120	2221.643	
38)	Toxaphene...	8.418	8.823	147.3E6	151.2E6	2124.971	2149.504	
39)	Toxaphene...	8.656	8.891	154.2E6	255.8E6	2072.357	2147.299	
40)	Toxaphene...	8.890	9.069	130.9E6	153.5E6	2205.824	2227.970	
41)	Toxaphene...	8.961	9.442	145.1E6	163.3E6	2155.225	2180.994	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\
Data File : ECD8-10152043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:43
Operator : MJB
Sample : 0J15061-CALW
Misc : A20F063, TOX 2000 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:36:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:18:04 2020
Response via : Initial Calibration
Integrator: ChemStation



Sequence Name: C:\msdchem\1\sequence\0J15061.s
Comment: Pesticides
Operator: MJB
Data Path: C:\MSDCHEM\1\DATA\2020-10\0J15061\
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	51	Conditioning Run
Datafile		ECD8-10152001
Method		ECD8_AQUPEST_190925
2) Sample	51	Conditioning Run
Datafile		ECD8-10152002
Method		ECD8_AQUPEST_190925
3) Sample	1	Hexane
Datafile		ECD8-10152003
Method		ECD8_AQUPEST_190925
4) Sample	2	0J15061-BKD1
Datafile		ECD8-10152004
Method		ECD8_AQUPEST_190925
5) Sample	3	0J15061-ICB1
Datafile		ECD8-10152005
Method		ECD8_AQUPEST_190925
6) Sample	4	0J15061-CAL1
Datafile		ECD8-10152006
Method		ECD8_AQUPEST_190925
7) Sample	5	0J15061-CAL2
Datafile		ECD8-10152007
Method		ECD8_AQUPEST_190925
8) Sample	6	0J15061-CAL3
Datafile		ECD8-10152008
Method		ECD8_AQUPEST_190925
9) Sample	7	0J15061-CAL4
Datafile		ECD8-10152009
Method		ECD8_AQUPEST_190925
10) Sample	8	0J15061-CAL5
Datafile		ECD8-10152010
Method		ECD8_AQUPEST_190925
11) Sample	9	0J15061-CAL6
Datafile		ECD8-10152011
Method		ECD8_AQUPEST_190925
12) Sample	10	0J15061-CAL7
Datafile		ECD8-10152012
Method		ECD8_AQUPEST_190925
13) Sample	11	0J15061-CAL8
Datafile		ECD8-10152013
Method		ECD8_AQUPEST_190925
14) Sample	12	0J15061-CAL9

MJB 10/20/20

Last Modified: Thu Oct 15 17:59:06 2020 Page: 1

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     Datafile          ECD8-10152014
     Method            ECD8_AQUPEST_190925
15) Sample          1  0J15061-IBL1
     Datafile          ECD8-10152015
     Method            ECD8_AQUPEST_190925
16) Sample         13  0J15061-ICV1
     Datafile          ECD8-10152016
     Method            ECD8_AQUPEST_190925
17) Sample         14  0J15061-CALA
     Datafile          ECD8-10152017
     Method            ECD8_AQUPEST_190925
18) Sample         15  0J15061-CALB
     Datafile          ECD8-10152018
     Method            ECD8_AQUPEST_190925
19) Sample         16  0J15061-CALC
     Datafile          ECD8-10152019
     Method            ECD8_AQUPEST_190925
20) Sample         17  0J15061-CALD
     Datafile          ECD8-10152020
     Method            ECD8_AQUPEST_190925
21) Sample         18  0J15061-CALE
     Datafile          ECD8-10152021
     Method            ECD8_AQUPEST_190925
22) Sample         19  0J15061-CALF
     Datafile          ECD8-10152022
     Method            ECD8_AQUPEST_190925
23) Sample         20  0J15061-CALG
     Datafile          ECD8-10152023
     Method            ECD8_AQUPEST_190925
24) Sample         21  0J15061-CALH
     Datafile          ECD8-10152024
     Method            ECD8_AQUPEST_190925
25) Sample         22  0J15061-CALI
     Datafile          ECD8-10152025
     Method            ECD8_AQUPEST_190925
26) Sample          1  0J15061-IBL2
     Datafile          ECD8-10152026
     Method            ECD8_AQUPEST_190925
27) Sample         23  0J15061-ICV2
     Datafile          ECD8-10152027
     Method            ECD8_AQUPEST_190925
28) Sample         24  0J15061-CALJ
     Datafile          ECD8-10152028
     Method            ECD8_AQUPEST_190925
29) Sample         25  0J15061-CALK
     Datafile          ECD8-10152029
     Method            ECD8_AQUPEST_190925
30) Sample         26  0J15061-CALL
     Datafile          ECD8-10152030
     Method            ECD8_AQUPEST_190925
31) Sample         27  0J15061-CALM
     Datafile          ECD8-10152031
     Method            ECD8_AQUPEST_190925
32) Sample         28  0J15061-CALN
     Datafile          ECD8-10152032
     Method            ECD8_AQUPEST_190925
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33)	Sample	29	0J15061-CALO
	Datafile		ECD8-10152033
	Method		ECD8_AQUPEST_190925
34)	Sample	30	0J15061-CALP
	Datafile		ECD8-10152034
	Method		ECD8_AQUPEST_190925
35)	Sample	1	0J15061-IBL3
	Datafile		ECD8-10152035
	Method		ECD8_AQUPEST_190925
36)	Sample	31	0J15061-ICV3
	Datafile		ECD8-10152036
	Method		ECD8_AQUPEST_190925
37)	Sample	32	0J15061-CALQ
	Datafile		ECD8-10152037
	Method		ECD8_AQUPEST_190925
38)	Sample	33	0J15061-CALR
	Datafile		ECD8-10152038
	Method		ECD8_AQUPEST_190925
39)	Sample	34	0J15061-CALS
	Datafile		ECD8-10152039
	Method		ECD8_AQUPEST_190925
40)	Sample	35	0J15061-CALT
	Datafile		ECD8-10152040
	Method		ECD8_AQUPEST_190925
41)	Sample	36	0J15061-CALU
	Datafile		ECD8-10152041
	Method		ECD8_AQUPEST_190925
42)	Sample	37	0J15061-CALV
	Datafile		ECD8-10152042
	Method		ECD8_AQUPEST_190925
43)	Sample	38	0J15061-CALW
	Datafile		ECD8-10152043
	Method		ECD8_AQUPEST_190925

Sequence Name: C:\msdchem\1\sequence\0J15061.s

	Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample		1	0J15061-IBL4		
	Datafile			ECD8-10152044		
	Method				ECD8_AQUPEST_190925	
45)	Sample		39	0J15061-ICV4		
	Datafile			ECD8-10152045		
	Method				ECD8_AQUPEST_190925	

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0J15061 BKD1
Data File: ECD8-10152004.D

MJB 10/20/20

First Column Area Counts		Percent Breakdown	
DDE	14419604		
DDD	58554163		
DDT	3079360071	**2.31**	**PASS**
Endrin	1486236394	**14.14**	**PASS**
Endrin Aldehyde	117232627		
Endrin Ketone	127558941		

Second Column Area Counts		Percent Breakdown	
DDE	12286539		
DDD	61669829		
DDT	3272306813	**2.21**	**PASS**
Endrin	1512722337	**12.75**	**PASS**
Endrin Aldehyde	100892211		
Endrin Ketone	120214070		

Breakdown must be less than 20% for Method 608. For method 8081 it must be less than 15% or within 7.5% of the breakdown prior to the most recent calibration.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 17:58
Operator : MJB
Sample : 0J15061-BKD1
Misc : A20H479
ALS Vial : 2 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 15 18:14:22 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_2010015.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation

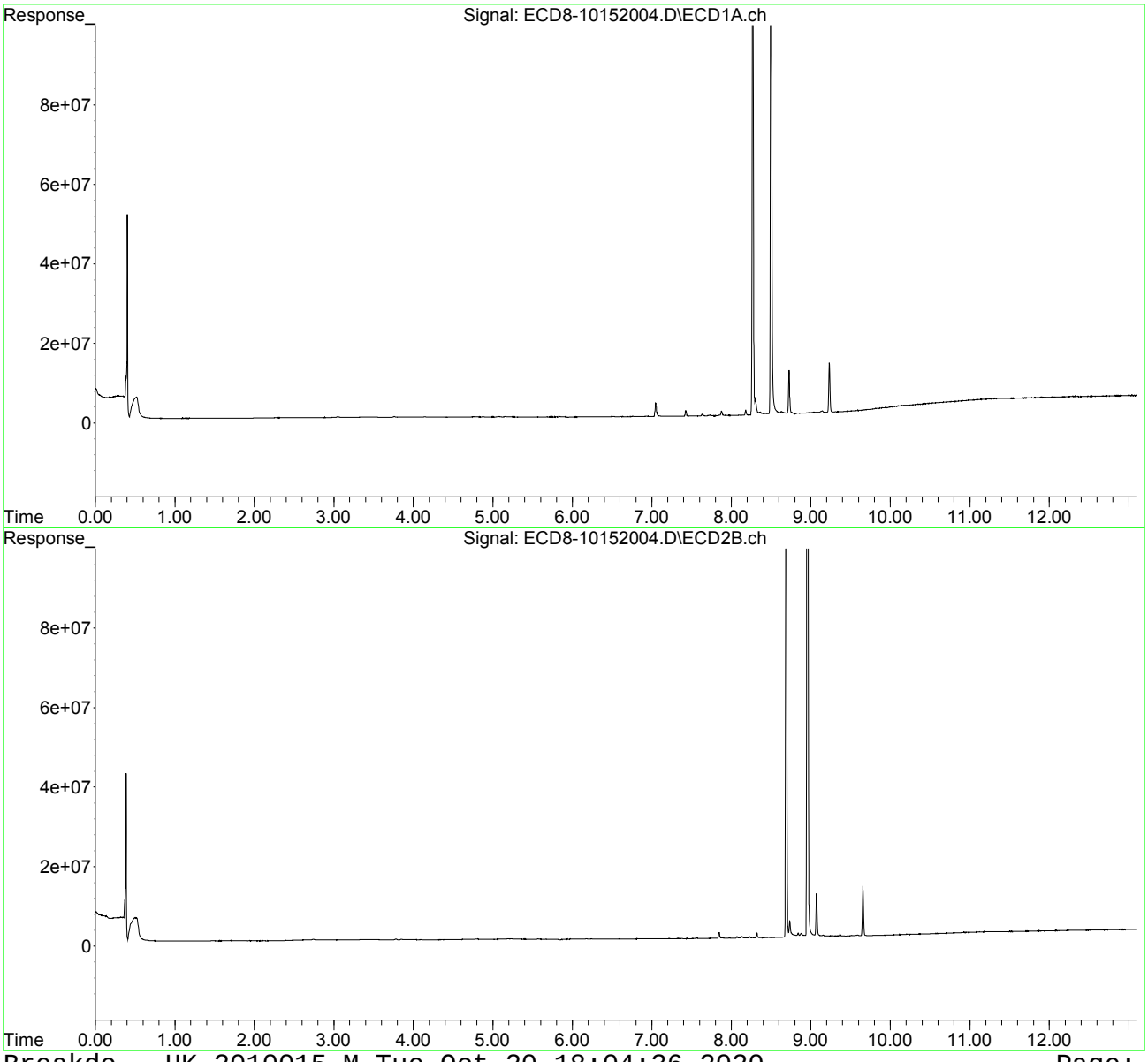
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)	4,4'-DDE	7.875	14419604	NoCal	ng/mL
2)	Endrin	8.269	1486236394	NoCal	ng/mL
3)	4,4'-DDD	8.303	58554163	NoCal	ng/mL
4)	4,4'-DDT	8.499	3079360071	NoCal	ng/mL
5)	Endrin Aldehyde	8.725	117232627	NoCal	ng/mL
6)	Endrin Ketone	9.232	127558941	NoCal	ng/mL
8)	4,4'-DDE [2C]	8.321	12286539	NoCal	ng/mL
9)	Endrin [2C]	8.690	1512722337	NoCal	ng/mL
10)	4,4'-DDD [2C]	8.734	61669829	NoCal	ng/mL
11)	Endrin Aldehyde [2C]	9.071	100892211	NoCal	ng/mL
12)	4,4'-DDT [2C]	8.958	3272306813	NoCal	ng/mL
13)	Endrin Ketone [2C]	9.656	120214070	NoCal	ng/mL

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 17:58
Operator : MJB
Sample : 0J15061-BKD1
Misc : A20H479
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 15 18:14:22 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_2010015.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:41:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.683	5.990	1964465	2094674	0.526	0.597	
22)	S DCBP (S)	9.904	10.506	1866301	1410803	0.392	0.440	
	Target Compounds							
2)	a-BHC	6.233	6.585	2328682	2455359	0.473	0.596	#
3)	g-BHC	6.521	6.901	2071350	2228225	0.468	0.575	
4)	b-BHC	6.608	6.970	816885	1065650	0.411	0.565	#
5)	Heptachlor	6.920	7.274	2088406	2266099	0.493	0.561	
6)	d-BHC	6.761	7.218	1397611	1816056	0.339	0.511	#
7)	Aldrin	7.163	7.538	1983865	1985635	0.455	0.534	
8)	Heptachlo...	7.633	7.973	1984641	2034040	0.490	0.556	
9)	trans-Chl...	7.727	8.112	1925594	1969558	0.465	0.532	
10)	cis-Chlor...	7.824	8.219	1943677	1990595	0.474	0.561	
11)	Endosulfa...	7.928	8.269	1806599	1819190	0.479	0.549	
12)	4,4'-DDE	7.880	8.323	1488674	1588759	0.364	0.481	#
13)	Dieldrin	8.101	8.467	1890452	1903893	0.447	0.518	
14)	Endrin	8.271	8.691	1343181	1241690	0.444	0.480	
15)	4,4'-DDD	8.309	8.736	1338233	1460301	0.401	0.518	#
16)	Endosulfa...	8.435	8.839	1532660	1655922	0.474	0.564	
17)	4,4'-DDT	8.503	8.959	1202509	1227833	0.389	0.462	
18)	Endrin Al...	8.729	9.073	2173619	2196243	0.660	0.771	
19)	Endosulfa...	9.033	9.266	1731826	1864404	0.598	0.735	
20)	Methoxychlor	8.835	9.425	712510	771752	0.470	0.520	
21)	Endrin Ke...	9.235	9.657	2069188	7722012	0.895	4.572	#
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	

Not used in calibration

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:41:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

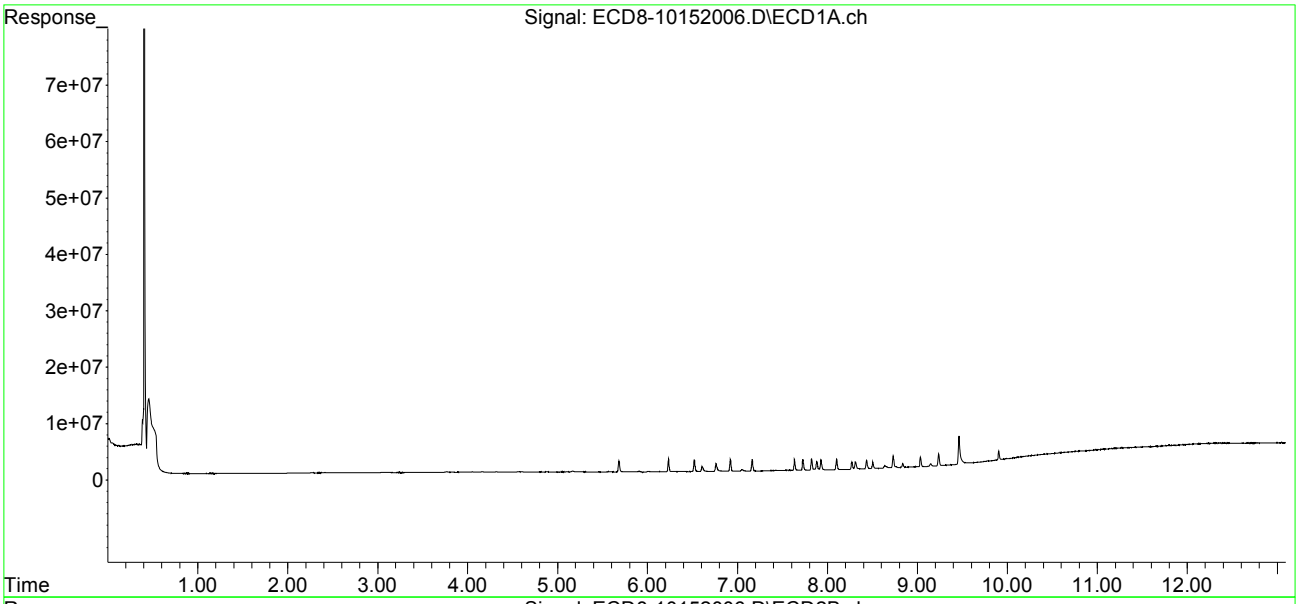
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	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

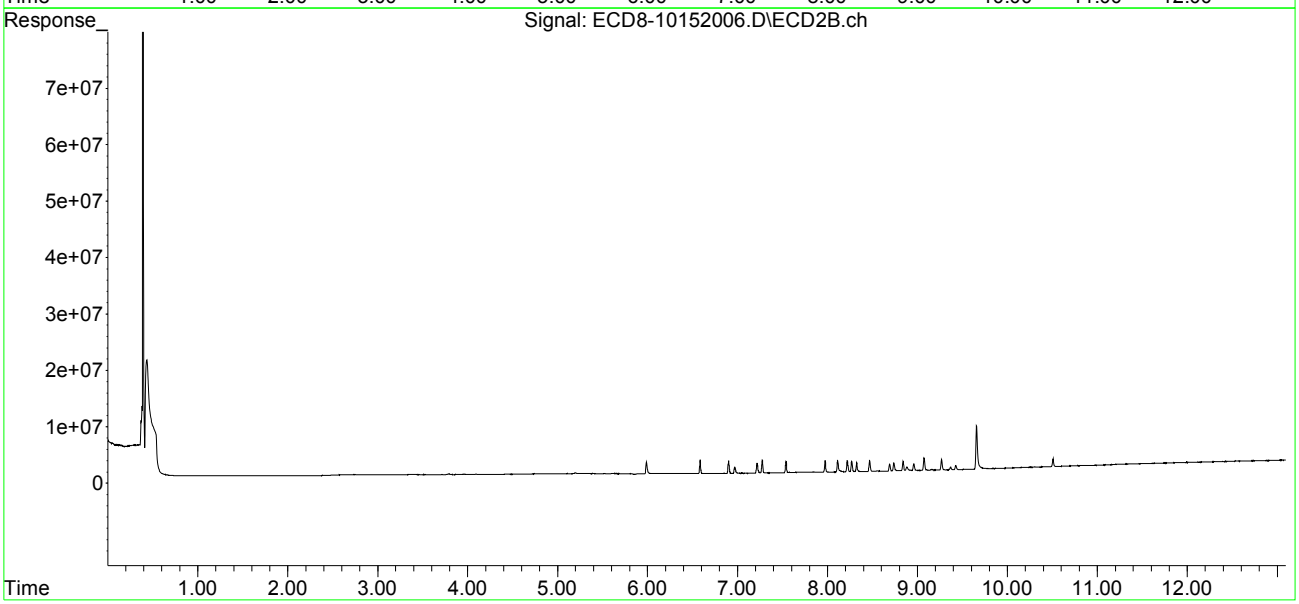
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:32
Operator : MJB
Sample : 0J15061-CAL1
Misc : A20J274, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:41:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:48
Operator : MJB
Sample : 0J15061-CAL2
Misc : A20J275, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:42:51 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.683	5.990	3675375	3996914	0.985	1.139	
22) S	DCBP (S)	9.903	10.505	3197716	2586506	0.832	1.013	
	Target Compounds							
2)	a-BHC	6.233	6.585	4586018	4866992	0.931	1.141	
3)	g-BHC	6.520	6.900	3906552	4265430	0.883	1.101	
4)	b-BHC	6.607	6.969	1540562	1994989	0.776	1.058	#
5)	Heptachlor	6.919	7.273	4125267	4334823	0.974	1.103	
6)	d-BHC	6.760	7.217	2771438	3592643	0.672	0.978	#
7)	Aldrin	7.161	7.537	3890178	3922163	0.891	1.063	
8)	Heptachlo...	7.632	7.972	3780245	3912347	0.934	1.069	
9)	trans-Chl...	7.726	8.112	3633454	3716881	0.878	1.003	
10)	cis-Chlor...	7.823	8.219	3710813	3697197	0.905	1.042	
11)	Endosulfa...	7.927	8.269	3420833	3424701	0.907	1.034	
12)	4,4'-DDE	7.878	8.323	2806594	3083622	0.687	0.916	#
13)	Dieldrin	8.100	8.467	3676591	3654098	0.869	0.994	
14)	Endrin	8.270	8.690	2564407	2521951	0.848	1.009	
15)	4,4'-DDD	8.307	8.736	2561702	2804997	0.767	0.987	#
16)	Endosulfa...	8.433	8.838	2928662	3080696	0.906	1.050	
17)	4,4'-DDT	8.501	8.959	2340699	2447680	0.758	0.935	
18)	Endrin Al...	8.728	9.072	3907593	3815413	1.187	1.340	
19)	Endosulfa...	9.032	9.266	3157154	3258540	1.090	1.320	
20)	Methoxychlor	8.833	9.424	1332109	1490489	0.879	1.005	
21)	Endrin Ke...	9.234	9.657	3789042	4169368	1.639	2.430	#
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	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:48
Operator : MJB
Sample : 0J15061-CAL2
Misc : A20J275, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:42:51 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

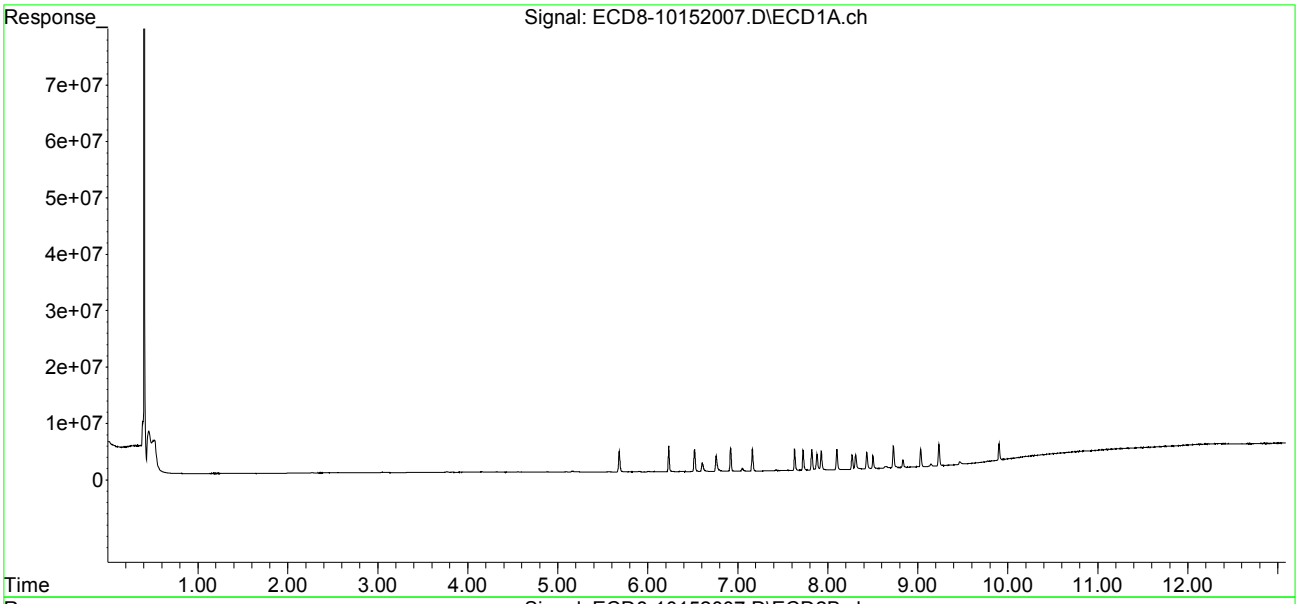
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	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

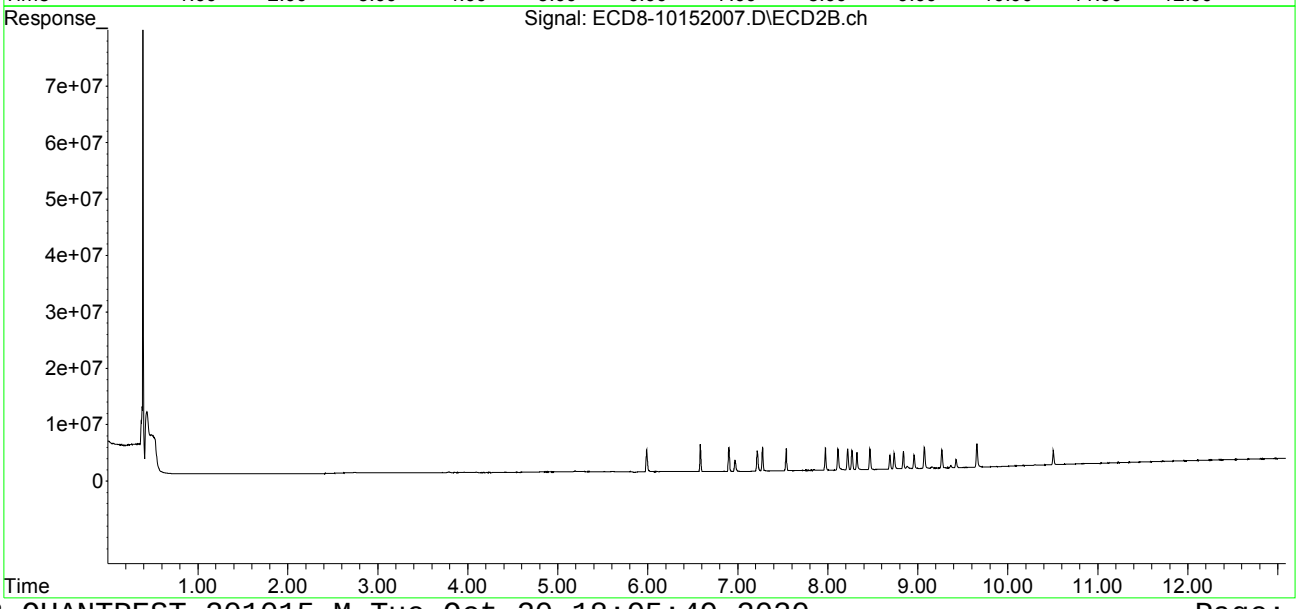
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 18:48
Operator : MJB
Sample : 0J15061-CAL2
Misc : A20J275, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:42:51 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:05
Operator : MJB
Sample : 0J15061-CAL3
Misc : A20H471, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:43:34 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.682	5.990	6974987	7527988	1.869	2.145	
22) S	DCBP (S)	9.902	10.505	5701683	4791544	1.660	2.087	#
	Target Compounds							
2)	a-BHC	6.233	6.585	9063124	9584271	1.841	2.203	
3)	g-BHC	6.520	6.900	7694107	8481393	1.739	2.185	#
4)	b-BHC	6.604	6.968	3020188	3743280	1.521	1.986	#
5)	Heptachlor	6.919	7.274	7834074	8356845	1.850	2.154	
6)	d-BHC	6.758	7.216	5908930	7521244	1.432	2.009	#
7)	Aldrin	7.162	7.536	7559480	7805224	1.732	2.120	
8)	Heptachlo...	7.631	7.971	7111174	7501012	1.756	2.049	
9)	trans-Chl...	7.725	8.111	7224345	7196150	1.746	1.942	
10)	cis-Chlor...	7.822	8.217	6946216	7123870	1.694	2.008	
11)	Endosulfa...	7.926	8.268	6845706	6450502	1.814	1.947	
12)	4,4'-DDE	7.875	8.320	5832058	6467389	1.427	1.897	#
13)	Dieldrin	8.099	8.466	7217877	7205936	1.707	1.959	
14)	Endrin	8.269	8.690	5198958	4965041	1.719	2.017	
15)	4,4'-DDD	8.305	8.734	5108732	5453646	1.530	1.910	
16)	Endosulfa...	8.431	8.836	5775620	5953424	1.786	2.029	
17)	4,4'-DDT	8.499	8.957	4776266	4865206	1.546	1.871	
18)	Endrin Al...	8.726	9.071	7357293	7179367	2.234	2.522	
19)	Endosulfa...	9.031	9.265	5905541	6267396	2.039	2.578	#
20)	Methoxychlor	8.831	9.424	2713959	2917738	1.791	1.968	
21)	Endrin Ke...	9.233	9.655	7274419	7194544	3.147	4.255	#
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	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:05
Operator : MJB
Sample : 0J15061-CAL3
Misc : A20H471, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:43:34 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

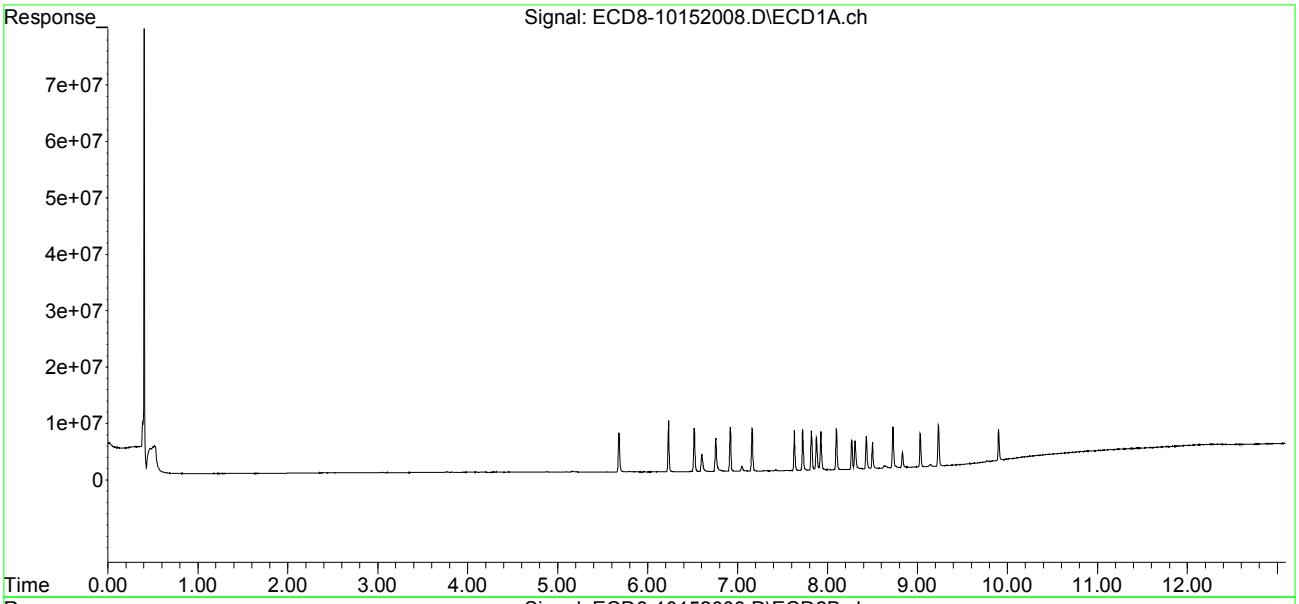
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	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

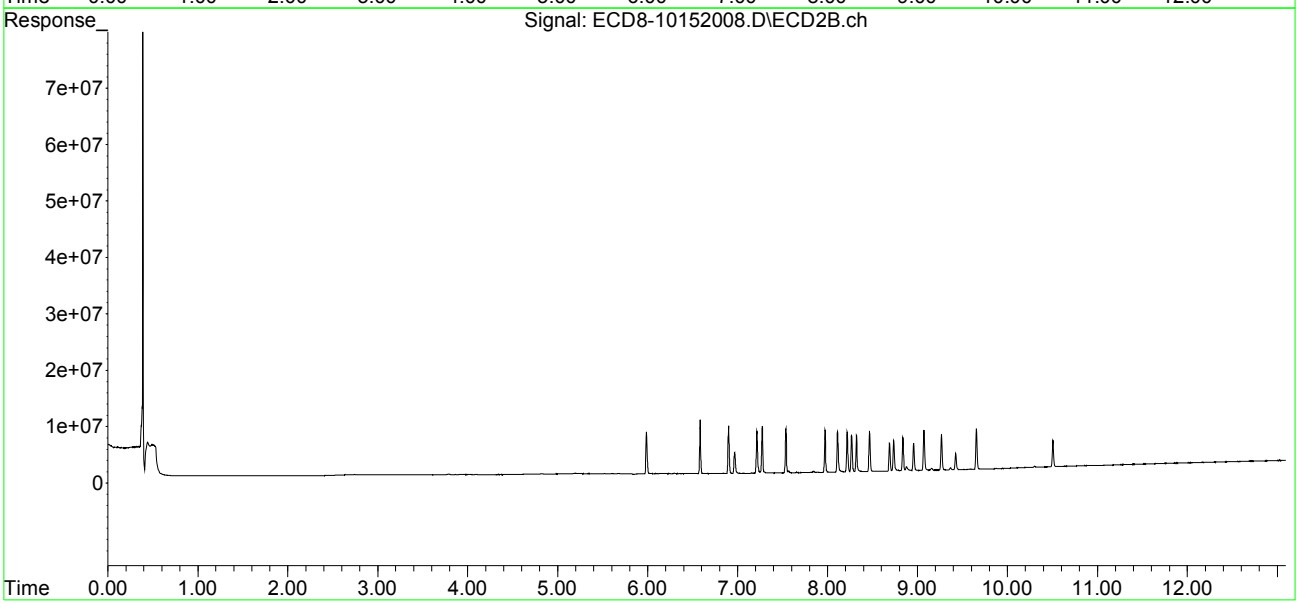
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:05
Operator : MJB
Sample : 0J15061-CAL3
Misc : A20H471, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:43:34 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:21
Operator : MJB
Sample : 0J15061-CAL4
Misc : A20H472, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:44:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.682	5.990	16956681	18484065	4.543	5.266	
22)	S DCBP (S)	9.902	10.505	12863204	11283832	4.027	5.235	#
	Target Compounds							
2)	a-BHC	6.233	6.585	22751844	25276916	4.620	5.713	
3)	g-BHC	6.521	6.900	18571945	21316708	4.199	5.463	#
4)	b-BHC	6.605	6.968	6967859	8823163	3.510	4.680	#
5)	Heptachlor	6.920	7.274	19135941	20724830	4.520	5.366	
6)	d-BHC	6.759	7.216	14723164	19014583	3.569	5.008	#
7)	Aldrin	7.163	7.537	19043093	19417167	4.364	5.263	
8)	Heptachlo...	7.633	7.971	17849960	18369288	4.408	5.018	
9)	trans-Chl...	7.725	8.111	17399945	18128038	4.205	4.892	
10)	cis-Chlor...	7.823	8.218	17370803	17821595	4.236	5.023	
11)	Endosulfa...	7.927	8.268	16393128	16389737	4.345	4.948	
12)	4,4'-DDE	7.876	8.320	14353371	15866253	3.511	4.605	#
13)	Dieldrin	8.100	8.466	18084070	18768975	4.276	5.103	
14)	Endrin	8.270	8.689	12643881	12382702	4.182	5.055	
15)	4,4'-DDD	8.306	8.734	12317174	13730751	3.688	4.774	#
16)	Endosulfa...	8.432	8.836	13817746	14467378	4.273	4.931	
17)	4,4'-DDT	8.500	8.958	11690217	12754125	3.783	4.897	#
18)	Endrin Al...	8.726	9.071	14781149	15071497	4.489	5.294	
19)	Endosulfa...	9.031	9.265	13964857	14969553	4.822	6.186	#
20)	Methoxychlor	8.832	9.423	6325525	6672527	4.174	4.500	
21)	Endrin Ke...	9.234	9.655	18023751	17644405	7.798	10.452	#
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	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:21
Operator : MJB
Sample : 0J15061-CAL4
Misc : A20H472, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:44:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

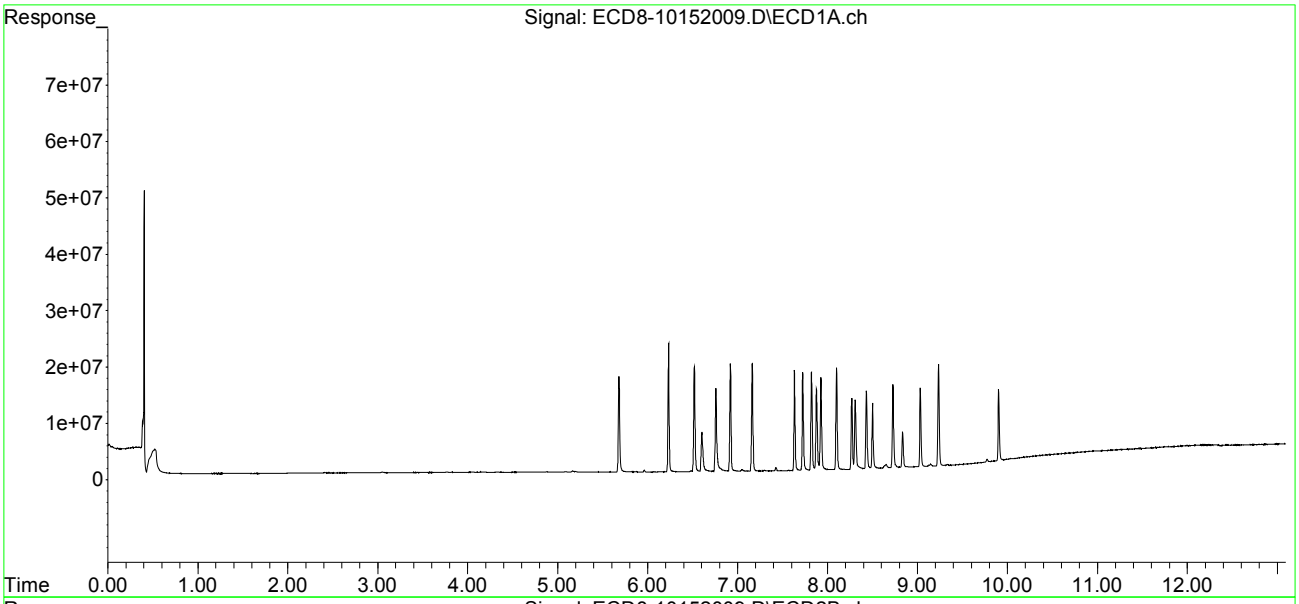
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	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

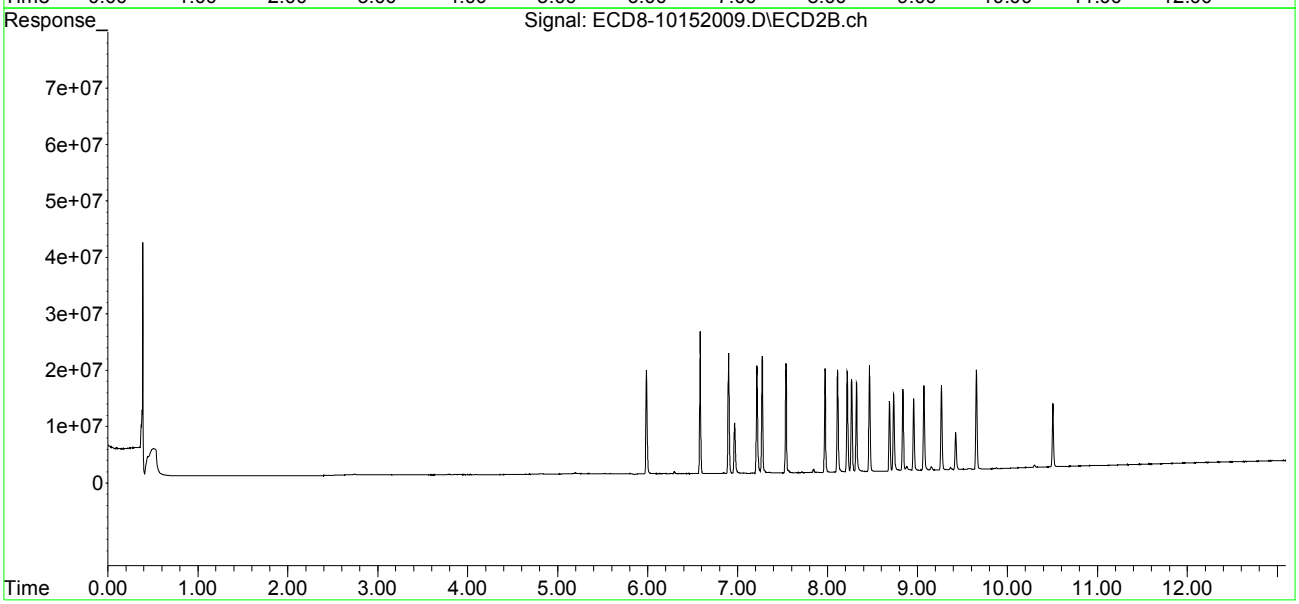
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:21
Operator : MJB
Sample : 0J15061-CAL4
Misc : A20H472, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:44:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:38
Operator : MJB
Sample : 0J15061-CAL5
Misc : A20H473, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:44:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.682	5.989	33785802	37691189	9.052	10.737	
22) S	DCBP (S)	9.902	10.504	25663363	22219920	8.256	10.497	#
	Target Compounds							
2)	a-BHC	6.233	6.584	45945237	51661582	9.330	11.530	
3)	g-BHC	6.520	6.900	39002587	45048871	8.818	11.429	#
4)	b-BHC	6.603	6.967	14251469	17799613	7.178	9.442	#
5)	Heptachlor	6.919	7.273	39173115	44108090	9.252	11.354	
6)	d-BHC	6.757	7.215	30313826	40912398	7.349	10.648	#
7)	Aldrin	7.161	7.536	39135359	41106892	8.968	11.056	
8)	Heptachlo...	7.631	7.971	35393917	38488002	8.740	10.514	
9)	trans-Chl...	7.725	8.111	35298078	37624061	8.531	10.154	
10)	cis-Chlor...	7.822	8.218	35411410	37266618	8.635	10.504	
11)	Endosulfa...	7.926	8.267	32830959	34291287	8.702	10.353	
12)	4,4'-DDE	7.875	8.320	30250769	33692294	7.400	9.671	#
13)	Dieldrin	8.099	8.466	37548230	38676878	8.879	10.516	
14)	Endrin	8.269	8.689	25971387	24972648	8.589	10.140	
15)	4,4'-DDD	8.305	8.733	25608106	29438067	7.667	10.135	#
16)	Endosulfa...	8.431	8.835	28511350	30118924	8.817	10.266	
17)	4,4'-DDT	8.499	8.957	25096147	26962252	8.122	10.249	#
18)	Endrin Al...	8.725	9.070	27881516	29477669	8.468	10.355	
19)	Endosulfa...	9.030	9.264	28097911	30451627	9.701	12.503	#
20)	Methoxychlor	8.832	9.423	12655213	14104841	8.350	9.512	
21)	Endrin Ke...	9.232	9.654	35605046	36555813	15.404	21.272	#
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	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:38
Operator : MJB
Sample : 0J15061-CAL5
Misc : A20H473, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:44:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

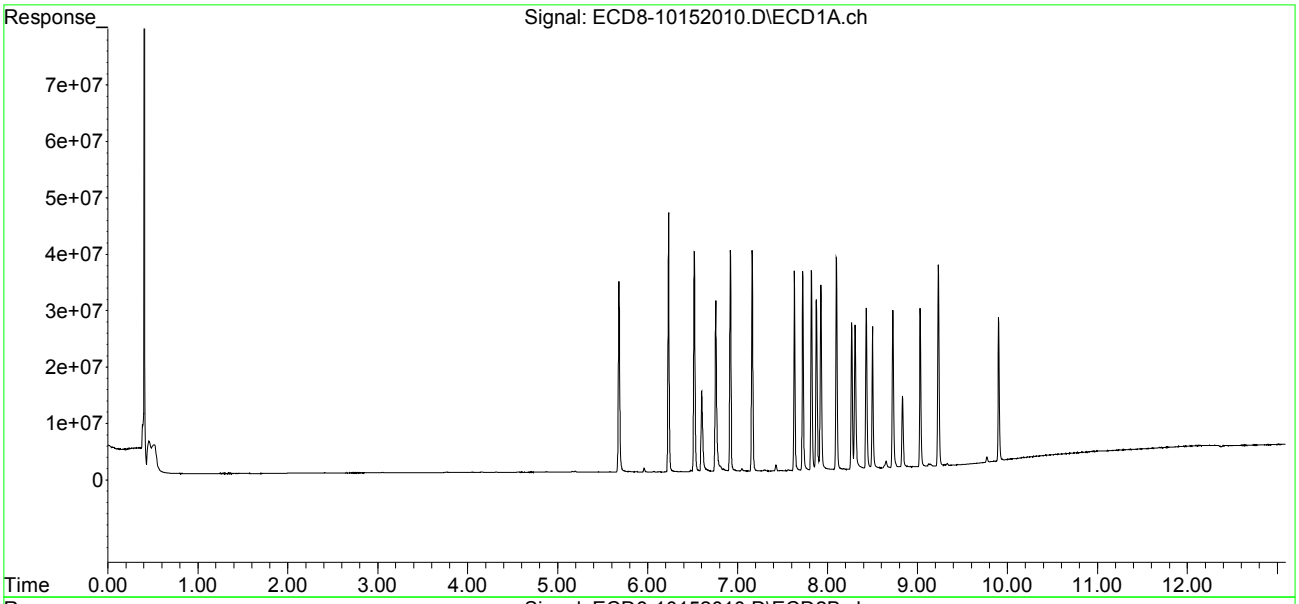
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	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

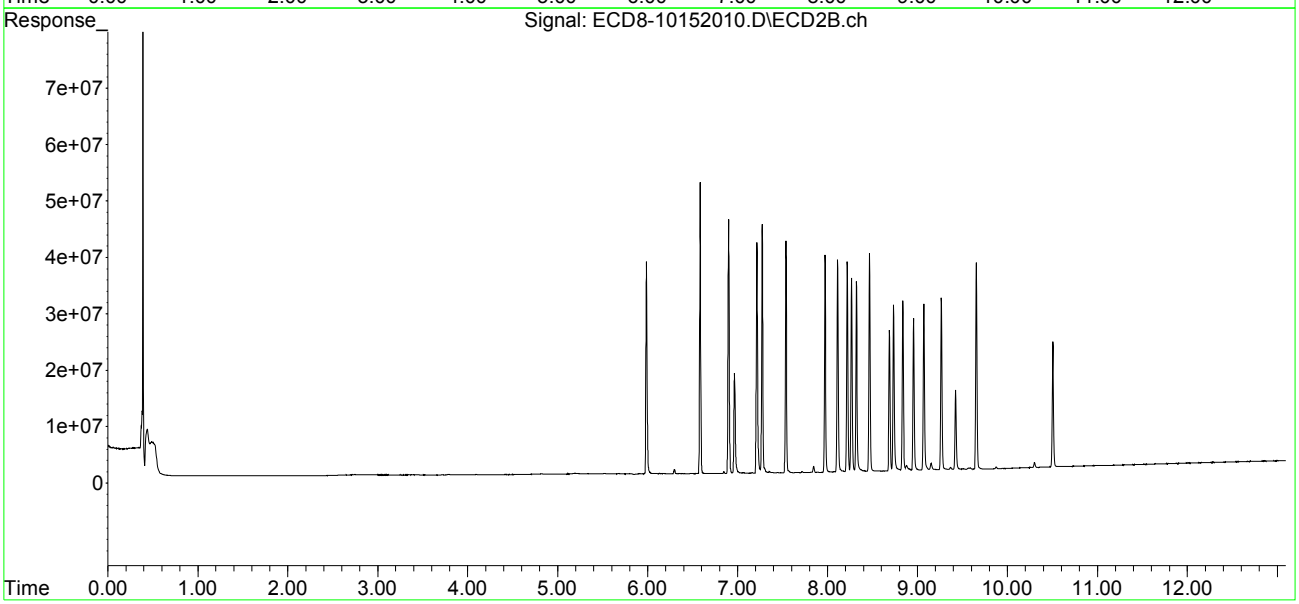
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:38
Operator : MJB
Sample : 0J15061-CAL5
Misc : A20H473, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:44:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:54
Operator : MJB
Sample : 0J15061-CAL6
Misc : A20H474, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:45:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.682	5.989	86612386	97518197	23.205	27.780	
22) S	DCBP (S)	9.902	10.504	62318460	56260952	20.357	26.560	#
	Target Compounds							
2)	a-BHC	6.233	6.585	120.1E6	137.7E6	24.387	29.817	
3)	g-BHC	6.520	6.900	100.3E6	118.2E6	22.681	29.116	#
4)	b-BHC	6.601	6.966	38003561	46171935	19.142	24.491	#
5)	Heptachlor	6.919	7.273	101.7E6	114.2E6	24.015	28.698	
6)	d-BHC	6.755	7.215	82864455	109.6E6	20.089	27.749	#
7)	Aldrin	7.161	7.536	97817805	109.3E6	22.416	28.644	#
8)	Heptachlo...	7.631	7.971	89599740	99299787	22.126	27.125	
9)	trans-Chl...	7.724	8.111	91365998	97950589	22.082	26.435	
10)	cis-Chlor...	7.821	8.217	88782494	95308938	21.649	26.863	
11)	Endosulfa...	7.925	8.267	83964035	90769540	22.254	27.403	
12)	4,4'-DDE	7.874	8.320	79179643	92501534	19.368	25.791	#
13)	Dieldrin	8.099	8.466	93635281	103.9E6	22.141	28.239	#
14)	Endrin	8.269	8.689	68701409	70747094	22.721	27.943	
15)	4,4'-DDD	8.304	8.733	67884289	76853167	20.325	25.769	#
16)	Endosulfa...	8.431	8.836	72694490	79168334	22.480	26.985	
17)	4,4'-DDT	8.499	8.957	68705008	76033637	22.235	27.860	#
18)	Endrin Al...	8.726	9.070	68571764	73274578	20.825	25.739	
19)	Endosulfa...	9.030	9.264	71990912	78726299	24.856	31.433	#
20)	Methoxychlor	8.831	9.422	32595572	37809034	21.508	25.499	
21)	Endrin Ke...	9.232	9.655	88349751	93392767	38.222	51.270	#
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	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:54
Operator : MJB
Sample : 0J15061-CAL6
Misc : A20H474, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:45:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

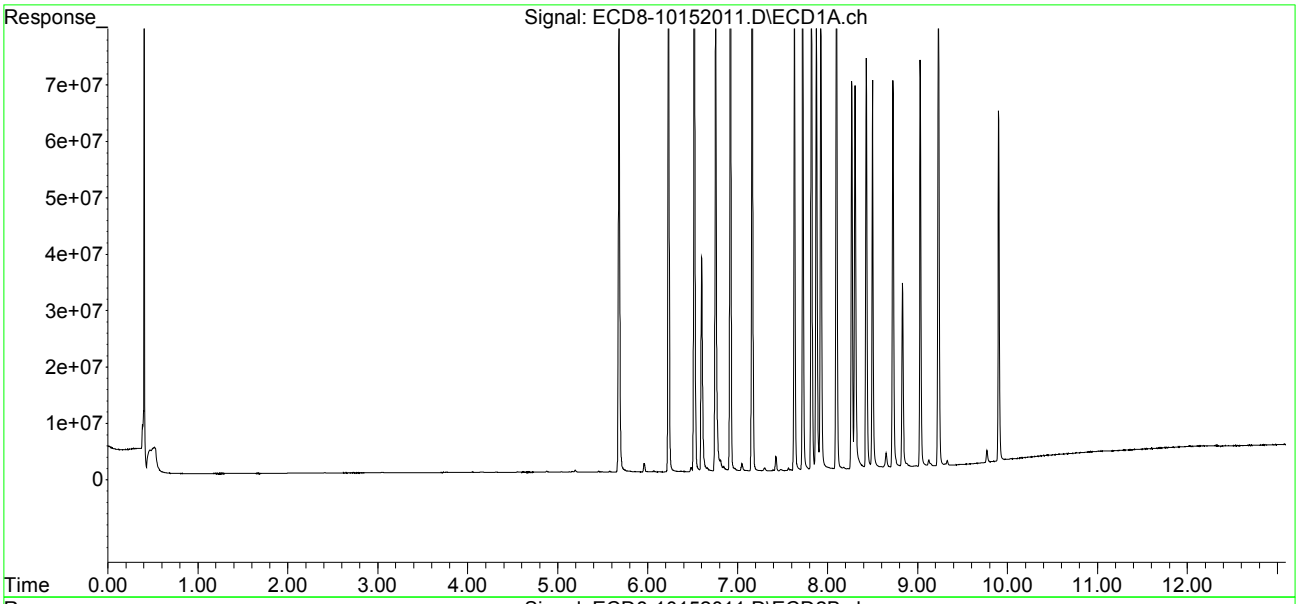
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	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

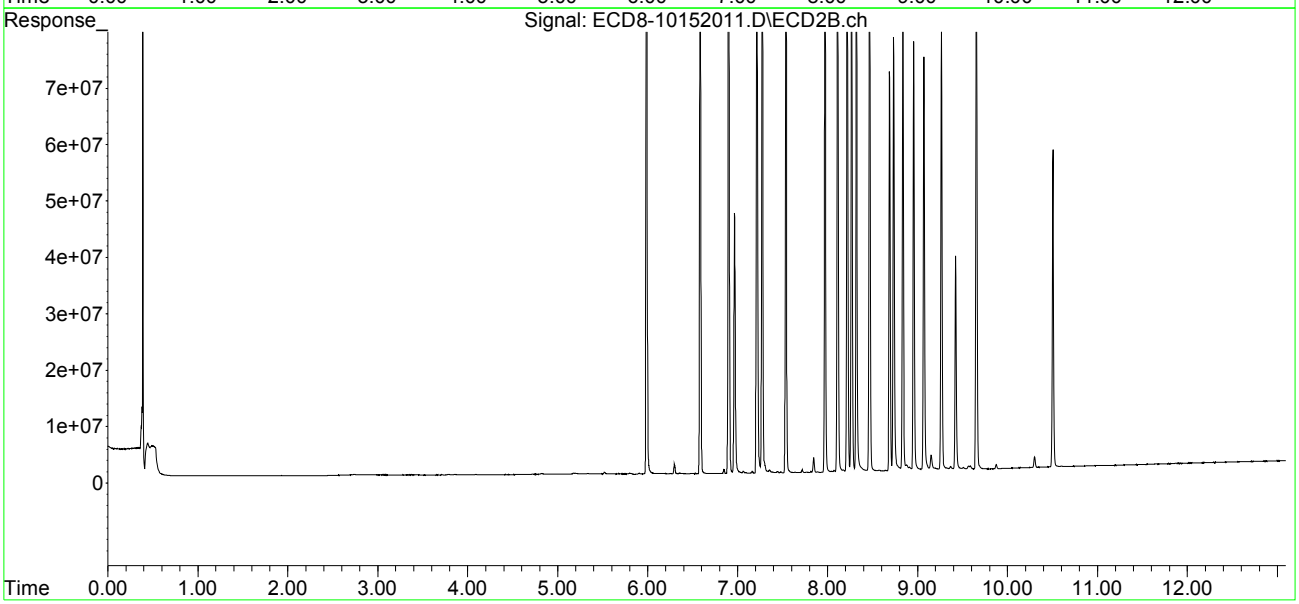
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 19:54
Operator : MJB
Sample : 0J15061-CAL6
Misc : A20H474, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:45:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:11
Operator : MJB
Sample : 0J15061-CAL7
Misc : A20H475, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:39:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Thu Aug 27 10:01:10 2020
Response via : Initial Calibration
Integrator: ChemStation

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
		System Monitoring Compounds							
1)	S	TCMX (S)	5.683	5.990	171.3E6	202.3E6	45.900	57.631	#
22)	S	DCBP (S)	9.903	10.506	121.6E6	112.4E6	39.882	52.102	#
		Target Compounds							
2)		a-BHC	6.234	6.585	237.8E6	276.4E6	48.293	57.452	
3)		g-BHC	6.520	6.900	199.7E6	242.4E6	45.149	57.077	#
4)		b-BHC	6.601	6.966	77551148	98666610	39.061	52.337	#
5)		Heptachlor	6.919	7.273	197.0E6	235.2E6	46.524	56.791	
6)		d-BHC	6.755	7.215	170.5E6	227.1E6	41.344	55.247	#
7)		Aldrin	7.162	7.537	193.9E6	228.4E6	44.430	57.471	#
8)		Heptachlo...	7.631	7.971	175.7E6	201.0E6	43.389	54.920	#
9)		trans-Chl...	7.723	8.110	183.0E6	206.2E6	44.234	55.656	#
10)		cis-Chlor...	7.821	8.217	175.8E6	195.5E6	42.858	55.098	#
11)		Endosulfa...	7.925	8.267	164.8E6	182.7E6	43.669	55.155	#
12)		4,4'-DDE	7.872	8.319	165.1E6	195.7E6	40.392	52.197	#
13)		Dieldrin	8.098	8.465	187.2E6	205.8E6	44.269	55.957	#
14)		Endrin	8.268	8.689	138.9E6	147.3E6	45.924	55.671	
15)		4,4'-DDD	8.303	8.733	134.1E6	163.2E6	40.147	52.423	#
16)		Endosulfa...	8.429	8.835	142.3E6	165.5E6	44.019	56.402	#
17)		4,4'-DDT	8.498	8.957	137.9E6	158.4E6	44.622	54.936	
18)		Endrin Al...	8.724	9.071	134.3E6	146.0E6	40.784	51.300	#
19)		Endosulfa...	9.030	9.264	142.5E6	162.8E6	49.211	62.070	#
20)		Methoxychlor	8.831	9.423	63985860	75074553	42.220	50.631	
21)		Endrin Ke...	9.233	9.656	178.0E6	193.2E6	77.015	97.306	#
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	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:11
Operator : MJB
Sample : 0J15061-CAL7
Misc : A20H475, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:39:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Thu Aug 27 10:01:10 2020
Response via : Initial Calibration
Integrator: ChemStation

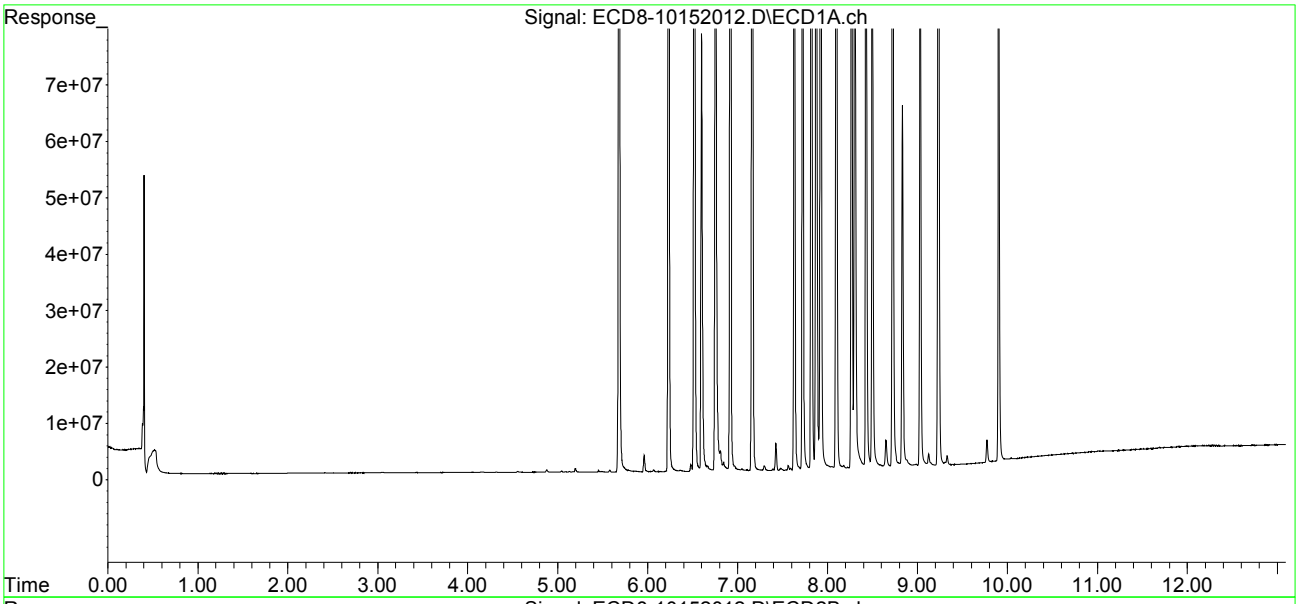
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	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

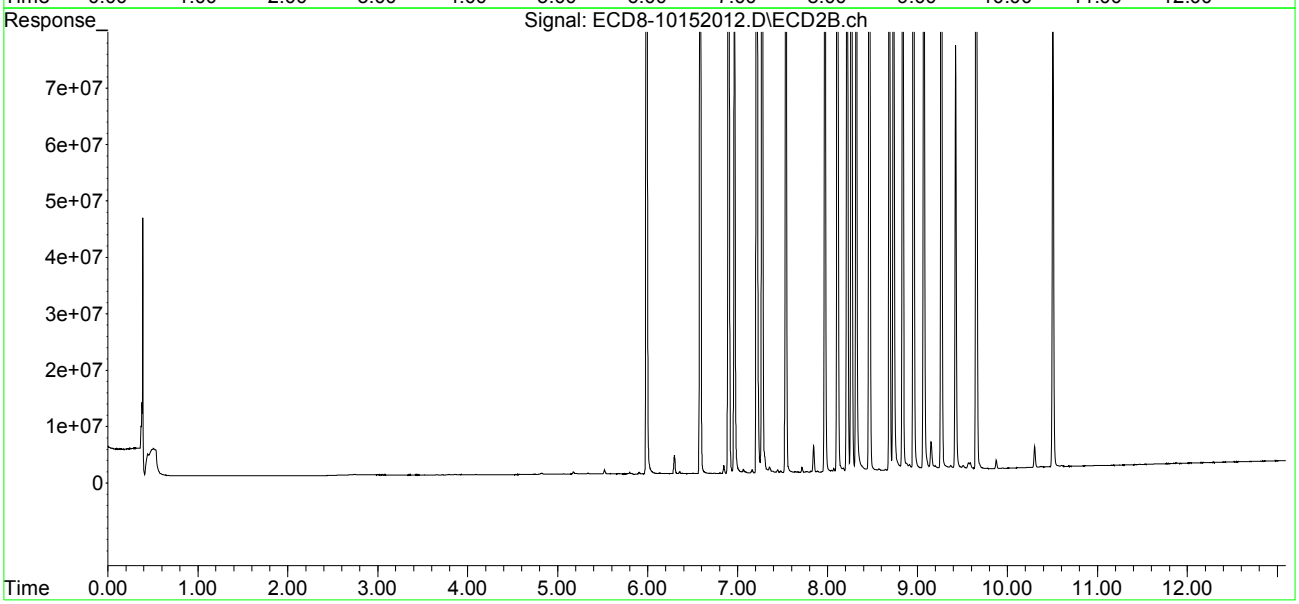
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:11
Operator : MJB
Sample : 0J15061-CAL7
Misc : A20H475, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:39:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Thu Aug 27 10:01:10 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:27
Operator : MJB
Sample : 0J15061-CAL8
Misc : A20H476, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:46:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1) S	TCMX (S)	5.683	5.990	353.9E6	425.7E6	94.829	121.275	#
22) S	DCBP (S)	9.902	10.504	254.4E6	242.3E6	83.502	107.268	#
	Target Compounds							
2)	a-BHC	6.234	6.585	492.9E6	598.9E6	100.097	114.936	
3)	g-BHC	6.520	6.900	432.4E6	506.9E6	97.761	110.121	
4)	b-BHC	6.599	6.965	173.0E6	211.1E6	87.132	111.969	#
5)	Heptachlor	6.918	7.273	425.5E6	500.4E6	100.494	112.089	
6)	d-BHC	6.751	7.213	384.5E6	507.6E6	93.218	114.012	
7)	Aldrin	7.160	7.536	415.8E6	476.9E6	95.276	111.558	
8)	Heptachlo...	7.629	7.970	370.1E6	442.7E6	91.392	120.934	#
9)	trans-Chl...	7.722	8.110	386.7E6	449.4E6	93.464	121.271	#
10)	cis-Chlor...	7.820	8.217	372.5E6	421.6E6	90.825	118.814	#
11)	Endosulfa...	7.924	8.267	346.0E6	395.1E6	91.695	119.282	#
12)	4,4'-DDE	7.870	8.318	362.8E6	440.1E6	88.742	107.632	
13)	Dieldrin	8.098	8.465	395.8E6	459.8E6	93.595	125.023	#
14)	Endrin	8.268	8.689	308.9E6	345.9E6	102.175	118.896	
15)	4,4'-DDD	8.300	8.731	313.9E6	361.9E6	93.989	107.064	
16)	Endosulfa...	8.429	8.835	312.1E6	366.8E6	96.530	125.030	#
17)	4,4'-DDT	8.497	8.956	321.4E6	373.7E6	104.021	115.644	
18)	Endrin Al...	8.724	9.070	282.4E6	319.3E6	85.772	112.165	#
19)	Endosulfa...	9.030	9.264	301.0E6	361.9E6	103.927	125.937	
20)	Methoxychlor	8.827	9.422	158.4E6	181.1E6	104.503	122.164	
21)	Endrin Ke...	9.232	9.656	368.2E6	418.0E6	159.289	182.429	
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	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:27
Operator : MJB
Sample : 0J15061-CAL8
Misc : A20H476, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:46:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

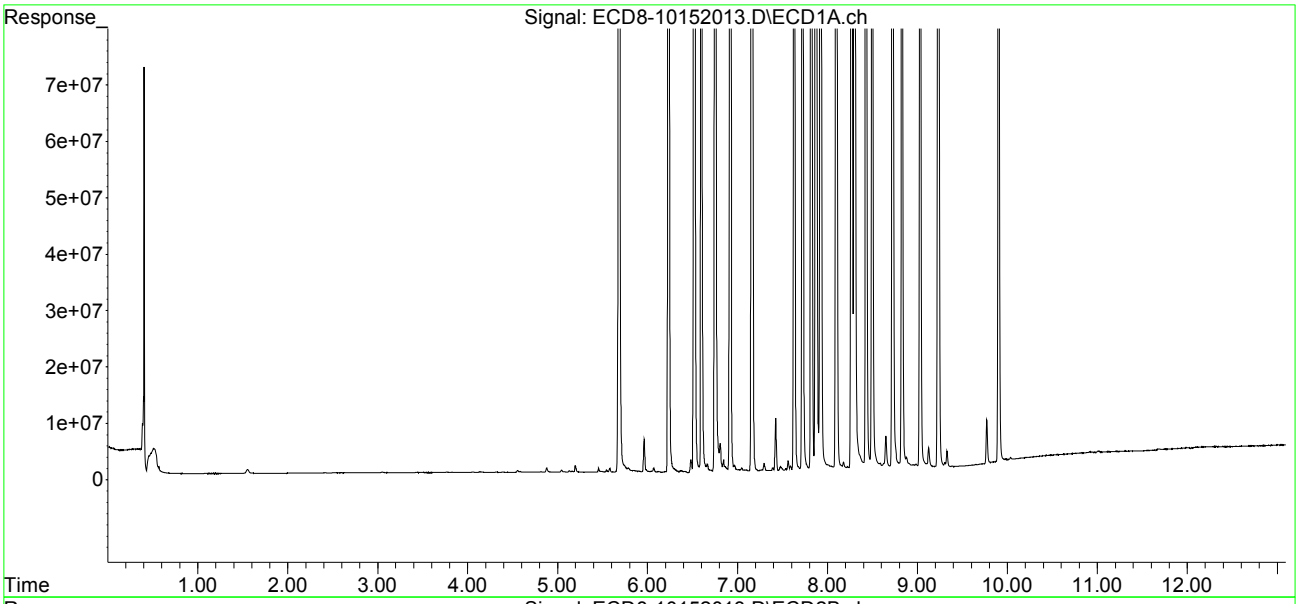
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	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

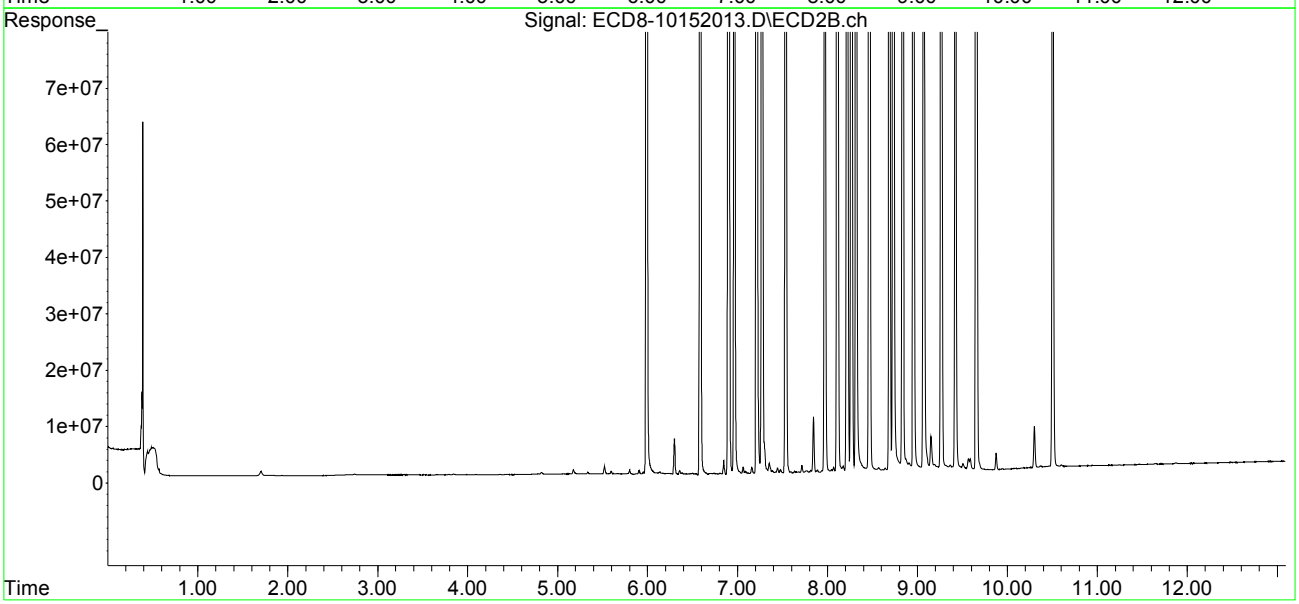
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:27
Operator : MJB
Sample : 0J15061-CAL8
Misc : A20H476, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:46:13 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:44
Operator : MJB
Sample : 0J15061-CAL9
Misc : A20H470, AB 200 ppb MJB 10/20/20
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:46:44 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
	System Monitoring Compounds							
1)	S TCMX (S)	5.683	5.991	707.1E6	877.5E6	189.457	249.977	#
22)	S DCBP (S)	9.903	10.505	508.9E6	513.8E6	166.550	209.470	#
	Target Compounds							
2)	a-BHC	6.234	6.586	999.0E6	1264.9E6	202.884	214.380	
3)	g-BHC	6.520	6.901	875.8E6	1095.4E6	198.006	208.196	
4)	b-BHC	6.599	6.966	348.7E6	427.2E6	175.634	226.607	#
5)	Heptachlor	6.919	7.274	860.4E6	1063.1E6	203.213	210.885	
6)	d-BHC	6.752	7.214	812.4E6	1082.6E6	196.939	214.883	
7)	Aldrin	7.161	7.537	808.8E6	985.1E6	185.336	205.344	
8)	Heptachlo...	7.630	7.971	738.1E6	893.9E6	182.280	244.175	#
9)	trans-Chl...	7.723	8.111	771.1E6	928.7E6	186.359	250.646	#
10)	cis-Chlor...	7.820	8.218	744.5E6	889.6E6	181.527	250.741	#
11)	Endosulfa...	7.924	8.267	695.9E6	827.3E6	184.433	249.746	#
12)	4,4'-DDE	7.870	8.319	733.3E6	932.3E6	179.376	200.232	
13)	Dieldrin	8.098	8.466	785.1E6	964.7E6	185.644	262.294	#
14)	Endrin	8.267	8.689	618.0E6	717.2E6	204.405	216.306	
15)	4,4'-DDD	8.300	8.732	624.8E6	785.4E6	187.062	203.795	
16)	Endosulfa...	8.429	8.835	627.2E6	777.0E6	193.971	264.857	#
17)	4,4'-DDT	8.497	8.957	664.3E6	806.5E6	215.004	212.875	
18)	Endrin Al...	8.724	9.070	583.5E6	684.2E6	177.207	240.355	#
19)	Endosulfa...	9.030	9.265	596.2E6	743.8E6	205.840	227.283	
20)	Methoxychlor	8.828	9.422	315.4E6	372.5E6	208.144	251.230	
21)	Endrin Ke...	9.232	9.656	755.0E6	903.6E6	326.614	322.996	
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	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:44
Operator : MJB
Sample : 0J15061-CAL9
Misc : A20H470, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:46:44 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

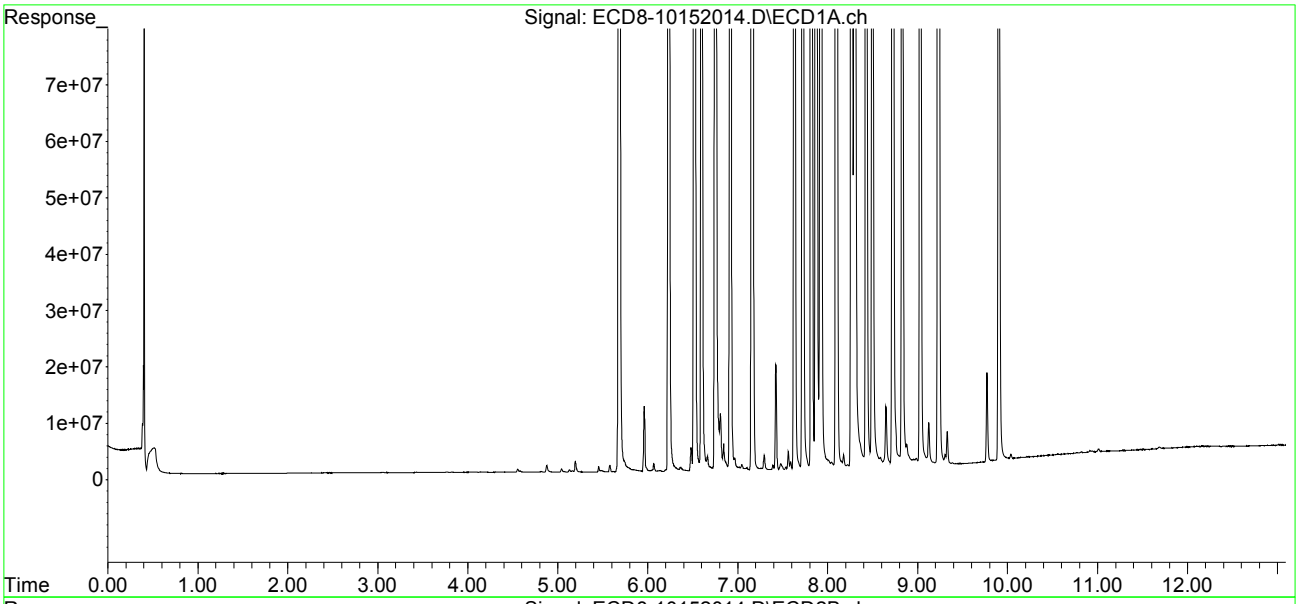
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	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

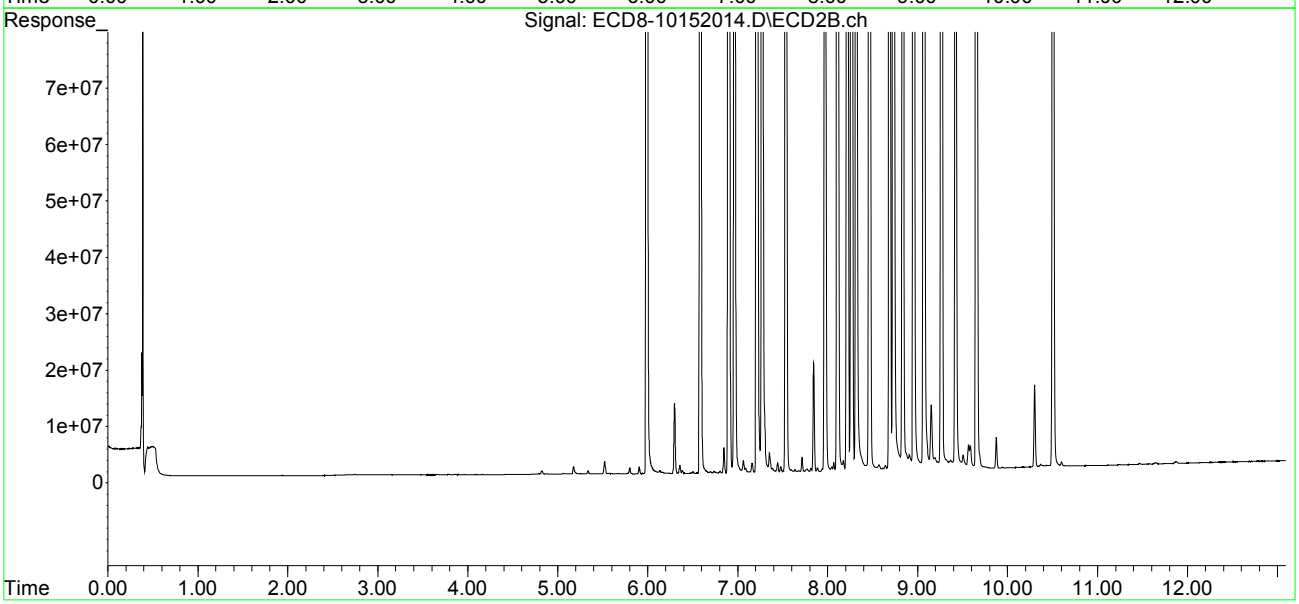
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 20:44
Operator : MJB
Sample : 0J15061-CAL9
Misc : A20H470, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:46:44 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:33
Operator : MJB
Sample : 0J15061-CALA
Misc : A20J276, 9-42 0.5 ppb MJB 10/20/20
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:49:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

	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...	3.475	3.703	2239091	2507236	0.415	0.451	
24)	Hexachlor...	6.070	6.454	1970418	2349149	0.326	0.485	#
25)	Oxychlordane	7.556	7.904	1937874	2061148	0.383	0.480	#
26)	2,4'-DDE	7.627	8.100	1201503	1304771	0.290	0.387	#
27)	trans-Non...	7.810	8.179	2163375	2327996	0.343	0.479	#
28)	2,4'-DDD	8.006	8.471	1125210	1319106	0.309	0.467	#
29)	2,4'-DDT	8.185	8.691	1221609	1355429	0.344	0.473	#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:33
Operator : MJB
Sample : 0J15061-CALA
Misc : A20J276, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:49:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

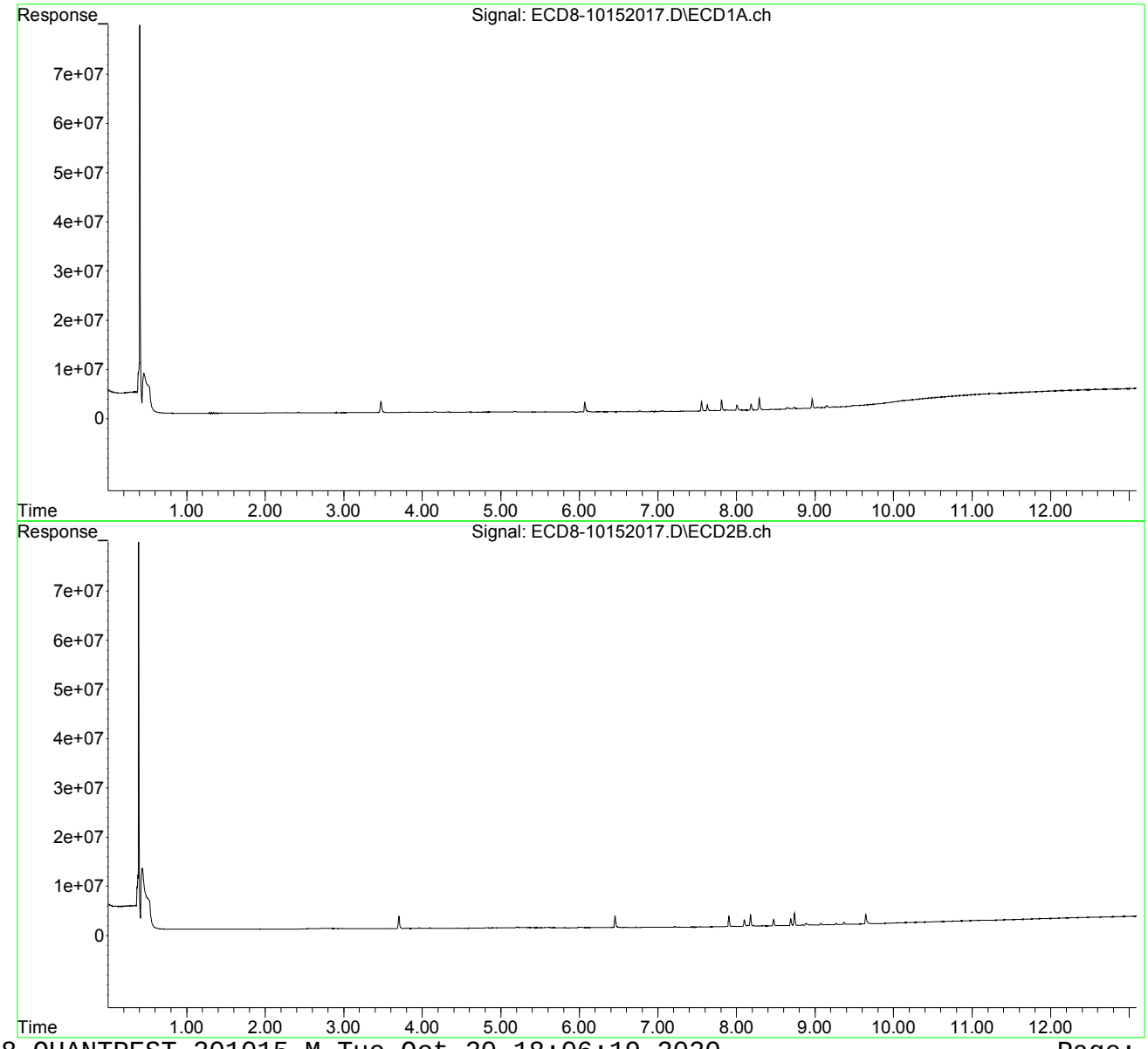
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.289	8.737	2361680	2474139	0.398	0.524 #
31)	Mirex	8.964	9.647	1825977	1941278	0.412	0.509
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:33
Operator : MJB
Sample : 0J15061-CALA
Misc : A20J276, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:49:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:50
Operator : MJB
Sample : 0J15061-CALB
Misc : A20I180, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:49:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

	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...	3.474	3.703	3774672	4324213	0.858	0.943	
24)	Hexachlor...	6.070	6.454	3664461	4208870	0.804	1.050	#
25)	Oxychlordane	7.555	7.903	3610716	3742926	0.872	1.065	
26)	2,4'-DDE	7.626	8.099	2330761	2507932	0.732	0.933	#
27)	trans-Non...	7.809	8.178	3910682	4195390	0.809	1.068	#
28)	2,4'-DDD	8.004	8.470	2191428	2545735	0.786	1.098	#
29)	2,4'-DDT	8.183	8.691	2264292	2394823	0.794	0.988	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:50
Operator : MJB
Sample : 0J15061-CALB
Misc : A20I180, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:49:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

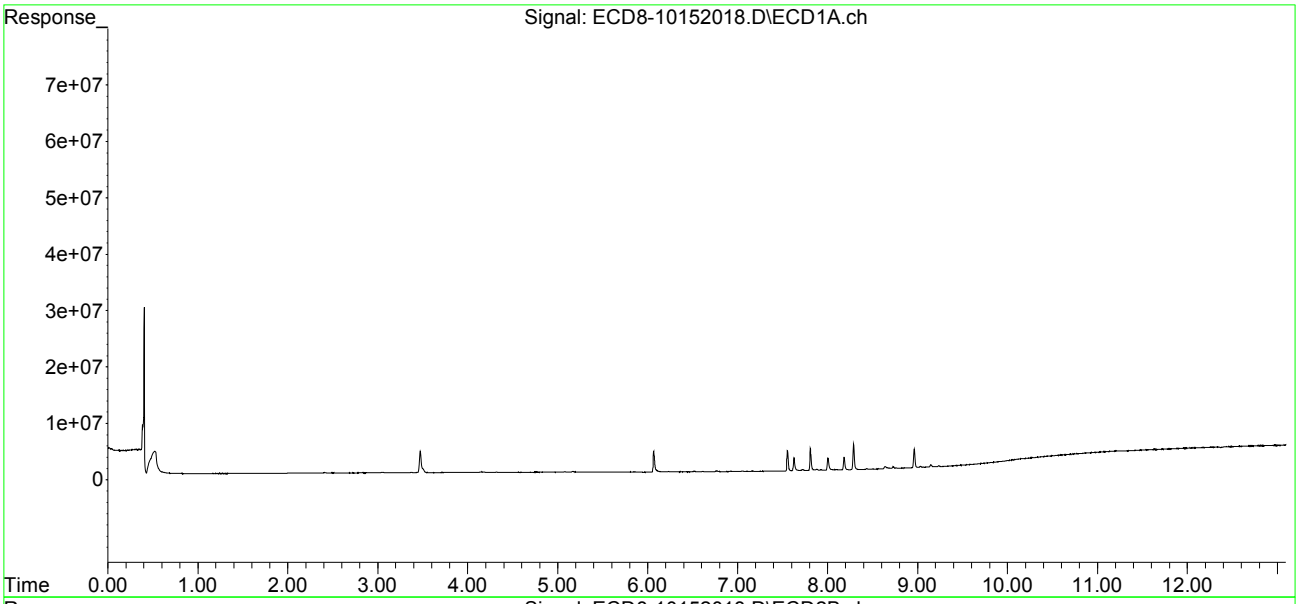
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.288	8.737	4530614	4587763	0.932	1.126
31)	Mirex	8.963	9.646	3315145	3435505	0.981	1.218
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	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

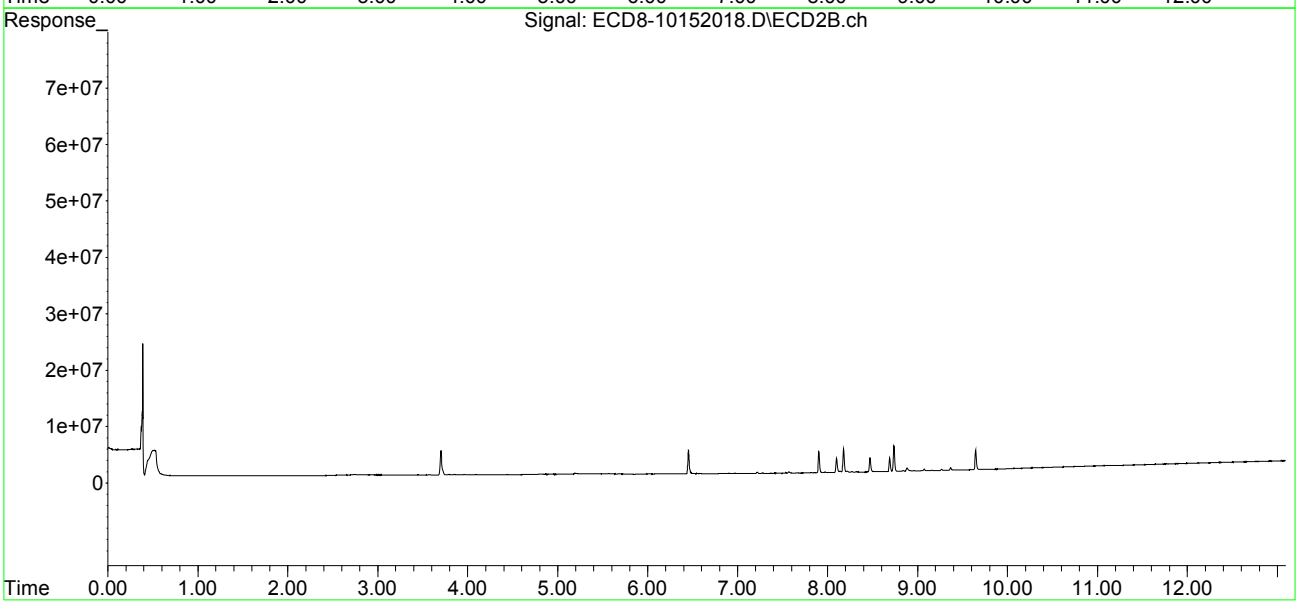
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 21:50
Operator : MJB
Sample : 0J15061-CALB
Misc : A20I180, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:49:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:06
Operator : MJB
Sample : 0J15061-CALC
Misc : A20I181, 9-42 2 ppb MJB 10/20/20
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:50:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

	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...	3.474	3.703	7127380	8105552	1.826	1.966	
24)	Hexachlor...	6.069	6.453	6539006	7438773	1.615	2.030	#
25)	Oxychlordane	7.554	7.903	6208420	6625326	1.633	2.066	#
26)	2,4'-DDE	7.624	8.099	3901157	4384687	1.347	1.783	#
27)	trans-Non...	7.809	8.177	6858041	7161689	1.595	2.001	#
28)	2,4'-DDD	8.004	8.469	3682349	4129327	1.454	1.911	#
29)	2,4'-DDT	8.183	8.690	3742080	3988690	1.432	1.776	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:06
Operator : MJB
Sample : 0J15061-CALC
Misc : A20I181, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:50:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

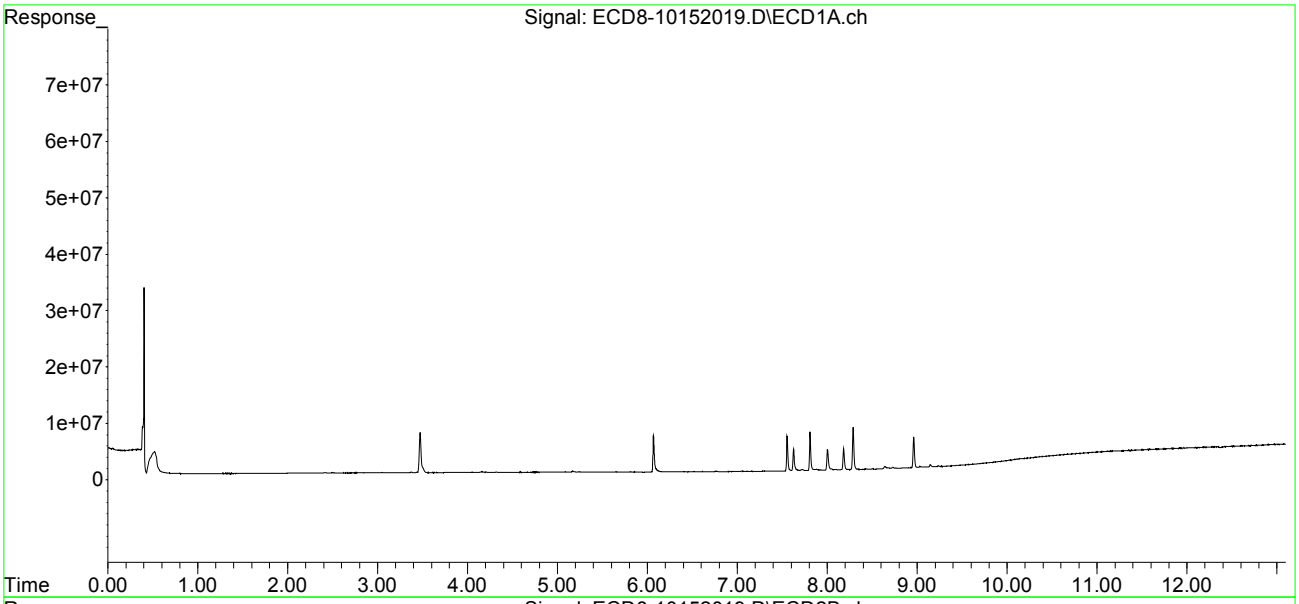
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.288	8.736	7468006	7629694	1.656	1.989
31)	Mirex	8.963	9.645	5444461	5403191	1.796	2.151
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	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

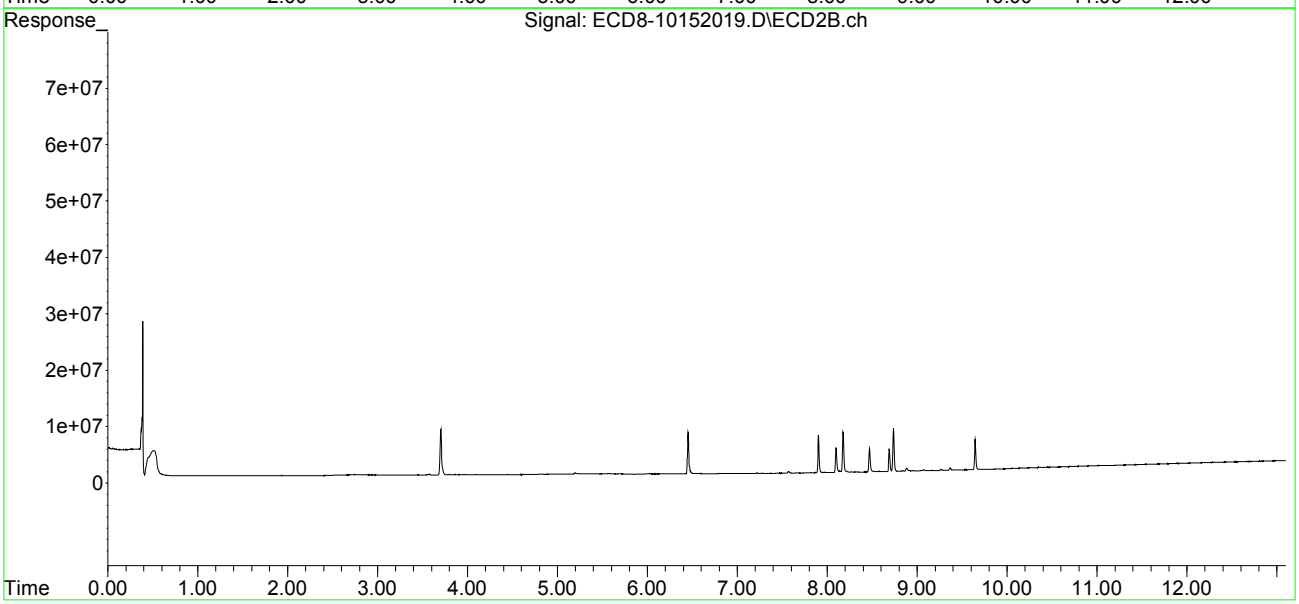
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:06
Operator : MJB
Sample : 0J15061-CALC
Misc : A20I181, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:50:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:23
Operator : MJB
Sample : 0J15061-CALD
Misc : A20I182, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:50:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

	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...	3.474	3.702	16458450	18933435	4.519	4.884	
24)	Hexachlor...	6.070	6.453	15453104	17842730	4.127	5.172	#
25)	Oxychlordane	7.554	7.903	15094980	15610146	4.234	5.172	
26)	2,4'-DDE	7.624	8.098	9576140	10816208	3.566	4.682	#
27)	trans-Non...	7.808	8.177	16788723	17453607	4.242	5.221	
28)	2,4'-DDD	8.003	8.470	8751372	9938801	3.723	4.878	#
29)	2,4'-DDT	8.182	8.690	9587017	10115568	3.951	4.789	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:23
Operator : MJB
Sample : 0J15061-CALD
Misc : A20I182, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:50:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

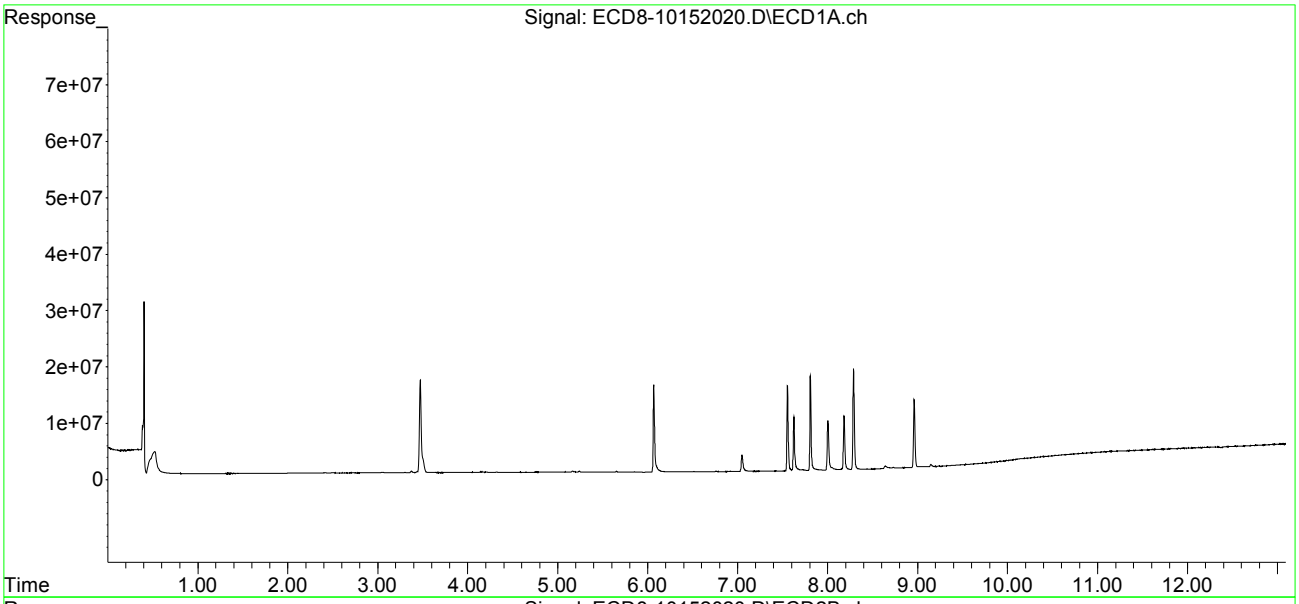
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.288	8.736	17869077	18893080	4.217	5.172
31)	Mirex	8.962	9.645	12051077	12160597	4.324	5.344
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	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

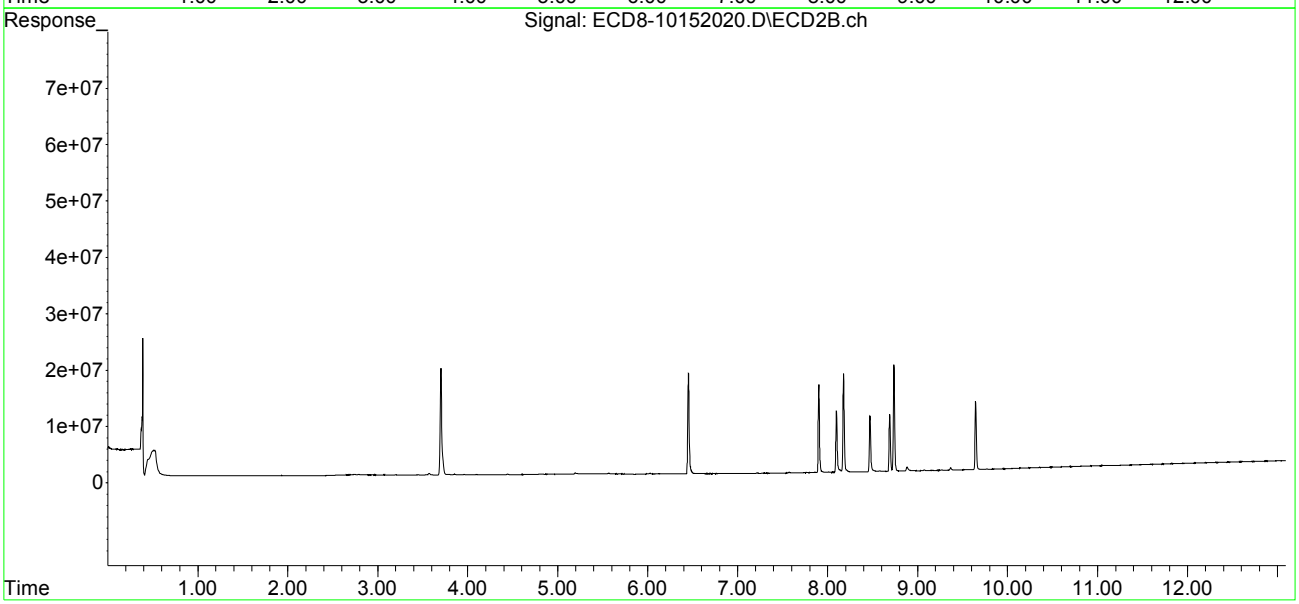
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:23
Operator : MJB
Sample : 0J15061-CALD
Misc : A20I182, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:50:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:39
Operator : MJB
Sample : 0J15061-CALE
Misc : A20I183, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:51:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

	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...	3.475	3.703	31387777	36173041	8.827	9.493	
24)	Hexachlor...	6.069	6.453	31515539	36065499	8.647	10.618	
25)	Oxychlordane	7.554	7.903	30846461	33196377	8.845	11.189	#
26)	2,4'-DDE	7.624	8.098	20166332	22142201	7.700	9.732	#
27)	trans-Non...	7.808	8.177	34482563	35712472	8.956	10.872	
28)	2,4'-DDD	8.003	8.469	17648727	20436379	7.702	10.181	#
29)	2,4'-DDT	8.182	8.690	19702359	20908468	8.301	10.036	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:39
Operator : MJB
Sample : 0J15061-CALE
Misc : A20I183, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:51:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

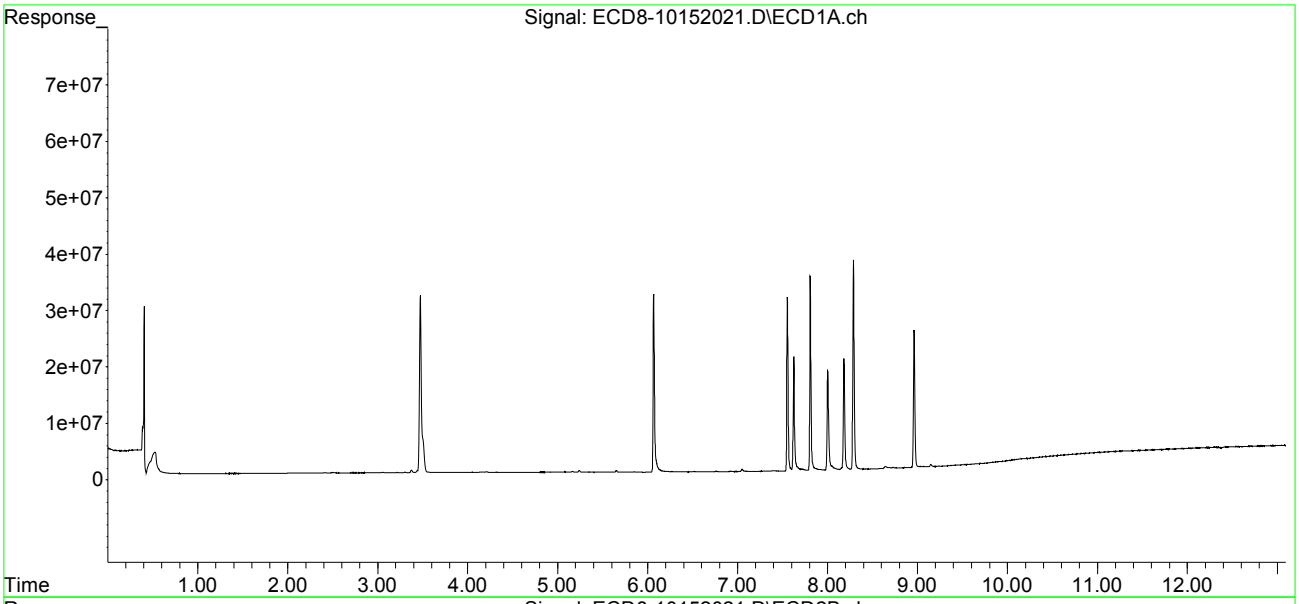
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.287	8.735	37147659	39146339	8.958	10.837
31)	Mirex	8.962	9.645	24373423	24471276	9.042	11.116
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	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

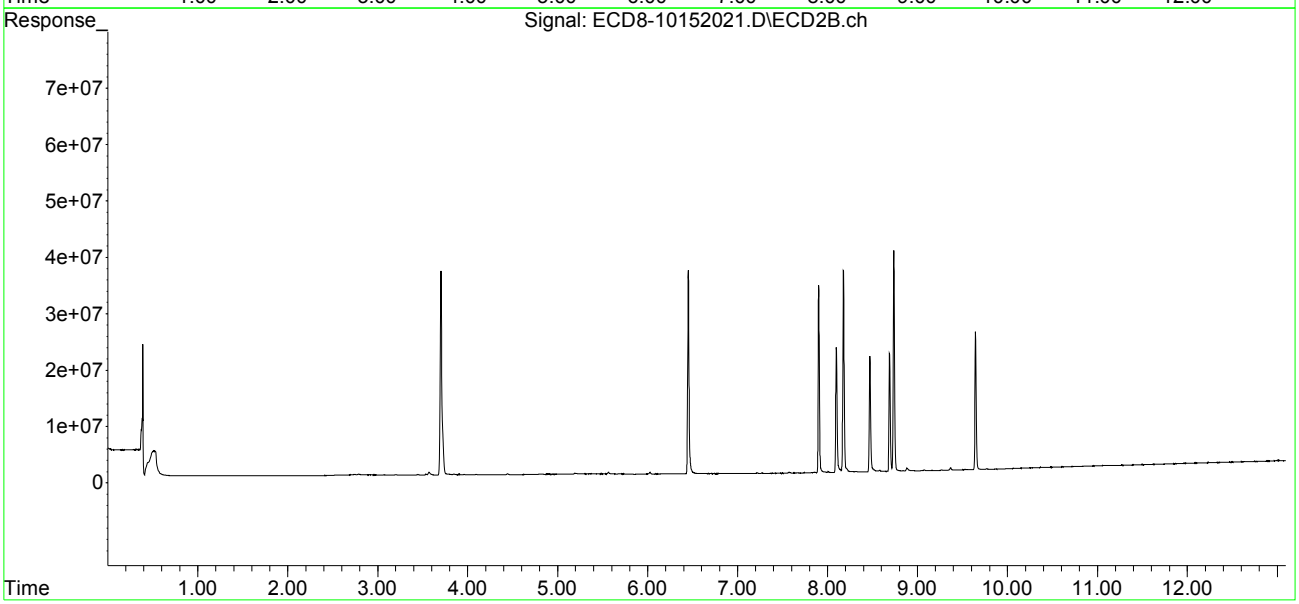
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:39
Operator : MJB
Sample : 0J15061-CALE
Misc : A20I183, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:51:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:56
Operator : MJB
Sample : 0J15061-CALF
Misc : A20I184, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:51:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

	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...	3.475	3.703	78802280	94309654	22.503	24.728	
24)	Hexachlor...	6.069	6.453	79779430	94109412	22.175	27.515	
25)	Oxychlordane	7.553	7.902	77425998	84676703	22.482	28.363	#
26)	2,4'-DDE	7.622	8.097	52220273	59909816	20.155	26.103	#
27)	trans-Non...	7.807	8.177	88005937	95054160	23.205	28.722	
28)	2,4'-DDD	8.001	8.468	46590623	53380696	20.605	26.363	#
29)	2,4'-DDT	8.181	8.690	52493263	58013258	22.310	27.517	

ECD8_QUANTPEST_201015.M Tue Oct 20 18:06:38 2020 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:56
Operator : MJB
Sample : 0J15061-CALF
Misc : A20I184, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:51:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

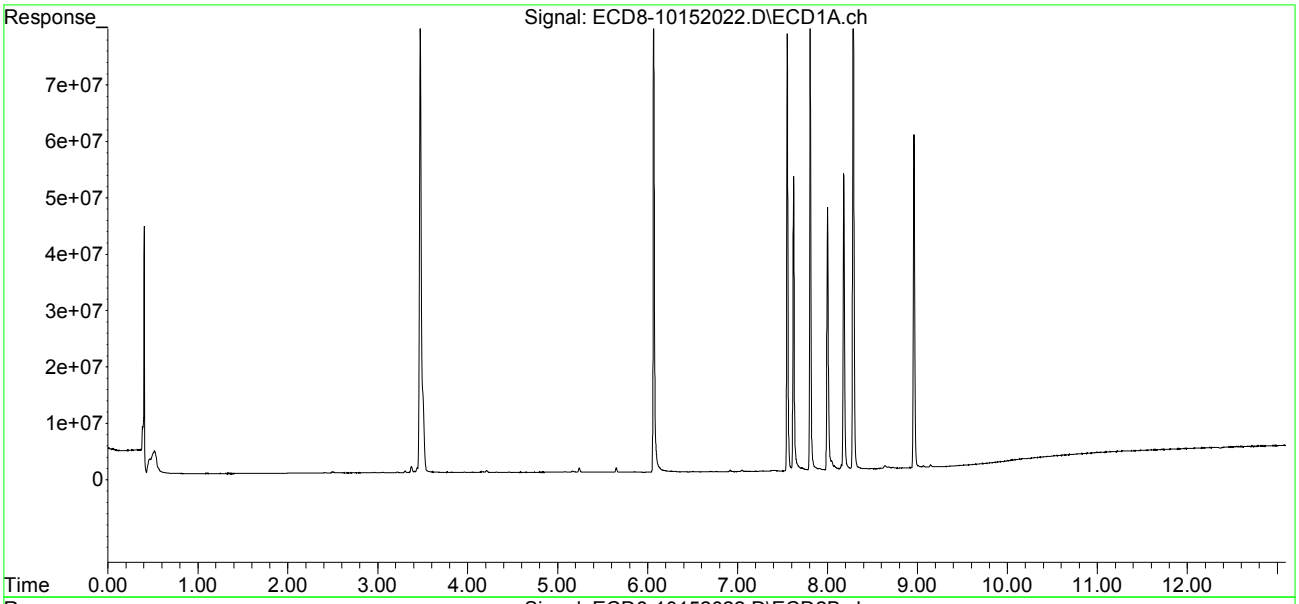
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.286	8.735	93575402	103.3E6	22.796	28.308
31)	Mirex	8.962	9.645	59074282	60834363	22.343	27.843
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	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

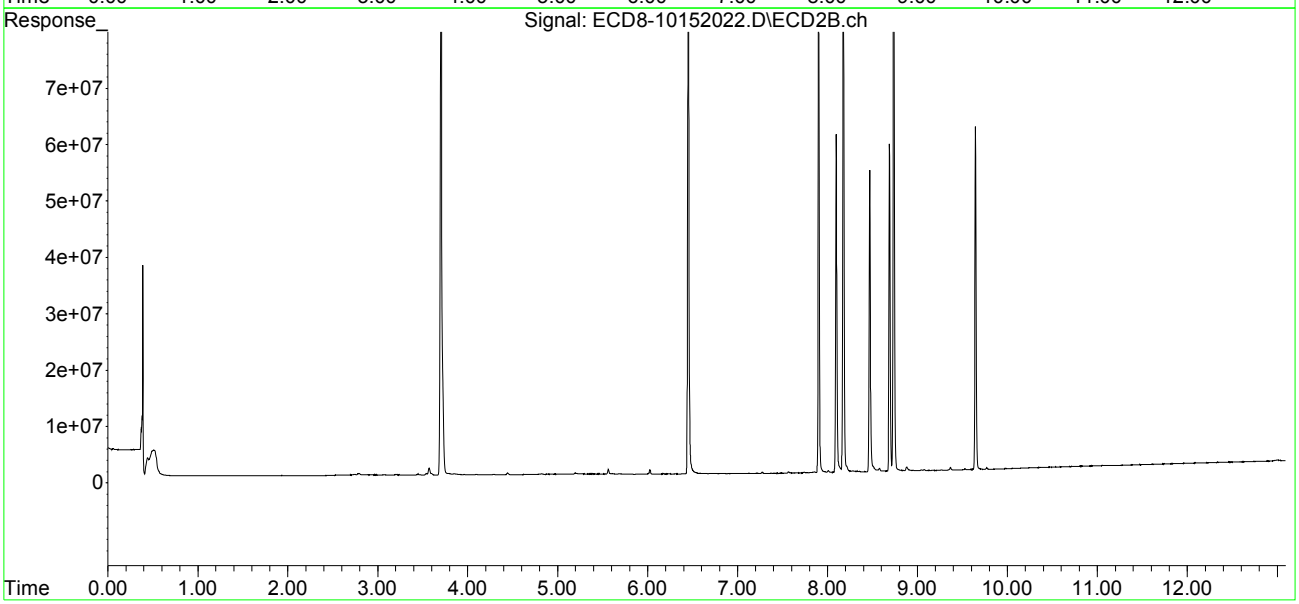
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 22:56
Operator : MJB
Sample : 0J15061-CALF
Misc : A20I184, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:51:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:12
Operator : MJB
Sample : 0J15061-CALG
Misc : A20I185, 9-42 50 ppb MJB 10/20/20
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:48:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

	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...	3.474	3.702	168.1E6	209.9E6	48.244	53.740	
24)	Hexachlor...	6.069	6.453	159.6E6	193.4E6	44.360	55.016	
25)	Oxychlordane	7.553	7.902	149.6E6	170.3E6	43.615	55.624	#
26)	2,4'-DDE	7.621	8.096	103.4E6	117.8E6	39.856	49.944	#
27)	trans-Non...	7.807	8.176	169.1E6	188.6E6	44.748	55.449	
28)	2,4'-DDD	8.000	8.467	89007702	107.8E6	39.412	51.730	#
29)	2,4'-DDT	8.180	8.689	108.2E6	120.3E6	45.787	55.162	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:12
Operator : MJB
Sample : 0J15061-CALG
Misc : A20I185, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:48:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation

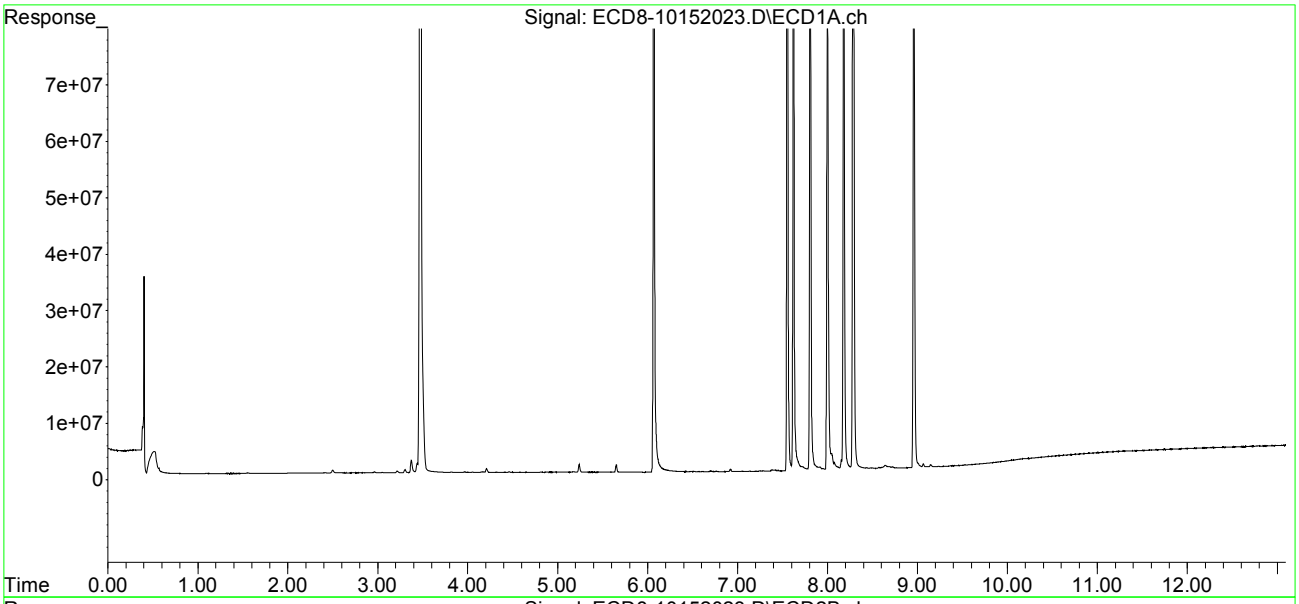
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.286	8.735	183.9E6	208.4E6	44.837	55.574
31)	Mirex	8.960	9.644	113.0E6	123.5E6	43.077	55.622 #
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	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

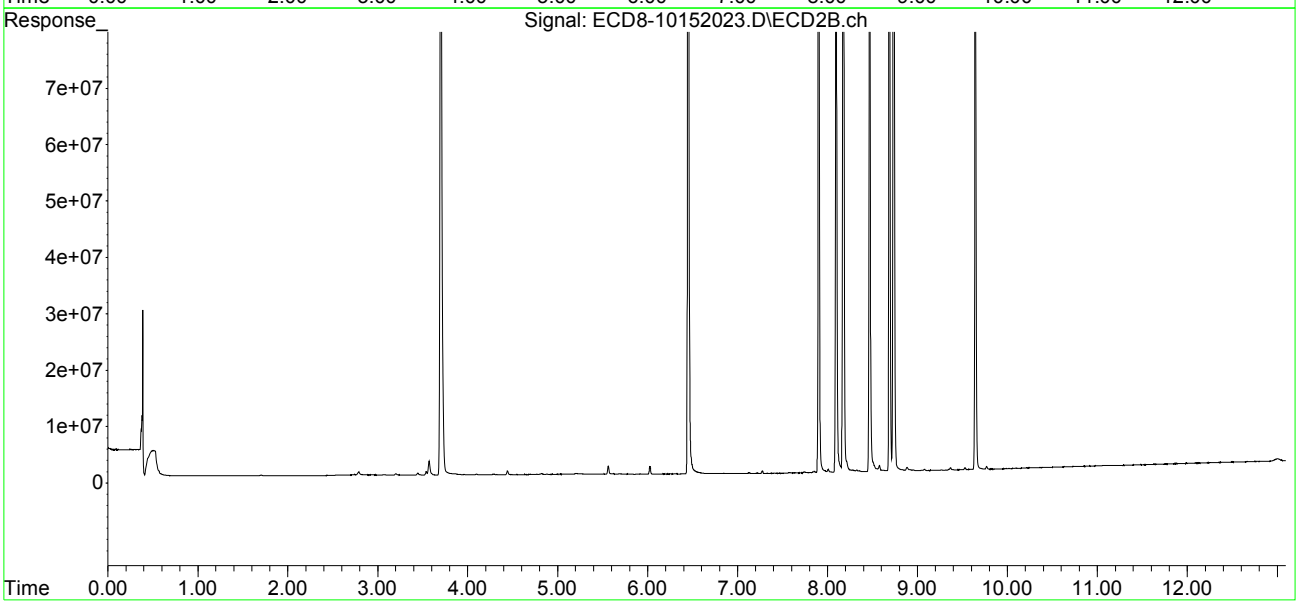
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:12
Operator : MJB
Sample : 0J15061-CALG
Misc : A20I185, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:48:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:40:53 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:29
Operator : MJB
Sample : 0J15061-CALH
Misc : A20I186, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:52:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

	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...	3.475	3.703	320.7E6	403.4E6	92.160	99.074	
24)	Hexachlor...	6.069	6.453	322.5E6	403.2E6	89.027	108.337	
25)	Oxychlordane	7.553	7.902	304.8E6	351.7E6	89.097	108.949	
26)	2,4'-DDE	7.620	8.096	210.1E6	256.1E6	80.323	102.015	#
27)	trans-Non...	7.807	8.177	343.2E6	405.2E6	90.873	111.970	
28)	2,4'-DDD	7.999	8.467	185.8E6	222.6E6	81.886	100.824	
29)	2,4'-DDT	8.180	8.689	220.7E6	257.3E6	92.128	110.119	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:29
Operator : MJB
Sample : 0J15061-CALH
Misc : A20I186, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:52:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

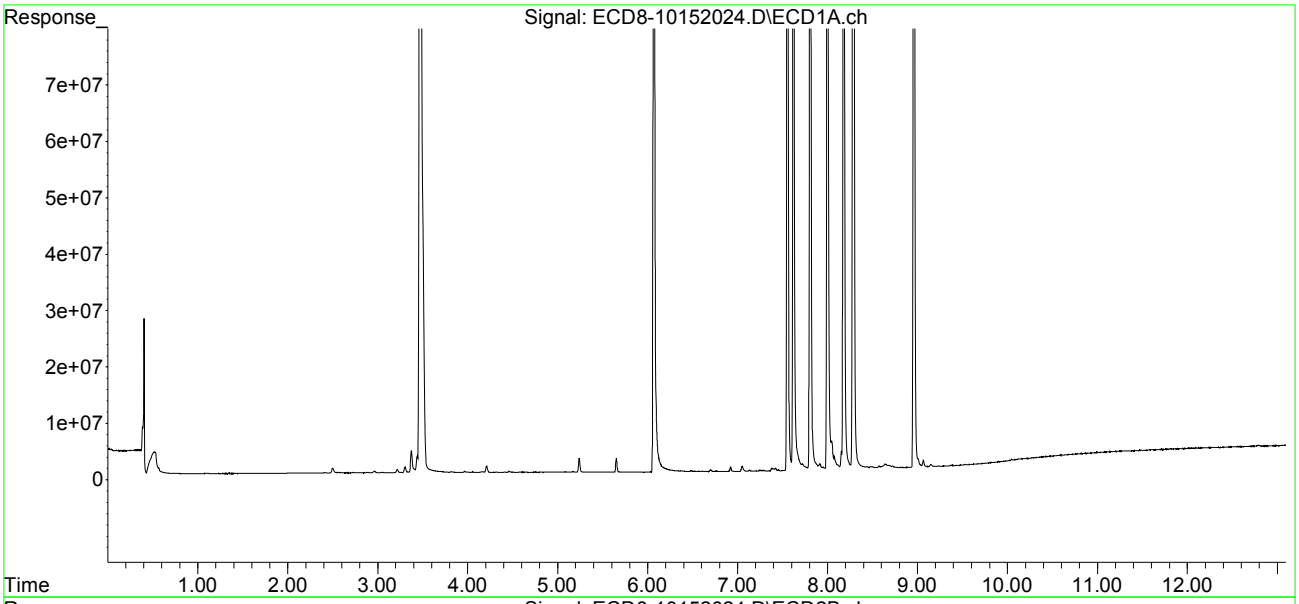
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.285	8.735	378.2E6	435.1E6	91.739	109.657
31)	Mirex	8.961	9.645	228.7E6	254.5E6	87.711	110.118 #
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
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

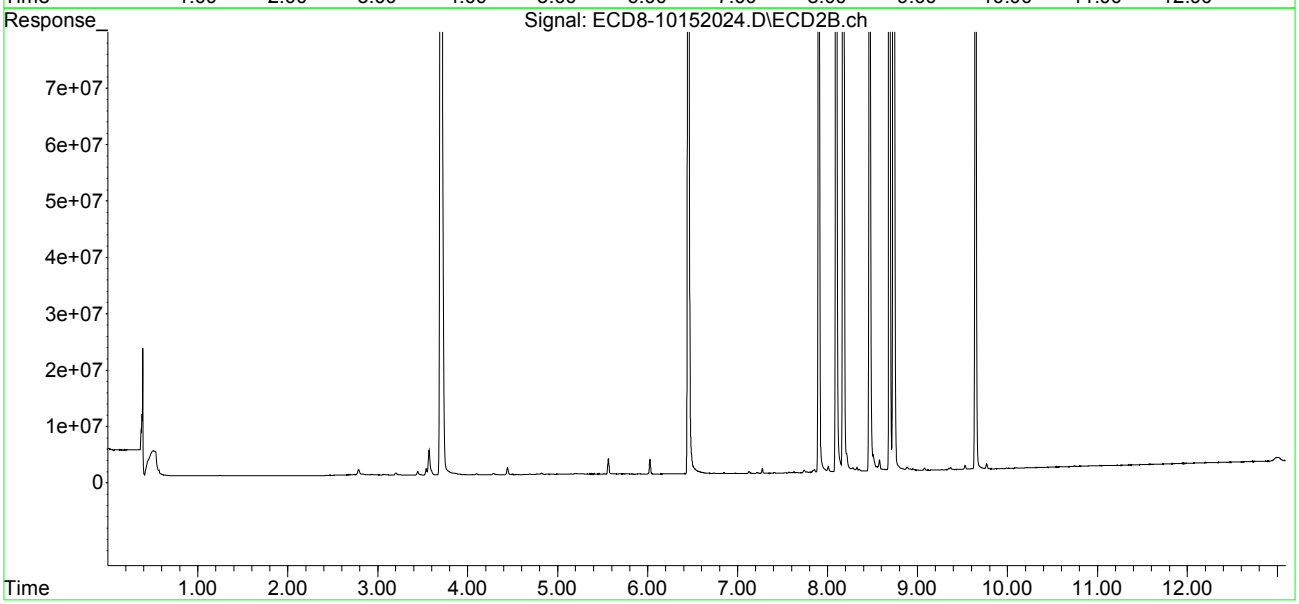
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:29
Operator : MJB
Sample : 0J15061-CALH
Misc : A20I186, 9-42 100 ppb
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:52:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:46
Operator : MJB
Sample : 0J15061-CALI
Misc : A20I179, 9-42 200 ppb MJB 10/20/20
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:53:03 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

	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...	3.477	3.704	721.1E6	947.4E6	206.946	210.803
24)	Hexachlor...	6.070	6.454	676.2E6	870.6E6	183.117	210.949
25)	Oxychlordane	7.552	7.901	646.9E6	749.5E6	189.487	210.879
26)	2,4'-DDE	7.619	8.095	453.7E6	567.8E6	169.570	202.088
27)	trans-Non...	7.806	8.176	742.7E6	873.1E6	195.925	216.642
28)	2,4'-DDD	7.997	8.466	398.4E6	497.7E6	173.056	201.525
29)	2,4'-DDT	8.179	8.688	475.5E6	567.1E6	192.098	215.002

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:46
Operator : MJB
Sample : 0J15061-CALI
Misc : A20I179, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:53:03 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

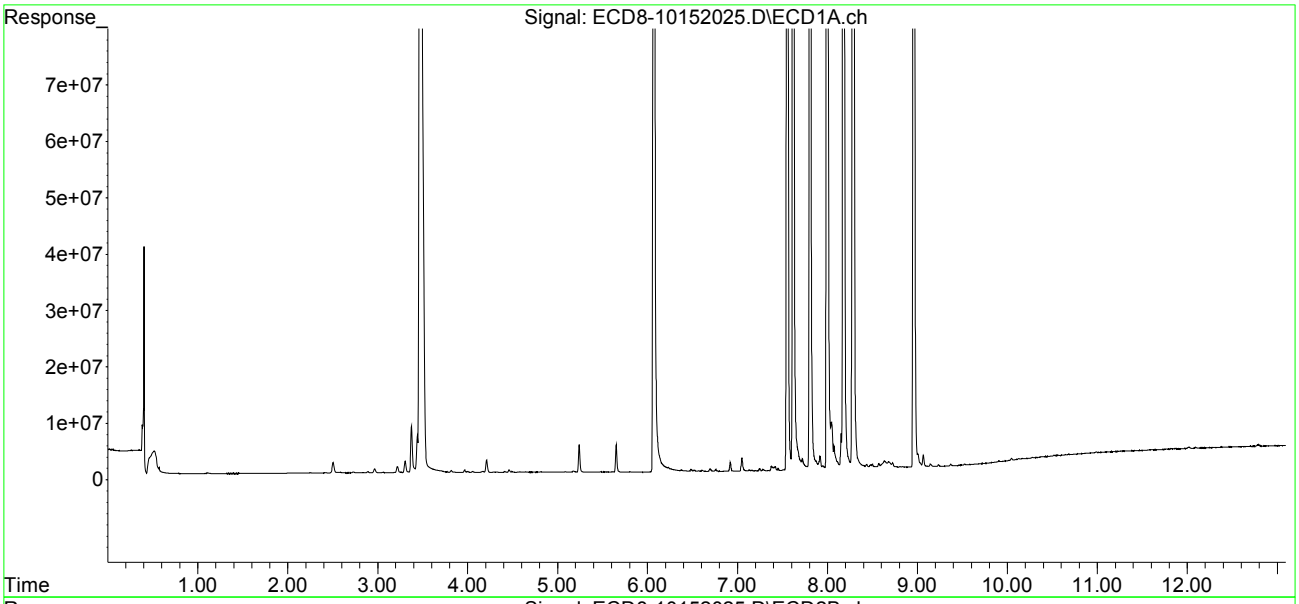
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.285	8.734	802.3E6	961.3E6	191.900	217.859
31)	Mirex	8.960	9.644	486.2E6	538.2E6	188.074	215.354
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
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

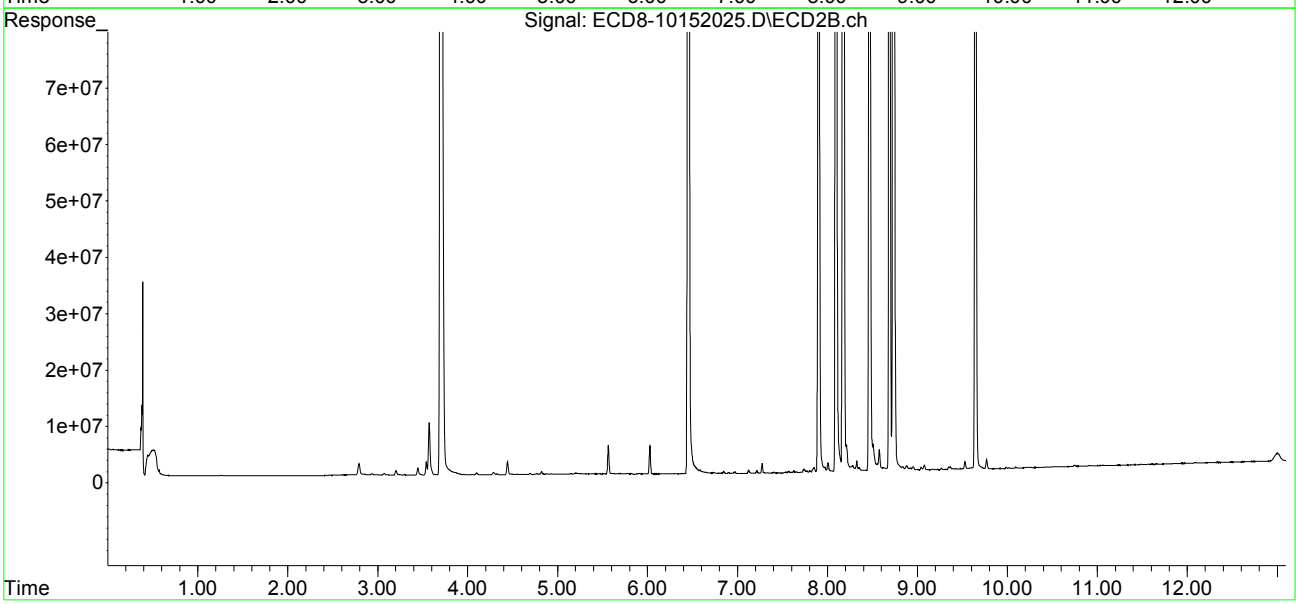
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Oct 2020 23:46
Operator : MJB
Sample : 0J15061-CALI
Misc : A20I179, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:53:03 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:35
Operator : MJB
Sample : 0J15061-CALJ
Misc : A20J277, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:55:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:35
Operator : MJB
Sample : 0J15061-CALJ
Misc : A20J277, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:55:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

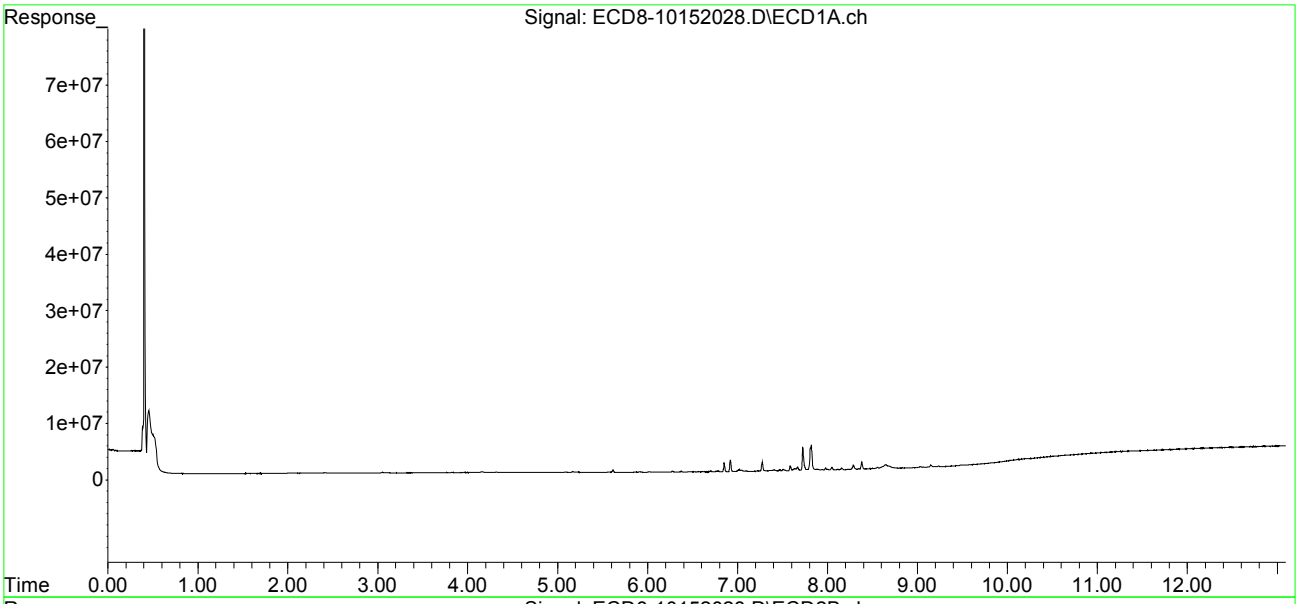
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.726	8.111	4101623	4425582	9.067	10.017
33)	Chlordane...	7.820	8.217	4385167	4119232	7.970	11.066 #
34)	Chlordane...	8.380	8.873	1337616	1424459	9.223	3.581 #
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

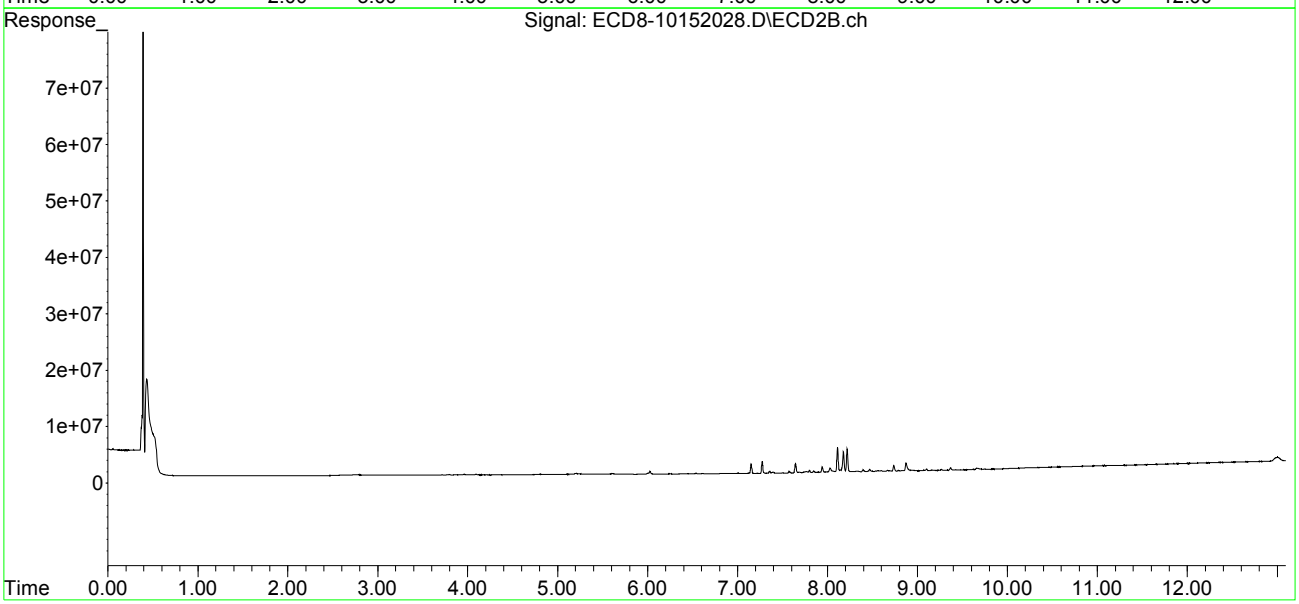
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:35
Operator : MJB
Sample : 0J15061-CALJ
Misc : A20J277, CHLOR 10 ppb
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:55:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:52
Operator : MJB
Sample : 0J15061-CALK
Misc : A20F057, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:56:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:52
Operator : MJB
Sample : 0J15061-CALK
Misc : A20F057, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:56:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

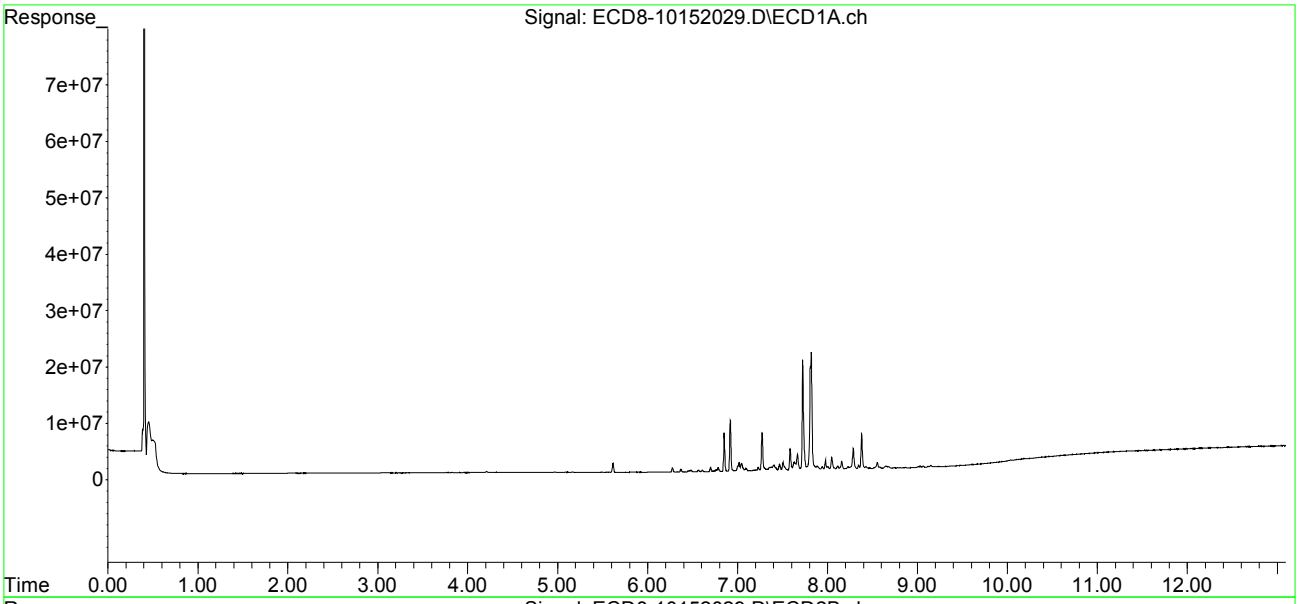
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.725	8.111	19538919	22190571	43.190	50.227
33)	Chlordane...	7.820	8.217	20854744	18468542	37.904	49.616 #
34)	Chlordane...	8.379	8.873	6256198	6150473	43.135	47.959
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

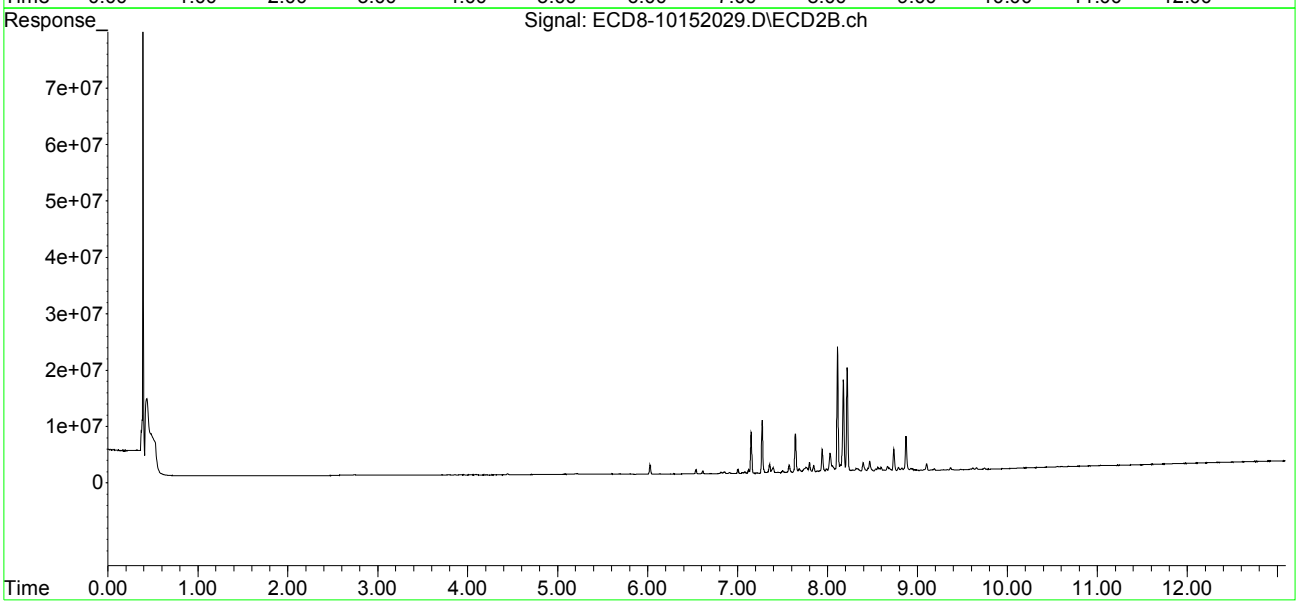
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 00:52
Operator : MJB
Sample : 0J15061-CALK
Misc : A20F057, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:56:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:08
Operator : MJB
Sample : 0J15061-CALL
Misc : A20F058, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:56:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:08
Operator : MJB
Sample : 0J15061-CALL
Misc : A20F058, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:56:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

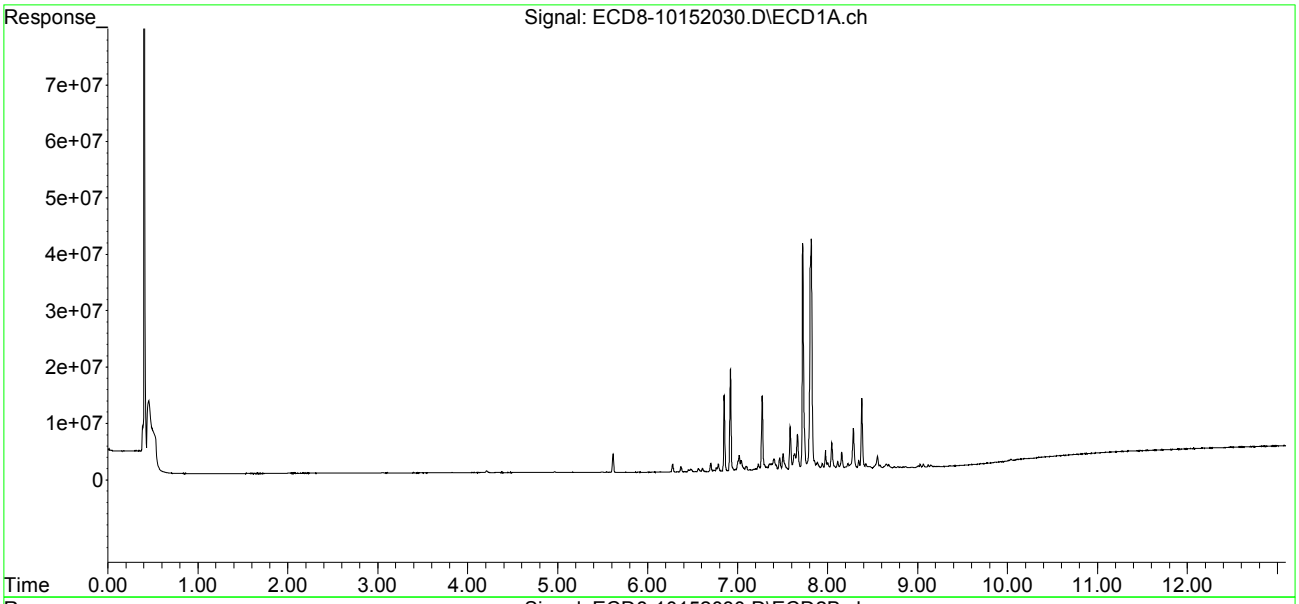
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.725	8.110	40102111	46516148	88.645	105.286
33)	Chlordane...	7.819	8.216	40925321	39446568	74.382	105.974 #
34)	Chlordane...	8.379	8.872	12465253	12535896	85.945	107.226
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

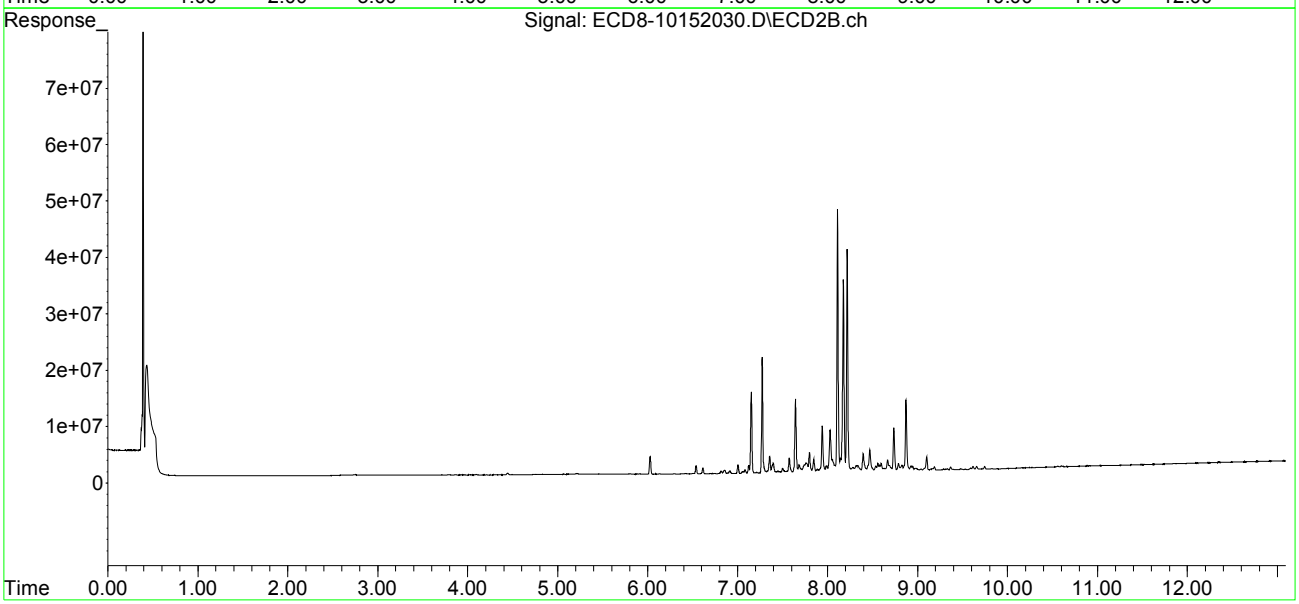
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:08
Operator : MJB
Sample : 0J15061-CALL
Misc : A20F058, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:56:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:24
Operator : MJB
Sample : 0J15061-CALM
Misc : A20F059, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:57:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:24
Operator : MJB
Sample : 0J15061-CALM
Misc : A20F059, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:57:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

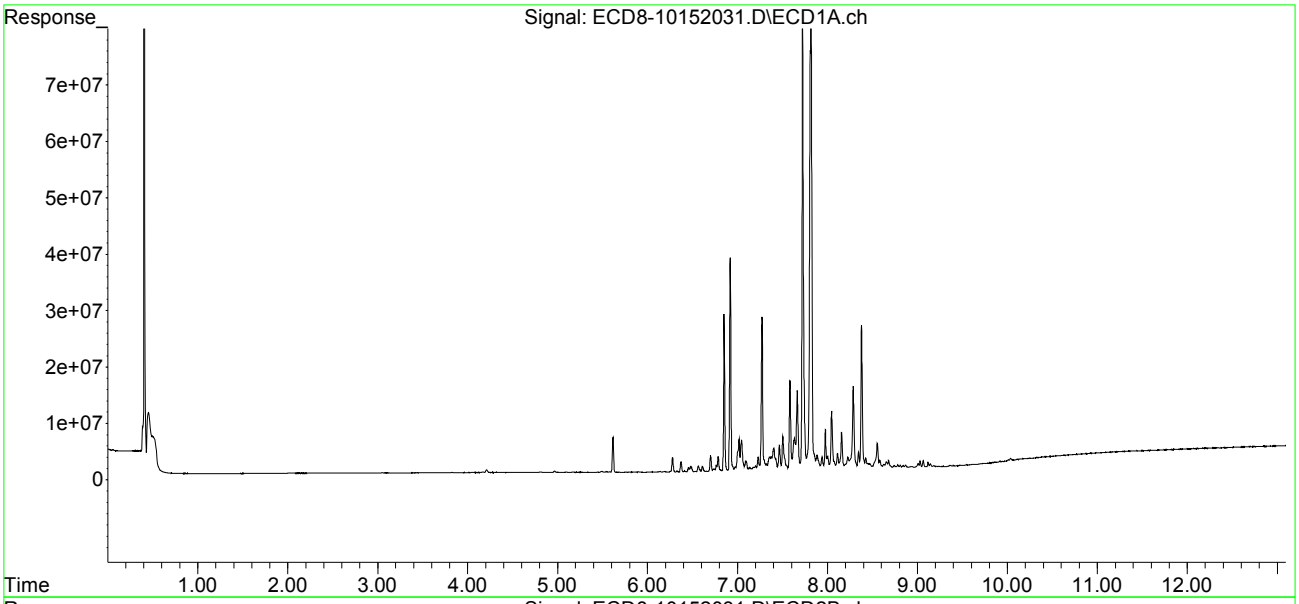
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.723	8.110	83839566	95919284	185.325	217.106
33)	Chlordane...	7.819	8.217	83684527	81115667	152.098	217.919 #
34)	Chlordane...	8.378	8.872	25372320	25782833	174.936	227.759 #
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:24
Operator : MJB
Sample : 0J15061-CALM
Misc : A20F059, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:57:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:41
Operator : MJB
Sample : 0J15061-CALN
Misc : A20F060, CHLOR 500 ppb MJB 10/20/20
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:54:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:41
Operator : MJB
Sample : 0J15061-CALN
Misc : A20F060, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:54:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation

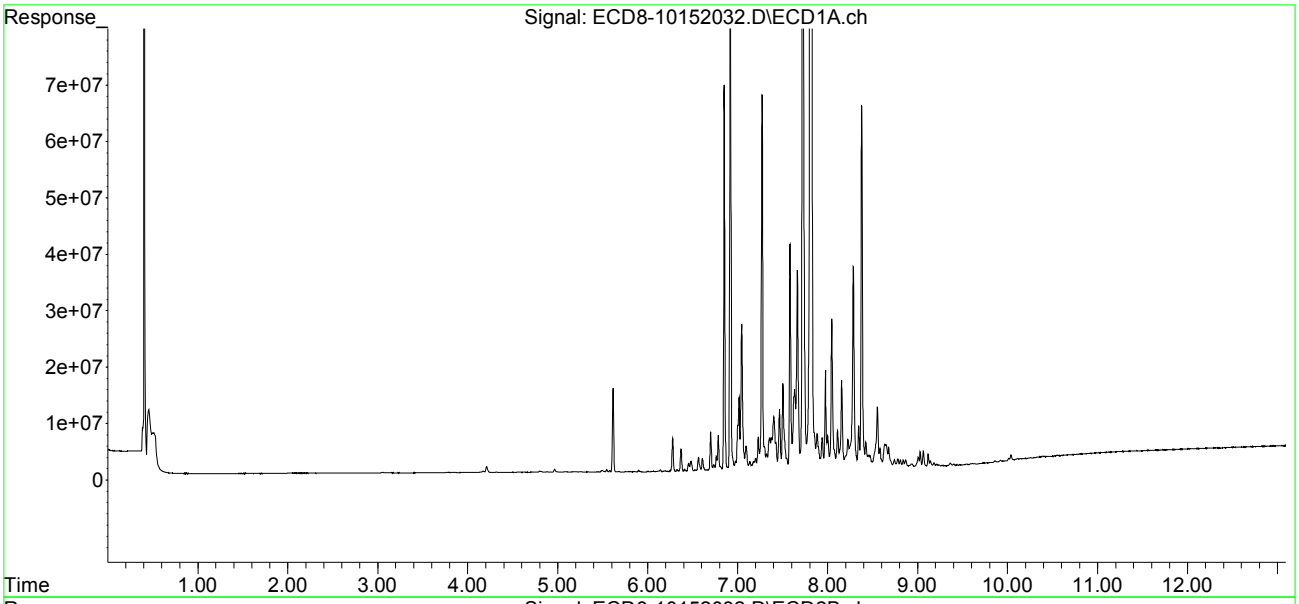
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.723	8.109	209.0E6	255.1E6	462.086	577.498
33)	Chlordane...	7.818	8.216	206.6E6	207.8E6	375.482	558.181 #
34)	Chlordane...	8.378	8.871	64135607	68754277	442.200	598.785 #
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

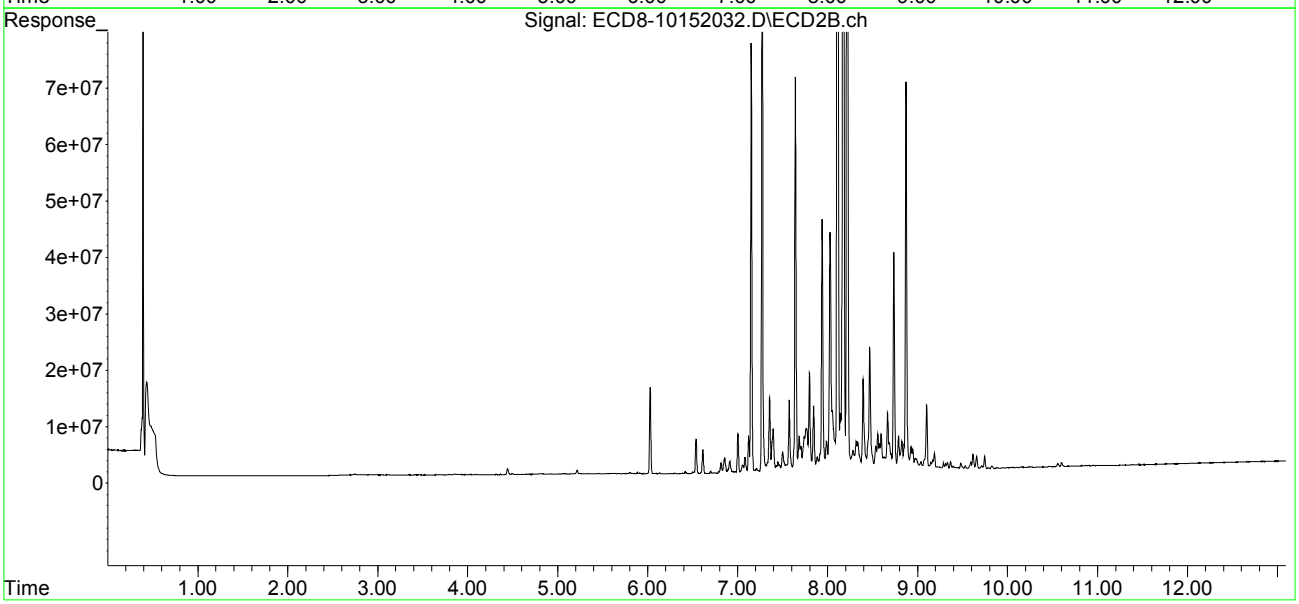
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:41
Operator : MJB
Sample : 0J15061-CALN
Misc : A20F060, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:54:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:48:57 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:58
Operator : MJB
Sample : 0J15061-CALO
Misc : A20F061, CHLOR 1000 ppb MJB 10/20/20
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:57:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:58
Operator : MJB
Sample : 0J15061-CALO
Misc : A20F061, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:57:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

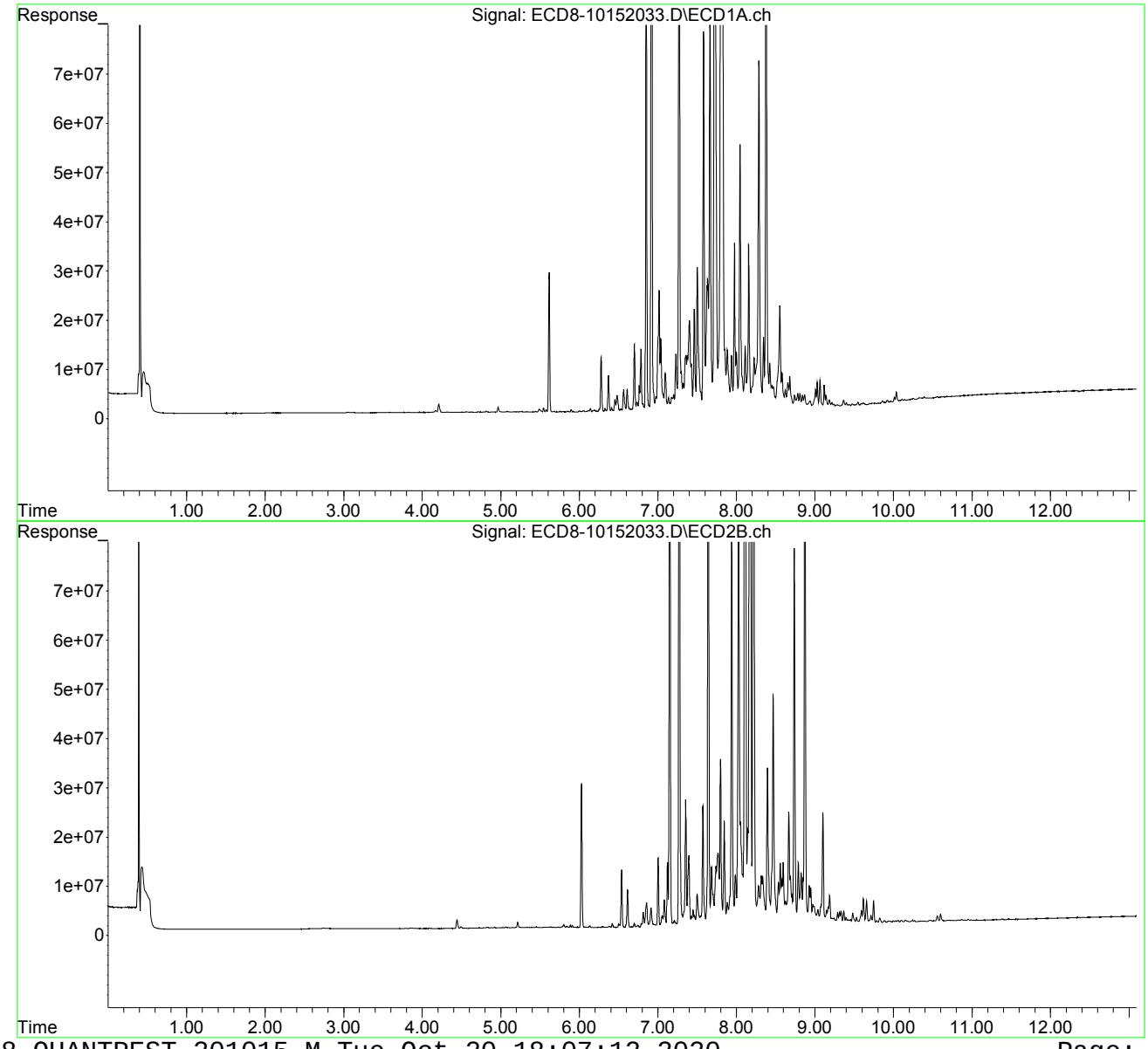
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.722	8.110	397.3E6	490.1E6	878.276	1109.255 #
33)	Chlordane...	7.818	8.216	397.5E6	427.7E6	722.398	1149.139 #
34)	Chlordane...	8.378	8.872	126.7E6	138.5E6	873.655	1148.140 #
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 > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 1:58
Operator : MJB
Sample : 0J15061-CALO
Misc : A20F061, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:57:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 2:14
Operator : MJB
Sample : 0J15061-CALP
Misc : A20F056, CHLOR 2000 ppb MJB 10/20/20
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:58:24 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 2:14
Operator : MJB
Sample : 0J15061-CALP
Misc : A20F056, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:58:24 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

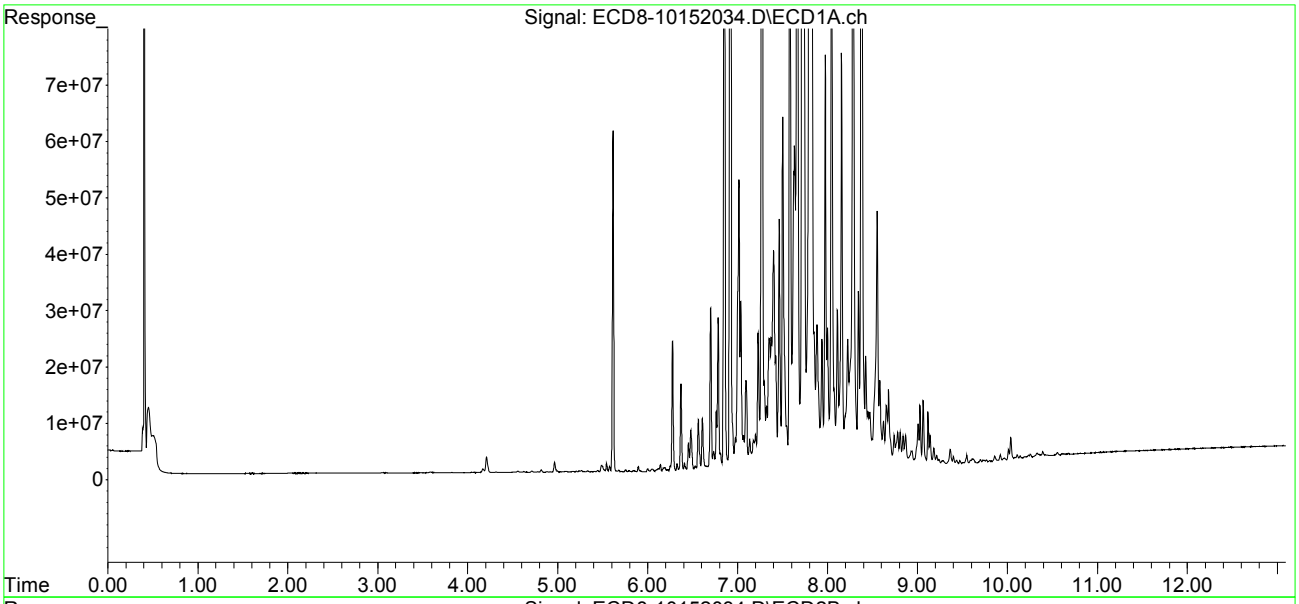
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.722	8.109	894.2E6	1157.0E6	1976.595	2618.741 #
33)	Chlordane...	7.818	8.216	880.4E6	946.8E6	1600.091	2543.561 #
34)	Chlordane...	8.378	8.871	274.6E6	302.1E6	1893.459	2262.065
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

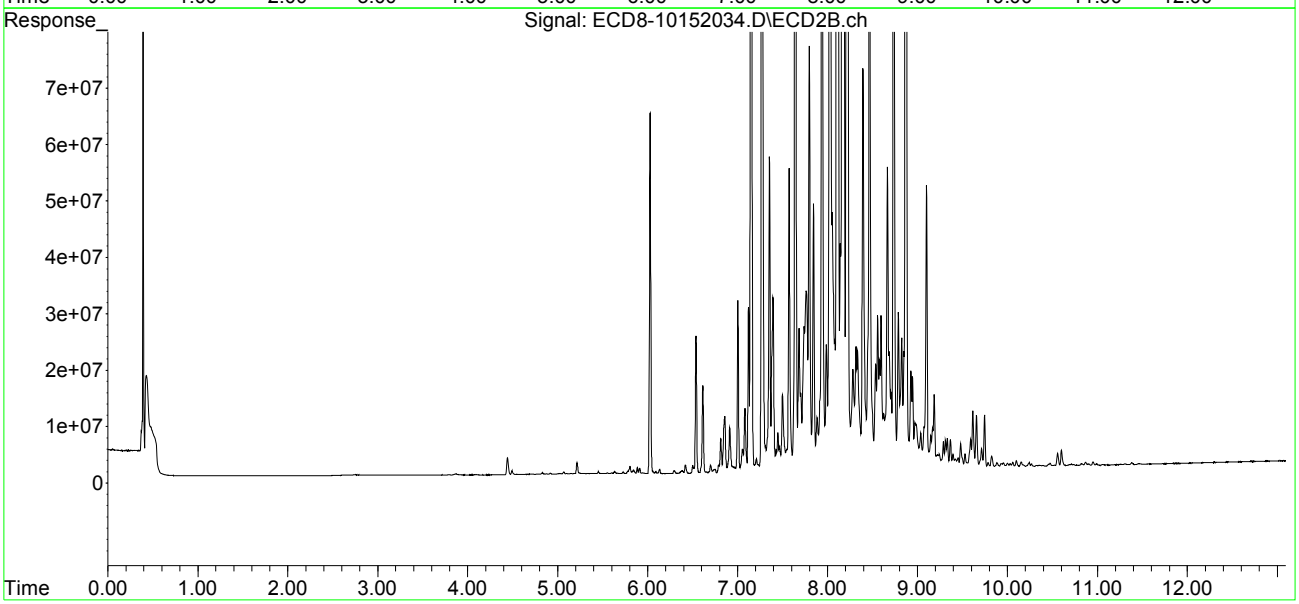
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 2:14
Operator : MJB
Sample : 0J15061-CALP
Misc : A20F056, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:58:24 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:04
Operator : MJB
Sample : 0J15061-CALQ
Misc : A20J278, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:00:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:04
Operator : MJB
Sample : 0J15061-CALQ
Misc : A20J278, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:00:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation

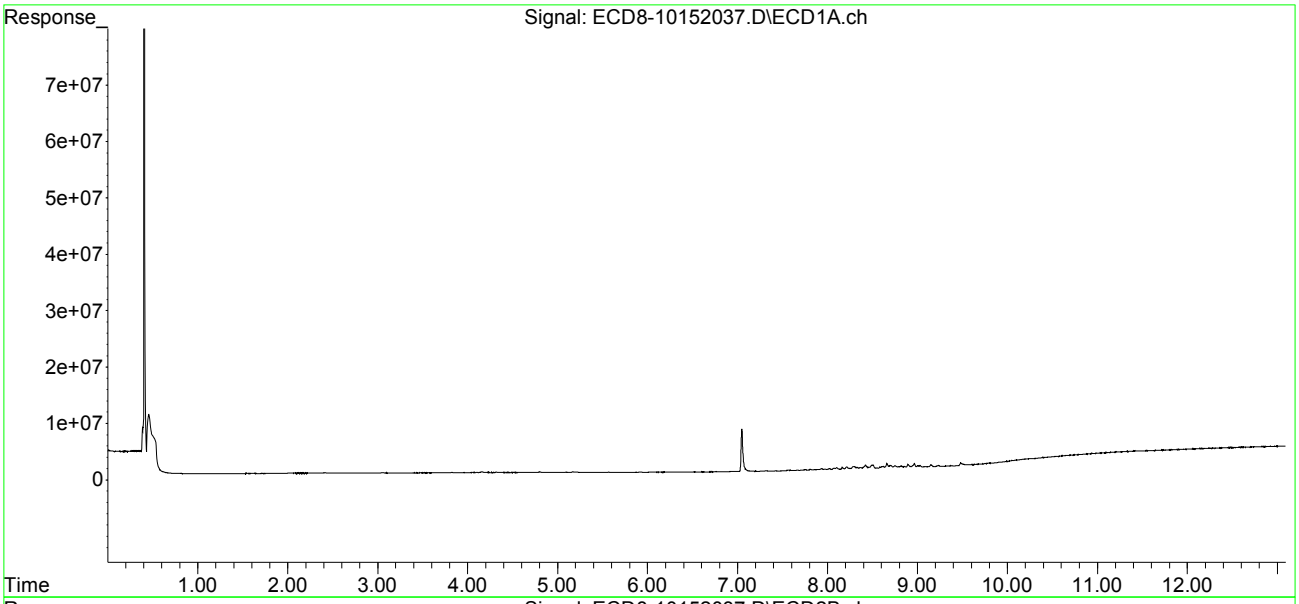
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.808	8.444	144669	399011	8.410	13.196 #
37)	Toxaphene...	8.102	8.793	330702	464016	7.069	11.808 #
38)	Toxaphene...	8.422	8.825	688382	754224	9.136	11.927 #
39)	Toxaphene...	8.659	8.893	806604	1349902	7.130	7.694
40)	Toxaphene...	8.894	9.071	543118	702293	9.724	12.370 #
41)	Toxaphene...	8.965	9.443	681518	779942	8.865	12.046 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

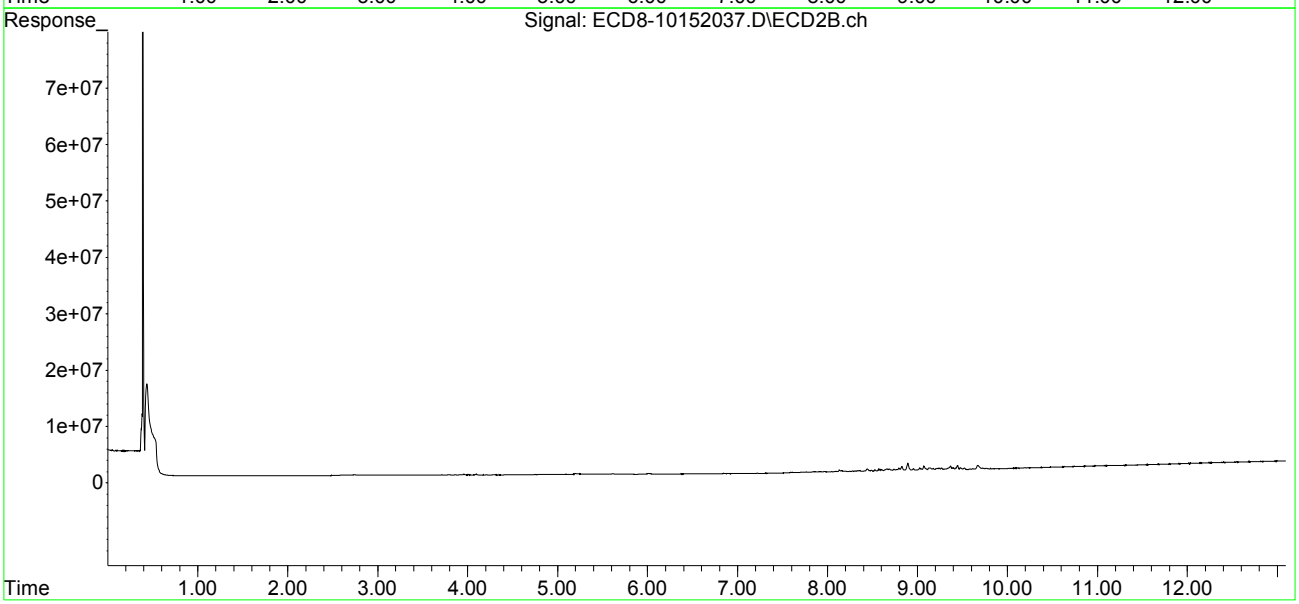
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:04
Operator : MJB
Sample : 0J15061-CALQ
Misc : A20J278, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:00:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:20
Operator : MJB
Sample : 0J15061-CALR
Misc : A20F064, TOX 50 ppb MJB 10/20/20
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:01:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:20
Operator : MJB
Sample : 0J15061-CALR
Misc : A20F064, TOX 50 ppb
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:01:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation

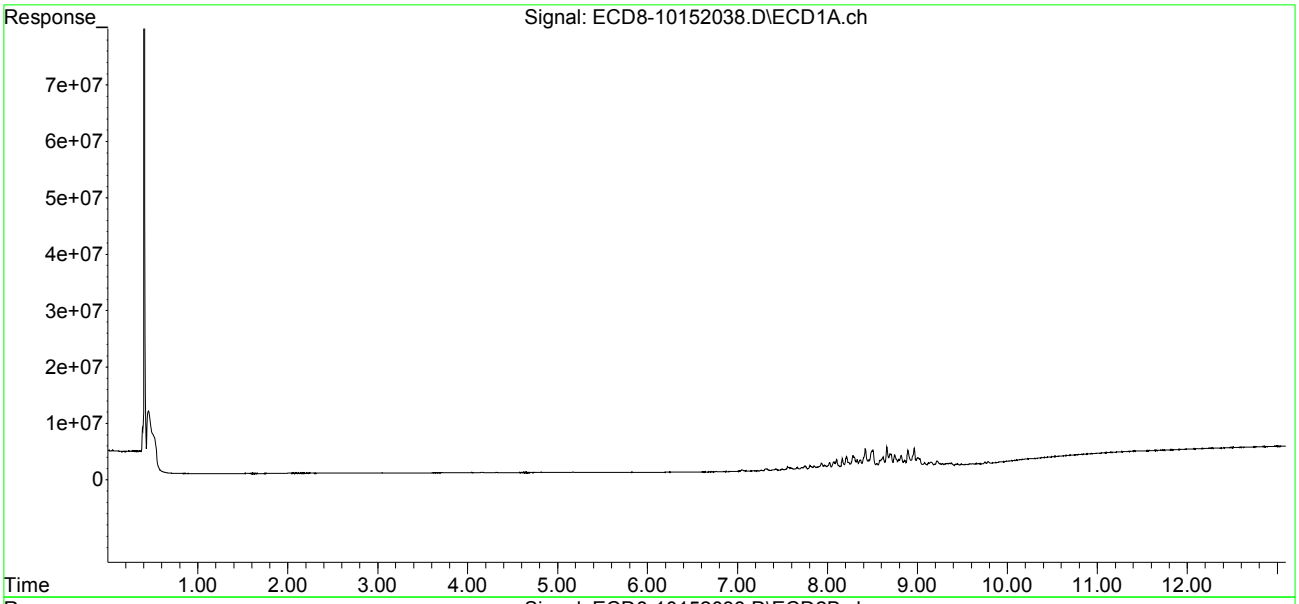
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.805	8.443	726337	1944781	42.224	64.318 #
37)	Toxaphene...	8.101	8.793	1648417	2303326	47.656	58.613
38)	Toxaphene...	8.421	8.825	3404622	3392585	45.185	53.649
39)	Toxaphene...	8.658	8.892	3598900	5669610	48.989	54.877
40)	Toxaphene...	8.893	9.070	2870073	3263105	51.388	57.474
41)	Toxaphene...	8.964	9.443	3244525	3524155	42.204	54.429 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

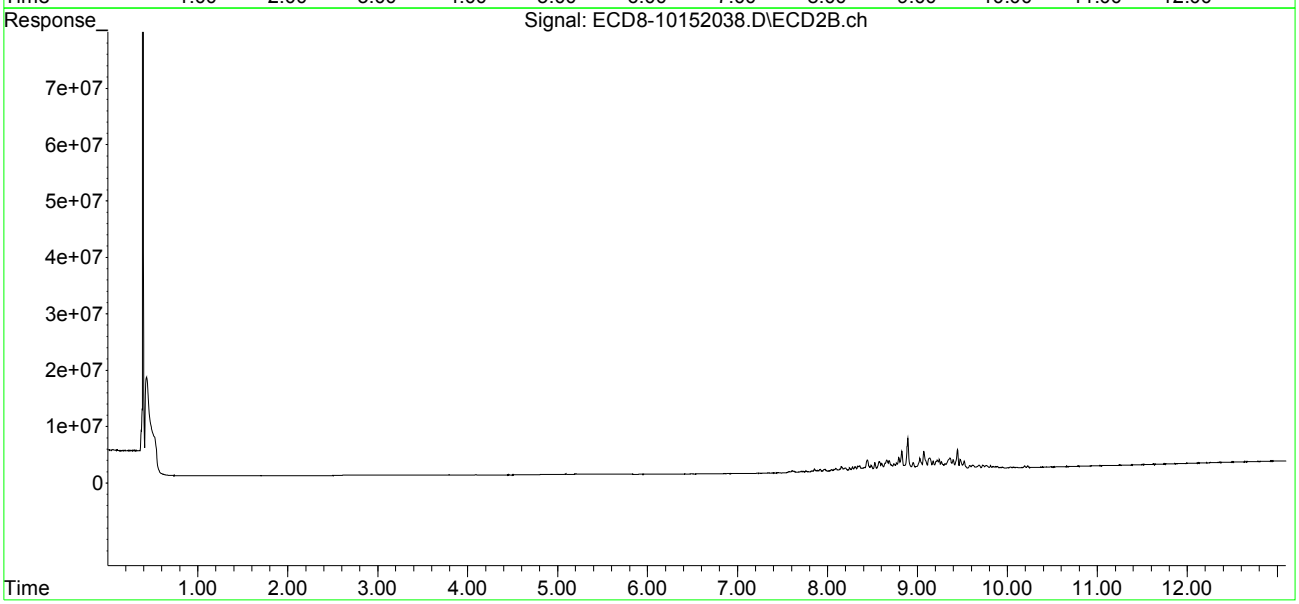
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:20
Operator : MJB
Sample : 0J15061-CALR
Misc : A20F064, TOX 50 ppb
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:01:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:37
Operator : MJB
Sample : 0J15061-CALS
Misc : A20F065, TOX 100 ppb
ALS Vial : 34 Sample Multiplier: 1

Not reported. Wrong standard vialed.

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:01:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:37
Operator : MJB
Sample : 0J15061-CALS
Misc : A20F065, TOX 100 ppb
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:01:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation

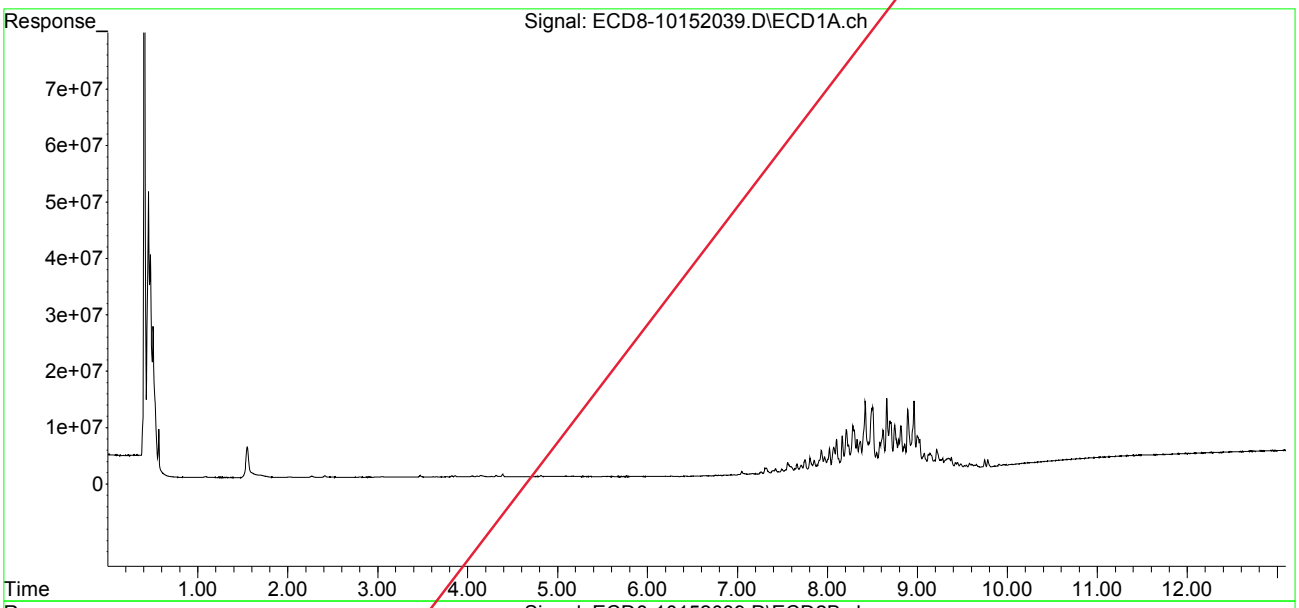
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.804	8.443	2660037	6552232	154.636	216.695 #
37)	Toxaphene...	8.100	8.792	5863008	8007800	177.649	203.777
38)	Toxaphene...	8.419	8.824	12309556	11971612	163.368	189.314
39)	Toxaphene...	8.657	8.892	12748382	19887584	185.126	206.738
40)	Toxaphene...	8.892	9.070	10653821	11745901	190.754	206.883
41)	Toxaphene...	8.962	9.442	12094856	12512982	157.328	193.258
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

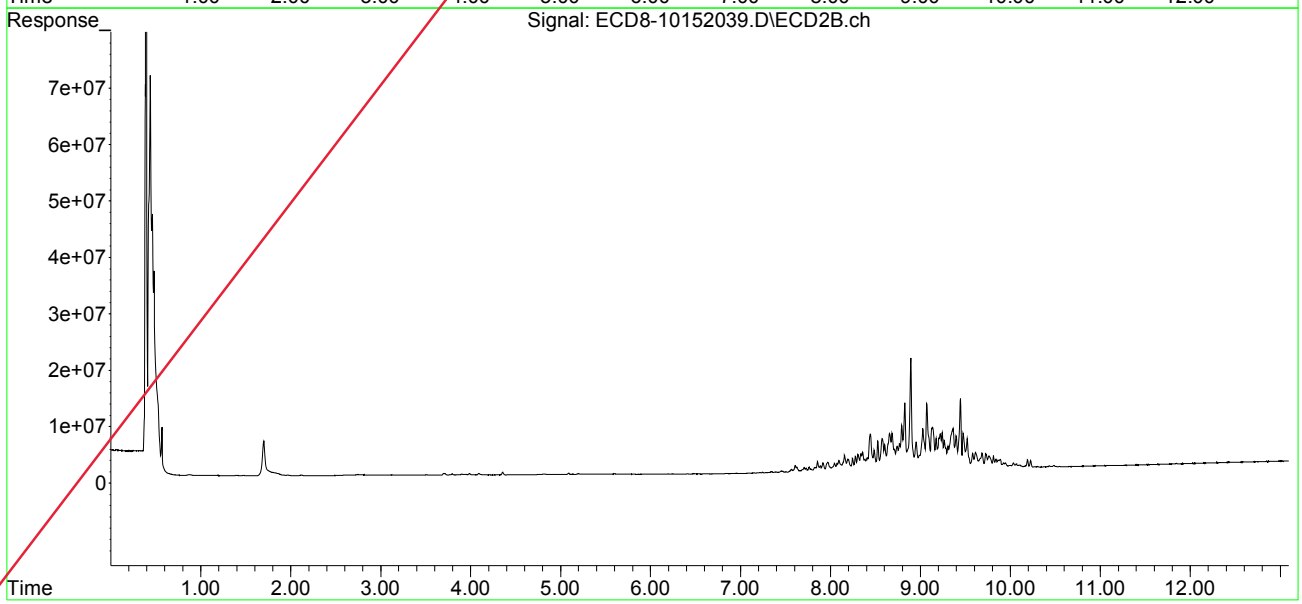
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:37
Operator : MJB
Sample : 0J15061-CALS
Misc : A20F065, TOX 100 ppb
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:01:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:53
Operator : MJB
Sample : 0J15061-CALT
Misc : A20F066, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:02:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:53
Operator : MJB
Sample : 0J15061-CALT
Misc : A20F066, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:02:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation

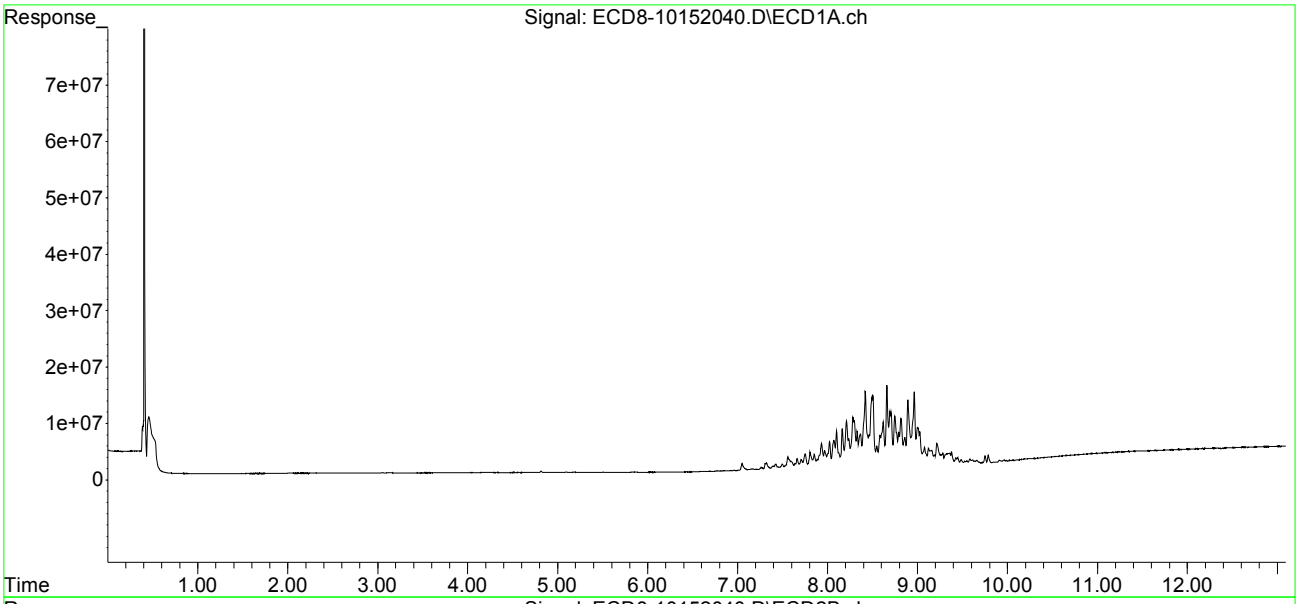
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.804	8.444	2928701	7231910	170.254	239.173 #
37)	Toxaphene...	8.099	8.792	6531155	8939693	198.282	227.491
38)	Toxaphene...	8.419	8.825	13381927	13097504	177.600	207.119
39)	Toxaphene...	8.658	8.892	14340541	21519149	208.659	223.843
40)	Toxaphene...	8.892	9.070	11584089	12845839	207.410	226.257
41)	Toxaphene...	8.963	9.442	13009268	13990550	169.223	216.078 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

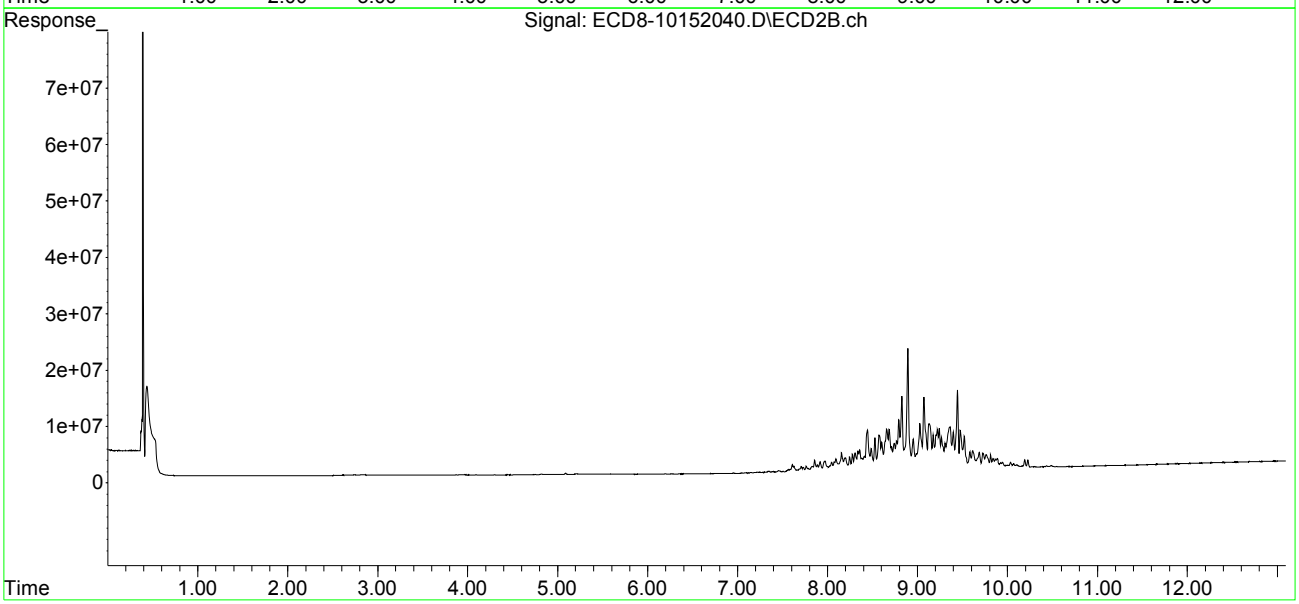
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 3:53
Operator : MJB
Sample : 0J15061-CALT
Misc : A20F066, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:02:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:10
Operator : MJB
Sample : 0J15061-CALU
Misc : A20D430, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:59:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:10
Operator : MJB
Sample : 0J15061-CALU
Misc : A20D430, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:59:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation

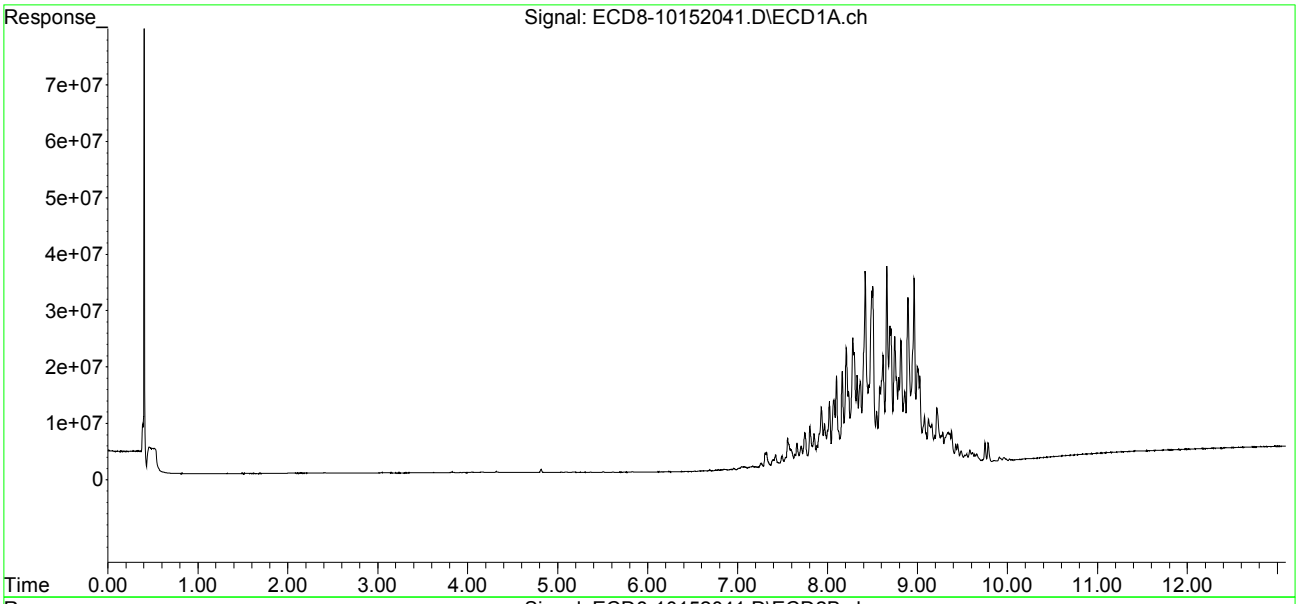
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.803	8.444	7355899	18107794	427.620	598.860 #
37)	Toxaphene...	8.099	8.791	16121893	22747138	495.207	578.853
38)	Toxaphene...	8.419	8.825	34493083	33775269	457.779	534.109
39)	Toxaphene...	8.657	8.892	35303409	55412823	514.316	565.771
40)	Toxaphene...	8.893	9.070	29598444	33539622	529.952	590.741
41)	Toxaphene...	8.963	9.442	33036149	36618141	429.729	565.552 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

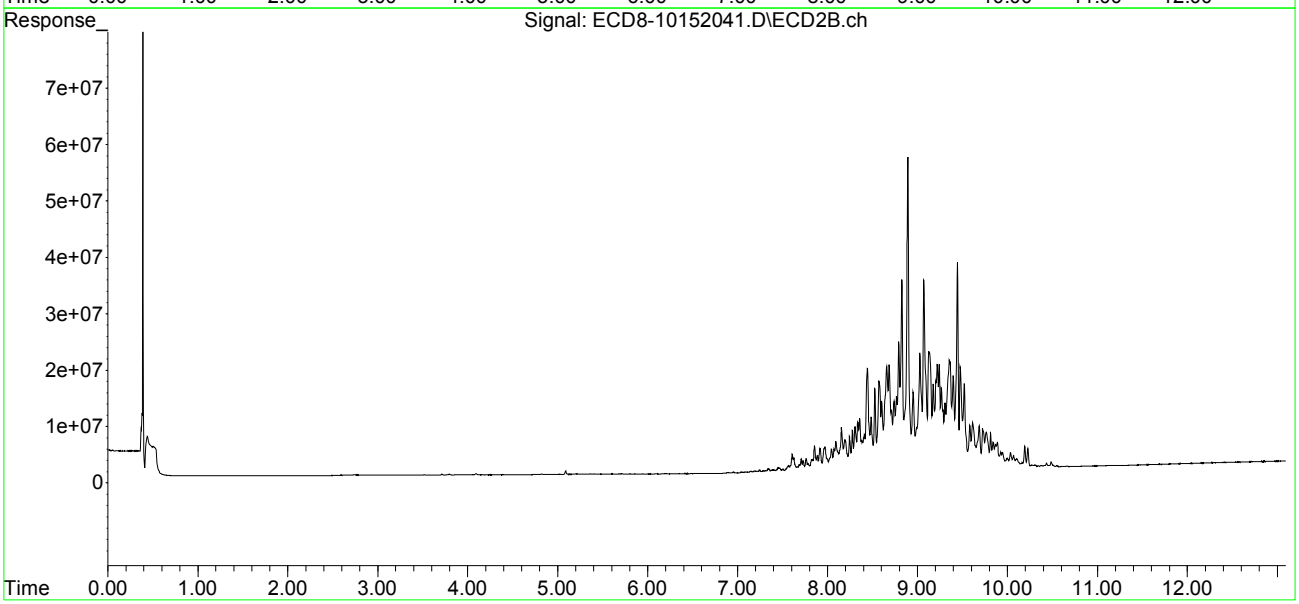
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:10
Operator : MJB
Sample : 0J15061-CALU
Misc : A20D430, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 16:59:56 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 16:55:36 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:26
Operator : MJB
Sample : 0J15061-CALV
Misc : A20D431, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:03:04 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:26
Operator : MJB
Sample : 0J15061-CALV
Misc : A20D431, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:03:04 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation

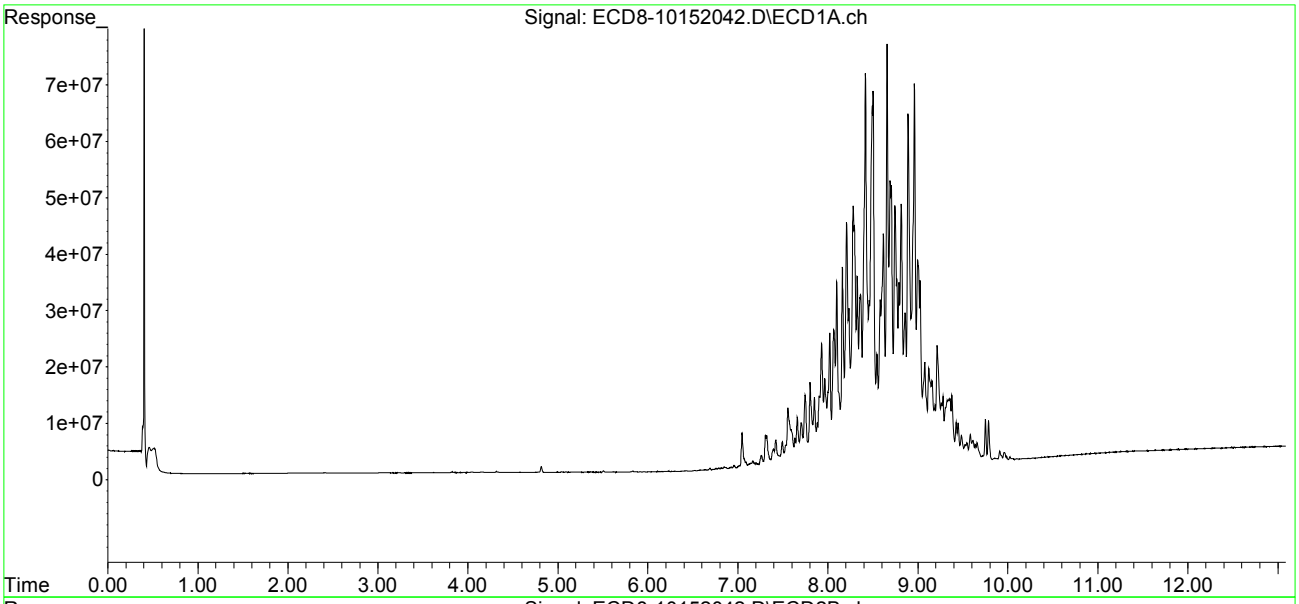
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.802	8.442	15006216	37044200	872.355	1225.124 #
37)	Toxaphene...	8.098	8.791	32732158	47836415	1012.838	1217.308
38)	Toxaphene...	8.418	8.824	69458796	70093512	921.830	1108.432
39)	Toxaphene...	8.656	8.891	74462214	120.1E6	1065.891	1159.768
40)	Toxaphene...	8.891	9.069	61876109	69799894	1107.874	1229.401
41)	Toxaphene...	8.962	9.442	67239784	75965801	874.645	1173.259 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

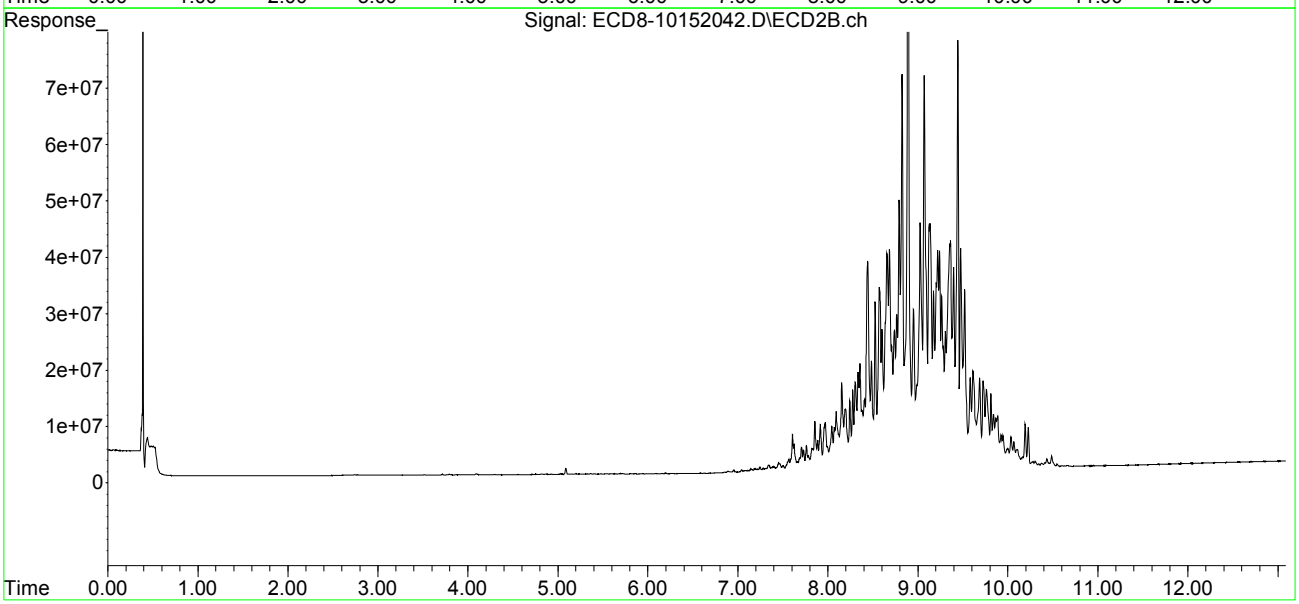
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:26
Operator : MJB
Sample : 0J15061-CALV
Misc : A20D431, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:03:04 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:43
Operator : MJB
Sample : 0J15061-CALW
Misc : A20F063, TOX 2000 ppb
ALS Vial : 38 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:03:42 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation

	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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:43
Operator : MJB
Sample : 0J15061-CALW
Misc : A20F063, TOX 2000 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:03:42 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation

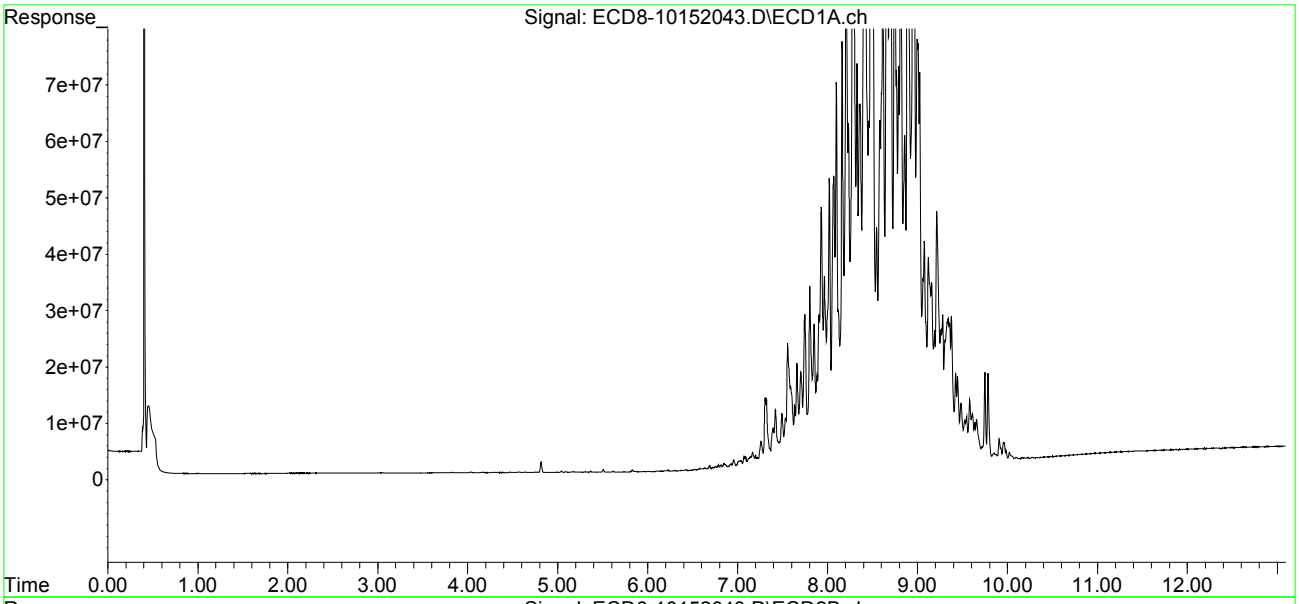
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.802	8.441	31810920	79634590	1849.262	2633.672 #
37)	Toxaphene...	8.098	8.790	67923479	104.7E6	2124.146	2665.298 #
38)	Toxaphene...	8.418	8.823	147.3E6	151.2E6	1955.044	2390.707
39)	Toxaphene...	8.656	8.891	154.2E6	255.8E6	2122.116	2234.760
40)	Toxaphene...	8.890	9.069	130.9E6	153.5E6	2344.529	2703.379
41)	Toxaphene...	8.961	9.442	145.1E6	163.3E6	1887.451	2522.356 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

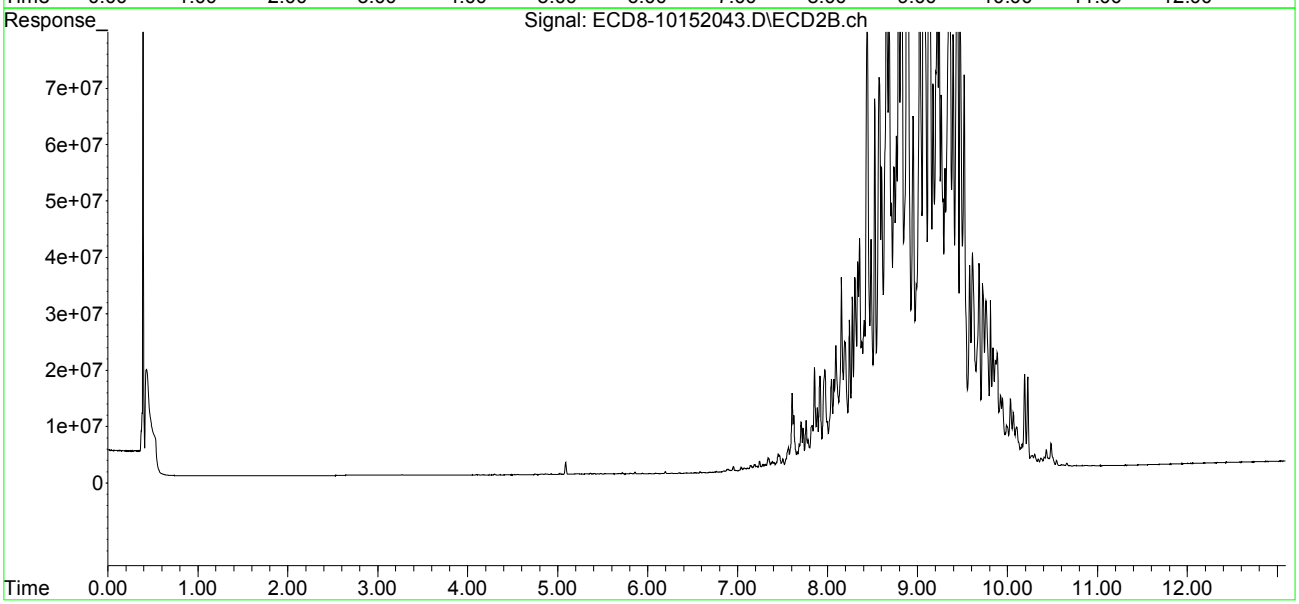
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\
Data File : ECD8-10152043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 16 Oct 2020 4:43
Operator : MJB
Sample : 0J15061-CALW
Misc : A20F063, TOX 2000 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Oct 20 17:03:42 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_201015.M
Quant Title : Instrument: DualECD8
QLast Update : Tue Oct 20 17:00:33 2020
Response via : Initial Calibration
Integrator: ChemStation





Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)
Benchsheet & Analysis Sequence Data

Batch 0100764
Sequence 0J22053 (A0J0371-02,06,10)

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0100764 (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	0100764-BLK1		QC	10/22/20 10:40	~~10~~ 11	5 ✓				100					
2	0100764-BS1		QC	10/22/20 10:40	10	5 ✓	A20J191		100	100					
3	A0J0344-07	A	8270E LL PAH Only (Scan)	10/22/20 10:40	~~10~~ 10.15 ~~10.11~~ scc 10/22/20	5 ✓				100	USMPDI-054SG-201009	Sed.(mud), *, (5)			
4	0100764-DUP1		QC	10/22/20 10:40	~~10~~ 10.11	5 ✓		A0J0344-07		100		Sed.(mud), (5)			
5	A0J0371-02	A	8270E LL PAH Only (Scan)	10/22/20 10:40	~~10~~ 10.34	5 ✓				100	USMPDI-003SG-201011	Sed.(mud), (5)			
6	A0J0371-05	A	8270E LL PAH Only (Scan)	10/22/20 10:40	~~10~~ 10.01	5 ✓				100	USMPDI-012SG-201010	Sed.(mud), (5)			
7	A0J0371-06	A	8270E LL PAH Only (Scan)	10/22/20 10:40	~~10~~ 10.06	5 ✓				100	USMPDI-021SG-201010	Sed.(mud) (5)			
8	A0J0371-10	A	8270E LL PAH Only (Scan)	10/22/20 10:40	~~10~~ 10.17	5 ✓				100	USMPDI-045SG-201010	Sed.(mud) (5)			
9	0100764-MS1		QC	10/22/20 10:40	~~10~~ 10.23	5 ✓	A20J191	A0J0371-10	100	100		Sed.(mud) (5)			

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A20B017	02/01/21	Glass Wool
A20F023	11/29/22	Sodium Sulfate Lot # 196476
A20H026	01/31/21	DCM CHEM PROD. DZ242-US

Analyte Spike(s)

Std ID	Exp. Date	Description
A20J191	04/10/21	LVI PAH/PCP Spike @2000/5000ng/ml

scc

Surrogate(s)

Std ID	Exp. Date	Description
A20H011	01/11/21	8270E LL PAH Only Surr. (5ppm)

scc

*=Dryout. Reweighed and microwaved.

(5)= Staining on turbovap tube

Method 3546 digestion time and temperture achieved.
Initial: scc

Witness: MEB 10/22/20

scc 10/22/2020
Prepared By: Date

CAS 10/22/2020
Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0100764 (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
	0100764-BLK1		QC	10/22/20 10:40	11	5				100					
	0100764-BS1		QC	10/22/20 10:40	10	5	A20J191		100	100					
	A0J0344-07	A	8270E LL PAH Only (Scan)	10/22/20 10:40	10.15	5				100	USMPDI-054SG-201009				
	0100764-DUP1		QC	10/22/20 10:40	10.11	5		A0J0344-07		100					
	A0J0371-02	A	8270E LL PAH Only (Scan)	10/22/20 10:40	10.34	5				100	USMPDI-003SG-201011				
	A0J0371-05	A	8270E LL PAH Only (Scan)	10/22/20 10:40	10.01	5				100	USMPDI-012SG-201010				
	A0J0371-06	A	8270E LL PAH Only (Scan)	10/22/20 10:40	10.06	5				100	USMPDI-021SG-201010				
	A0J0371-10	A	8270E LL PAH Only (Scan)	10/22/20 10:40	10.17	5				100	USMPDI-045SG-201010				
	0100764-MS1		QC	10/22/20 10:40	10.23	5	A20J191	A0J0371-10	100	100					

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance
A20B017	02/01/21	Glass Wool
A20F023	11/29/22	Sodium Sulfate Lot # 196476
A20H026	01/31/21	DCM CHEM PROD. DZ242-US

Analyte Spike(s)

Std ID	Exp. Date	Description
A20J191	04/10/21	LVI PAH/PCP Spike @2000/5000ng/ml

Surrogate(s)

Std ID	Exp. Date	Description
A20H011	01/11/21	8270E LL PAH Only Surr. (5ppm)

Method 3546 digestion time and temperture achieved.
Initial:

Witness:_____

Prepared By: _____ Date _____

Reviewed By: [signature] Date 10/23/20

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0J22053	Instrument:	SV-GCMS14
Date:	**10/22/20 10:50**	Calibration:	**A0H1005**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J22053-TUN1	Sediment	QC	QC			A20J202	A20J205
2	0J22053-IBL1	Sediment	QC	QC			A20J202	
3	0J22053-CCV1	Sediment	QC	QC			A20J202	A20J299
4	0J22053-CCB1	Sediment	QC	QC			A20J202	
5	0100764-BLK1	Sediment	QC	QC		0100764	A20J202	
6	0100764-BS1	Sediment	QC	QC		0100764	A20J202	
7	A0J0344-07	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
8	0100764-DUP1	Sediment	QC	QC		0100764	A20J202	
9	A0J0371-10	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
10	0100764-MS1	Sediment	QC	QC		0100764	A20J202	
11	A0J0371-02	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
12	A0J0371-05	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
13	A0J0371-06	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
14	0J22053-IBL2	Sediment	QC	QC			A20J202	

Comments:

Data Entered By/Date: HML 10/23/20

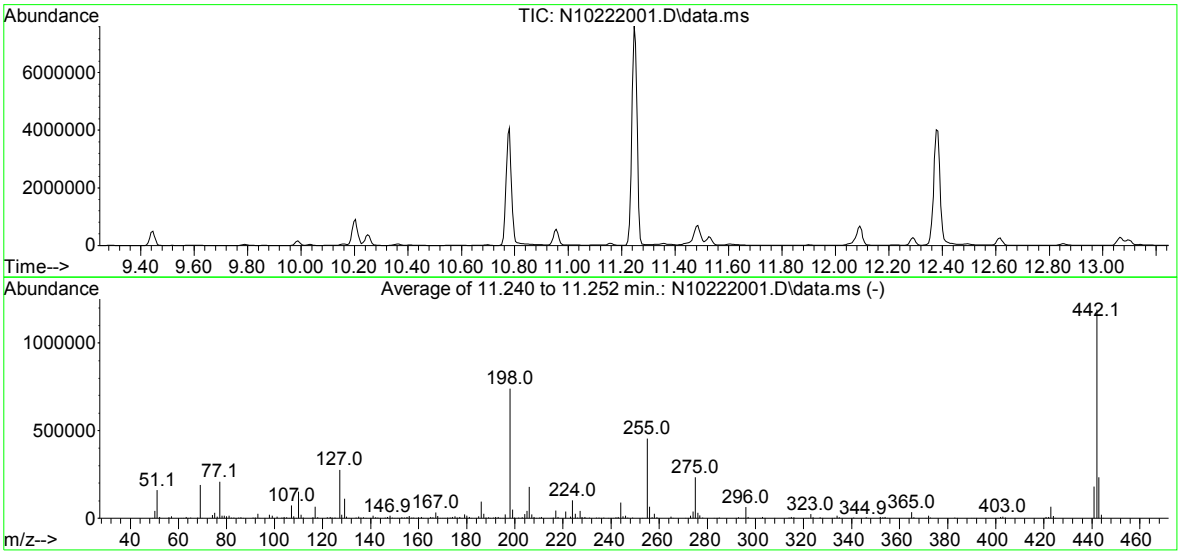
Data Reviewed By/Date: JK 10/23/20

HML 10/23/20

Data Path : U:\data\2020-10\0J22053\
Data File : N10222001.D
Acq On : 22 Oct 2020 03:05 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-TUN1
Misc : 1x, A20J283 DFTPP@25
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : U:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Fri Aug 07 10:05:11 2020



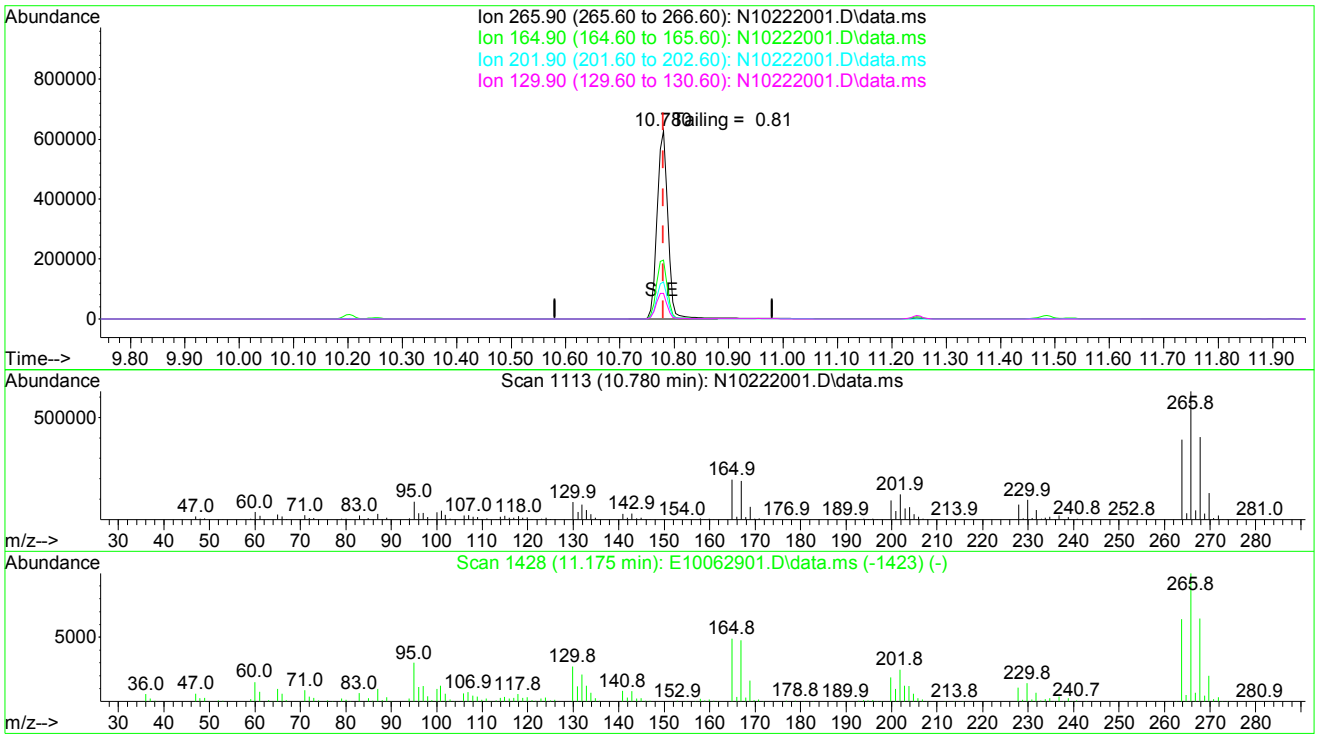
AutoFind: Scans 1192, 1193, 1194; Background Corrected with Scan 1186

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	3420	PASS
69	69	100	100	100.0	190908	PASS
70	69	0.00	2	0.5	963	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	741120	PASS
199	198	5	9	6.8	50531	PASS
365	198	1	100	4.5	33459	PASS
441	443	0.01	150	77.8	181779	PASS
442	198	0.10	200	160.7	1191147	PASS
443	442	15	24	19.6	233771	PASS

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222001.D
Acq On : 22 Oct 2020 03:05 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-TUN1
Misc : 1x, A20J283 DFTPP@25
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Oct 22 15:29:13 2020
Quant Method : C:\GCMS\1\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Fri Aug 07 10:05:11 2020
Response via : Initial Calibration



TIC: N10222001.D\data.ms

(4) Pentachlorophenol

10.780min (-0.000) 63.79 ug/mL

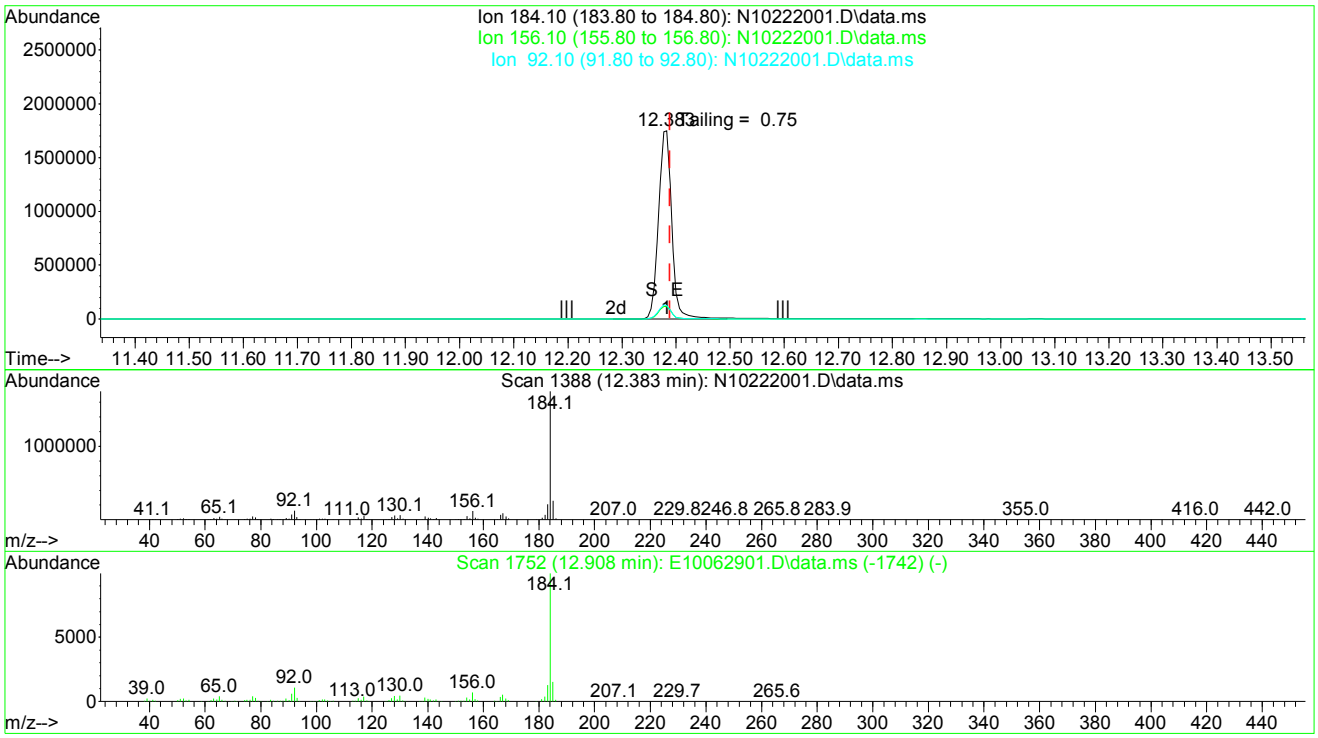
response 872109

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	31.27
201.90	25.80	19.67
129.90	27.30	13.68

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222001.D
Acq On : 22 Oct 2020 03:05 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-TUN1
Misc : 1x, A20J283 DFTPP@25
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Oct 22 15:29:13 2020
Quant Method : C:\GCMS\1\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Fri Aug 07 10:05:11 2020
Response via : Initial Calibration



TIC: N10222001.D\data.ms

(7) Benzidine

12.383min (-0.006) 28.22 ug/mL

response 2957402

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.63
92.10	8.20	7.00
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

From:
0J22053-TUN1
SV-GCMS14

First Column Area Counts		Percent Breakdown	
DDE	355462		
DDD	257177		
DDT	10963619	**5.29**	**PASS**

Breakdown must be less than 20% to accept sample data.

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222001.D
Acq On : 22 Oct 2020 03:05 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-TUN1
Misc : 1x, A20J283 DFTPP@25
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Oct 22 15:29:13 2020
Quant Method : C:\GCMS\1\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Fri Aug 07 10:05:11 2020
Response via : Initial Calibration

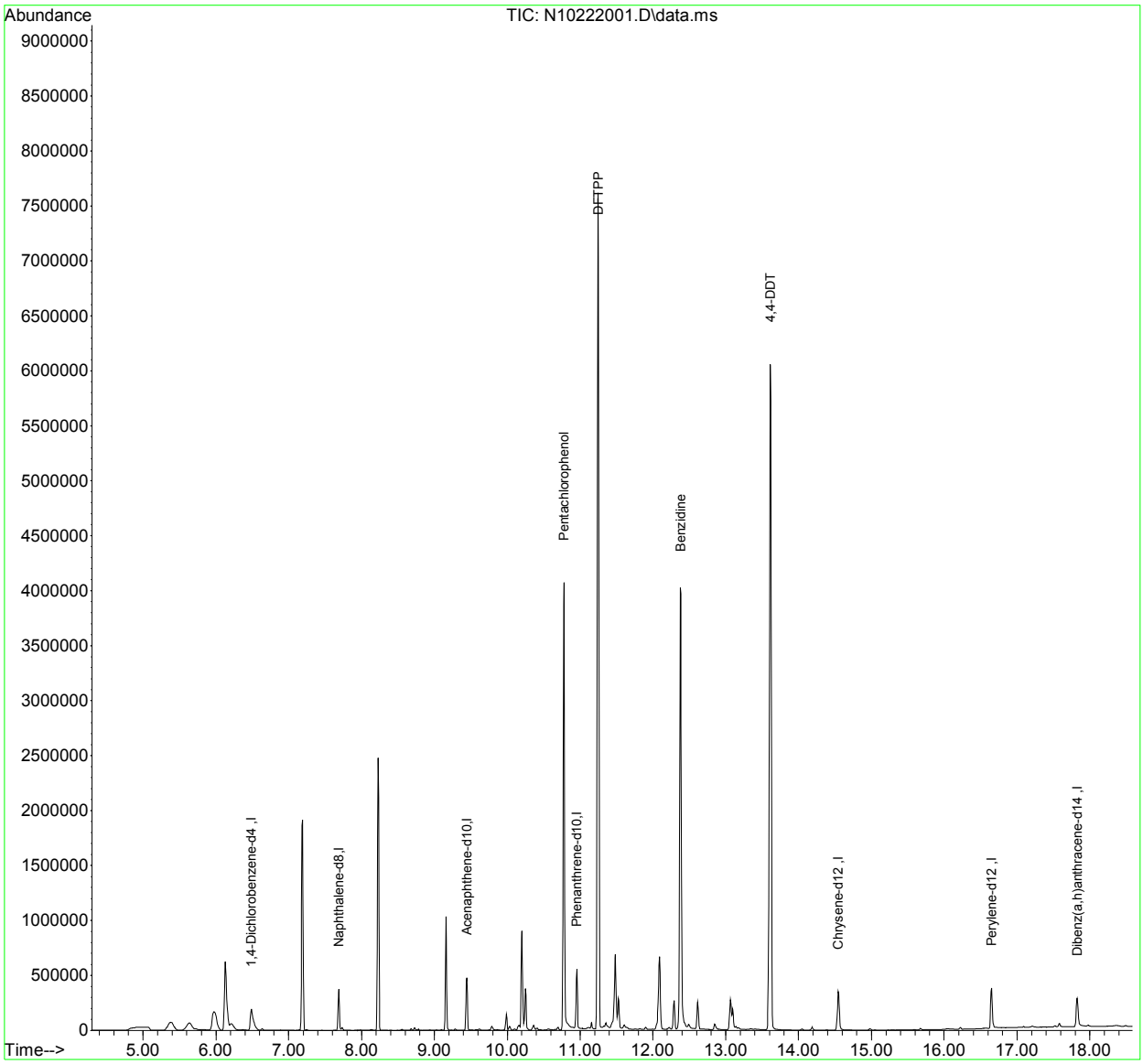
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.484	150	110134	2.00	ug/mL		0.00
2) Naphthalene-d8	7.685	136	266455	2.00	ug/mL		0.00
3) Acenaphthene-d10	9.445	162	144787	2.00	ug/mL		0.00
5) Phenanthrene-d10	10.955	188	294550	2.00	ug/mL		0.00
11) Chrysene-d12	14.545	240	256784	2.00	ug/mL		0.00
12) Perylene-d12	16.649	264	227894	2.00	ug/mL		0.00
13) Dibenz(a,h)anthracene-...	17.827	292	206411	2.00	ug/mL	#	0.00
Target Compounds							Qvalue
4) Pentachlorophenol	10.780	266	872109	63.79	ug/mL		76
6) DFTPP	11.252	442	1887124	79.36	ug/mL	#	58
7) Benzidine	12.383	184	2957402	28.22	ug/mL		96
8) 4,4-DDE	12.616	TIC	355462	No Calib			
9) 4,4-DDD	13.094	TIC	257177	No Calib			
10) 4,4-DDT	13.613	TIC	10963619	36.30	ug/mL		93

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

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222001.D
Acq On : 22 Oct 2020 03:05 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-TUN1
Misc : 1x, A20J283 DFTPP@25
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Oct 22 15:29:13 2020
Quant Method : C:\GCMS\1\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Fri Aug 07 10:05:11 2020
Response via : Initial Calibration



Evaluate Continuing Calibration Report HML 10/23/20

Data Path : U:\data\2020-10\0J22053\
Data File : N10222003.D
Acq On : 22 Oct 2020 04:05 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-CCV1
Misc : 1x, A20J299@100
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:34:04 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8 (ISTD)	100.000	100.000	0.0	109	0.00
2	S	Nitrobenzene-d5 (Surr)	100.000	93.308	6.7	101	0.00
3	T	Decalin	100.000	90.736	9.3	96	0.00
4	T	Naphthalene	100.000	94.715	5.3	106	0.00
5	T	2-Methylnaphthalene	100.000	99.618	0.4	104	0.00
6	T	1-Methylnaphthalene	100.000	96.038	4.0	102	0.00
7	T	1,1'-Biphenyl	100.000	98.633	1.4	103	0.00
8	T	2,6-Dimethylnaphthalene	100.000	98.303	1.7	101	0.00
9	I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	100	0.00
10	S	2-Fluorobiphenyl (Surr)	100.000	102.860	-2.9	100	0.00
11	T	Acenaphthylene	100.000	106.491	-6.5	100	0.00
12	T	Acenaphthene	100.000	96.682	3.3	97	0.00
13	T	Dibenzofuran	100.000	109.834	-9.8	104	0.00
14	T	1,6,7-Trimethylnaphthalene	100.000	98.254	1.7	95	0.00
15	T	Fluorene	100.000	101.232	-1.2	94	0.00
16	I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	98	0.00
17	S	2,4,6-Tribromophenol (Surr)	100.000	75.365	24.6#	72	0.00
18	T	Pentachlorophenol (PCP)	100.000	64.154	35.8#	57	0.00
19	T	Dibenzothiopene	100.000	100.610	-0.6	97	0.00
20	T	Phenanthrene	100.000	96.881	3.1	97	0.00
21	T	Anthracene	100.000	105.199	-5.2	98	0.00
22	T	Carbazole	100.000	101.349	-1.3	92	0.00
23	T	1-Methylphenanthrene	100.000	97.236	2.8	92	0.00
24	T	Fluoranthene	100.000	99.465	0.5	91	0.00
25	I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	95	0.00
26	T	Pyrene	100.000	100.697	-0.7	91	0.00
27	S	Terphenyl-d14 (Surr)	100.000	105.988	-6.0	98	0.00
28	T	Benz(a)anthracene	100.000	95.354	4.6	94	0.00
29	T	Chrysene	100.000	99.460	0.5	94	0.00

Evaluate Continuing Calibration Report

Data Path : U:\data\2020-10\0J22053\
Data File : N10222003.D
Acq On : 22 Oct 2020 04:05 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-CCV1
Misc : 1x, A20J299@100
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:34:04 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
30	I	Perylene-d12 (ISTD)	100.000	100.000	0.0	90	0.00
31	T	Benzo(b)fluoranthene	100.000	97.895	2.1	86	0.00
32	T	Benzo(k)fluoranthene	100.000	104.850	-4.8	90	0.00
33	T	Benzo(b+k)fluoranthene	200.000	204.685	-2.3	89	0.00
34	T	Benzo(e)pyrene	100.000	103.537	-3.5	89	0.00
35	T	Benzo(a)pyrene	100.000	101.537	-1.5	87	0.00
36	T	Perylene	100.000	101.332	-1.3	91	0.00
37	I	Dibenz(a,h)Anthrcene-d14(IS	100.000	100.000	0.0	87	0.00
38	T	Indeno(1,2,3-cd)Pyrene	100.000	93.549	6.5	80	0.00
39	T	Dibenz(a,h)anthracene	100.000	94.820	5.2	79	0.00
40	T	Benzo(g,h,i)perylene	100.000	99.458	0.5	81	0.00

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222003.D
Acq On : 22 Oct 2020 04:05 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-CCV1
Misc : 1x, A20J299@100
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:34:04 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	262328	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	160377	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	305267	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	260148	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	221037	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	163573	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	68569	93.31	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	235866	102.86	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	28656	75.36	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.732	244	265100	105.99	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.219	138	14131	90.74	ng/ml	82
4) Naphthalene	7.761	128	256221	94.72	ng/ml	99
5) 2-Methylnaphthalene	8.443	142	194859	99.62	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	187984	96.04	ng/ml	97
7) 1,1'-Biphenyl	8.909	154	245531	98.63	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.066	156	179338	98.30	ng/ml	96
11) Acenaphthylene	9.346	152	286254	106.49	ng/ml	99
12) Acenaphthene	9.521	153	189908	96.68	ng/ml	99
13) Dibenzofuran	9.696	168	271248	109.83	ng/ml	94
14) 1,6,7-Trimethylnaphtha...	9.906	170	174989	98.25	ng/ml	99
15) Fluorene	10.045	166	202433	101.23	ng/ml	99
18) Pentachlorophenol (PCP)	10.815	266	9181	64.15	ng/ml	97
19) Dibenzothiopene	10.891	184	298247	100.61	ng/ml	93
20) Phenanthrene	11.019	178	320083	96.88	ng/ml	99
21) Anthracene	11.071	178	284685	105.20	ng/ml	99
22) Carbazole	11.235	167	203877	101.35	ng/ml	98
23) 1-Methylphenanthrene	11.643	192	230990	97.24	ng/ml	98
24) Fluoranthene	12.260	202	340891	99.47	ng/ml	95
26) Pyrene	12.534	202	350766	100.70	ng/ml	99
28) Benz(a)anthracene	14.615	228	247991	95.35	ng/ml	99
29) Chrysene	14.691	228	267278	99.46	ng/ml	99

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222003.D
Acq On : 22 Oct 2020 04:05 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-CCV1
Misc : 1x, A20J299@100
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:34:04 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

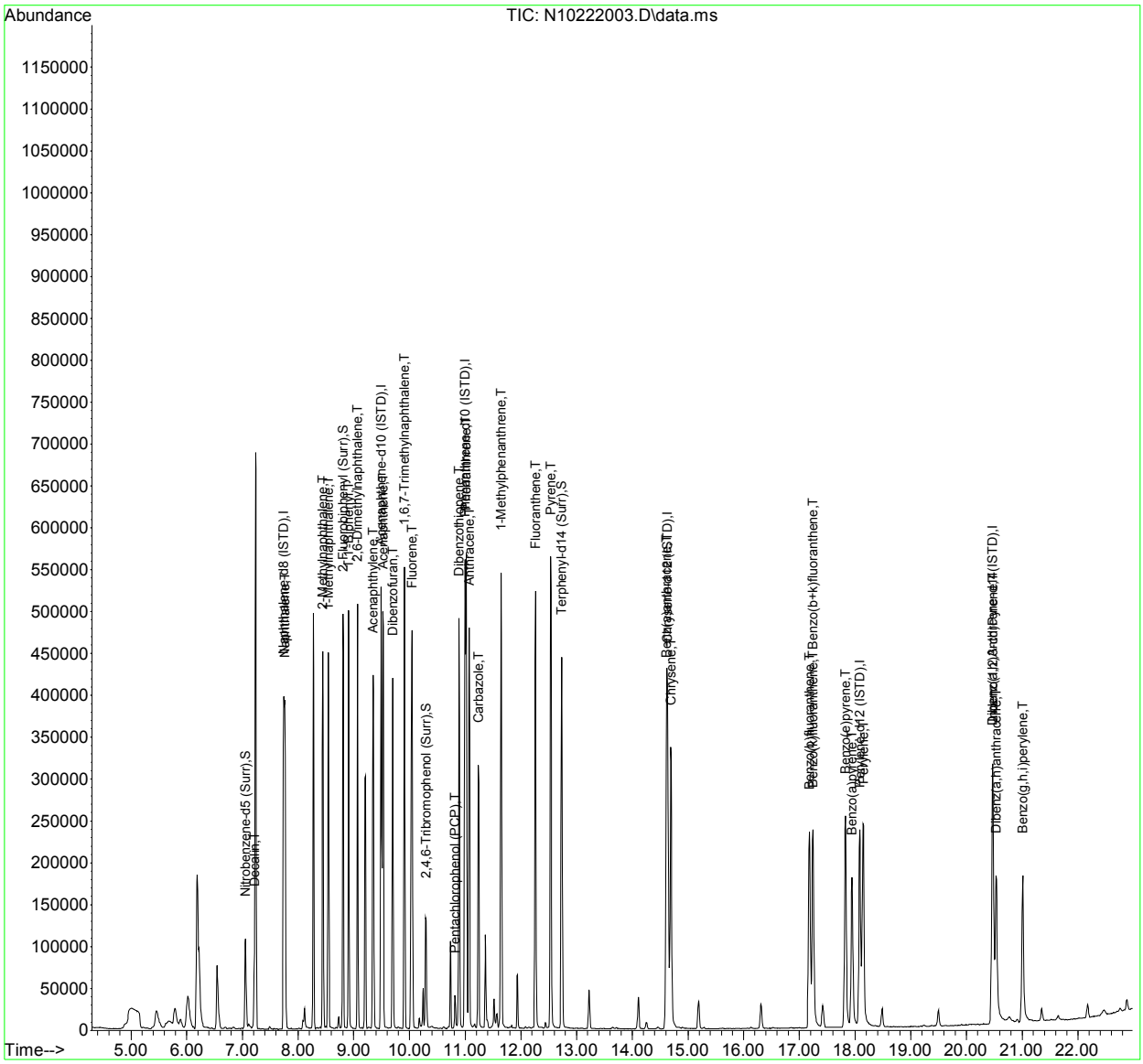
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	219411	97.90	ng/ml	91
32) Benzo(k)fluoranthene	17.244	252	221701	104.85	ng/ml	90
33) Benzo(b+k)fluoranthene	17.244	252	466888	204.68	ng/ml	90
34) Benzo(e)pyrene	17.827	252	230782	103.54	ng/ml	97
35) Benzo(a)pyrene	17.943	252	164996	101.54	ng/ml	95
36) Perylene	18.147	252	244490	101.33	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.473	276	164689	93.55	ng/ml	75
39) Dibenz(a,h)anthracene	20.531	278	164126	94.82	ng/ml	79
40) Benzo(g,h,i)perylene	21.009	276	178021	99.46	ng/ml	74

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222003.D
Acq On : 22 Oct 2020 04:05 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-CCV1
Misc : 1x, A20J299@100
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:34:04 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed) HML 10/23/20

Data Path : U:\data\2020-10\0J22053\
Data File : N10222004.D
Acq On : 22 Oct 2020 04:37 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:34:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	242049	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	152210	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	281216	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	206900	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	185109	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	158429	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.114	82	83	0.12	ng/ml	0.06
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
17) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
27) Terphenyl-d14 (Surr)	12.733	244	71	0.04	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.767	128	161	N.D.		
5) 2-Methylnaphthalene	8.443	142	55	N.D.		
6) 1-Methylnaphthalene	0.000		0	N.D.		
7) 1,1'-Biphenyl	8.909	154	51	N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
11) Acenaphthylene	9.352	152	79	N.D.		
12) Acenaphthene	0.000		0	N.D.		
13) Dibenzofuran	9.702	168	55	N.D.		
14) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
15) Fluorene	0.000		0	N.D.		
18) Pentachlorophenol (PCP)	10.821	266	176	10.20	ng/ml	88
19) Dibenzothiopene	10.891	184	133	N.D.		
20) Phenanthrene	11.019	178	321	N.D.		
21) Anthracene	11.071	178	162	N.D.		
22) Carbazole	11.240	167	256	N.D.		
23) 1-Methylphenanthrene	0.000		0	N.D.		
24) Fluoranthene	12.266	202	88	N.D.		
26) Pyrene	12.540	202	101	N.D.		
28) Benz(a)anthracene	14.633	228	576	N.D.		
29) Chrysene	14.685	228	139	N.D.		

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222004.D
Acq On : 22 Oct 2020 04:37 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:34:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

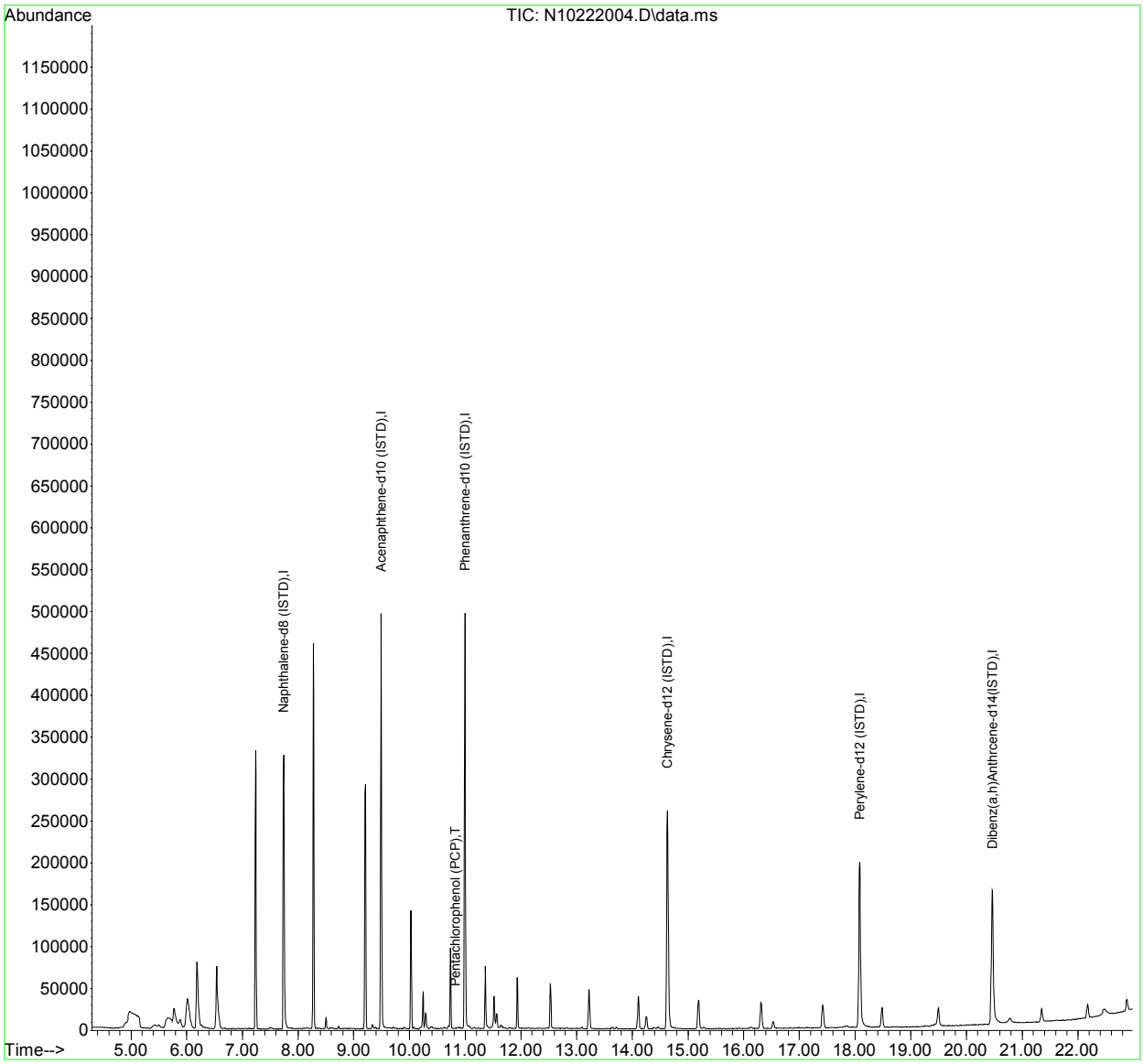
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	75	N.D.		
32) Benzo(k)fluoranthene	17.180	252	75	N.D.		
33) Benzo(b+k)fluoranthene	17.180	252	75	N.D.		
34) Benzo(e)pyrene	17.827	252	82	N.D.		
35) Benzo(a)pyrene	17.943	252	63	N.D.		
36) Perylene	18.142	252	61	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.467	276	222	N.D.		
39) Dibenz(a,h)anthracene	20.531	278	120	N.D.		
40) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222004.D
Acq On : 22 Oct 2020 04:37 pm
Operator : JK/ AMS/ DTH
Sample : 0J22053-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:34:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed) HML 10/23/20

Data Path : U:\data\2020-10\0J22053\
Data File : N10222005.D
Acq On : 22 Oct 2020 05:09 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-BLK1
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:36:01 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	249163	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	159162	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	313430	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	282228	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	268366	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	230260	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	59030	84.57	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	207607	91.23	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	40542	102.51	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	293359	108.11	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	1672	0.65	ng/ml	95
5) 2-Methylnaphthalene	8.443	142	471	N.D.		
6) 1-Methylnaphthalene	8.542	142	272	N.D.		
7) 1,1'-Biphenyl	8.909	154	840	N.D.		
8) 2,6-Dimethylnaphthalene	9.072	156	319	N.D.		
11) Acenaphthylene	9.346	152	516	N.D.		
12) Acenaphthene	9.521	153	447	N.D.		
13) Dibenzofuran	9.702	168	277	N.D.		
14) 1,6,7-Trimethylnaphtha...	9.912	170	212	N.D.		
15) Fluorene	10.046	166	336	N.D.		
18) Pentachlorophenol (PCP)	10.827	266	569	12.60	ng/ml	89
19) Dibenzothiopene	10.891	184	433	N.D.		
20) Phenanthrene	11.019	178	3646	1.07	ng/ml	97
21) Anthracene	11.072	178	676	N.D.		
22) Carbazole	11.241	167	351	N.D.		
23) 1-Methylphenanthrene	11.637	192	463	N.D.		
24) Fluoranthene	12.261	202	2572	0.73	ng/ml	96
26) Pyrene	12.540	202	2998	0.79	ng/ml	97
28) Benz(a)anthracene	14.615	228	1845	0.65	ng/ml	92
29) Chrysene	14.691	228	1993	0.68	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222005.D
Acq On : 22 Oct 2020 05:09 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-BLK1
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:36:01 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

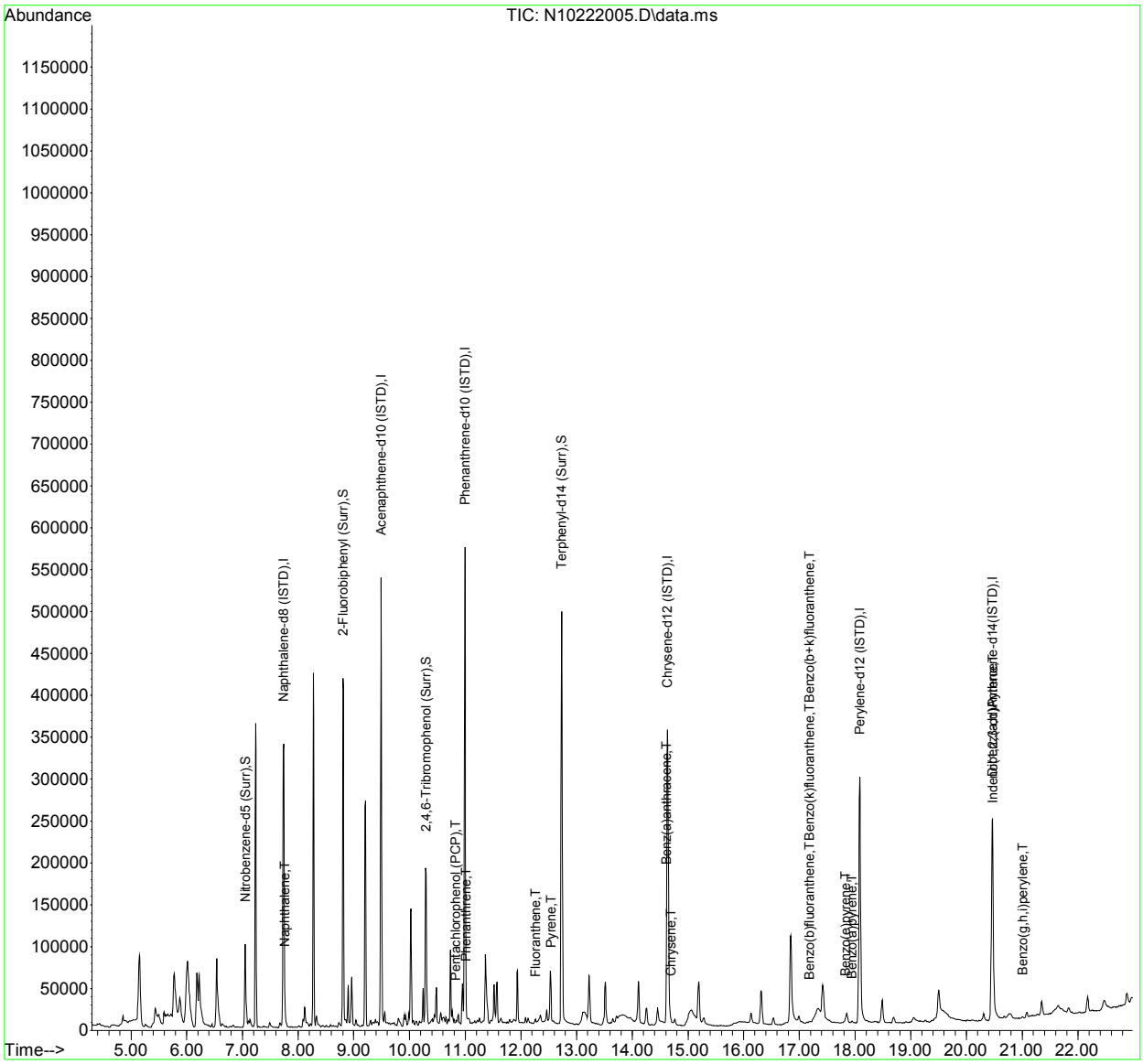
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	2706	0.99	ng/ml	89
32) Benzo(k)fluoranthene	17.180	252	3646	1.42	ng/ml	87
33) Benzo(b+k)fluoranthene	17.180	252	3930	1.42	ng/ml	87
34) Benzo(e)pyrene	17.827	252	1866	0.69	ng/ml	87
35) Benzo(a)pyrene	17.943	252	2060	1.04	ng/ml	96
36) Perylene	18.147	252	997	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.473	276	2558	1.03	ng/ml	96
39) Dibenz(a,h)anthracene	20.526	278	480	N.D.		
40) Benzo(g,h,i)perylene	21.009	276	2381	0.94	ng/ml	84

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222005.D
Acq On : 22 Oct 2020 05:09 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-BLK1
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:36:01 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed) HML 10/23/20

Data Path : U:\data\2020-10\0J22053\
Data File : N10222006.D
Acq On : 22 Oct 2020 05:41 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-BS1
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:37:05 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.737	136	250949	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	165335	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	326376	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	292477	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	266297	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.461	292	216323	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.044	82	60931	86.67	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	222433	94.09	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.290	330	42156	102.37	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.727	244	297841	105.92	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.213	138	4585	30.78	ng/ml	79
4) Naphthalene	7.761	128	96488	37.29	ng/ml	100
5) 2-Methylnaphthalene	8.443	142	75402	40.30	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	71694	38.29	ng/ml	97
7) 1,1'-Biphenyl	8.903	154	95695	40.19	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.066	156	70754	40.54	ng/ml	97
11) Acenaphthylene	9.346	152	113661	41.02	ng/ml	98
12) Acenaphthene	9.521	153	80308	39.66	ng/ml	99
13) Dibenzofuran	9.696	168	108111	42.46	ng/ml	93
14) 1,6,7-Trimethylnaphtha...	9.906	170	69180	37.68	ng/ml	99
15) Fluorene	10.040	166	88292	42.83	ng/ml	100
18) Pentachlorophenol (PCP)	10.815	266	17613	101.78	ng/ml	99
19) Dibenzothiopene	10.891	184	119806	37.80	ng/ml	93
20) Phenanthrene	11.019	178	136015	38.51	ng/ml	99
21) Anthracene	11.071	178	123593	42.72	ng/ml	99
22) Carbazole	11.235	167	93001	43.24	ng/ml	99
23) 1-Methylphenanthrene	11.643	192	97938	38.56	ng/ml	98
24) Fluoranthene	12.260	202	148427	40.51	ng/ml	94
26) Pyrene	12.534	202	151484	38.68	ng/ml	99
28) Benz(a)anthracene	14.609	228	113989	38.98	ng/ml	99
29) Chrysene	14.691	228	118851	39.34	ng/ml	100

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222006.D
Acq On : 22 Oct 2020 05:41 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-BS1
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:37:05 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

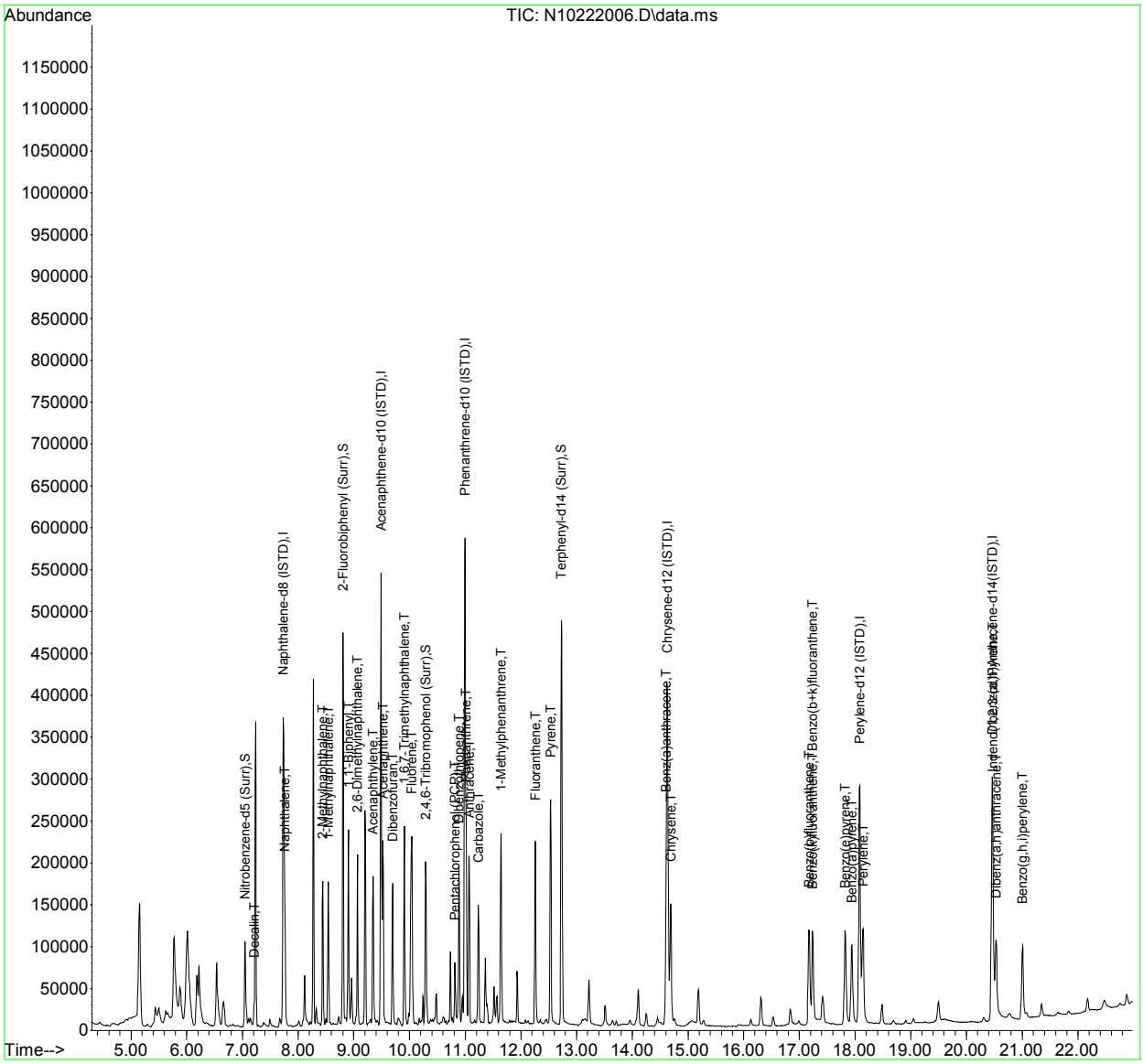
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.174	252	108576	40.21	ng/ml	92
32) Benzo(k)fluoranthene	17.238	252	100868	39.60	ng/ml	91
33) Benzo(b+k)fluoranthene	17.238	252	221199	80.49	ng/ml	91
34) Benzo(e)pyrene	17.821	252	102661	38.23	ng/ml	98
35) Benzo(a)pyrene	17.943	252	88956	45.44	ng/ml	95
36) Perylene	18.141	252	109193	37.56	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.473	276	80098	34.40	ng/ml	76
39) Dibenz(a,h)anthracene	20.531	278	83838	36.62	ng/ml	78
40) Benzo(g,h,i)perylene	21.003	276	88686	37.47	ng/ml	76

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222006.D
Acq On : 22 Oct 2020 05:41 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-BS1
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 5 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:37:05 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed) HML 10/23/20

M05

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:51:00 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	252371	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	164397	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	325875	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	312942	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	308858	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	256337	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	516	0.73	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.810	172	1581	0.67	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	380	2.85	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	2572	0.85	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	13340	5.13	ng/ml	94
5) 2-Methylnaphthalene	8.443	142	3215	1.71	ng/ml	98
6) 1-Methylnaphthalene	8.542	142	1575	0.84	ng/ml	94
7) 1,1'-Biphenyl	8.909	154	1283	0.54	ng/ml	86
8) 2,6-Dimethylnaphthalene	9.072	156	1725	0.98	ng/ml	96
11) Acenaphthylene	9.346	152	4248	1.54	ng/ml	92
12) Acenaphthene	9.521	153	3173	1.58	ng/ml	95
13) Dibenzofuran	9.696	168	1019	0.40	ng/ml#	81
14) 1,6,7-Trimethylnaphtha...	9.906	170	802	0.44	ng/ml	91
15) Fluorene	10.046	166	3190	1.56	ng/ml	96
18) Pentachlorophenol (PCP)	10.827	266	214	10.26	ng/ml	88
19) Dibenzothiopene	10.891	184	3883	1.23	ng/ml	95
20) Phenanthrene	11.019	178	32438	9.20	ng/ml	9[illegible]
21) Anthracene	11.071	178	9187	3.18	ng/ml	97
22) Carbazole	11.240	167	1819	0.85	ng/ml	96
23) 1-Methylphenanthrene	11.643	192	2752	1.09	ng/ml	98
24) Fluoranthene	12.260	202	64665	17.67	ng/ml	9[illegible]
26) Pyrene	12.534	202	87119	20.79	ng/ml	9[illegible]
28) Benz(a)anthracene	14.609	228	39465	12.61	ng/ml#	5[illegible]
29) Chrysene	14.691	228	51127	15.82	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:51:00 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

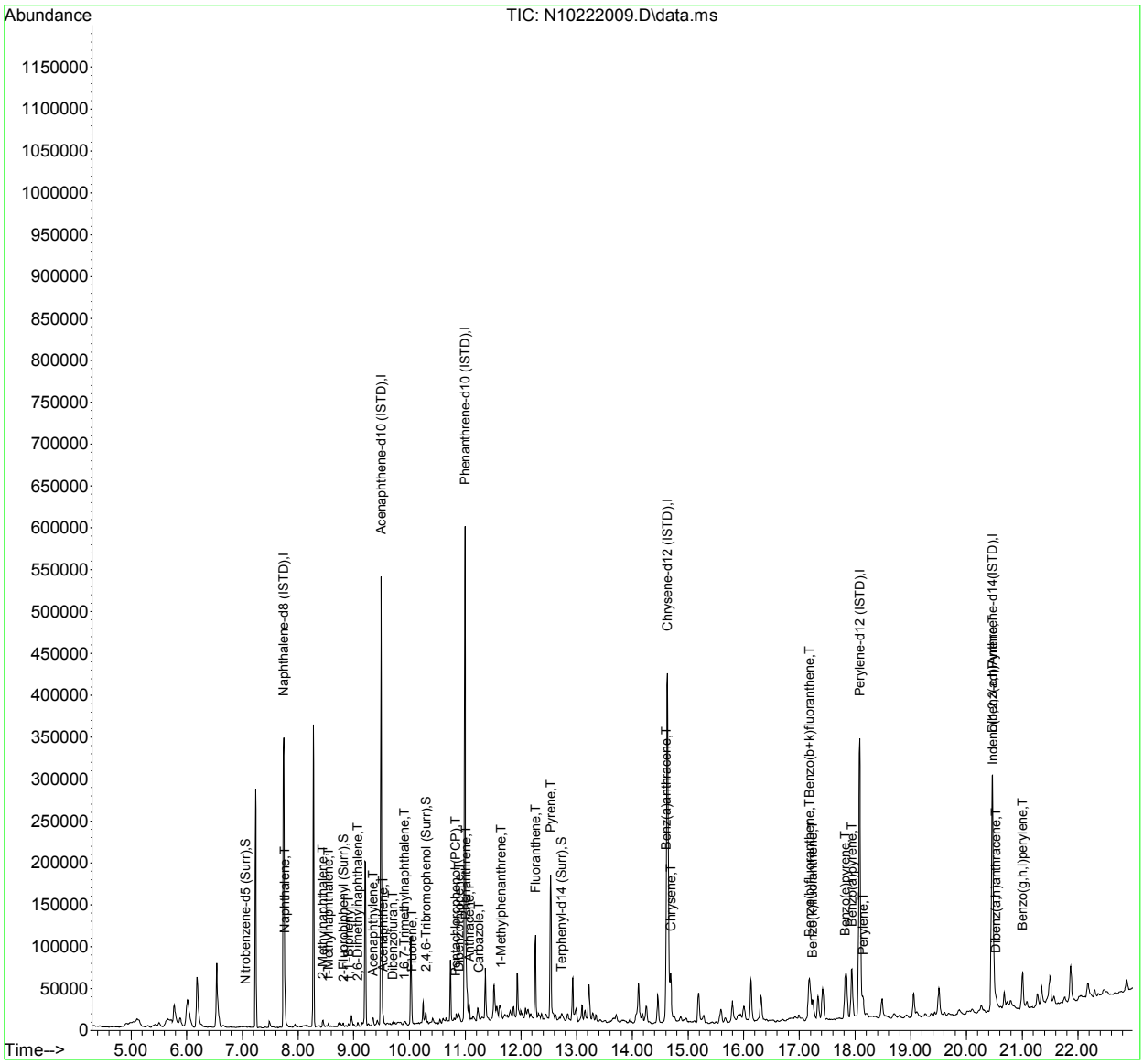
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31)	Benzo(b)fluoranthene	17.180	252	57646	18.41	ng/ml	91
32)	Benzo(k)fluoranthene	17.238	252	19239m	6.51	ng/ml	
33)	Benzo(b+k)fluoranthene	17.180	252	82325	25.83	ng/ml	89
34)	Benzo(e)pyrene	17.821	252	39682	12.74	ng/ml	95
35)	Benzo(a)pyrene	17.943	252	51734	22.78	ng/ml	96
36)	Perylene	18.141	252	17291	5.13	ng/ml	99
38)	Indeno(1,2,3-cd)Pyrene	20.473	276	36209	13.12	ng/ml	78
39)	Dibenz(a,h)anthracene	20.525	278	4860	1.79	ng/ml	93
40)	Benzo(g,h,i)perylene	21.003	276	44503	15.87	ng/ml	78

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

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:51:00 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	252371	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	164397	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	325875	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	312942	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	308858	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	256337	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	516	0.73	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.810	172	1581	0.67	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	380	2.85	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	2572	0.85	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	13340	5.13	ng/ml	94
5) 2-Methylnaphthalene	8.443	142	3215	1.71	ng/ml	98
6) 1-Methylnaphthalene	8.542	142	1575	0.84	ng/ml	94
7) 1,1'-Biphenyl	8.909	154	1283	0.54	ng/ml	86
8) 2,6-Dimethylnaphthalene	9.072	156	1725	0.98	ng/ml	96
11) Acenaphthylene	9.346	152	4248	1.54	ng/ml	92
12) Acenaphthene	9.521	153	3173	1.58	ng/ml	95
13) Dibenzofuran	9.696	168	1019	0.40	ng/ml#	81
14) 1,6,7-Trimethylnaphtha...	9.906	170	802	0.44	ng/ml	91
15) Fluorene	10.046	166	3190	1.56	ng/ml	96
18) Pentachlorophenol (PCP)	10.827	266	214	10.26	ng/ml	88
19) Dibenzothiopene	10.891	184	3883	1.23	ng/ml	95
20) Phenanthrene	11.019	178	32438	9.20	ng/ml	99
21) Anthracene	11.071	178	9187	3.18	ng/ml	97
22) Carbazole	11.240	167	1819	0.85	ng/ml	96
23) 1-Methylphenanthrene	11.643	192	2752	1.09	ng/ml	98
24) Fluoranthene	12.260	202	64665	17.67	ng/ml	95
26) Pyrene	12.534	202	87119	20.79	ng/ml	99
28) Benz(a)anthracene	14.609	228	39465	12.61	ng/ml#	59
29) Chrysene	14.691	228	51127	15.82	ng/ml	98

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

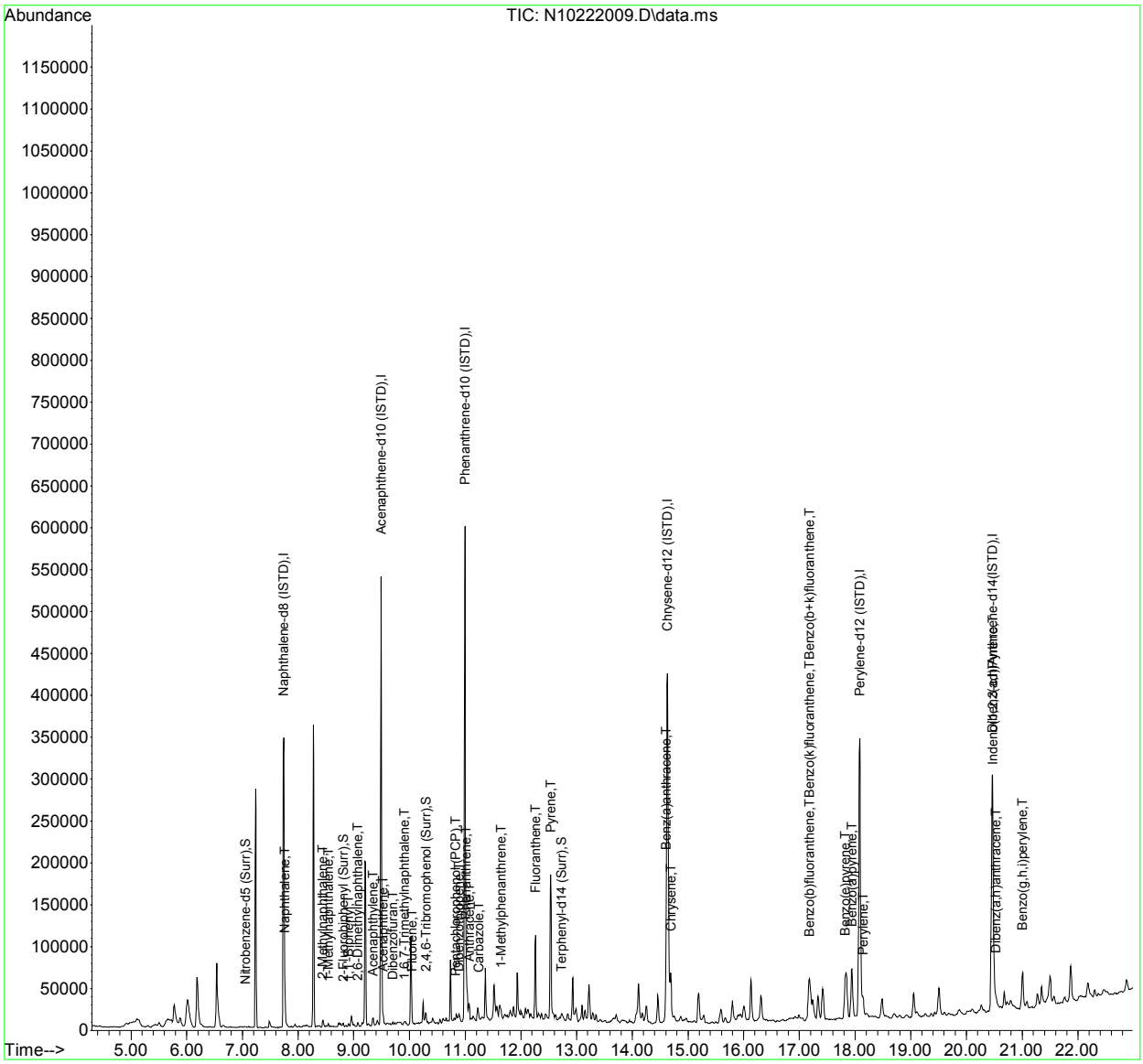
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	57646	18.41	ng/ml	91
32) Benzo(k)fluoranthene	17.180	252	72028	24.38	ng/ml	89
33) Benzo(b+k)fluoranthene	17.180	252	82325	25.83	ng/ml	89
34) Benzo(e)pyrene	17.821	252	39682	12.74	ng/ml	95
35) Benzo(a)pyrene	17.943	252	51734	22.78	ng/ml	96
36) Perylene	18.141	252	17291	5.13	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.473	276	36209	13.12	ng/ml	78
39) Dibenz(a,h)anthracene	20.525	278	4860	1.79	ng/ml	93
40) Benzo(g,h,i)perylene	21.003	276	44503	15.87	ng/ml	78

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

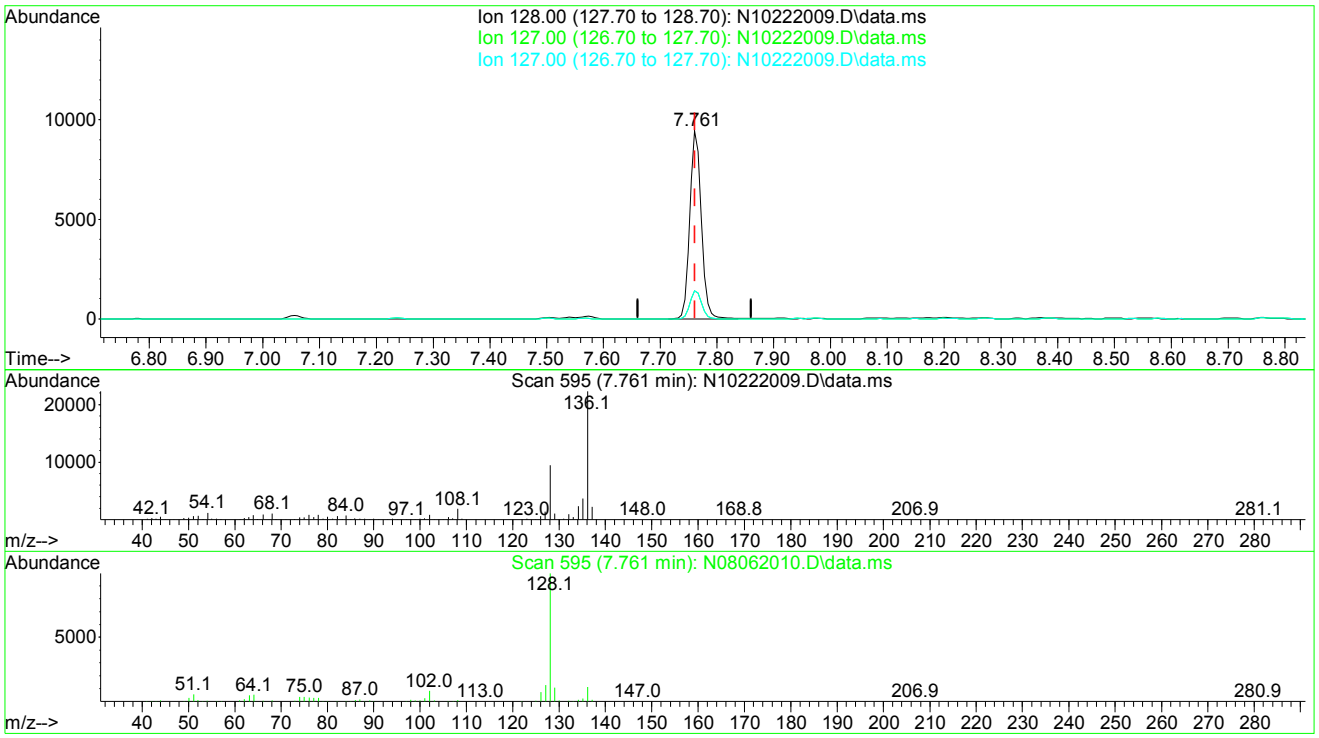
Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222009.D\data.ms

(4) Naphthalene (T)

7.761min (0.000) 5.13 ng/ml

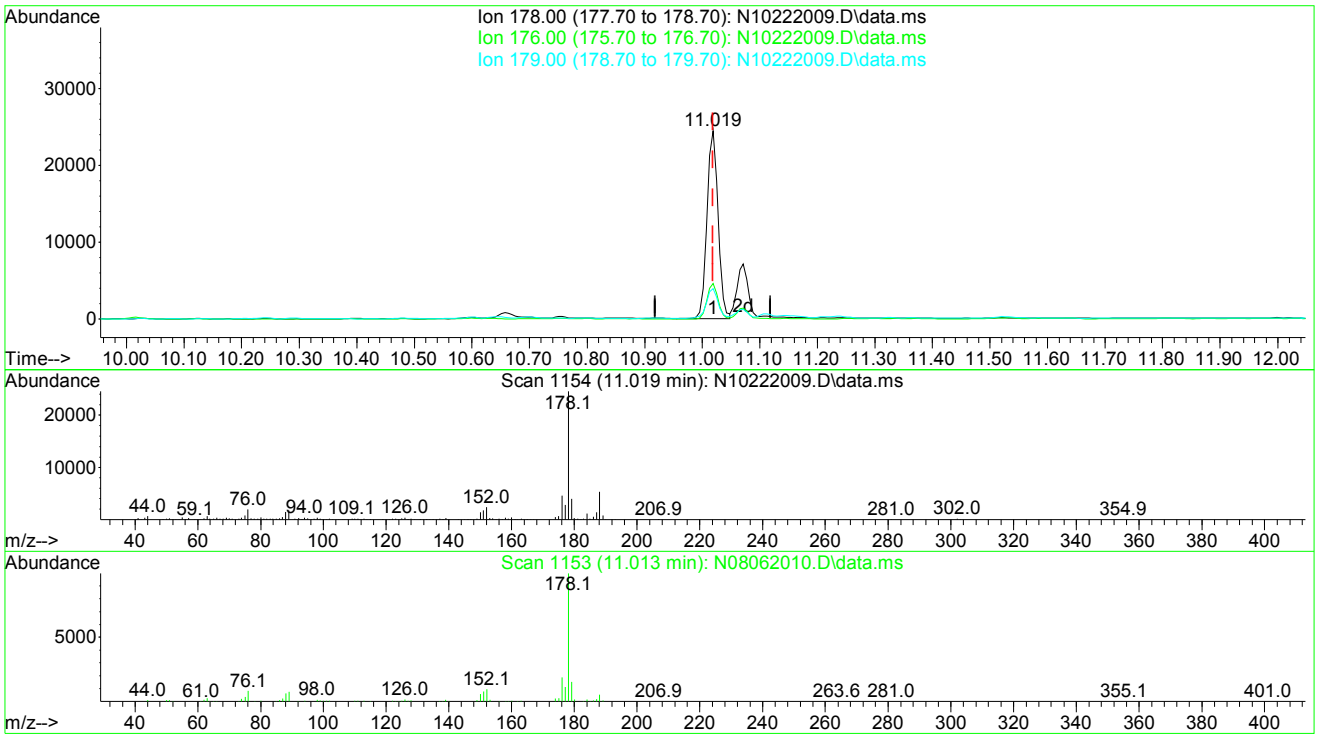
response 13340

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	14.94
127.00	12.60	14.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222009.D\data.ms

(20) Phenanthrene (T)

11.019min (0.000) 9.20 ng/ml

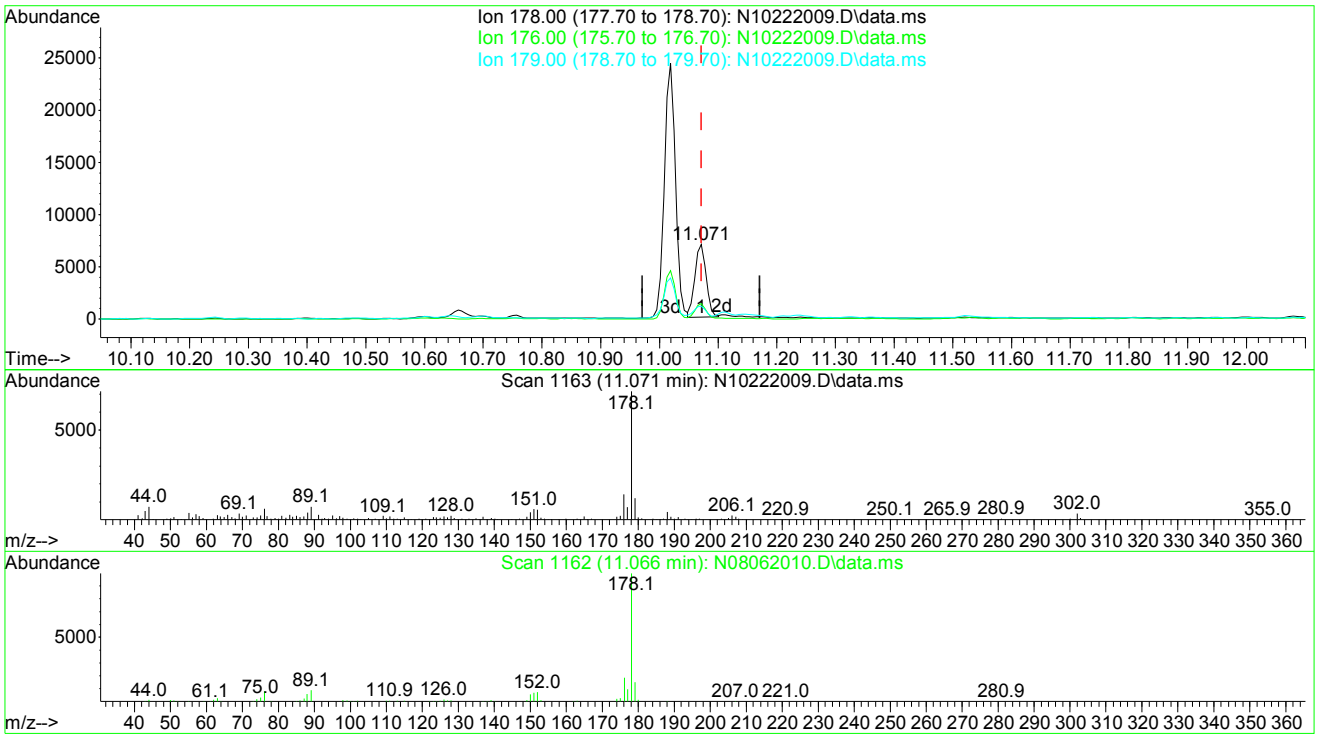
response 32438

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.80
179.00	15.10	16.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222009.D\data.ms

(21) Anthracene (T)

11.071min (0.000) 3.18 ng/ml

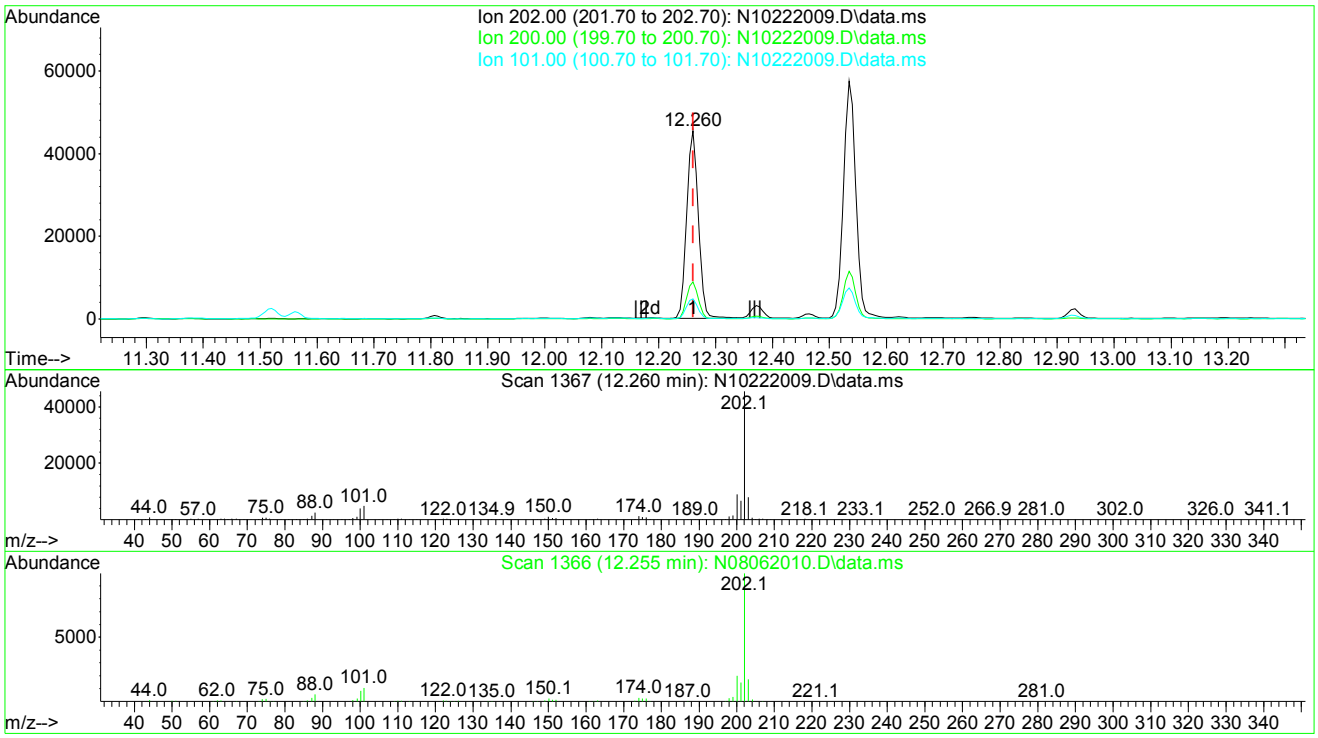
response 9187

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	19.99
179.00	15.30	17.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222009.D\data.ms

(24) Fluoranthene (T)

12.260min (0.000) 17.67 ng/ml

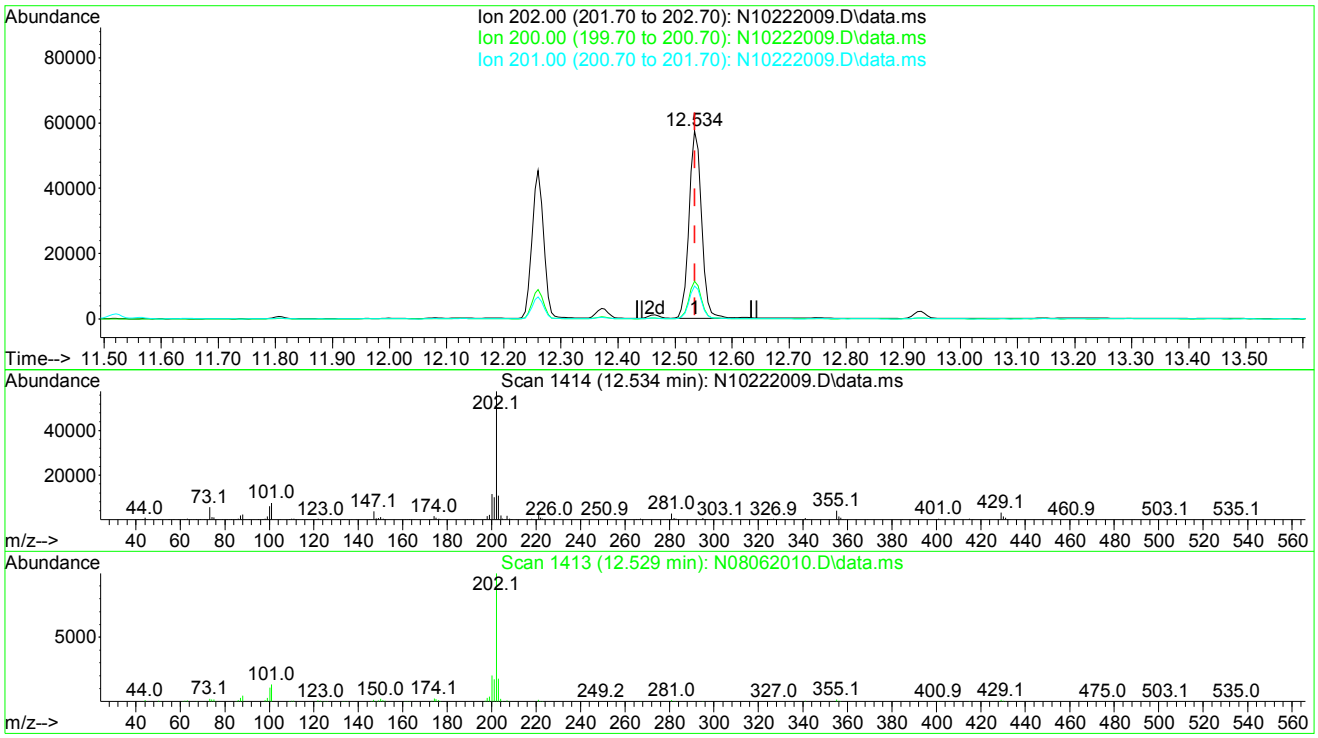
response 64665

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.69
101.00	15.30	10.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222009.D\data.ms

(26) Pyrene (T)

12.534min (0.000) 20.79 ng/ml

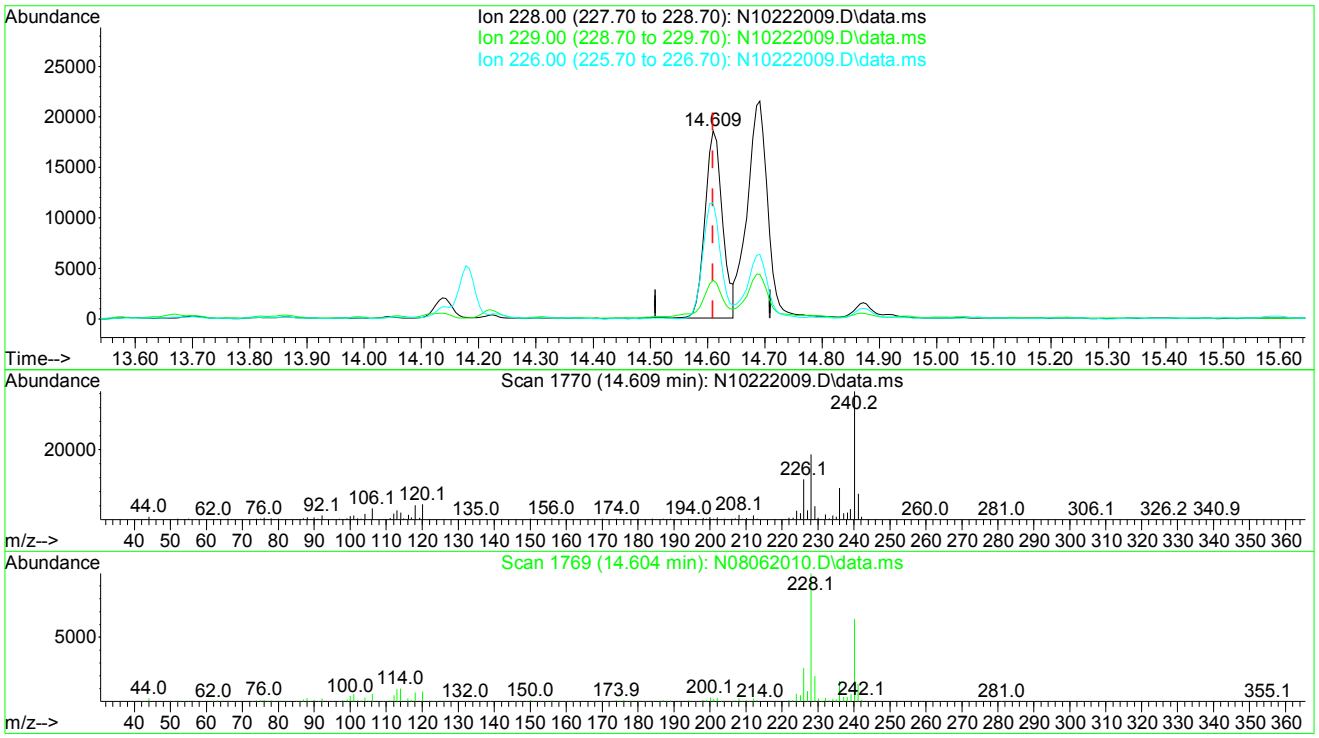
response 87119

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.00
201.00	16.80	17.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222009.D\data.ms

(28) Benz(a)anthracene (T)

14.609min (0.000) 12.61 ng/ml

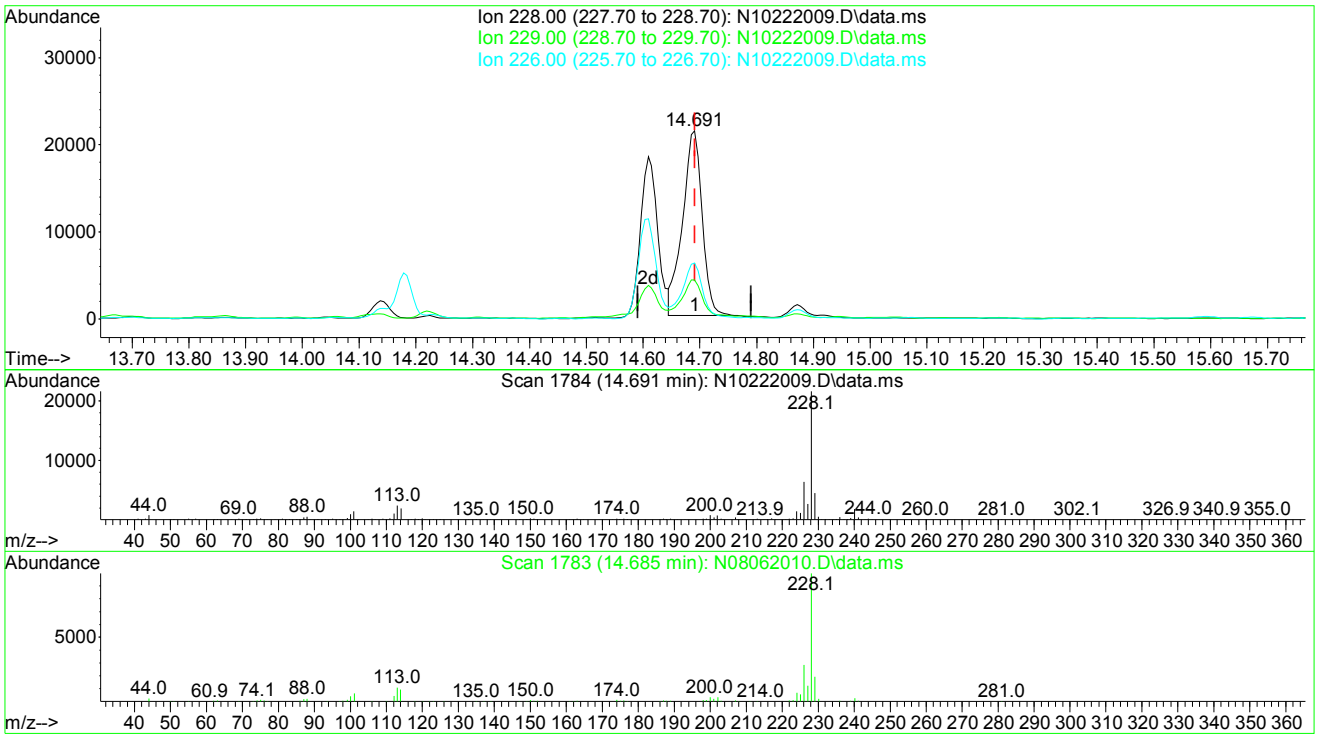
response 39465

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.54
226.00	26.20	61.69#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222009.D\data.ms

(29) Chrysene (T)

14.691min (0.000) 15.82 ng/ml

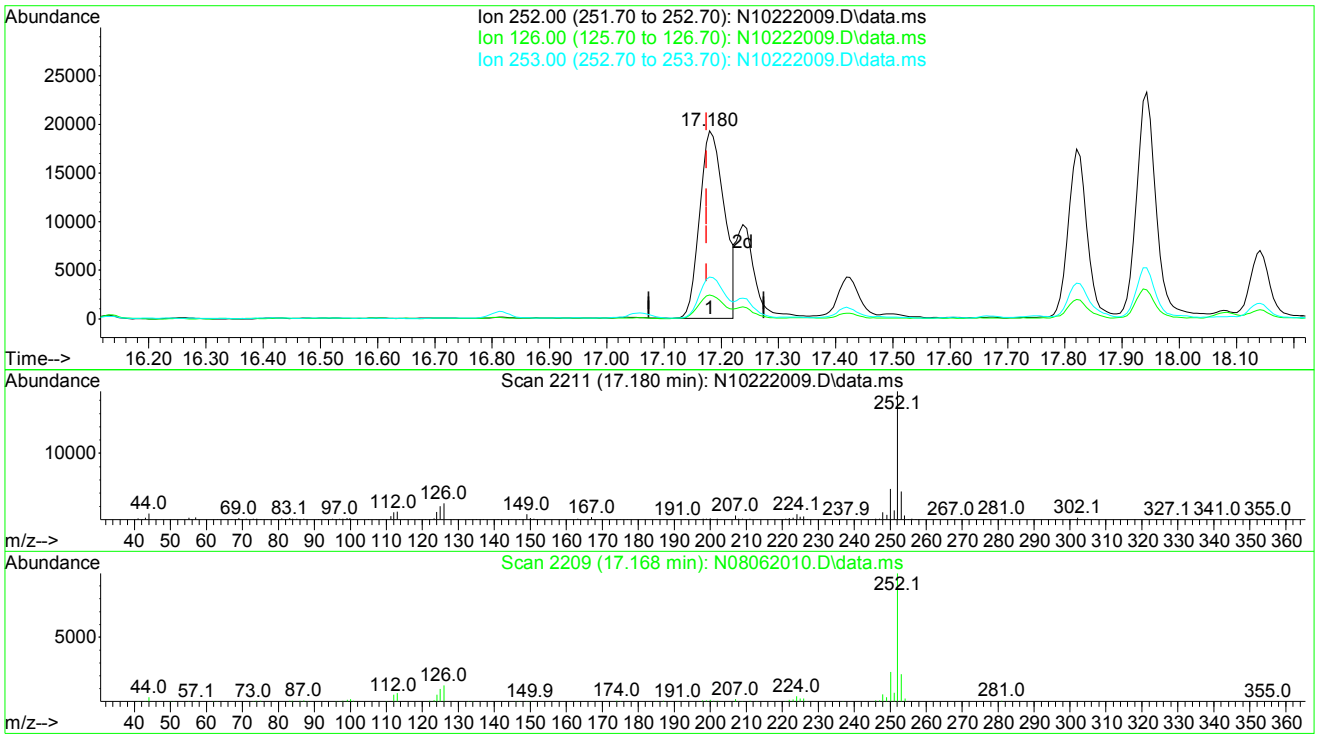
response 51127

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.55
226.00	28.60	29.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222009.D\data.ms

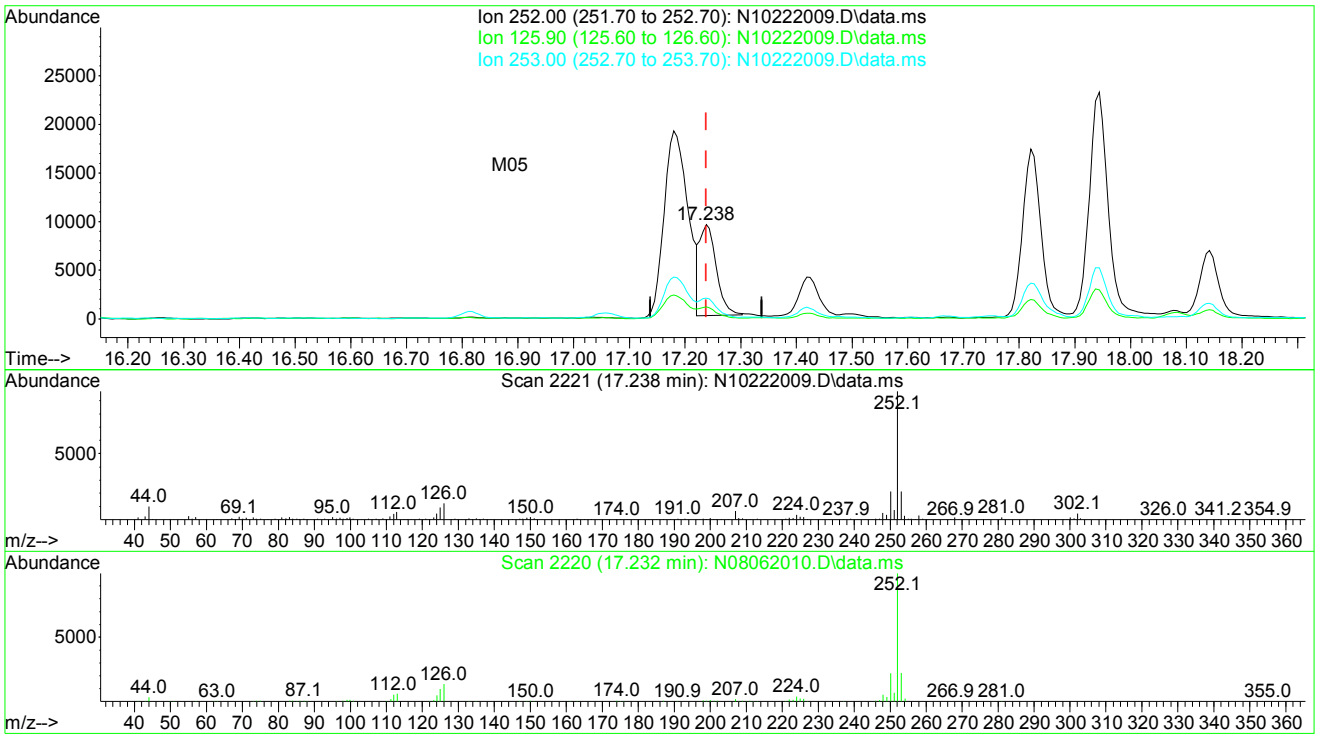
(31) Benzo(b)fluoranthene (T)
17.180min (+ 0.006) 18.41 ng/ml
response 57646

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	12.67
253.00	21.10	22.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222009.D\data.ms

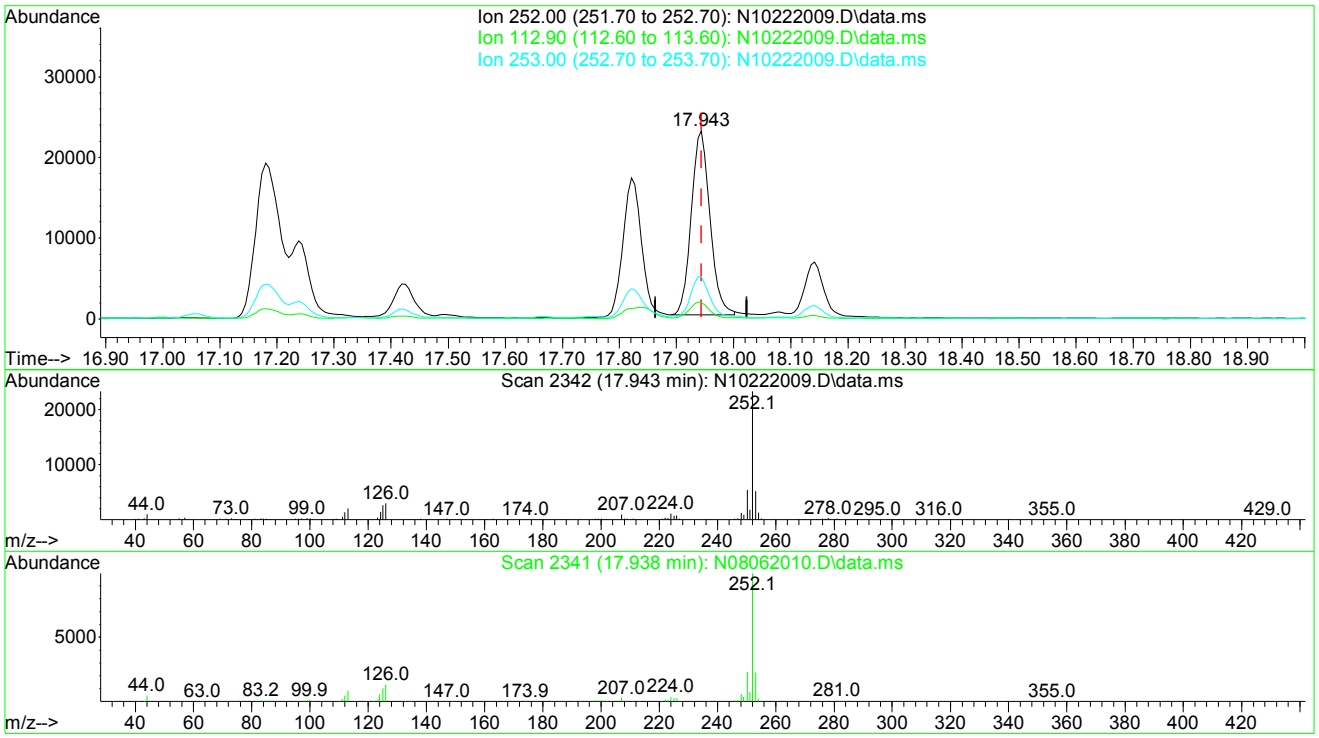
(32) Benzo(k)fluoranthene (T)
17.238min (0.000) 6.51 ng/ml m
response 19239

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	12.94
253.00	21.50	22.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222009.D\data.ms

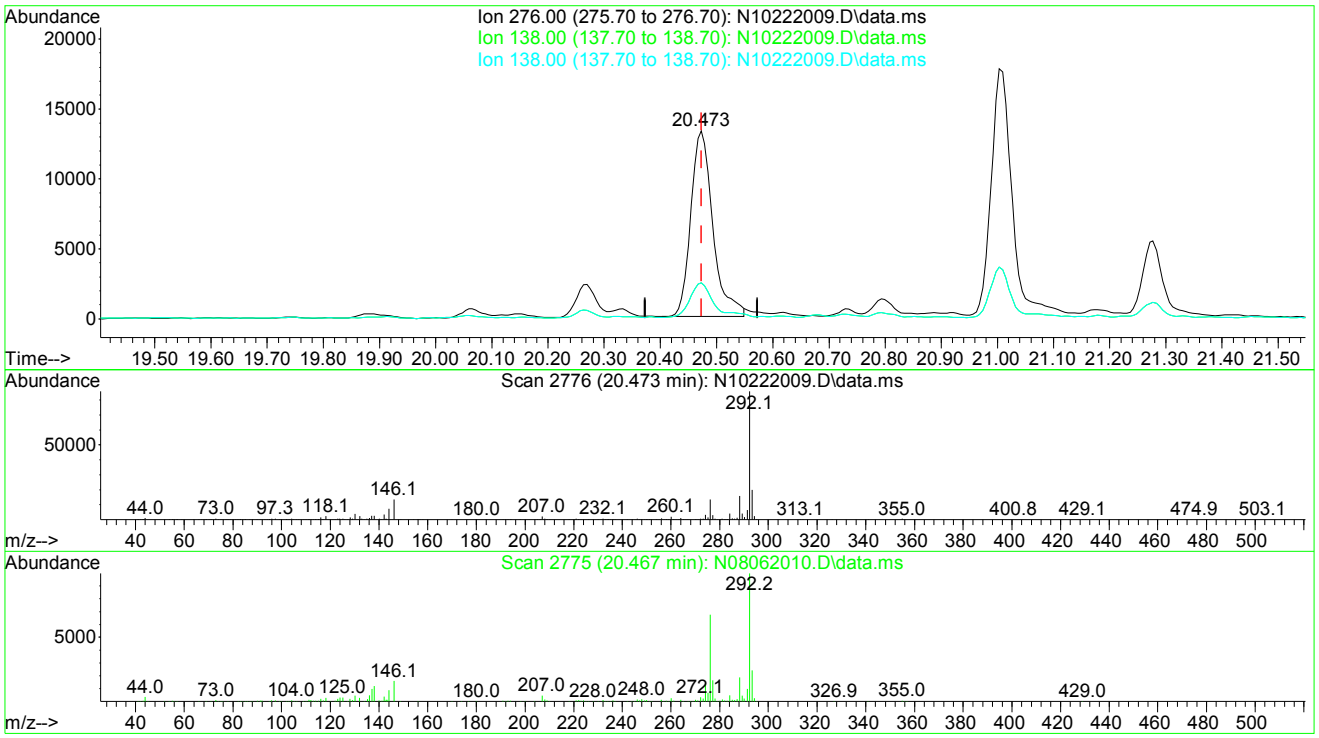
(35) Benzo(a)pyrene (T)
17.943min (0.000) 22.78 ng/ml
response 51734

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	8.76
253.00	21.90	22.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222009.D\data.ms

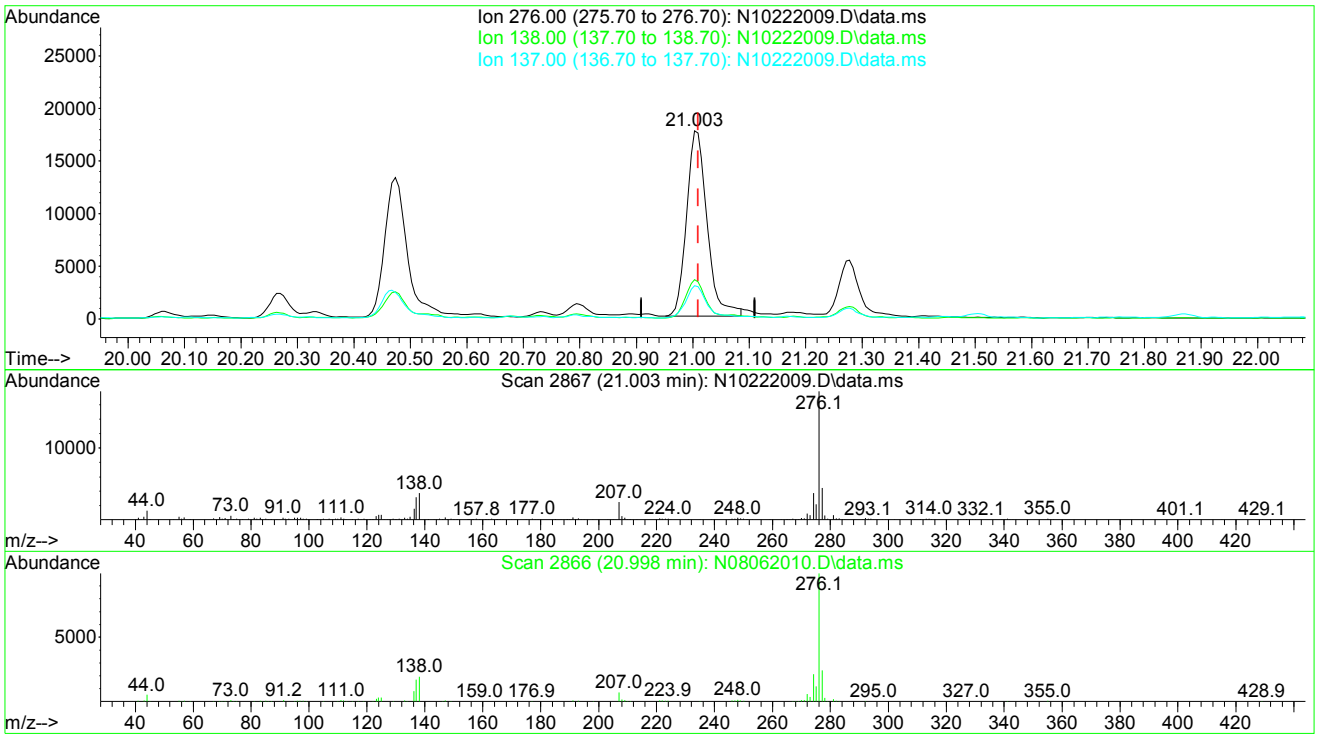
(38) Indeno(1,2,3-cd)Pyrene (T)
20.473min (0.000) 13.12 ng/ml
response 36209

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\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:46:43 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222009.D\data.ms

(40) Benzo(g,h,i)perylene (T)
21.003min (-0.006) 15.87 ng/ml
response 44503

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	20.71
137.00	28.60	17.61
0.00	0.00	0.00

Quantitation Report (QT Reviewed) HML 10/23/20

Data Path : U:\data\2020-10\0J22053\
Data File : N10222010.D
Acq On : 22 Oct 2020 07:50 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-MS1@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:53:53 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.738	136	251515	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	163680	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	319187	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	310634	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	307981	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.461	292	258683	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	521	0.74	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	1736	0.74	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	389	2.89	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.727	244	2848	0.95	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	6037	2.33	ng/ml	98
5) 2-Methylnaphthalene	8.443	142	2160	1.15	ng/ml	98
6) 1-Methylnaphthalene	8.542	142	1556	0.83	ng/ml	93
7) 1,1'-Biphenyl	8.909	154	1362	0.57	ng/ml	90
8) 2,6-Dimethylnaphthalene	9.066	156	2185	1.25	ng/ml	98
11) Acenaphthylene	9.346	152	4304	1.57	ng/ml	95
12) Acenaphthene	9.521	153	3726	1.86	ng/ml	98
13) Dibenzofuran	9.696	168	1695	0.67	ng/ml	89
14) 1,6,7-Trimethylnaphtha...	9.906	170	1718	0.95	ng/ml	92
15) Fluorene	10.046	166	3966	1.94	ng/ml	94
18) Pentachlorophenol (PCP)	10.821	266	334	11.05	ng/ml	81
19) Dibenzothiopene	10.891	184	5334	1.72	ng/ml	97
20) Phenanthrene	11.019	178	37403	10.83	ng/ml	99
21) Anthracene	11.066	178	10566	3.73	ng/ml	97
22) Carbazole	11.235	167	2514	1.20	ng/ml	97
23) 1-Methylphenanthrene	11.643	192	5381	2.17	ng/ml	97
24) Fluoranthene	12.261	202	61092	17.05	ng/ml	95
26) Pyrene	12.534	202	79444	19.10	ng/ml	99
28) Benz(a)anthracene	14.609	228	27860	8.97	ng/ml	86
29) Chrysene	14.685	228	34394	10.72	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222010.D
Acq On : 22 Oct 2020 07:50 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-MS1@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:53:53 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

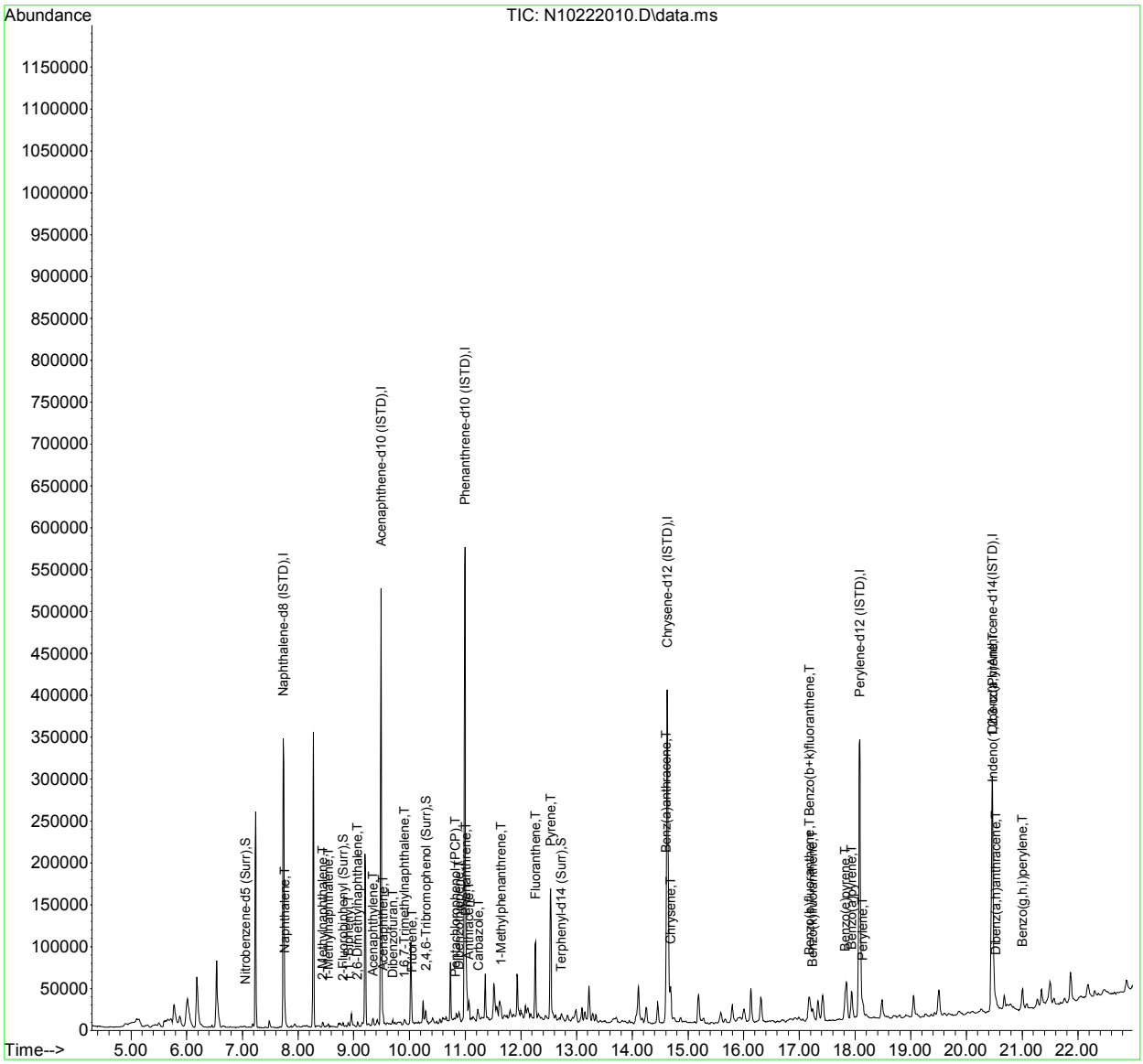
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	34564	11.07	ng/ml	91
32) Benzo(k)fluoranthene	17.238	252	11444m	3.88	ng/ml	
33) Benzo(b+k)fluoranthene	17.180	252	49415	15.55	ng/ml	89
34) Benzo(e)pyrene	17.821	252	22562	7.26	ng/ml	98
35) Benzo(a)pyrene	17.938	252	29377	12.97	ng/ml	94
36) Perylene	18.136	252	10825	3.22	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.473	276	20917	7.51	ng/ml	79
39) Dibenz(a,h)anthracene	20.526	278	3915	1.43	ng/ml	94
40) Benzo(g,h,i)perylene	21.003	276	25295	8.94	ng/ml	78

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

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222010.D
Acq On : 22 Oct 2020 07:50 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-MS1@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:53:53 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222010.D
Acq On : 22 Oct 2020 07:50 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-MS1@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:53:06 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.738	136	251515	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	163680	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	319187	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	310634	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	307981	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.461	292	258683	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	521	0.74	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	1736	0.74	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	389	2.89	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.727	244	2848	0.95	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	6037	2.33	ng/ml	98
5) 2-Methylnaphthalene	8.443	142	2160	1.15	ng/ml	98
6) 1-Methylnaphthalene	8.542	142	1556	0.83	ng/ml	93
7) 1,1'-Biphenyl	8.909	154	1362	0.57	ng/ml	90
8) 2,6-Dimethylnaphthalene	9.066	156	2185	1.25	ng/ml	98
11) Acenaphthylene	9.346	152	4304	1.57	ng/ml	95
12) Acenaphthene	9.521	153	3726	1.86	ng/ml	98
13) Dibenzofuran	9.696	168	1695	0.67	ng/ml	89
14) 1,6,7-Trimethylnaphtha...	9.906	170	1718	0.95	ng/ml	92
15) Fluorene	10.046	166	3966	1.94	ng/ml	94
18) Pentachlorophenol (PCP)	10.821	266	334	11.05	ng/ml	81
19) Dibenzothiopene	10.891	184	5334	1.72	ng/ml	97
20) Phenanthrene	11.019	178	37403	10.83	ng/ml	99
21) Anthracene	11.066	178	10566	3.73	ng/ml	97
22) Carbazole	11.235	167	2514	1.20	ng/ml	97
23) 1-Methylphenanthrene	11.643	192	5381	2.17	ng/ml	97
24) Fluoranthene	12.261	202	61092	17.05	ng/ml	95
26) Pyrene	12.534	202	79444	19.10	ng/ml	99
28) Benz(a)anthracene	14.609	228	27860	8.97	ng/ml	86
29) Chrysene	14.685	228	34394	10.72	ng/ml	98

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222010.D
Acq On : 22 Oct 2020 07:50 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-MS1@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:53:06 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

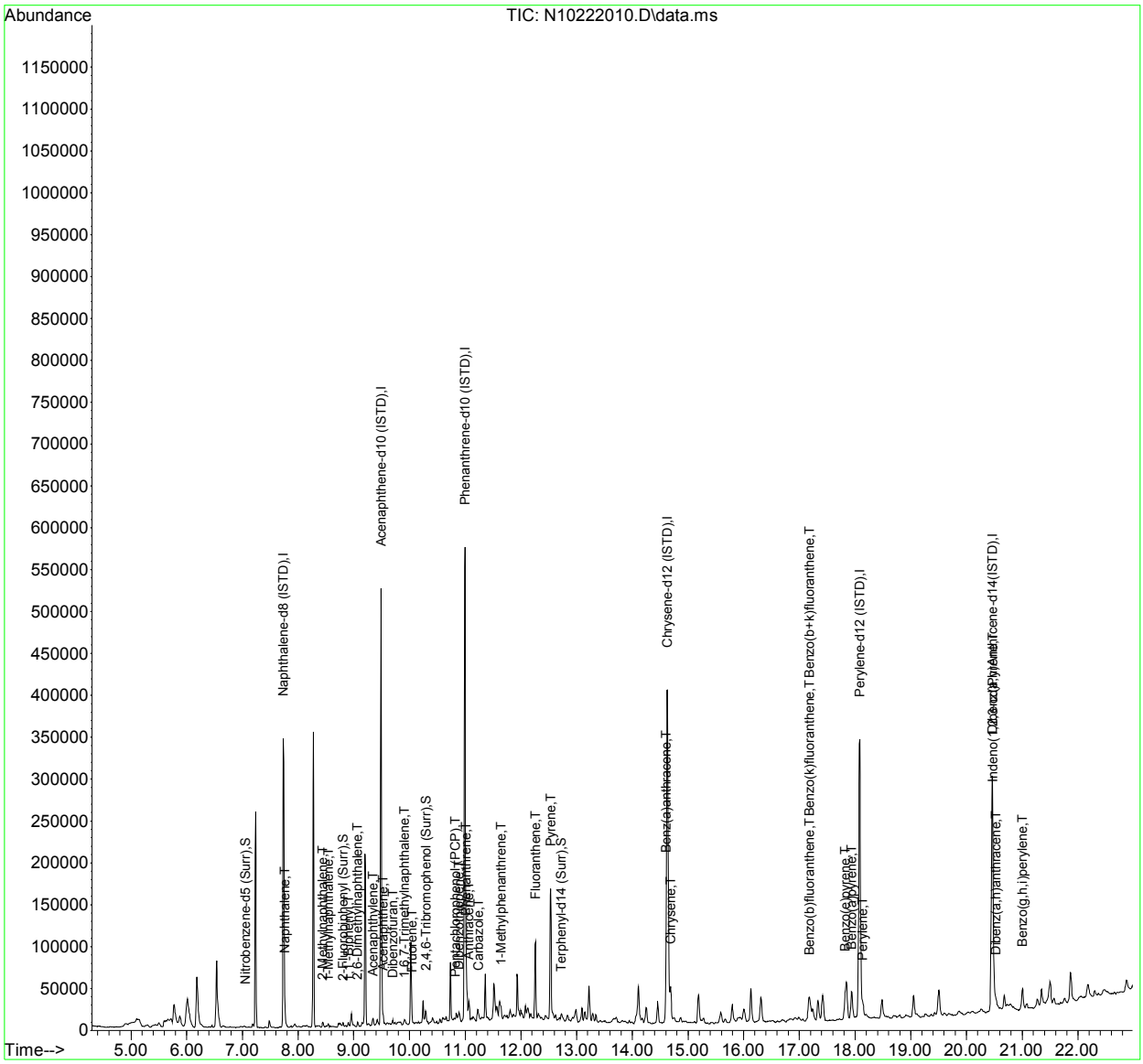
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	34564	11.07	ng/ml	91
32) Benzo(k)fluoranthene	17.180	252	42921	14.57	ng/ml	89
33) Benzo(b+k)fluoranthene	17.180	252	49415	15.55	ng/ml	89
34) Benzo(e)pyrene	17.821	252	22562	7.26	ng/ml	98
35) Benzo(a)pyrene	17.938	252	29377	12.97	ng/ml	94
36) Perylene	18.136	252	10825	3.22	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.473	276	20917	7.51	ng/ml	79
39) Dibenz(a,h)anthracene	20.526	278	3915	1.43	ng/ml	94
40) Benzo(g,h,i)perylene	21.003	276	25295	8.94	ng/ml	78

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222010.D
Acq On : 22 Oct 2020 07:50 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-MS1@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

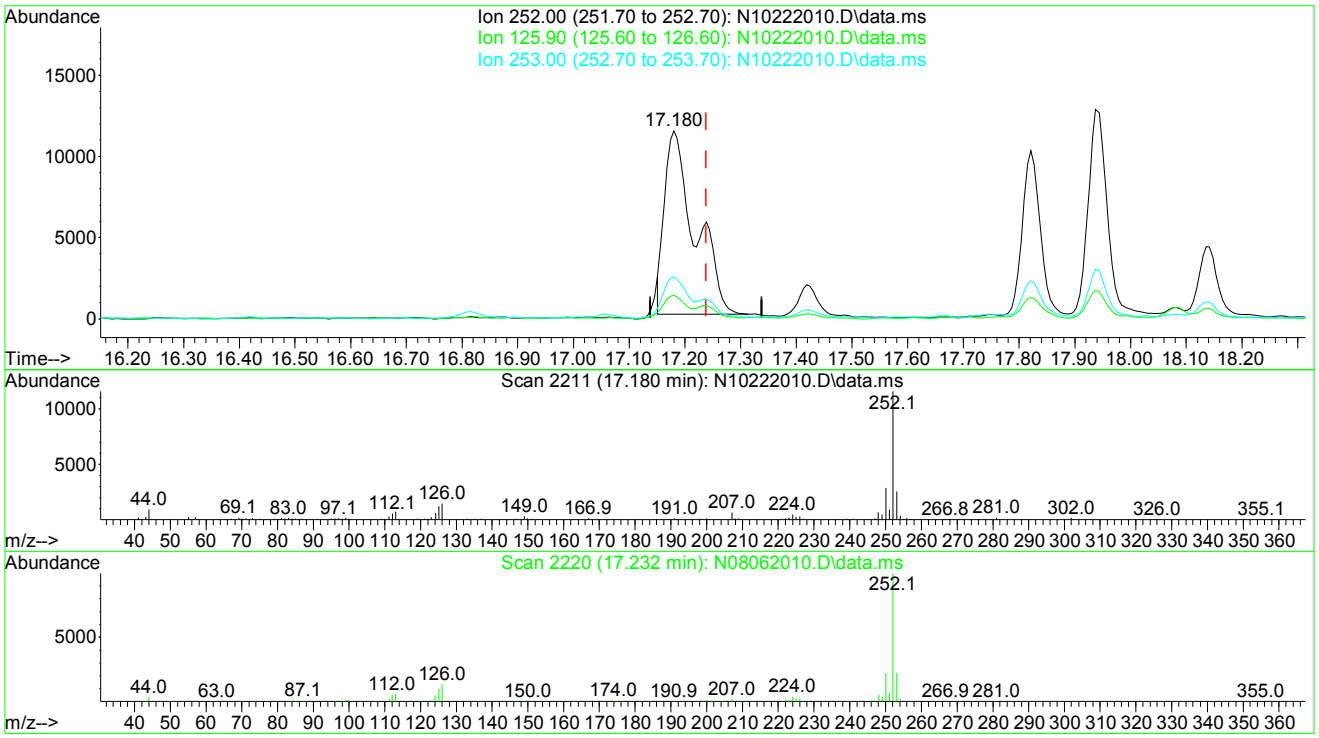
Quant Time: Oct 23 11:53:06 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222010.D
Acq On : 22 Oct 2020 07:50 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-MS1@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:53:06 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222010.D\data.ms

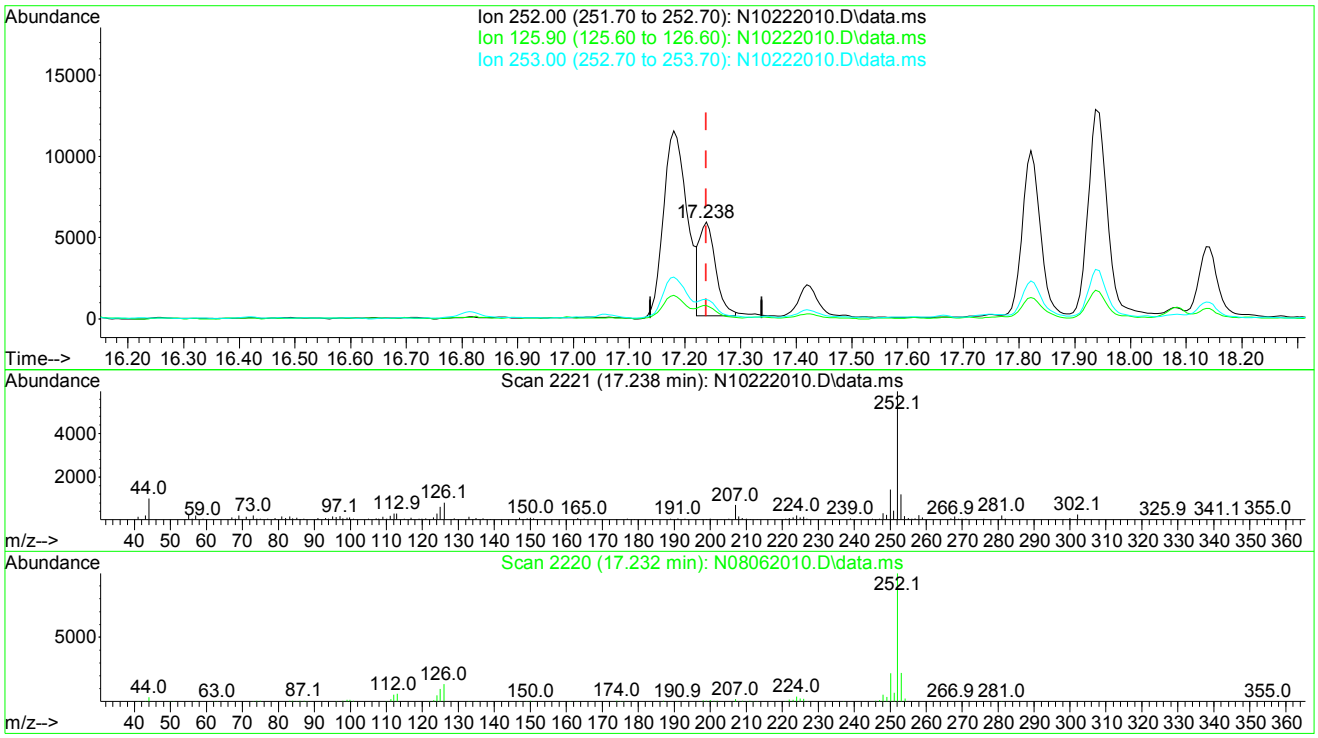
(32) Benzo(k)fluoranthene (T)
17.180min (-0.058) 14.57 ng/ml
response 42921

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	12.47
253.00	21.50	22.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222010.D
Acq On : 22 Oct 2020 07:50 pm
Operator : JK/ AMS/ DTH
Sample : 0100764-MS1@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:53:06 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222010.D\data.ms

(32) Benzo(k)fluoranthene (T)

17.238min (+ 0.000) 3.88 ng/ml m

response 11444

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	13.66
253.00	21.50	19.98
0.00	0.00	0.00

Quantitation Report (QT Reviewed) HML 10/23/20

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:57:16 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	265037	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	168216	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	329765	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	307959	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	302945	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	255992	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	586	0.79	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.810	172	1584	0.66	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	415	2.92	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.732	244	2498	0.84	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	5605	2.05	ng/ml	99
5) 2-Methylnaphthalene	8.448	142	1160	0.59	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	582	N.D.		
7) 1,1'-Biphenyl	8.909	154	608	N.D.		
8) 2,6-Dimethylnaphthalene	9.072	156	675	N.D.		
11) Acenaphthylene	9.346	152	2443	0.87	ng/ml	96
12) Acenaphthene	9.521	153	2132	1.03	ng/ml	94
13) Dibenzofuran	9.696	168	996	N.D.		
14) 1,6,7-Trimethylnaphtha...	9.906	170	347	N.D.		
15) Fluorene	10.045	166	2123	1.01	ng/ml	99
18) Pentachlorophenol (PCP)	10.826	266	174	10.00	ng/ml	79
19) Dibenzothiopene	10.891	184	1907	0.60	ng/ml	95
20) Phenanthrene	11.019	178	17204	4.82	ng/ml	98
21) Anthracene	11.071	178	3877	1.33	ng/ml	92
22) Carbazole	11.240	167	968	0.45	ng/ml	82
23) 1-Methylphenanthrene	11.643	192	1062	0.41	ng/ml	98
24) Fluoranthene	12.260	202	30382	8.21	ng/ml	93
26) Pyrene	12.534	202	36894	8.95	ng/ml	100
28) Benz(a)anthracene	14.609	228	12105	3.93	ng/ml	69
29) Chrysene	14.691	228	13773	4.33	ng/ml	99

SV14_080720.M Fri Oct 23 11:57:47 2020 Page: 1

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:57:16 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

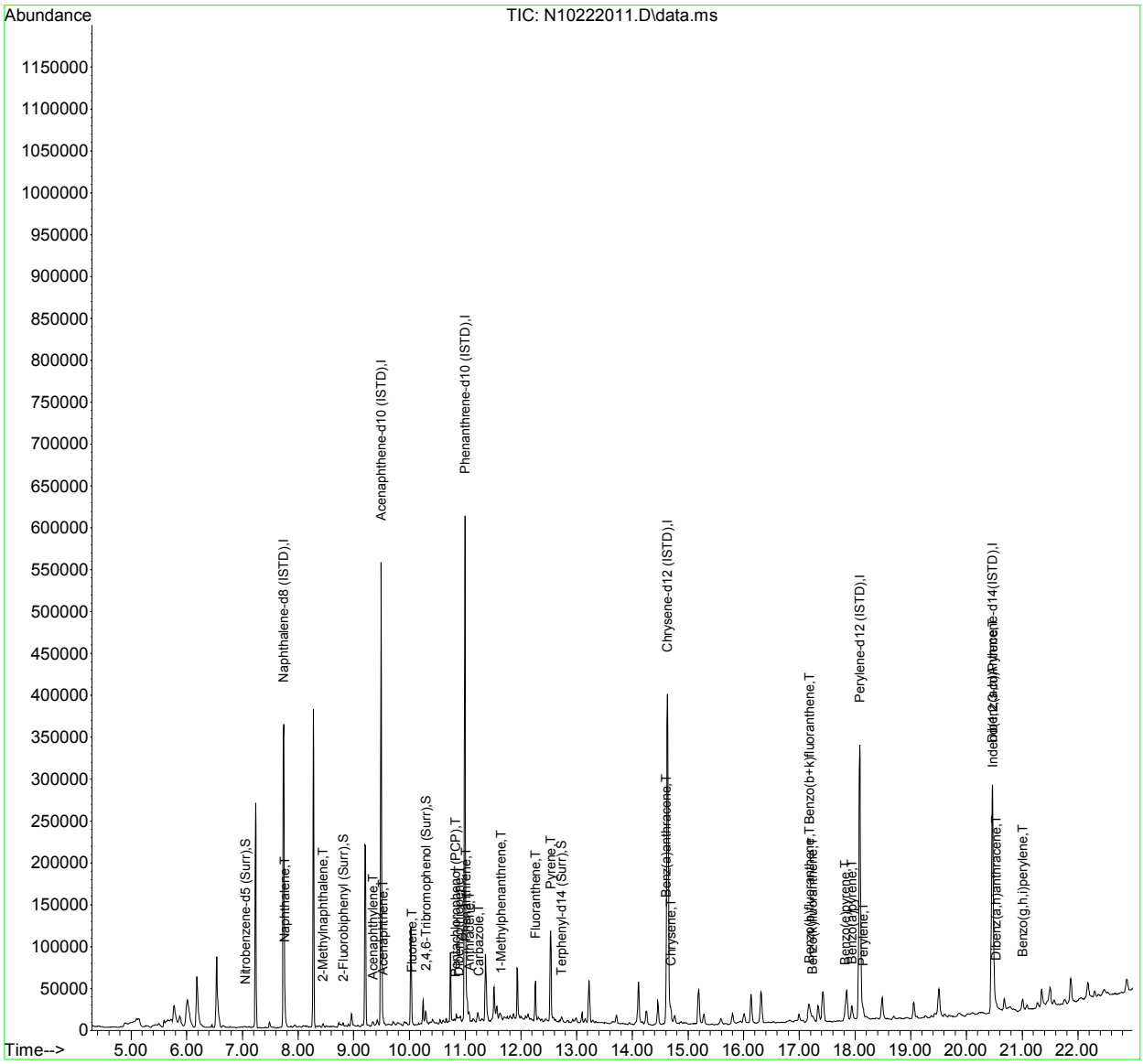
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31)	Benzo(b)fluoranthene	17.180	252	17269	5.62	ng/ml	92
32)	Benzo(k)fluoranthene	17.238	252	5946m	2.05	ng/ml	
33)	Benzo(b+k)fluoranthene	17.180	252	24825	7.94	ng/ml	90
34)	Benzo(e)pyrene	17.821	252	11469	3.75	ng/ml	98
35)	Benzo(a)pyrene	17.943	252	14785	6.64	ng/ml	96
36)	Perylene	18.141	252	6688	2.02	ng/ml	95
38)	Indeno(1,2,3-cd)Pyrene	20.473	276	11691	4.24	ng/ml	80
39)	Dibenz(a,h)anthracene	20.531	278	1473	0.54	ng/ml	88
40)	Benzo(g,h,i)perylene	21.009	276	13731	4.90	ng/ml	78

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

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:57:16 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	265037	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	168216	100.00	ng/ml	0.00
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25) Chrysene-d12 (ISTD)	14.633	240	307959	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	302945	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	255992	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	586	0.79	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.810	172	1584	0.66	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	415	2.92	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.732	244	2498	0.84	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	5605	2.05	ng/ml	99
5) 2-Methylnaphthalene	8.448	142	1160	0.59	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	582	N.D.		
7) 1,1'-Biphenyl	8.909	154	608	N.D.		
8) 2,6-Dimethylnaphthalene	9.072	156	675	N.D.		
11) Acenaphthylene	9.346	152	2443	0.87	ng/ml	96
12) Acenaphthene	9.521	153	2132	1.03	ng/ml	94
13) Dibenzofuran	9.696	168	996	N.D.		
14) 1,6,7-Trimethylnaphtha...	9.906	170	347	N.D.		
15) Fluorene	10.045	166	2123	1.01	ng/ml	99
18) Pentachlorophenol (PCP)	10.826	266	174	10.00	ng/ml	79
19) Dibenzothiopene	10.891	184	1907	0.60	ng/ml	95
20) Phenanthrene	11.019	178	17204	4.82	ng/ml	98
21) Anthracene	11.071	178	3877	1.33	ng/ml	92
22) Carbazole	11.240	167	968	0.45	ng/ml	82
23) 1-Methylphenanthrene	11.643	192	1062	0.41	ng/ml	98
24) Fluoranthene	12.260	202	30382	8.21	ng/ml	93
26) Pyrene	12.534	202	36894	8.95	ng/ml	100
28) Benz(a)anthracene	14.609	228	12105	3.93	ng/ml	69
29) Chrysene	14.691	228	13773	4.33	ng/ml	99

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

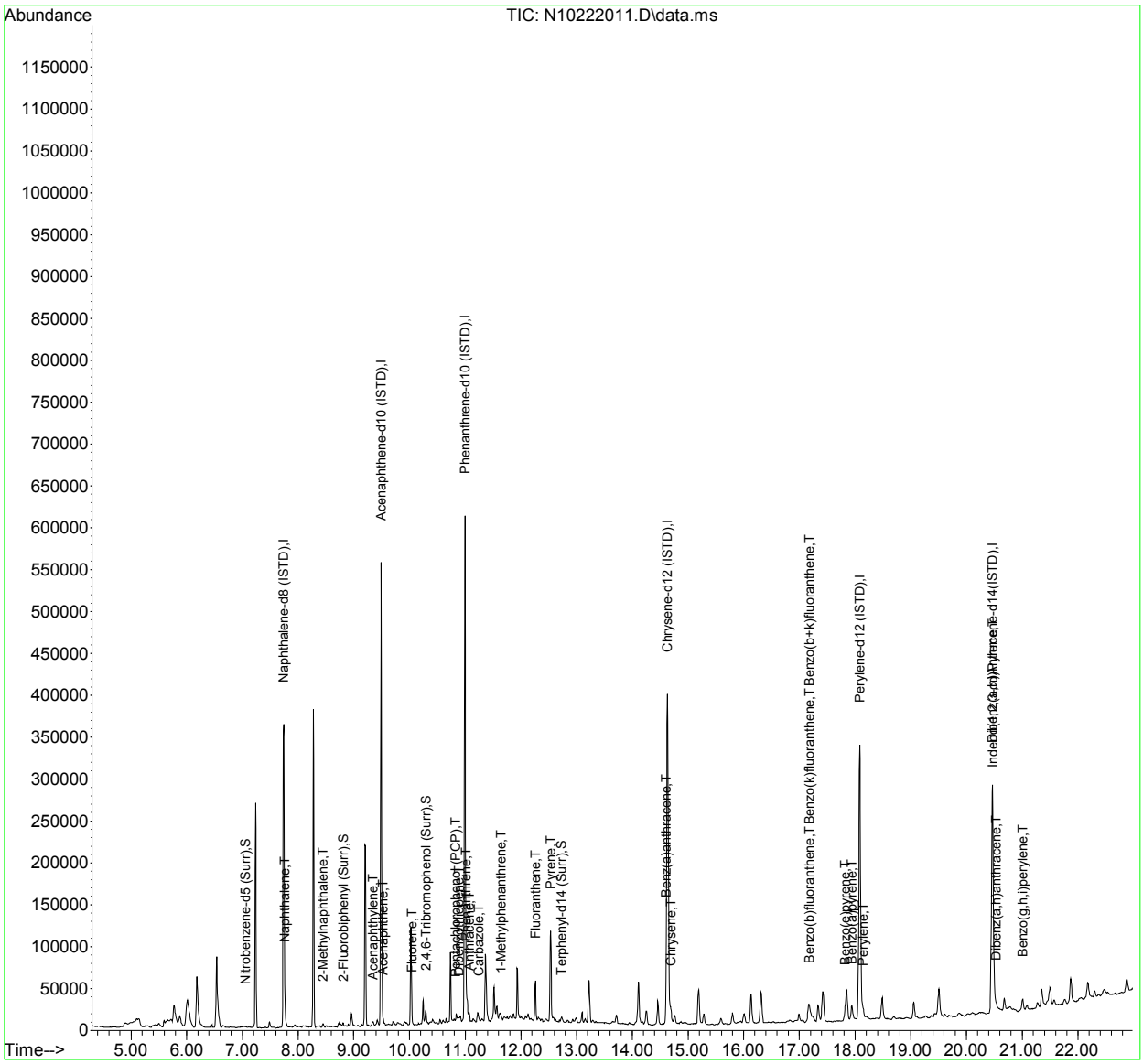
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	17269	5.62	ng/ml	92
32) Benzo(k)fluoranthene	17.180	252	21708	7.49	ng/ml	90
33) Benzo(b+k)fluoranthene	17.180	252	24825	7.94	ng/ml	90
34) Benzo(e)pyrene	17.821	252	11469	3.75	ng/ml	98
35) Benzo(a)pyrene	17.943	252	14785	6.64	ng/ml	96
36) Perylene	18.141	252	6688	2.02	ng/ml	95
38) Indeno(1,2,3-cd)Pyrene	20.473	276	11691	4.24	ng/ml	80
39) Dibenz(a,h)anthracene	20.531	278	1473	0.54	ng/ml	88
40) Benzo(g,h,i)perylene	21.009	276	13731	4.90	ng/ml	78

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

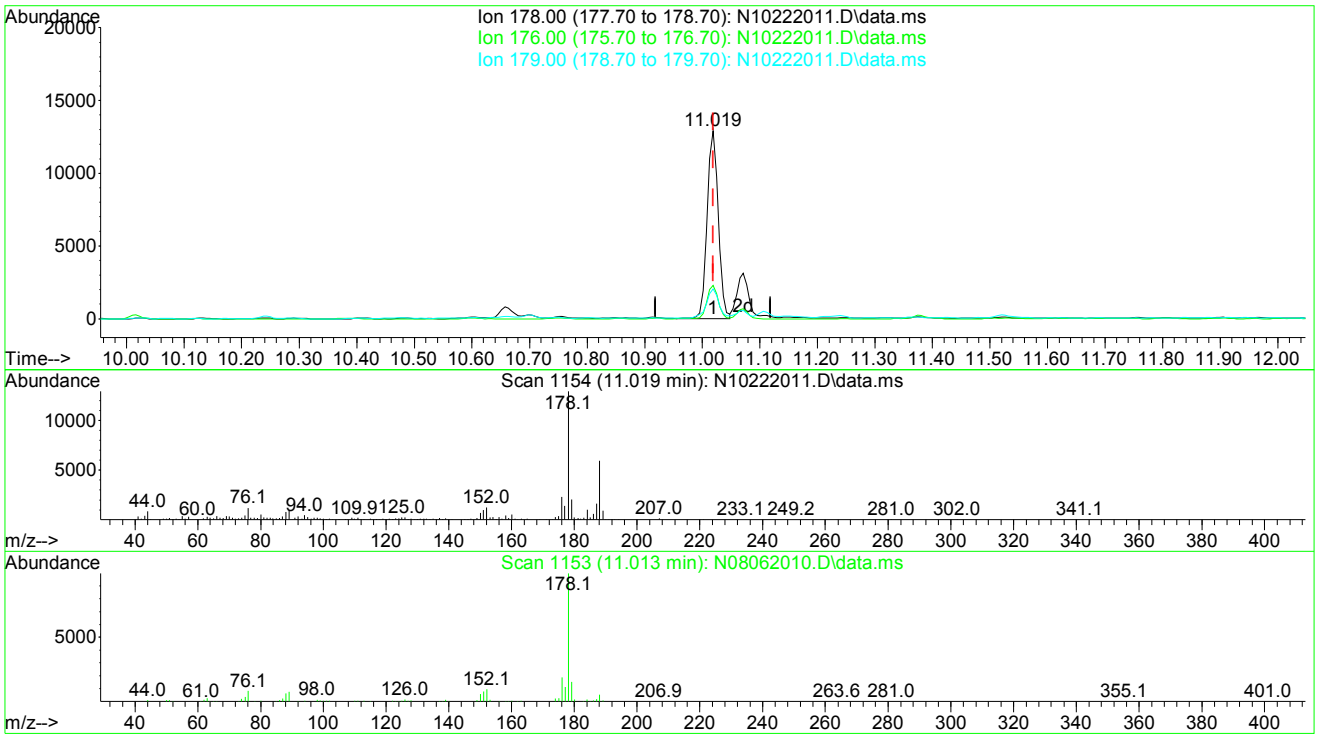
Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222011.D\data.ms

(20) Phenanthrene (T)

11.019min (-0.000) 4.82 ng/ml

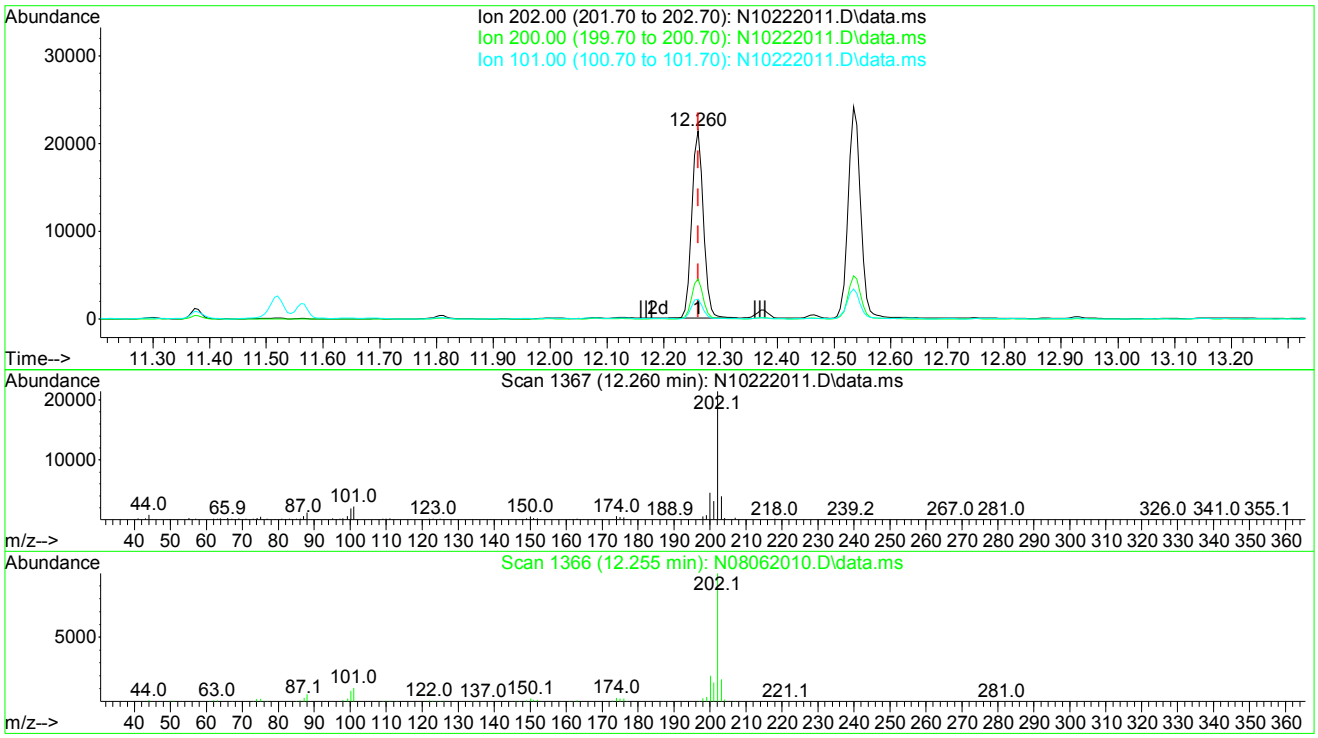
response 17204

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	17.79
179.00	15.10	15.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222011.D\data.ms

(24) Fluoranthene (T)

12.260min (-0.000) 8.21 ng/ml

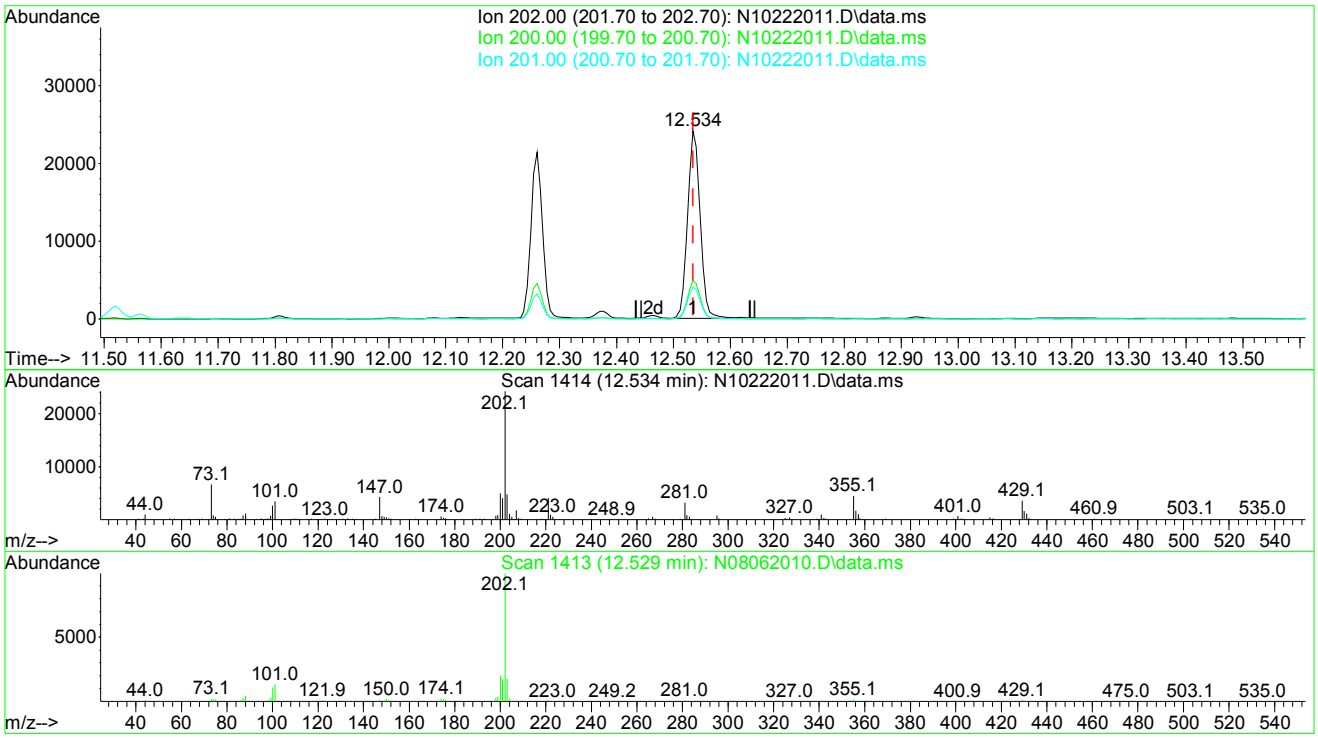
response 30382

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	21.16
101.00	15.30	10.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222011.D\data.ms

(26) Pyrene (T)
12.534min (-0.000) 8.95 ng/ml
response 36894

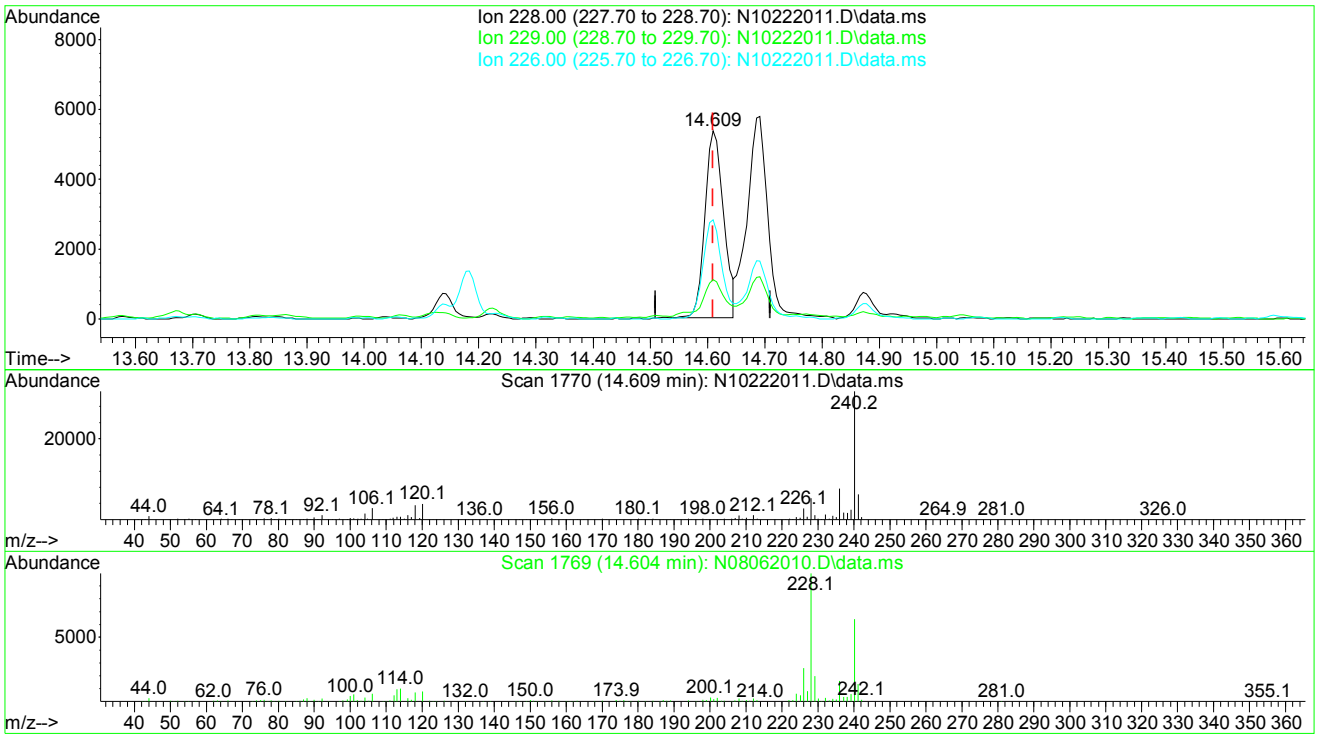
Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.32
201.00	16.80	16.82
0.00	0.00	0.00

SV14_080720.M Fri Oct 23 11:56:42 2020 Page: 1

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222011.D\data.ms

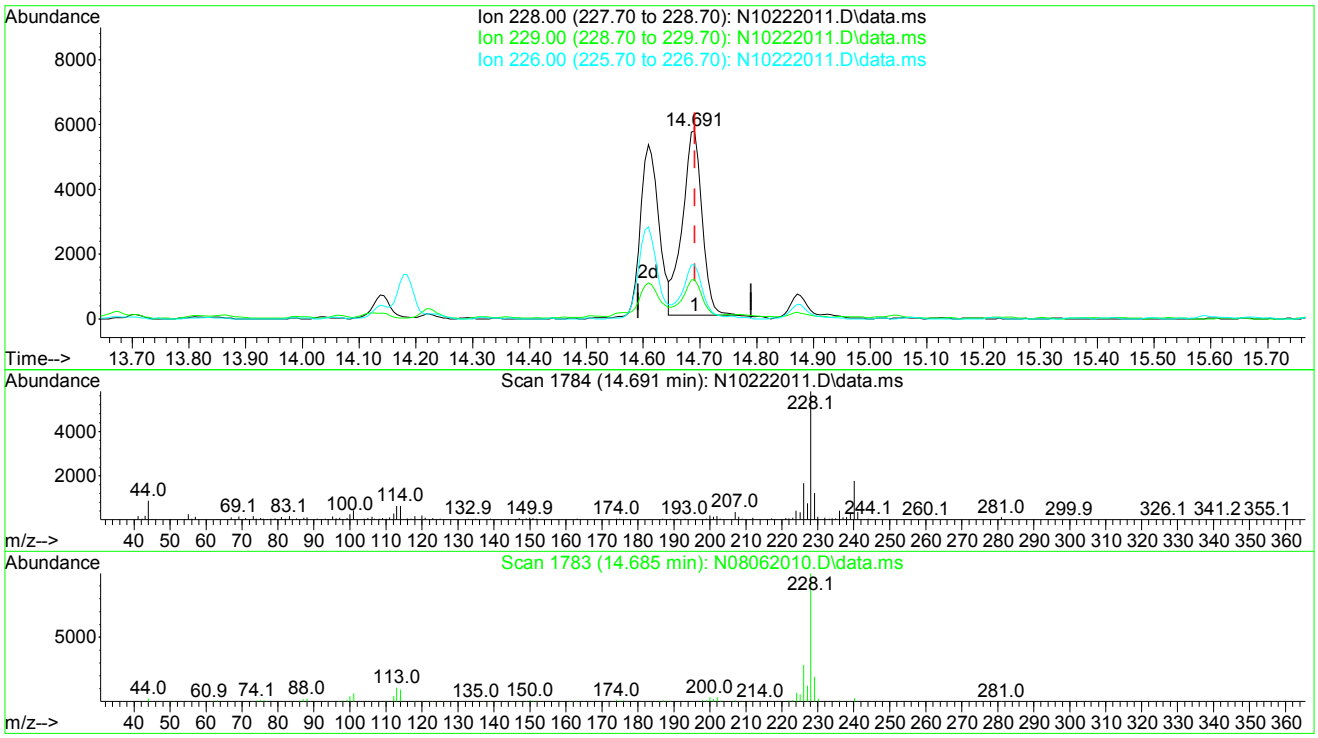
(28) Benz(a)anthracene (T)
14.609min (-0.000) 3.93 ng/ml
response 12105

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.81
226.00	26.20	52.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222011.D\data.ms

(29) Chrysene (T)

14.691min (-0.000) 4.33 ng/ml

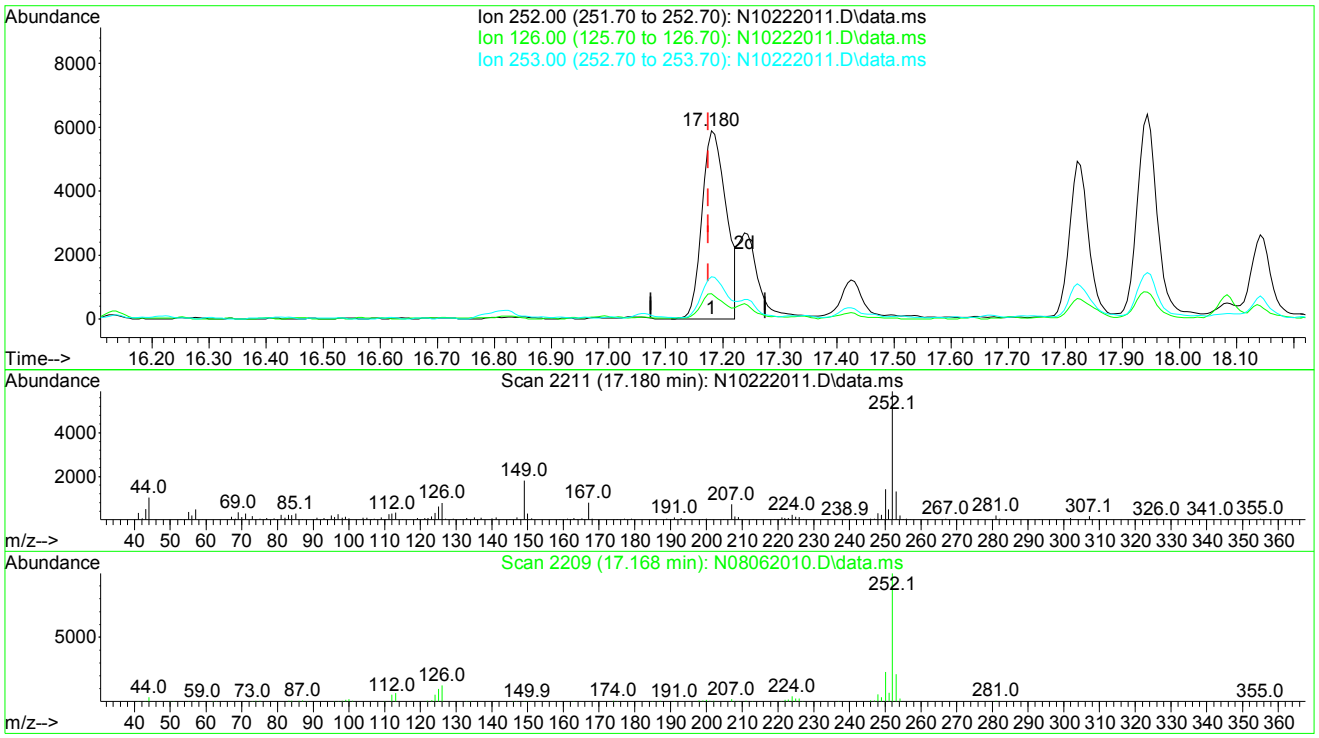
response 13773

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.78
226.00	28.60	28.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222011.D\data.ms

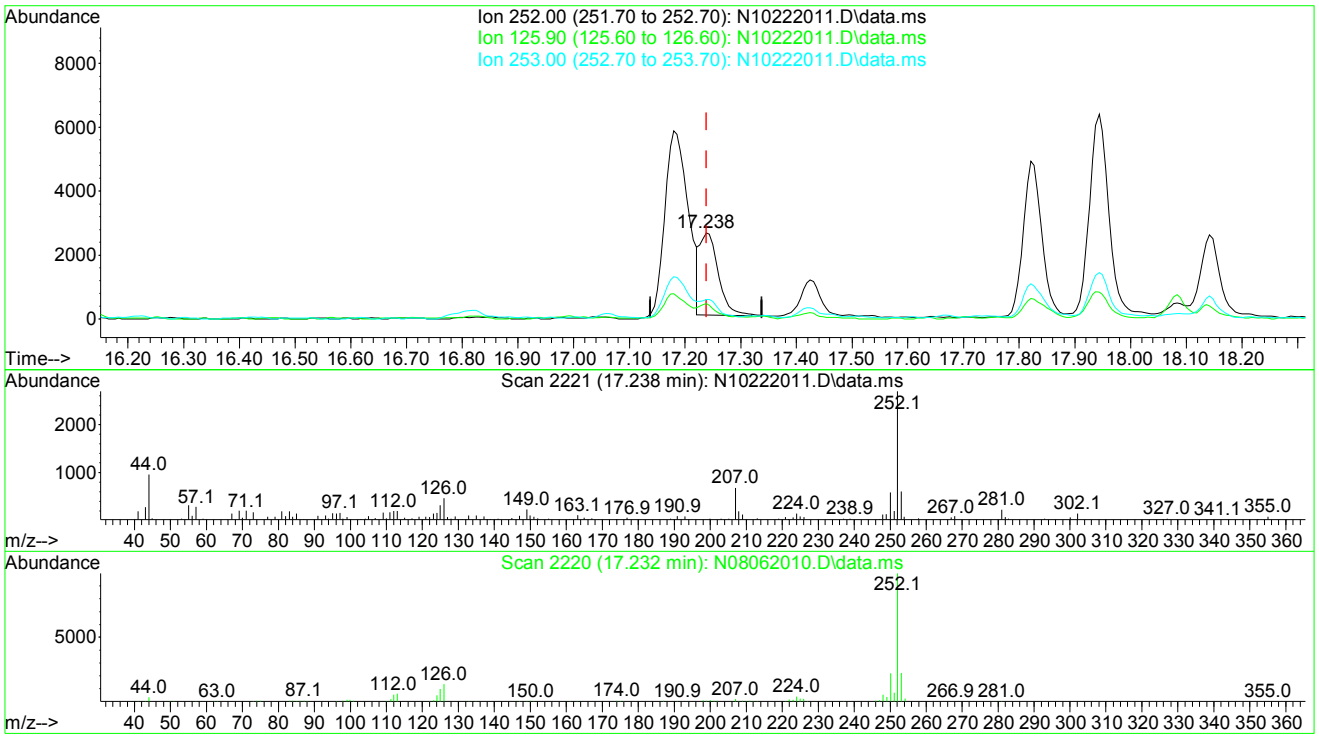
(31) Benzo(b)fluoranthene (T)
17.180min (+ 0.006) 5.62 ng/ml
response 17269

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	13.40
253.00	21.10	22.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222011.D\data.ms

(32) Benzo(k)fluoranthene (T)
17.238min (-0.000) 2.05 ng/ml m
response 5946

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	17.38
253.00	21.50	22.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
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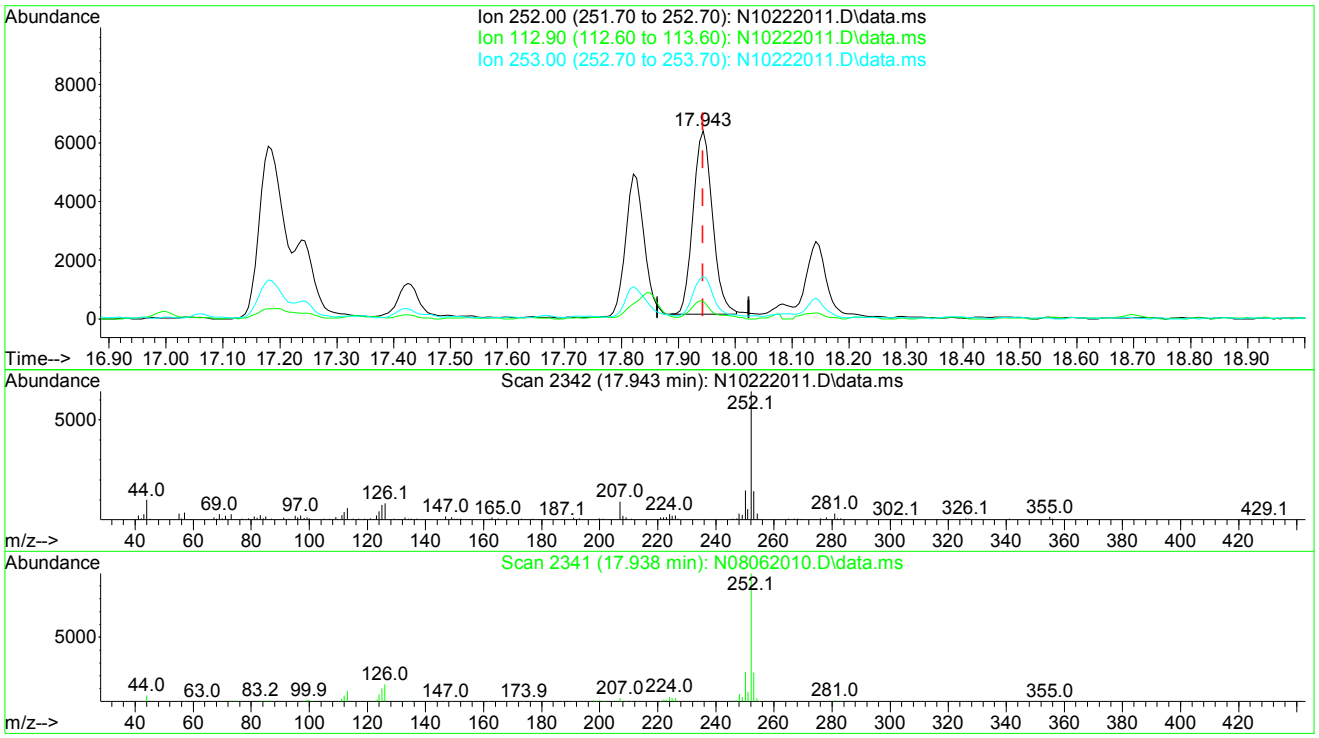


TIC: N10222011.D\data.ms

(35) Benzo(a)pyrene (T)

17.943min (-0.000) 6.64 ng/ml

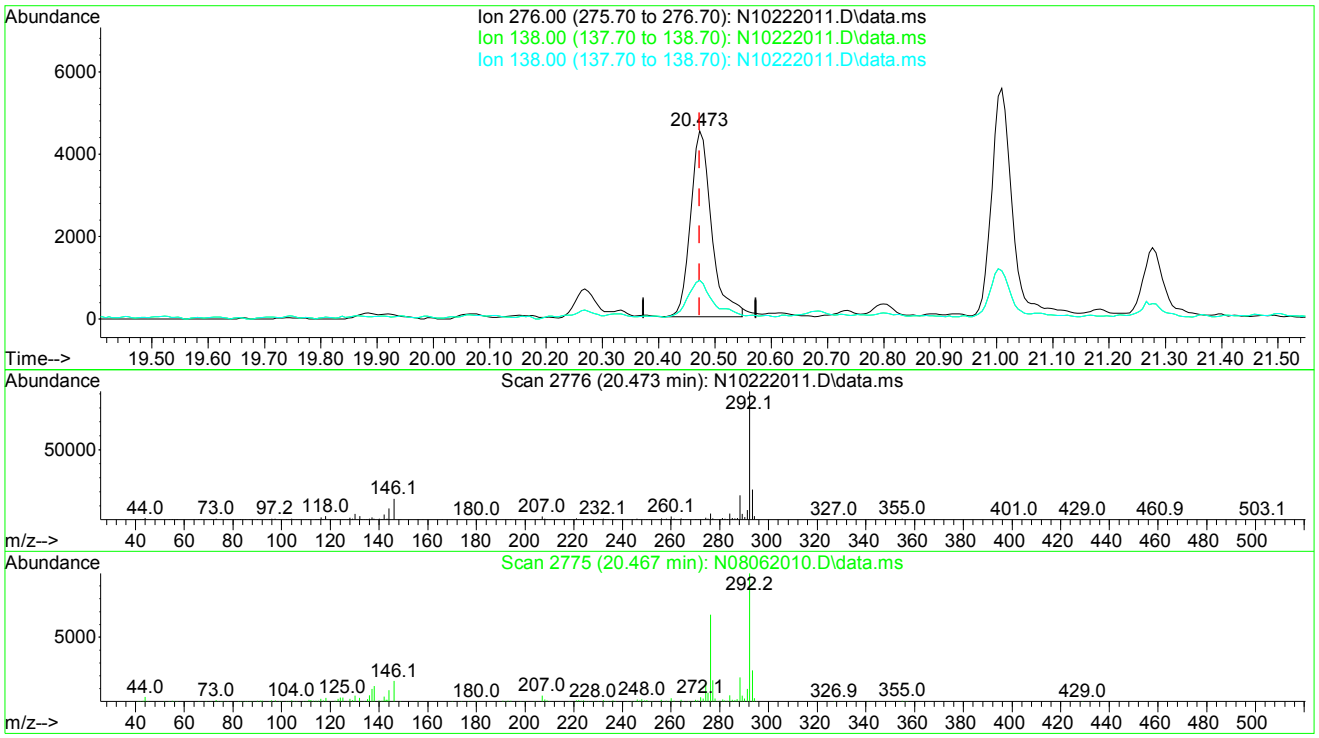
response 14785

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	9.26
253.00	21.90	22.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222011.D\data.ms

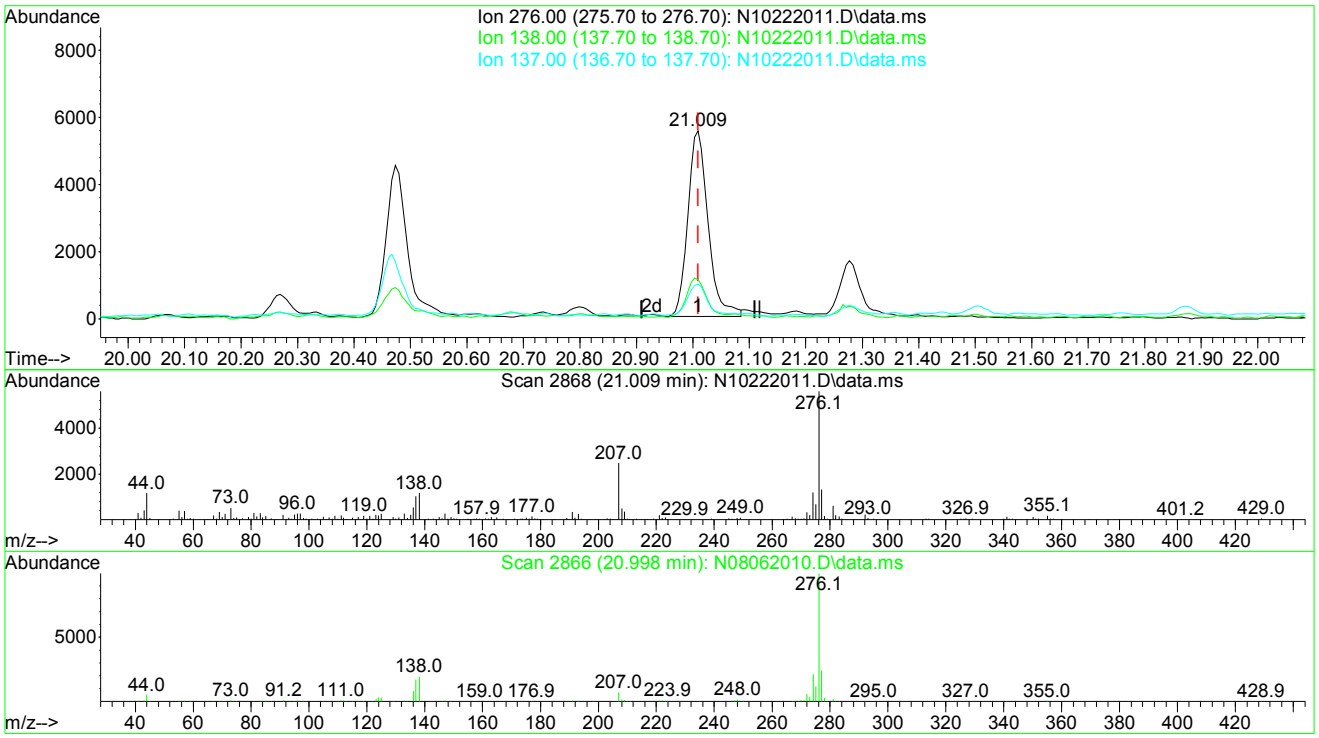
(38) Indeno(1,2,3-cd)Pyrene (T)
20.473min (-0.000) 4.24 ng/ml
response 11691

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	20.52
138.00	31.60	20.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222011.D
Acq On : 22 Oct 2020 08:22 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-02@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 10 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 11:54:48 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222011.D\data.ms

(40) Benzo(g,h,i)perylene (T)
21.009min (-0.000) 4.90 ng/ml
response 13731

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	20.82
137.00	28.60	18.37
0.00	0.00	0.00

Quantitation Report (QT Reviewed) HML 10/23/20

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:09:57 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	260107	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	169906	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	335965	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	300553	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	291648	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	250855	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	642	0.88	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.810	172	1560	0.64	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	404	2.87	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	2732	0.95	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	3897	1.45	ng/ml	96
5) 2-Methylnaphthalene	8.449	142	1187	0.61	ng/ml	90
6) 1-Methylnaphthalene	8.542	142	741	N.D.		
7) 1,1'-Biphenyl	8.909	154	483	N.D.		
8) 2,6-Dimethylnaphthalene	9.072	156	654	N.D.		
11) Acenaphthylene	9.346	152	2423	0.85	ng/ml	95
12) Acenaphthene	9.521	153	1728	0.83	ng/ml	97
13) Dibenzofuran	9.702	168	350	N.D.		
14) 1,6,7-Trimethylnaphtha...	9.906	170	366	N.D.		
15) Fluorene	10.046	166	1519	0.72	ng/ml	93
18) Pentachlorophenol (PCP)	10.827	266	75	9.38	ng/ml#	53
19) Dibenzothiopene	10.891	184	1575	0.48	ng/ml	91
20) Phenanthrene	11.019	178	14169	3.90	ng/ml	99
21) Anthracene	11.071	178	3995	1.34	ng/ml	98
22) Carbazole	11.240	167	449	N.D.		
23) 1-Methylphenanthrene	11.643	192	2736	1.05	ng/ml	95
24) Fluoranthene	12.260	202	23535	6.24	ng/ml	95
26) Pyrene	12.534	202	31157	7.74	ng/ml	100
28) Benz(a)anthracene	14.609	228	9635	3.21	ng/ml	73
29) Chrysene	14.691	228	11570	3.73	ng/ml	97

SV14_080720.M Fri Oct 23 12:10:34 2020 Page: 1

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:09:57 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

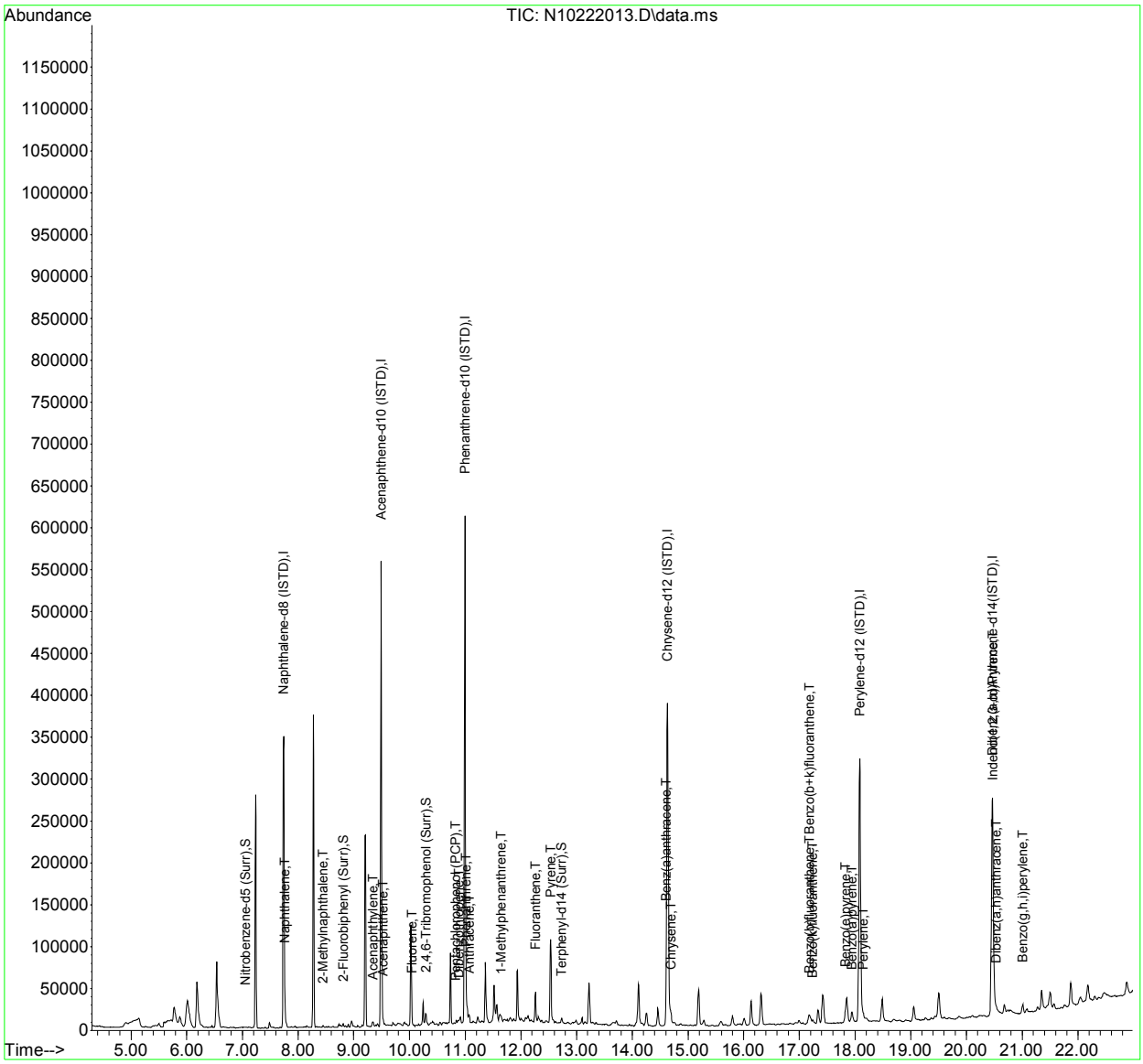
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31)	Benzo(b)fluoranthene	17.180	252	12476	4.22	ng/ml	90
32)	Benzo(k)fluoranthene	17.238	252	3980m	1.43	ng/ml	
33)	Benzo(b+k)fluoranthene	17.180	252	17222	5.72	ng/ml	89
34)	Benzo(e)pyrene	17.827	252	8461	2.88	ng/ml	98
35)	Benzo(a)pyrene	17.943	252	10975	5.12	ng/ml	94
36)	Perylene	18.142	252	4144	1.30	ng/ml	97
38)	Indeno(1,2,3-cd)Pyrene	20.473	276	8270	3.06	ng/ml	85
39)	Dibenz(a,h)anthracene	20.531	278	1207	0.45	ng/ml	91
40)	Benzo(g,h,i)perylene	21.009	276	10113	3.68	ng/ml	77

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

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:09:57 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	260107	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	169906	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	335965	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	300553	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	291648	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	250855	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	642	0.88	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.810	172	1560	0.64	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	404	2.87	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	2732	0.95	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	3897	1.45	ng/ml	96
5) 2-Methylnaphthalene	8.449	142	1187	0.61	ng/ml	90
6) 1-Methylnaphthalene	8.542	142	741	N.D.		
7) 1,1'-Biphenyl	8.909	154	483	N.D.		
8) 2,6-Dimethylnaphthalene	9.072	156	654	N.D.		
11) Acenaphthylene	9.346	152	2423	0.85	ng/ml	95
12) Acenaphthene	9.521	153	1728	0.83	ng/ml	97
13) Dibenzofuran	9.702	168	350	N.D.		
14) 1,6,7-Trimethylnaphtha...	9.906	170	366	N.D.		
15) Fluorene	10.046	166	1519	0.72	ng/ml	93
18) Pentachlorophenol (PCP)	10.827	266	75	9.38	ng/ml#	53
19) Dibenzothiopene	10.891	184	1575	0.48	ng/ml	91
20) Phenanthrene	11.019	178	14169	3.90	ng/ml	99
21) Anthracene	11.071	178	3995	1.34	ng/ml	98
22) Carbazole	11.240	167	449	N.D.		
23) 1-Methylphenanthrene	11.643	192	2736	1.05	ng/ml	95
24) Fluoranthene	12.260	202	23535	6.24	ng/ml	95
26) Pyrene	12.534	202	31157	7.74	ng/ml	100
28) Benz(a)anthracene	14.609	228	9635	3.21	ng/ml	73
29) Chrysene	14.691	228	11570	3.73	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

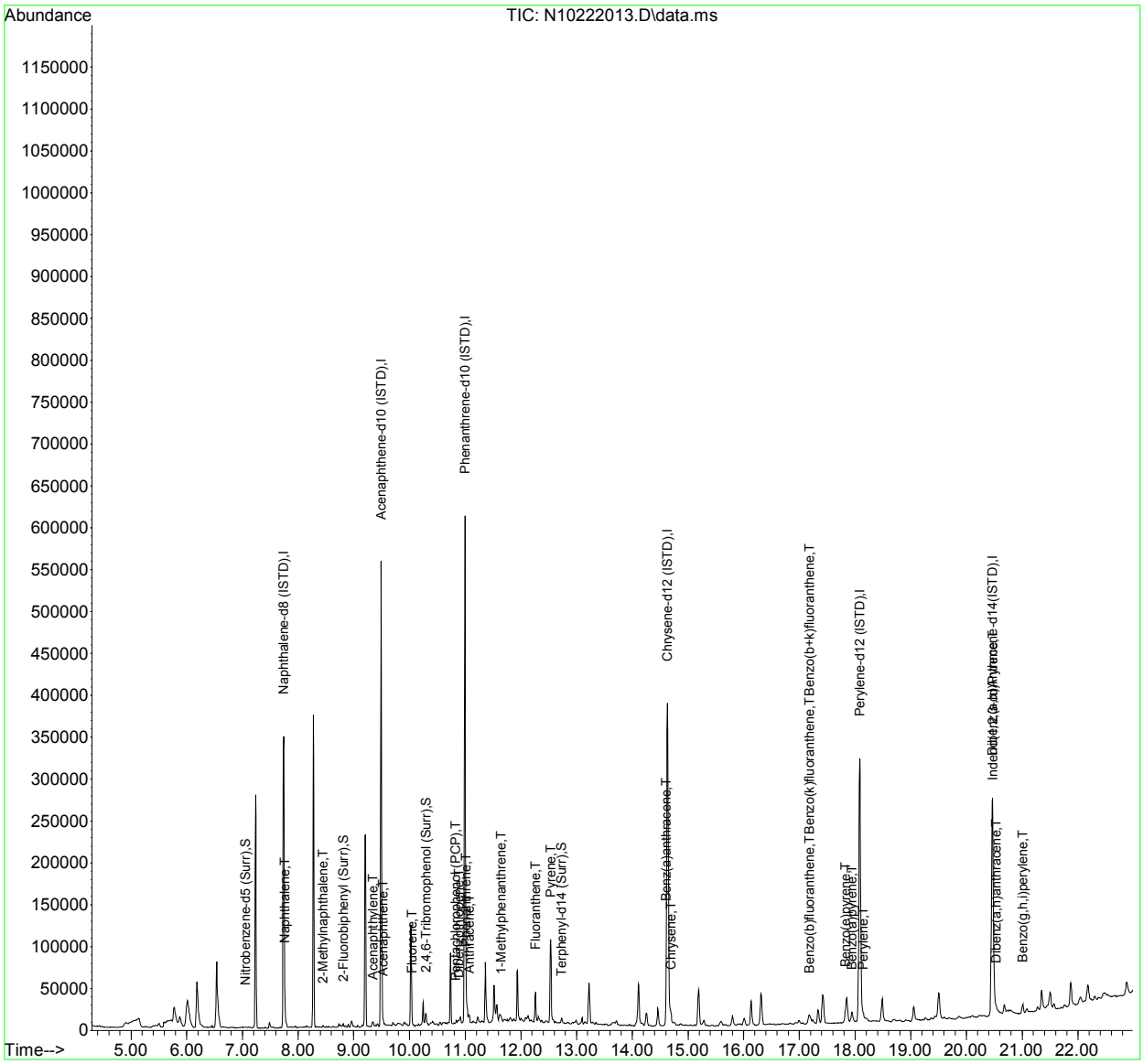
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	12476	4.22	ng/ml	90
32) Benzo(k)fluoranthene	17.180	252	15084	5.41	ng/ml	89
33) Benzo(b+k)fluoranthene	17.180	252	17222	5.72	ng/ml	89
34) Benzo(e)pyrene	17.827	252	8461	2.88	ng/ml	98
35) Benzo(a)pyrene	17.943	252	10975	5.12	ng/ml	94
36) Perylene	18.142	252	4144	1.30	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.473	276	8270	3.06	ng/ml	85
39) Dibenz(a,h)anthracene	20.531	278	1207	0.45	ng/ml	91
40) Benzo(g,h,i)perylene	21.009	276	10113	3.68	ng/ml	77

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

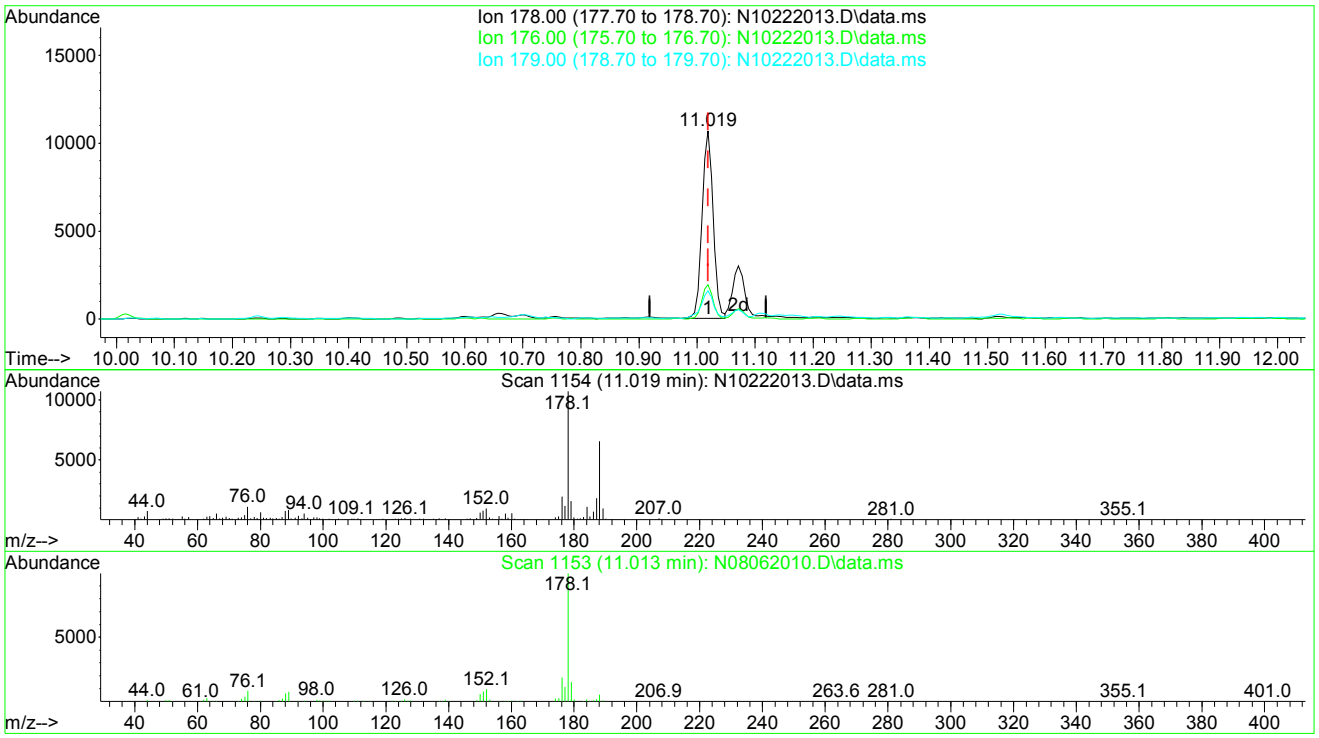
Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222013.D\data.ms

(20) Phenanthrene (T)

11.019min (+ 0.000) 3.90 ng/ml

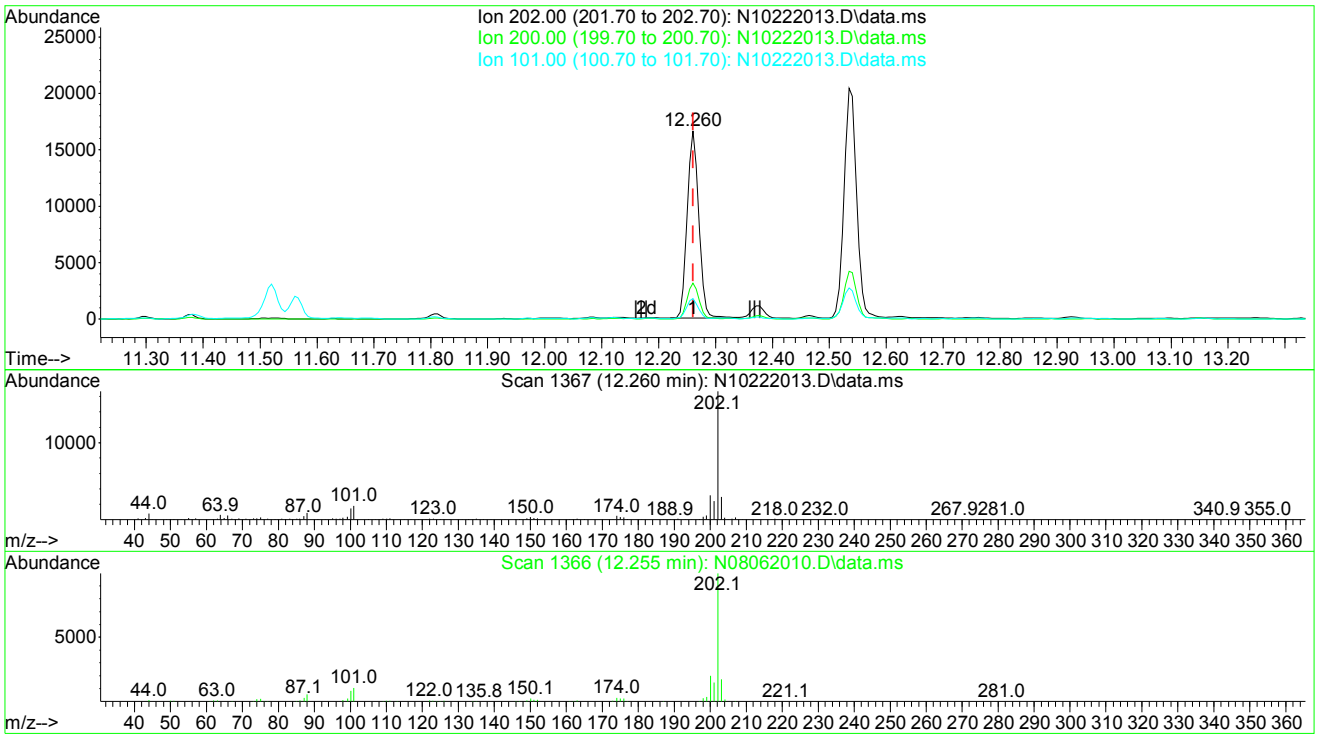
response 14169

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.10
179.00	15.10	14.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222013.D\data.ms

(24) Fluoranthene (T)

12.260min (+ 0.000) 6.24 ng/ml

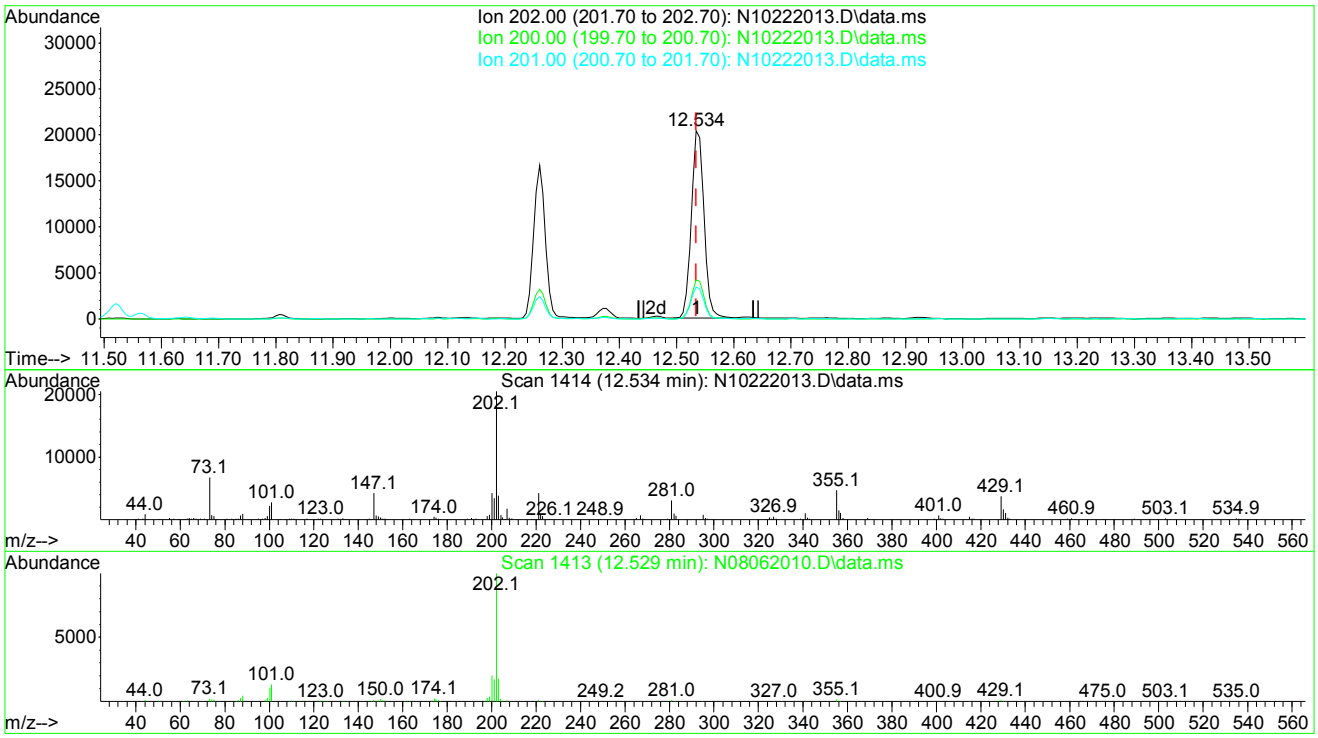
response 23535

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.14
101.00	15.30	10.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222013.D\data.ms

(26) Pyrene (T)

12.534min (+ 0.000) 7.74 ng/ml

response 31157

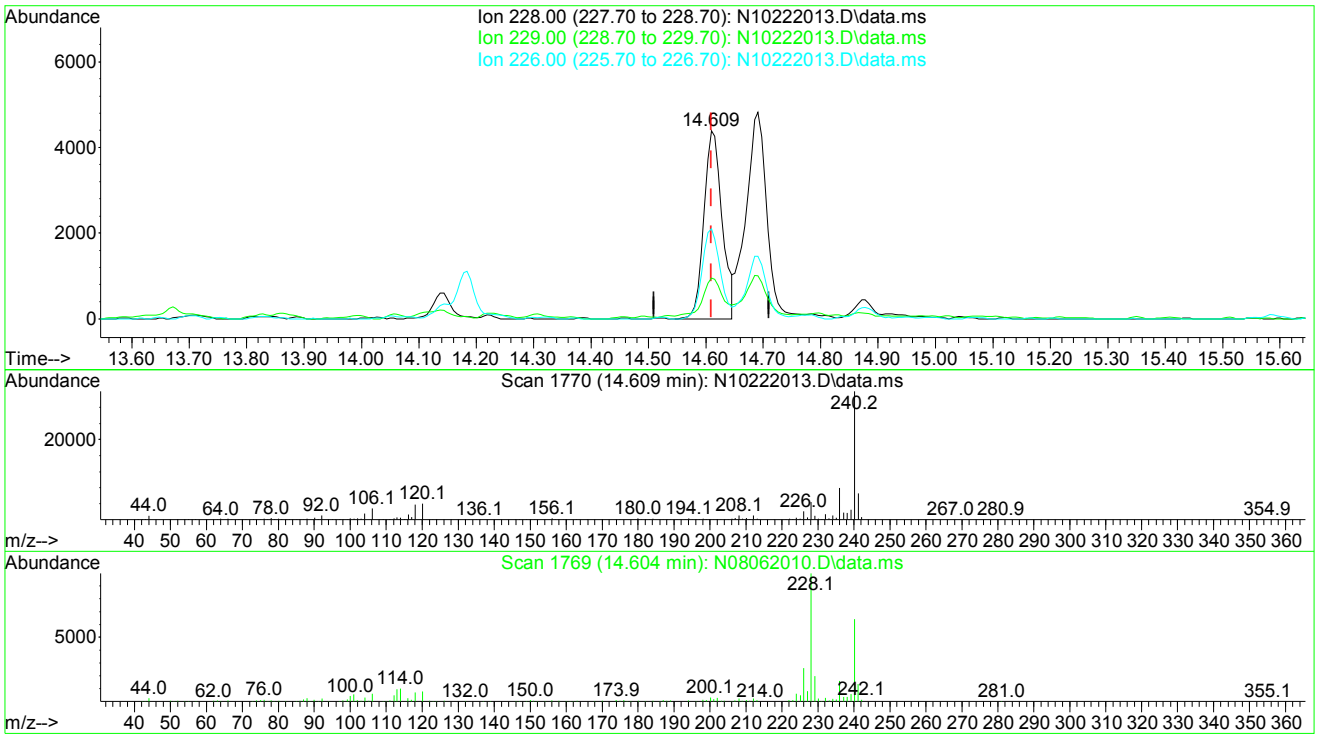
Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.63
201.00	16.80	17.01
0.00	0.00	0.00

SV14_080720.M Fri Oct 23 12:09:29 2020 Page: 1

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222013.D\data.ms

(28) Benz(a)anthracene (T)

14.609min (+ 0.000) 3.21 ng/ml

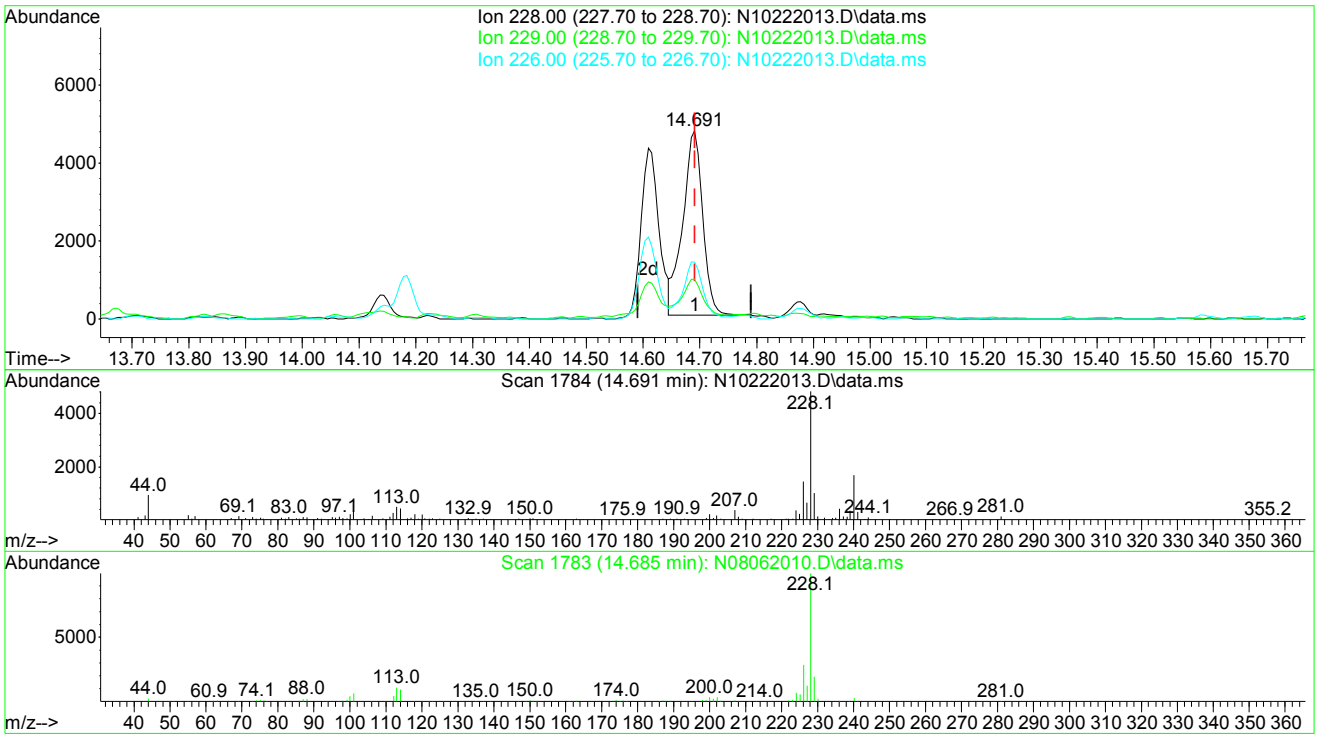
response 9635

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	21.73
226.00	26.20	47.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222013.D\data.ms

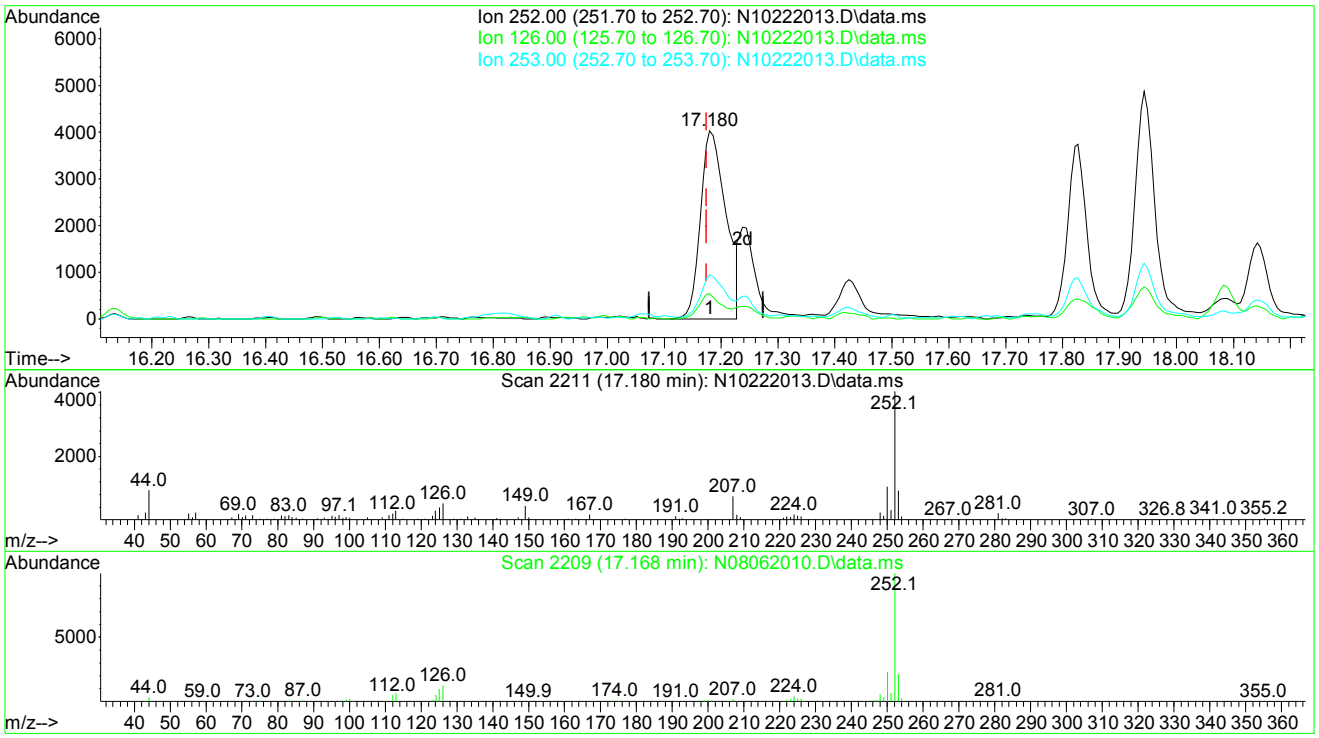
(29) Chrysene (T)
14.691min (+ 0.000) 3.73 ng/ml
response 11570

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.87
226.00	28.60	30.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222013.D\data.ms

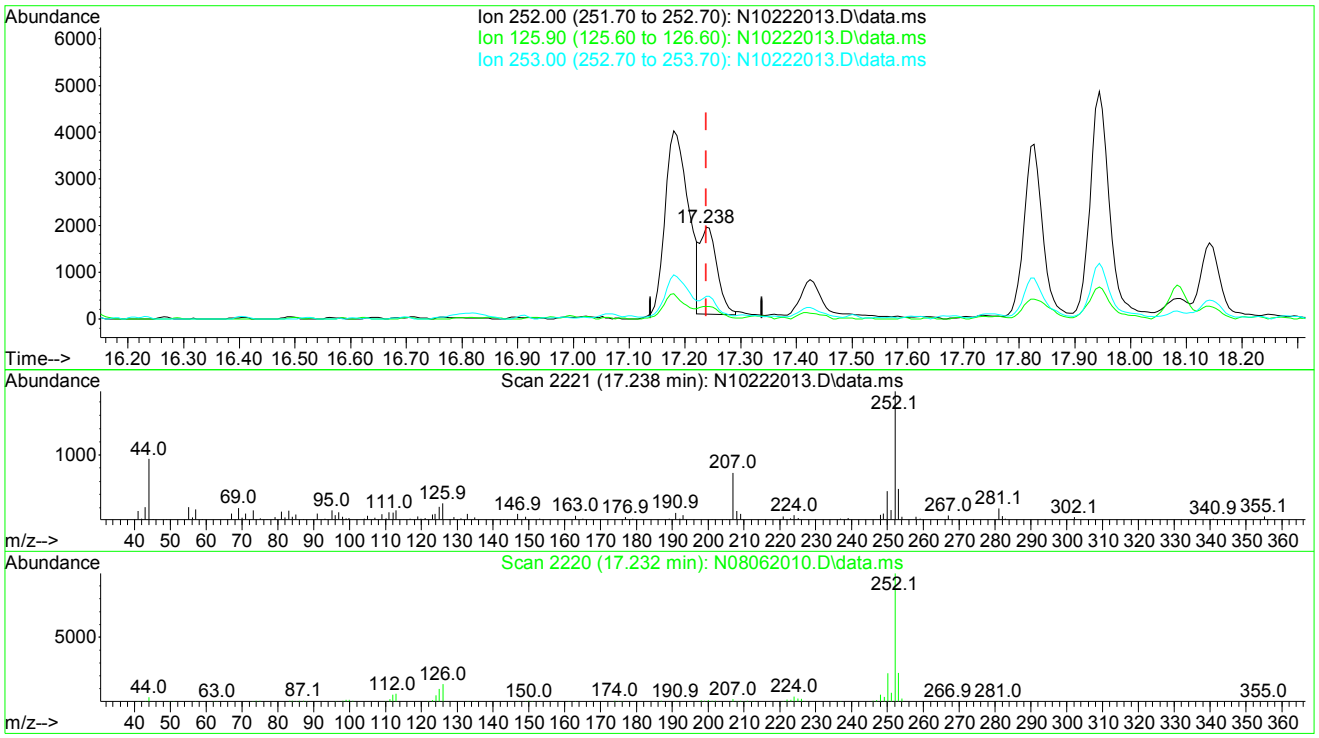
(31) Benzo(b)fluoranthene (T)
17.180min (+ 0.006) 4.22 ng/ml
response 12476

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	13.26
253.00	21.10	23.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222013.D\data.ms

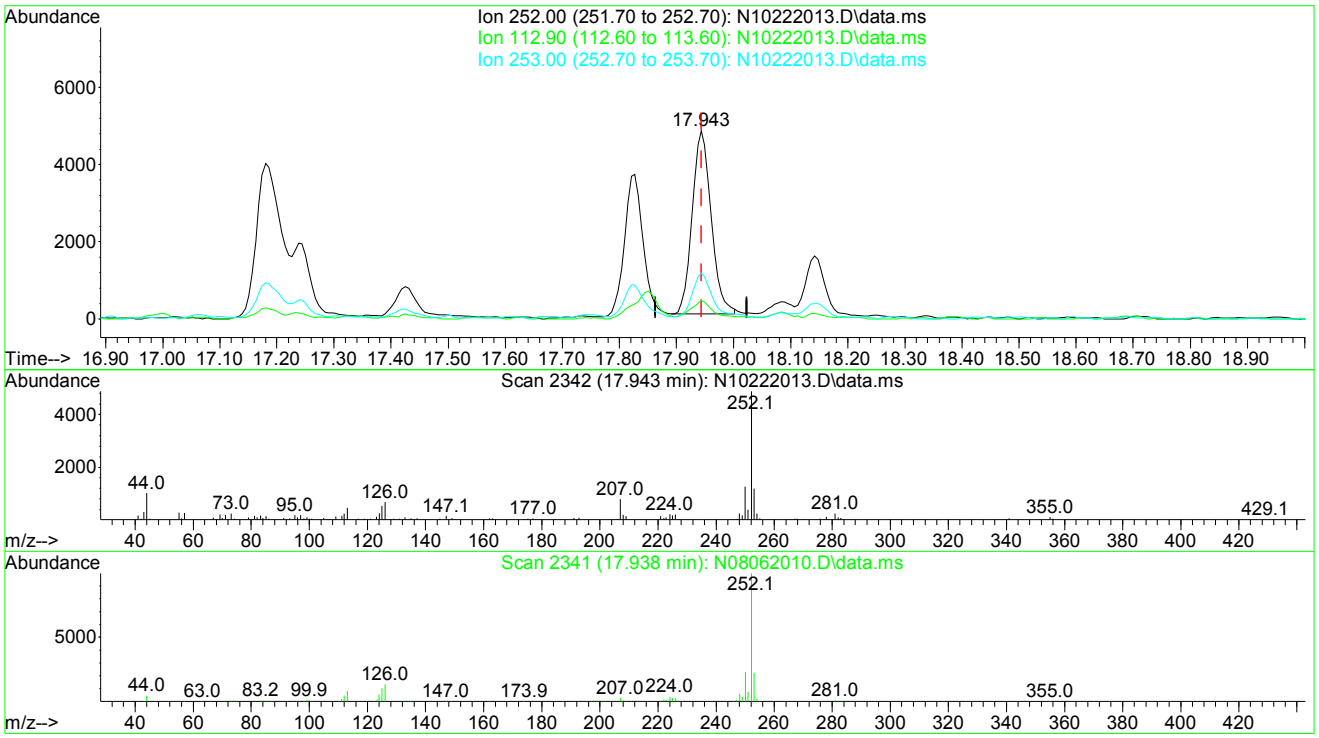
(32) Benzo(k)fluoranthene (T)
17.238min (+ 0.000) 1.43 ng/ml m
response 3980

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	13.47
253.00	21.50	24.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222013.D\data.ms

(35) Benzo(a)pyrene (T)

17.943min (+ 0.000) 5.12 ng/ml

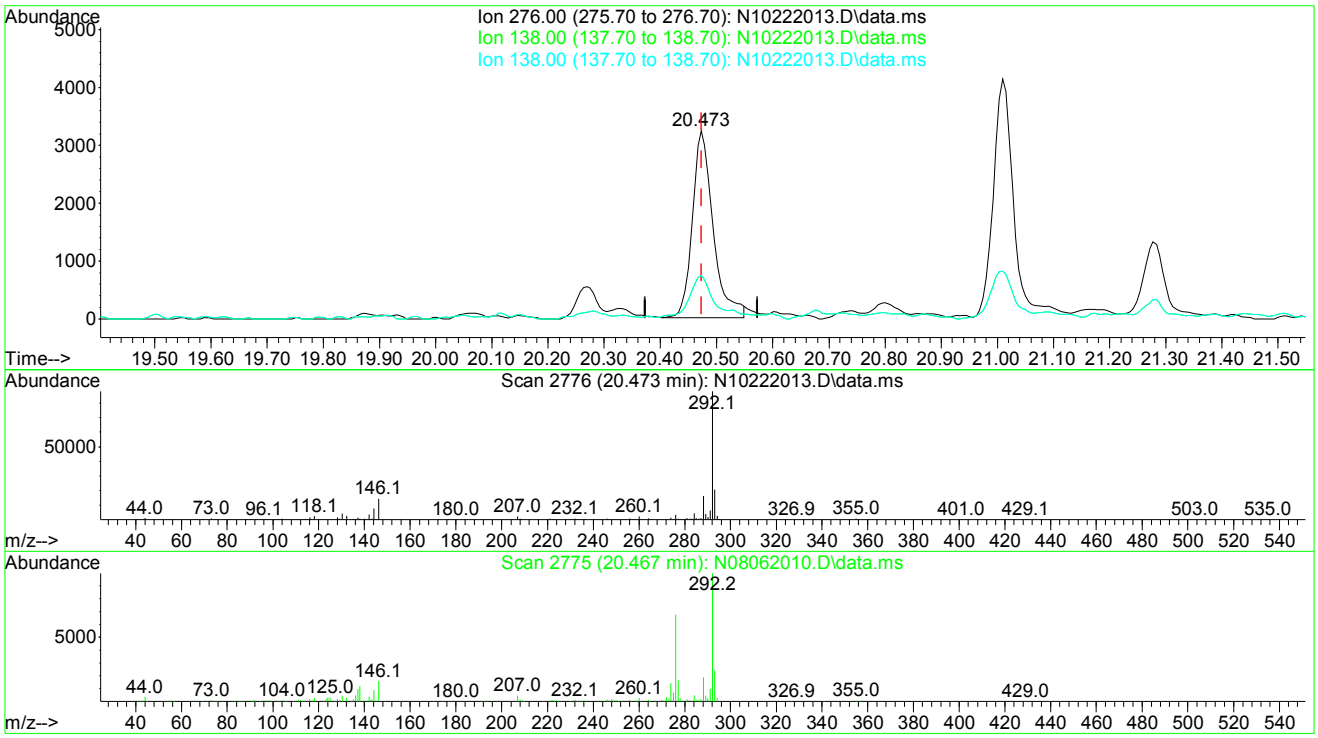
response 10975

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	9.69
253.00	21.90	24.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222013.D\data.ms

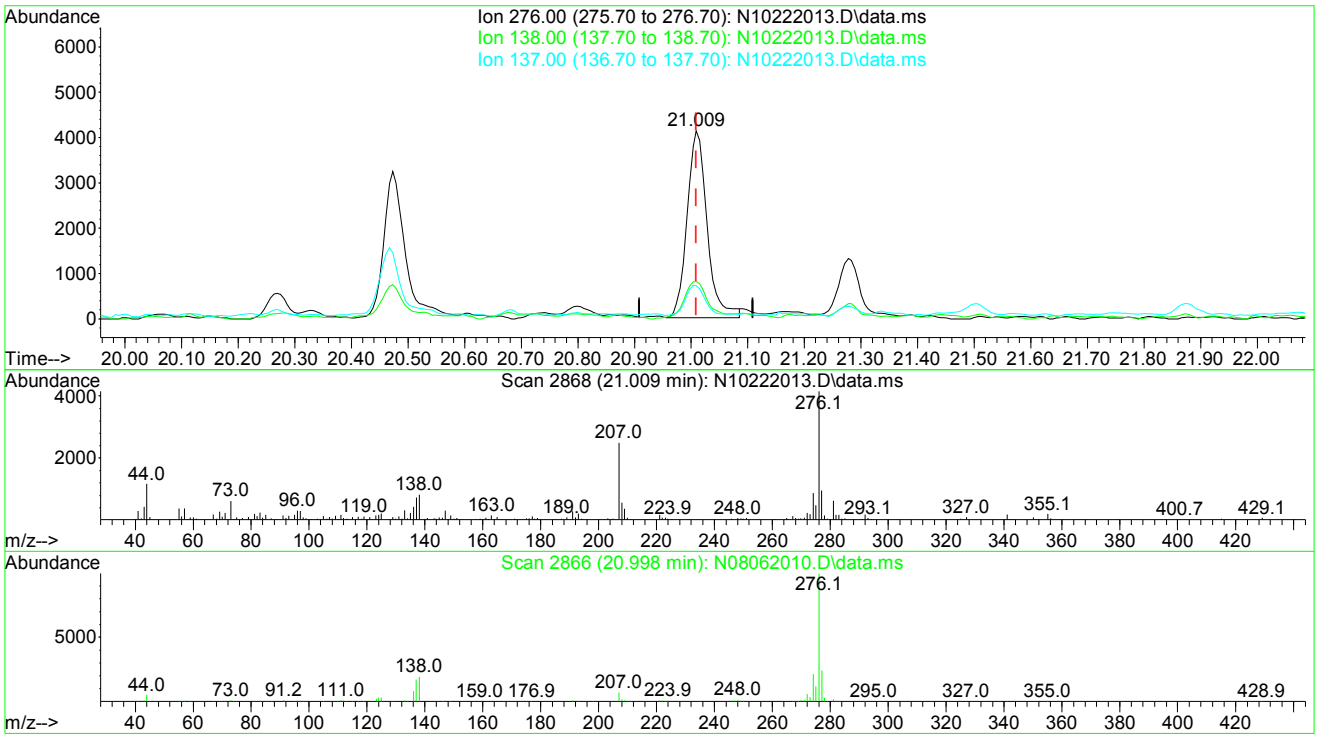
(38) Indeno(1,2,3-cd)Pyrene (T)
20.473min (+ 0.000) 3.06 ng/ml
response 8270

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	23.01
138.00	31.60	23.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222013.D
Acq On : 22 Oct 2020 09:26 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-06@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 12 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Oct 23 12:07:10 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10222013.D\data.ms

(40) Benzo(g,h,i)perylene (T)
21.009min (+ 0.000) 3.68 ng/ml
response 10113

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	19.88
137.00	28.60	17.59
0.00	0.00	0.00

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)
Benchsheet & Analysis Sequence Data

Sequence 0J23034 (A0J0371-05RE1)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0J23034	Instrument:	SV-GCMS14
Date:	**10/23/20 09:54**	Calibration:	**A0H1005**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J23034-TUN1	Sediment	QC	QC			A20J202	A20J283
2	0J23034-IBL1	Sediment	QC	QC			A20J202	
3	0J23034-CCV1	Sediment	QC	QC			A20J202	A20J299
4	0J23034-CCB1	Sediment	QC	QC			A20J202	
5	0J23034-IBL2	Sediment	QC	QC			A20J202	
6	A0J0371-05RE1	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
7	0J23034-IBL3	Sediment	QC	QC			A20J202	

Comments:

Data Entered By/Date: AMS 10/26/20

Data Reviewed By/Date: dgj 10/26/20

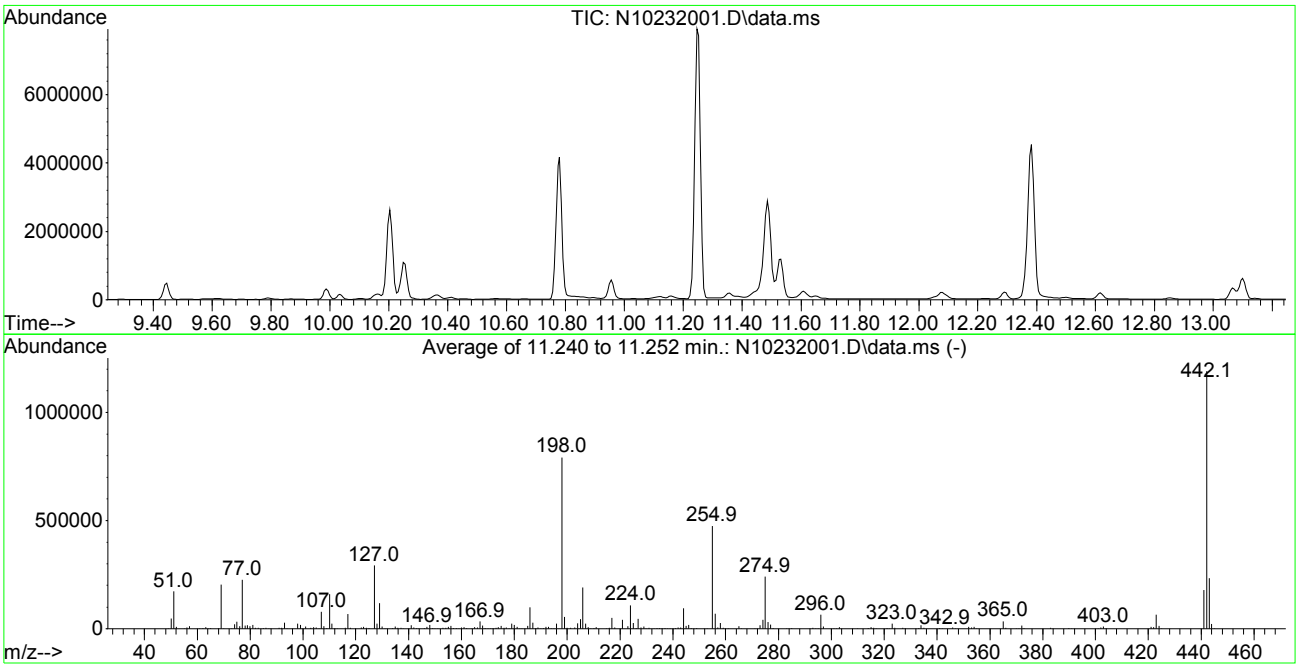
10/26/2020 9:22:57AM

AMS 10/26/20

Data Path : U:\data\2020-10\0J23034\
Data File : N10232001.D
Acq On : 23 Oct 2020 10:00 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-TUN1
Misc : 1x, A20J283 DFTPP@25
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : U:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Fri Aug 07 10:05:11 2020



AutoFind: Scans 1192, 1193, 1194; Background Corrected with Scan 1187

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	3612	PASS
69	69	100	100	100.0	204286	PASS
70	69	0.00	2	0.5	1071	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	792176	PASS
199	198	5	9	6.8	53823	PASS
365	198	1	100	4.4	34464	PASS
441	443	0.01	150	76.6	178784	PASS
442	198	0.10	200	150.4	1191403	PASS
443	442	15	24	19.6	233344	PASS

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232001.D
Acq On : 23 Oct 2020 10:00 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-TUN1
Misc : 1x, A20J283 DFTPP@25
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 26 09:12:32 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Fri Aug 07 10:05:11 2020
Response via : Initial Calibration

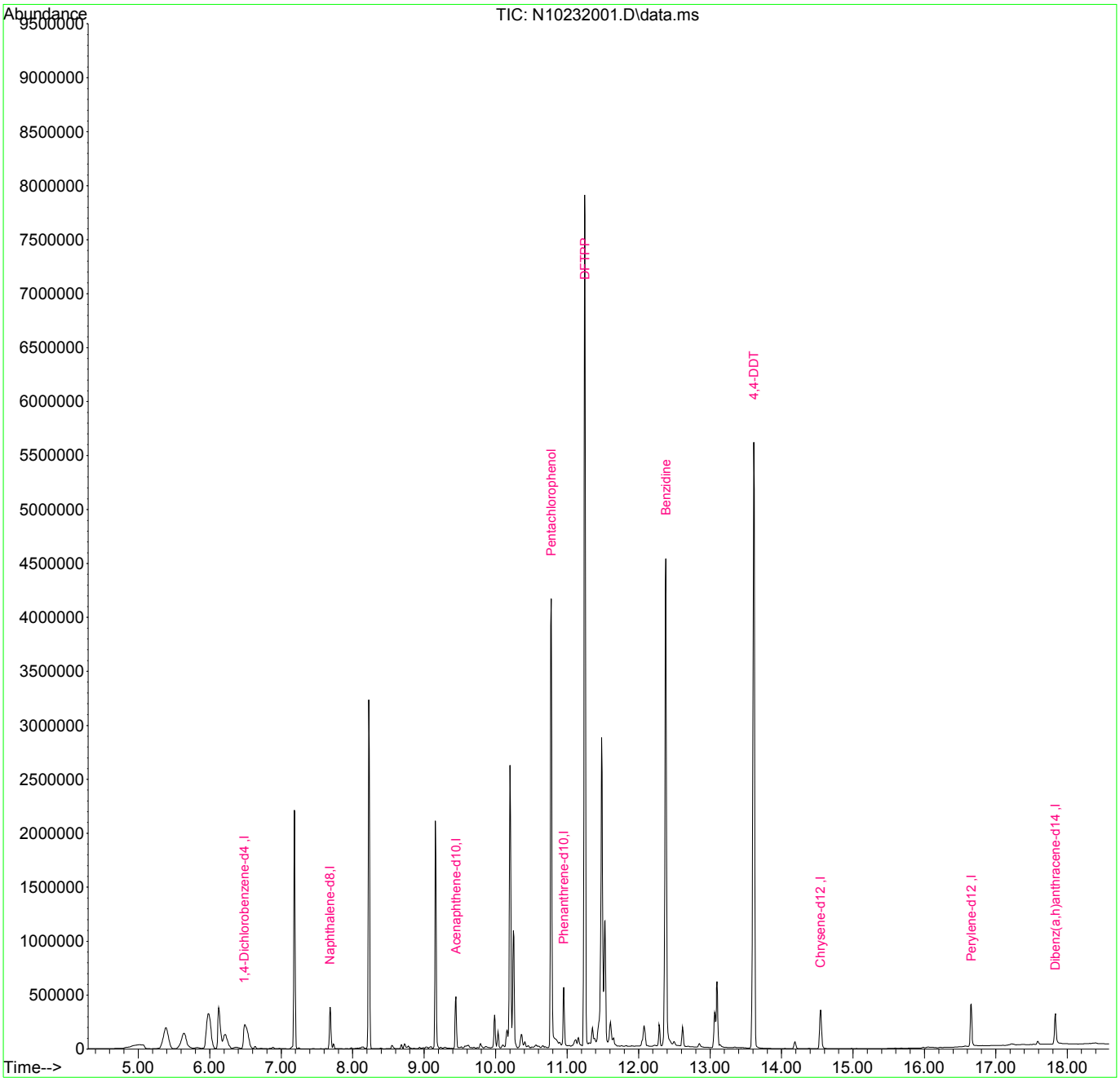
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.484	150	125333	2.00	ug/mL	0.00
2) Naphthalene-d8	7.685	136	268847	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.445	162	142676	2.00	ug/mL	0.00
5) Phenanthrene-d10	10.955	188	286061	2.00	ug/mL	0.00
11) Chrysene-d12	14.545	240	261972	2.00	ug/mL	0.00
12) Perylene-d12	16.655	264	245415	2.00	ug/mL	0.00
13) Dibenz(a,h)anthracene-...	17.833	292	222826	2.00	ug/mL	# 0.01
Target Compounds						Qvalue
4) Pentachlorophenol	10.780	266	877779	65.15	ug/mL	77
6) DFTPP	11.252	442	1943413	84.15	ug/mL#	61
7) Benzidine	12.383	184	3218273	31.63	ug/mL	96
8) 4,4-DDE	12.616	TIC	260367	No Calib		
9) 4,4-DDD	13.100	TIC	948001	No Calib		
10) 4,4-DDT	13.613	TIC	9886553	33.70	ug/mL	93

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232001.D
Acq On : 23 Oct 2020 10:00 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-TUN1
Misc : 1x, A20J283 DFTPP@25
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 26 09:12:32 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Fri Aug 07 10:05:11 2020
Response via : Initial Calibration



DDT Breakdown Check (Validated 5/1/2013)

From:
0J23034-TUN1
SV-GCMS 14

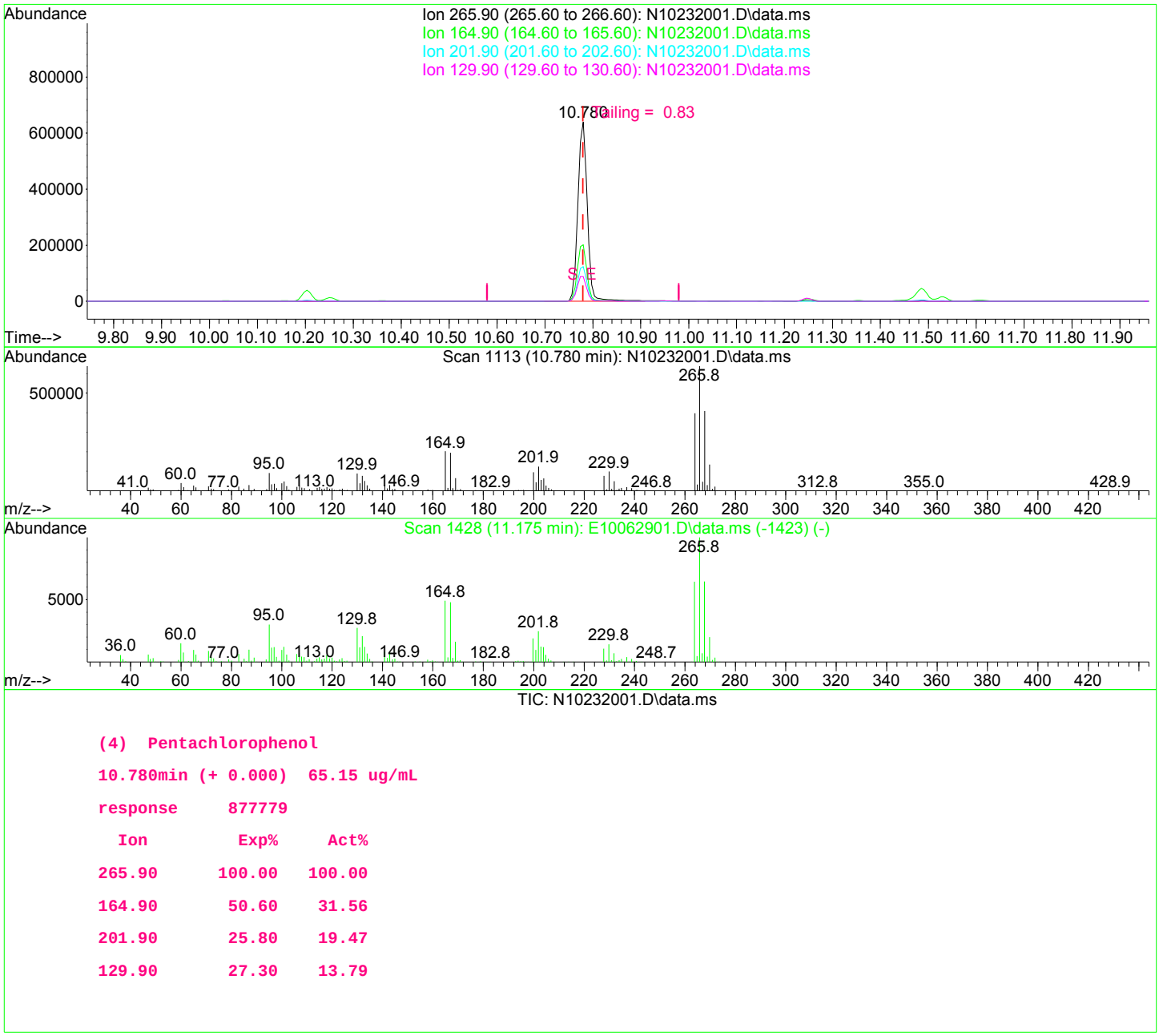
First Column	Area Counts	Percent Breakdown	
DDE	260367		
DDD	948001		
DDT	9886553	**10.89**	**PASS**

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232001.D
Acq On : 23 Oct 2020 10:00 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-TUN1
Misc : 1x, A20J283 DFTPP@25
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 26 09:12:32 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Fri Aug 07 10:05:11 2020
Response via : Initial Calibration



TIC: N10232001.D\data.ms

(4) Pentachlorophenol

10.780min (+ 0.000) 65.15 ug/mL

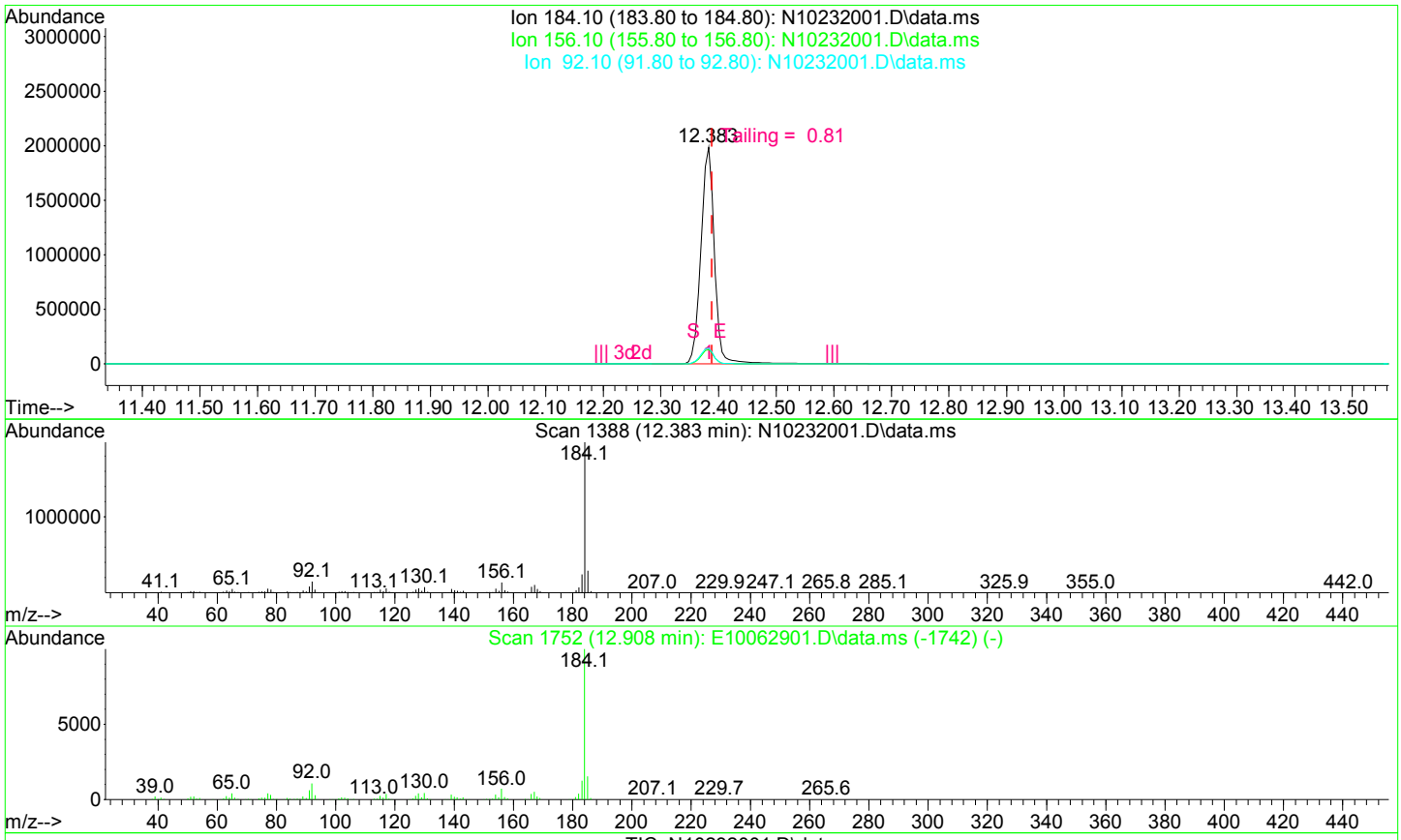
response 877779

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	31.56
201.90	25.80	19.47
129.90	27.30	13.79

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232001.D
Acq On : 23 Oct 2020 10:00 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-TUN1
Misc : 1x, A20J283 DFTPP@25
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 26 09:12:32 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Fri Aug 07 10:05:11 2020
Response via : Initial Calibration



TIC: N10232001.D\data.ms

(7) Benzidine

12.383min (-0.006) 31.63 ug/mL

response 3218273

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.69
92.10	8.20	7.28
0.00	0.00	0.00

Evaluate Continuing Calibration Report

AMS 10/26/20

Data Path : U:\data\2020-10\0J23034\
Data File : N10232003.D
Acq On : 23 Oct 2020 10:59 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-CCV1
Misc : 1x, A20J299@100
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 09:14:45 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8 (ISTD)	100.000	100.000	0.0	106	0.00
2	S	Nitrobenzene-d5 (Surr)	100.000	98.823	1.2	103	0.00
3	T	Decalin	100.000	93.728	6.3	96	0.00
4	T	Naphthalene	100.000	95.677	4.3	104	0.00
5	T	2-Methylnaphthalene	100.000	101.097	-1.1	102	0.00
6	T	1-Methylnaphthalene	100.000	97.065	2.9	100	0.00
7	T	1,1'-Biphenyl	100.000	101.670	-1.7	103	0.00
8	T	2,6-Dimethylnaphthalene	100.000	103.397	-3.4	103	0.00
9	I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	101	0.00
10	S	2-Fluorobiphenyl (Surr)	100.000	100.098	-0.1	99	0.00
11	T	Acenaphthylene	100.000	104.180	-4.2	99	0.00
12	T	Acenaphthene	100.000	99.787	0.2	102	0.00
13	T	Dibenzofuran	100.000	112.306	-12.3	108	0.00
14	T	1,6,7-Trimethylnaphthalene	100.000	100.180	-0.2	98	0.00
15	T	Fluorene	100.000	108.549	-8.5	102	0.00
16	I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	102	0.00
17	S	2,4,6-Tribromophenol (Surr)	100.000	94.525	5.5	95	0.00
18	T	Pentachlorophenol (PCP)	100.000	99.412	0.6	103	0.00
19	T	Dibenzothiopene	100.000	102.283	-2.3	103	0.00
20	T	Phenanthrene	100.000	97.122	2.9	101	0.00
21	T	Anthracene	100.000	110.627	-10.6	107	0.00
22	T	Carbazole	100.000	110.580	-10.6	104	0.00
23	T	1-Methylphenanthrene	100.000	101.010	-1.0	99	0.00
24	T	Fluoranthene	100.000	104.207	-4.2	99	0.00
25	I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	112	0.00
26	T	Pyrene	100.000	92.253	7.7	99	0.00
27	S	Terphenyl-d14 (Surr)	100.000	102.619	-2.6	112	0.00
28	T	Benz(a)anthracene	100.000	97.705	2.3	114	0.00
29	T	Chrysene	100.000	99.845	0.2	111	0.00
30	I	Perylene-d12 (ISTD)	100.000	100.000	0.0	116	0.00

Data Path : U:\data\2020-10\0J23034\
Data File : N10232003.D
Acq On : 23 Oct 2020 10:59 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-CCV1
Misc : 1x, A20J299@100
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 09:14:45 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
31	T	Benzo(b)fluoranthene	100.000	100.109	-0.1	112	0.00
32	T	Benzo(k)fluoranthene	100.000	100.426	-0.4	111	0.00
33	T	Benzo(b+k)fluoranthene	200.000	200.960	-0.5	112	0.00
34	T	Benzo(e)pyrene	100.000	99.967	0.0	110	0.00
35	T	Benzo(a)pyrene	100.000	102.578	-2.6	112	0.00
36	T	Perylene	100.000	97.586	2.4	112	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	100.000	92.740	7.3	106	0.00
39	T	Dibenz(a,h)anthracene	100.000	95.174	4.8	106	0.00
40	T	Benzo(g,h,i)perylene	100.000	98.083	1.9	107	0.00

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232003.D
Acq On : 23 Oct 2020 10:59 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-CCV1
Misc : 1x, A20J299@100
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 09:14:45 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.737	136	253522	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	162584	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.995	188	317283	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.638	240	307582	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	282846	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	220112	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.049	82	70184	98.82	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	232693	100.10	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	37715	94.53	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.732	244	303475	102.62	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.213	138	14107	93.73	ng/ml	82
4) Naphthalene	7.761	128	250134	95.68	ng/ml	99
5) 2-Methylnaphthalene	8.443	142	191115	101.10	ng/ml	96
6) 1-Methylnaphthalene	8.542	142	183617	97.07	ng/ml	97
7) 1,1'-Biphenyl	8.909	154	244596	101.67	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.066	156	182298	103.40	ng/ml	96
11) Acenaphthylene	9.346	152	283896	104.18	ng/ml	98
12) Acenaphthene	9.521	153	198704	99.79	ng/ml	100
13) Dibenzofuran	9.696	168	281170	112.31	ng/ml	93
14) 1,6,7-Trimethylnaphtha...	9.906	170	180875	100.18	ng/ml	100
15) Fluorene	10.045	166	220052	108.55	ng/ml	99
18) Pentachlorophenol (PCP)	10.815	266	16619	99.41	ng/ml	99
19) Dibenzothiopene	10.891	184	315142	102.28	ng/ml	94
20) Phenanthrene	11.019	178	333510	97.12	ng/ml	100
21) Anthracene	11.071	178	311159	110.63	ng/ml	99
22) Carbazole	11.234	167	231203	110.58	ng/ml	98
23) 1-Methylphenanthrene	11.642	192	249399	101.01	ng/ml	97
24) Fluoranthene	12.260	202	371201	104.21	ng/ml	95
26) Pyrene	12.534	202	379944	92.25	ng/ml	99
28) Benz(a)anthracene	14.615	228	300436	97.70	ng/ml	100
29) Chrysene	14.697	228	317235	99.84	ng/ml	99
31) Benzo(b)fluoranthene	17.180	252	287114	100.11	ng/ml	91
32) Benzo(k)fluoranthene	17.244	252	271727	100.43	ng/ml	90

Data Path : U:\data\2020-10\0J23034\
Data File : N10232003.D
Acq On : 23 Oct 2020 10:59 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-CCV1
Misc : 1x, A20J299@100
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 09:14:45 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

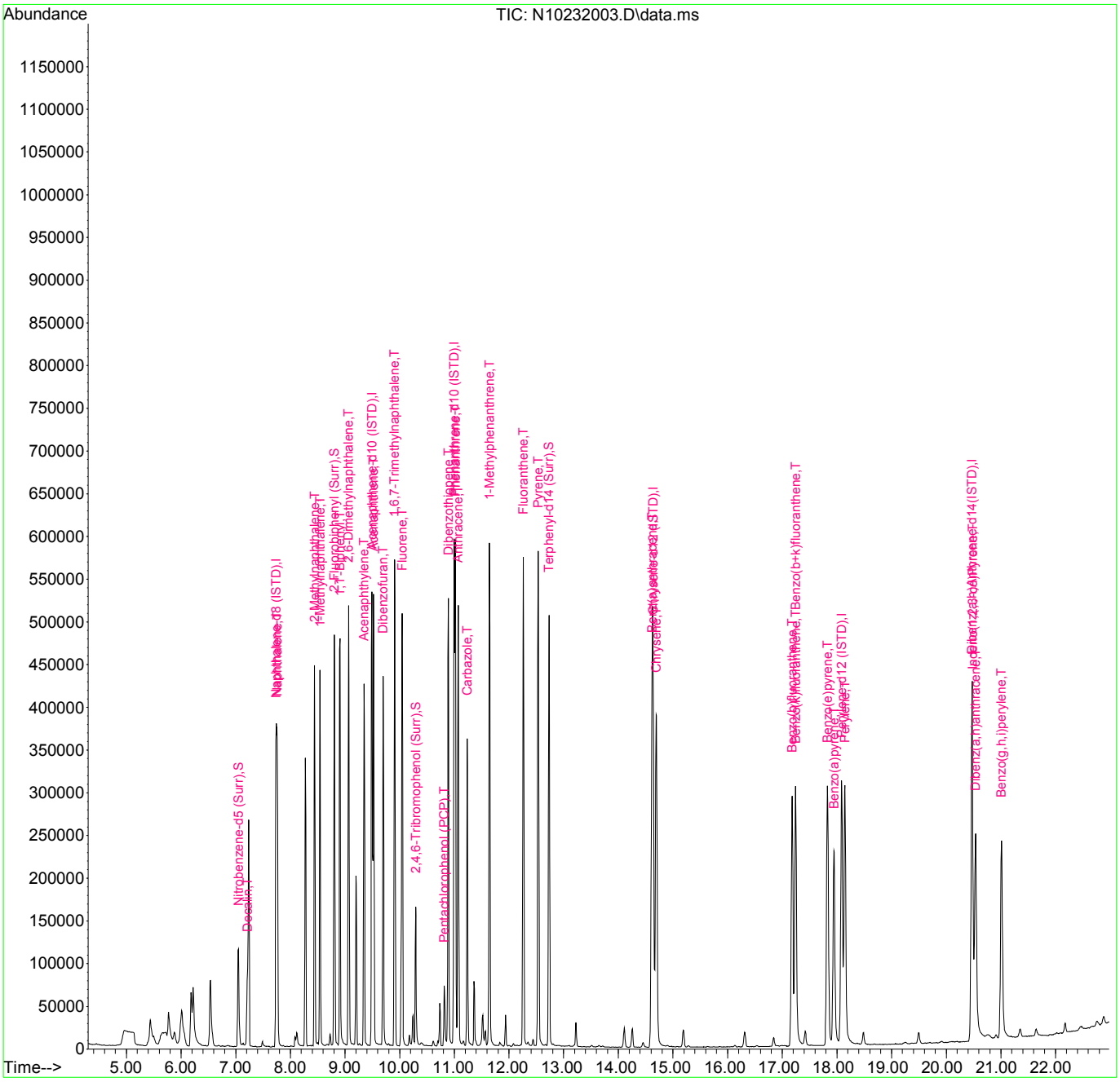
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzo(b+k)fluoranthene	17.244	252	586574	200.96	ng/ml	90
34) Benzo(e)pyrene	17.827	252	285134	99.97	ng/ml	98
35) Benzo(a)pyrene	17.949	252	213298	102.58	ng/ml	95
36) Perylene	18.147	252	301291	97.59	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.479	276	219698	92.74	ng/ml	74
39) Dibenz(a,h)anthracene	20.537	278	221682	95.17	ng/ml	78
40) Benzo(g,h,i)perylene	21.009	276	236243	98.08	ng/ml	76

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232003.D
Acq On : 23 Oct 2020 10:59 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-CCV1
Misc : 1x, A20J299@100
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 09:14:45 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

AMS 10/26/20

Data Path : U:\data\2020-10\0J23034\
Data File : N10232004.D
Acq On : 23 Oct 2020 11:31 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 09:15:21 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	251766	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	158870	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	302890	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	242940	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	225473	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	193610	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	
17) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
27) Terphenyl-d14 (Surr)	12.733	244	142	0.06	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.766	128	201	N.D.		
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	0.000		0	N.D.		
7) 1,1'-Biphenyl	8.909	154	145	N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
11) Acenaphthylene	9.346	152	61	N.D.		
12) Acenaphthene	0.000		0	N.D.		
13) Dibenzofuran	9.702	168	121	N.D.		
14) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
15) Fluorene	0.000		0	N.D.		
18) Pentachlorophenol (PCP)	10.827	266	93	9.55	ng/ml	87
19) Dibenzothiopene	0.000		0	N.D.		
20) Phenanthrene	11.019	178	251	N.D.		
21) Anthracene	11.077	178	168	N.D.		
22) Carbazole	11.246	167	158	N.D.		
23) 1-Methylphenanthrene	0.000		0	N.D.		
24) Fluoranthene	12.260	202	89	N.D.		
26) Pyrene	12.540	202	71	N.D.		
28) Benz(a)anthracene	14.633	228	656	N.D.		
29) Chrysene	14.691	228	182	N.D.		
31) Benzo(b)fluoranthene	17.186	252	122	N.D.		
32) Benzo(k)fluoranthene	17.250	252	118	N.D.		

Data Path : U:\data\2020-10\0J23034\
Data File : N10232004.D
Acq On : 23 Oct 2020 11:31 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 09:15:21 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

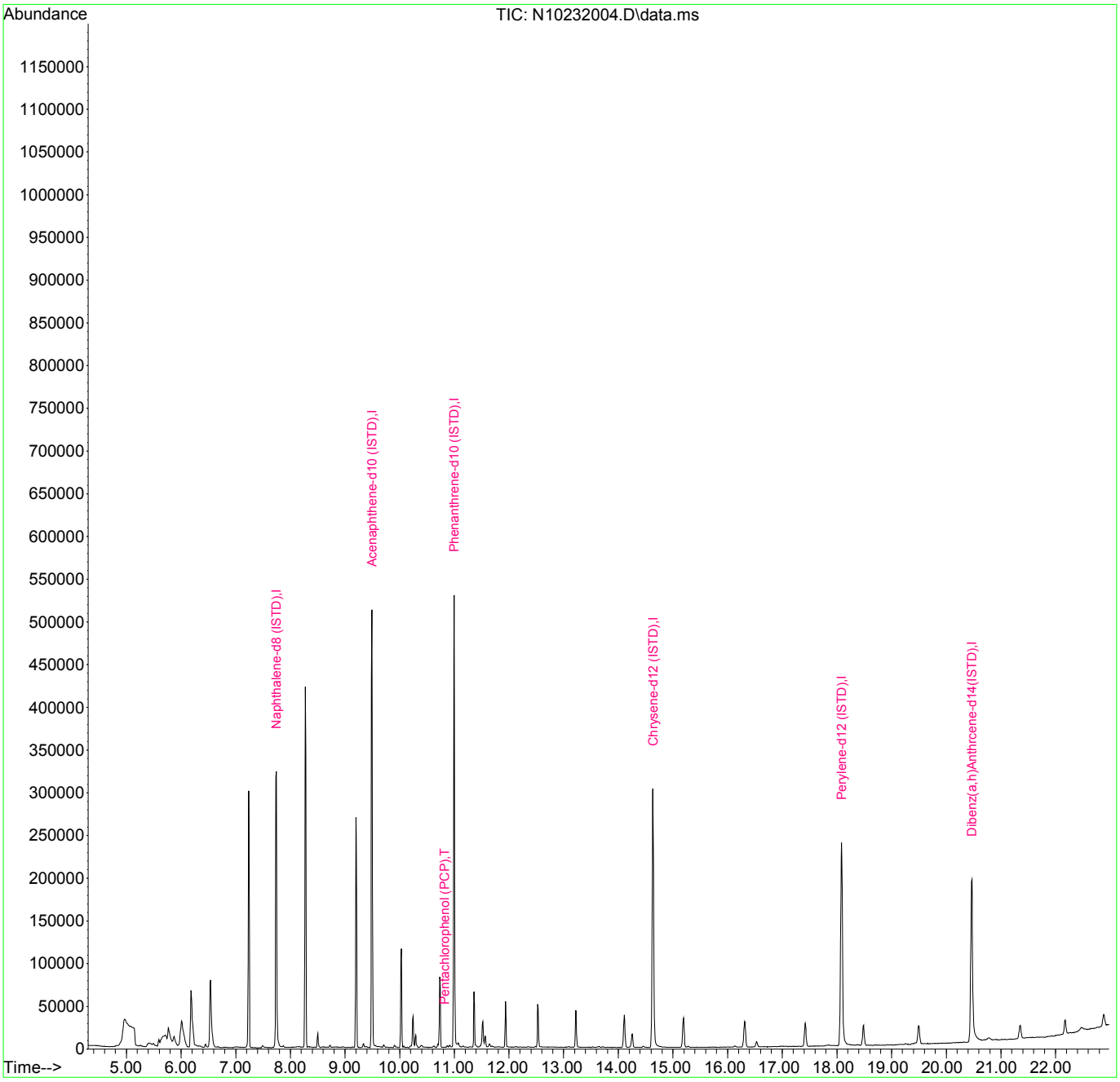
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzo(b+k)fluoranthene	17.250	252	118	N.D.		
34) Benzo(e)pyrene	17.833	252	67	N.D.		
35) Benzo(a)pyrene	0.000		0	N.D.		
36) Perylene	18.141	252	130	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.479	276	194	N.D.		
39) Dibenz(a,h)anthracene	20.549	278	141	N.D.		
40) Benzo(g,h,i)perylene	21.021	276	68	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232004.D
Acq On : 23 Oct 2020 11:31 am
Operator : JK/ AMS/ DTH
Sample : 0J23034-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 26 09:15:21 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

AMS 10/26/20

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:19:04 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.738	136	257576	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	163352	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	322942	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	309036	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	307302	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	258106	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	1283	1.78	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	4115	1.76	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	896	4.12	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	6870	2.31	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	6155	2.32	ng/ml	97
5) 2-Methylnaphthalene	8.443	142	1590	0.83	ng/ml	94
6) 1-Methylnaphthalene	8.542	142	1229	0.64	ng/ml	100
7) 1,1'-Biphenyl	8.909	154	866	N.D.		
8) 2,6-Dimethylnaphthalene	9.072	156	1914	1.07	ng/ml	95
11) Acenaphthylene	9.346	152	3902	1.43	ng/ml	95
12) Acenaphthene	9.521	153	14884	7.44	ng/ml	99
13) Dibenzofuran	9.696	168	1387	0.55	ng/ml	88
14) 1,6,7-Trimethylnaphtha...	9.906	170	1077	0.59	ng/ml	89
15) Fluorene	10.046	166	6083m	2.99	ng/ml	
18) Pentachlorophenol (PCP)	10.821	266	444	11.71	ng/ml	95
19) Dibenzothiopene	10.891	184	6040	1.93	ng/ml	94
20) Phenanthrene	11.019	178	70342	20.13	ng/ml	99
21) Anthracene	11.072	178	8224	2.87	ng/ml	98
22) Carbazole	11.241	167	861	0.40	ng/ml	76
23) 1-Methylphenanthrene	11.643	192	2963	1.18	ng/ml	99
24) Fluoranthene	12.261	202	60559	16.70	ng/ml	95
26) Pyrene	12.534	202	70761	17.10	ng/ml	99
28) Benz(a)anthracene	14.609	228	13987	4.53	ng/ml	74
29) Chrysene	14.691	228	17243	5.40	ng/ml	96
31) Benzo(b)fluoranthene	17.180	252	17777	5.71	ng/ml	91
32) Benzo(k)fluoranthene	17.238	252	6917m	2.35	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:19:04 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

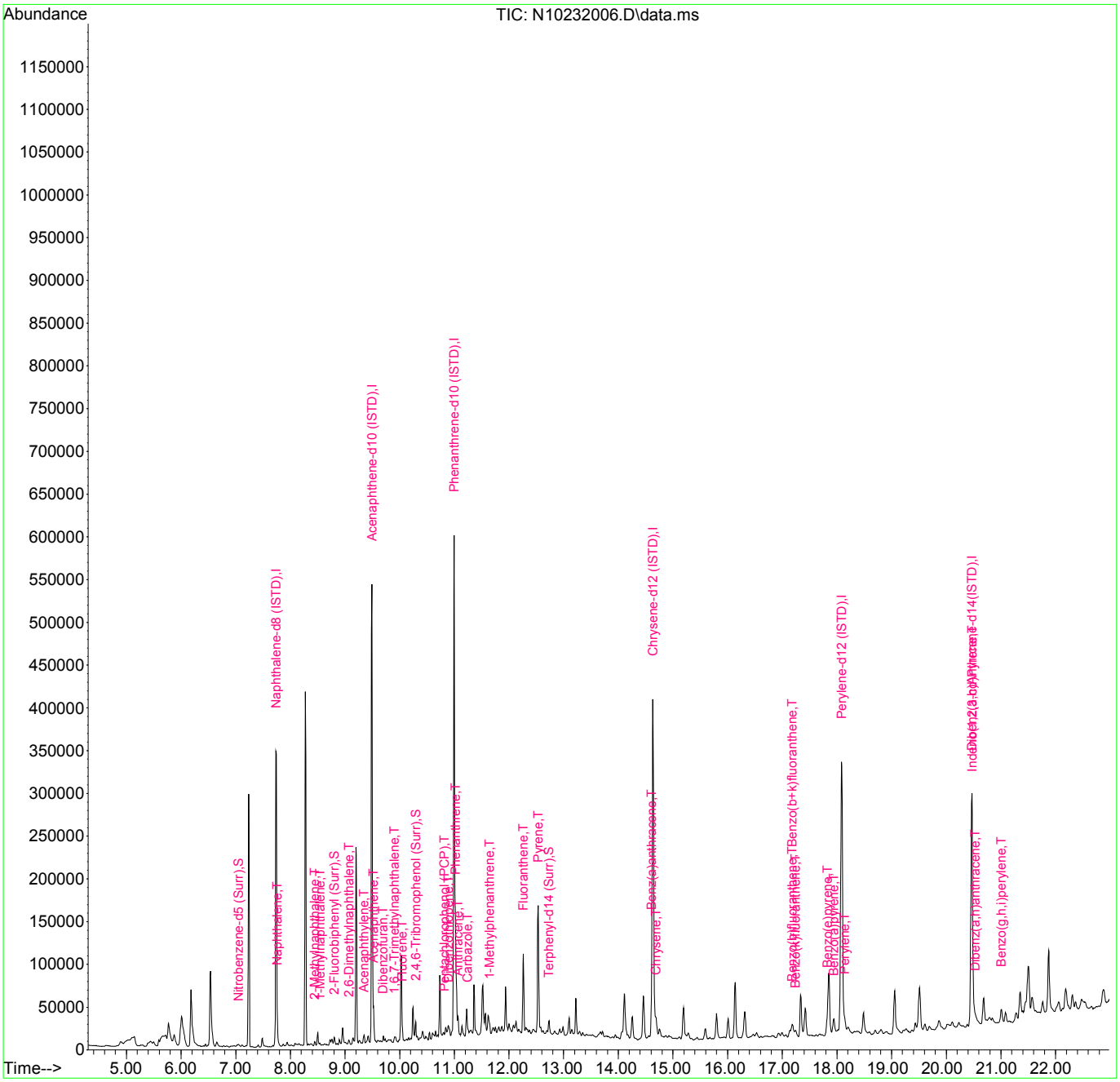
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzo(b+k)fluoranthene	17.180	252	26214	8.27	ng/ml	89
34) Benzo(e)pyrene	17.827	252	12779	4.12	ng/ml	99
35) Benzo(a)pyrene	17.943	252	15387	6.81	ng/ml	96
36) Perylene	18.142	252	10368	3.09	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.473	276	12965	4.67	ng/ml	85
39) Dibenz(a,h)anthracene	20.531	278	1594	0.58	ng/ml	79
40) Benzo(g,h,i)perylene	21.009	276	16182	5.73	ng/ml	78

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

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:19:04 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.738	136	257576	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	163352	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	322942	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	309036	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	307302	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	258106	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	1283	1.78	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	4115	1.76	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	896	4.12	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	6870	2.31	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	6155	2.32	ng/ml	97
5) 2-Methylnaphthalene	8.443	142	1590	0.83	ng/ml	94
6) 1-Methylnaphthalene	8.542	142	1229	0.64	ng/ml	100
7) 1,1'-Biphenyl	8.909	154	866	N.D.		
8) 2,6-Dimethylnaphthalene	9.072	156	1914	1.07	ng/ml	95
11) Acenaphthylene	9.346	152	3902	1.43	ng/ml	95
12) Acenaphthene	9.521	153	14884	7.44	ng/ml	99
13) Dibenzofuran	9.696	168	1387	0.55	ng/ml	88
14) 1,6,7-Trimethylnaphtha...	9.906	170	1077	0.59	ng/ml	89
15) Fluorene	10.046	166	6282	3.08	ng/ml	99
18) Pentachlorophenol (PCP)	10.821	266	444	11.71	ng/ml	95
19) Dibenzothiopene	10.891	184	6040	1.93	ng/ml	94
20) Phenanthrene	11.019	178	70342	20.13	ng/ml	99
21) Anthracene	11.072	178	8224	2.87	ng/ml	98
22) Carbazole	11.241	167	861	0.40	ng/ml	76
23) 1-Methylphenanthrene	11.643	192	2963	1.18	ng/ml	99
24) Fluoranthene	12.261	202	60559	16.70	ng/ml	95
26) Pyrene	12.534	202	70761	17.10	ng/ml	99
28) Benz(a)anthracene	14.609	228	13987	4.53	ng/ml	74
29) Chrysene	14.691	228	17243	5.40	ng/ml	96
31) Benzo(b)fluoranthene	17.180	252	17777	5.71	ng/ml	91
32) Benzo(k)fluoranthene	17.180	252	22566	7.68	ng/ml	89

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

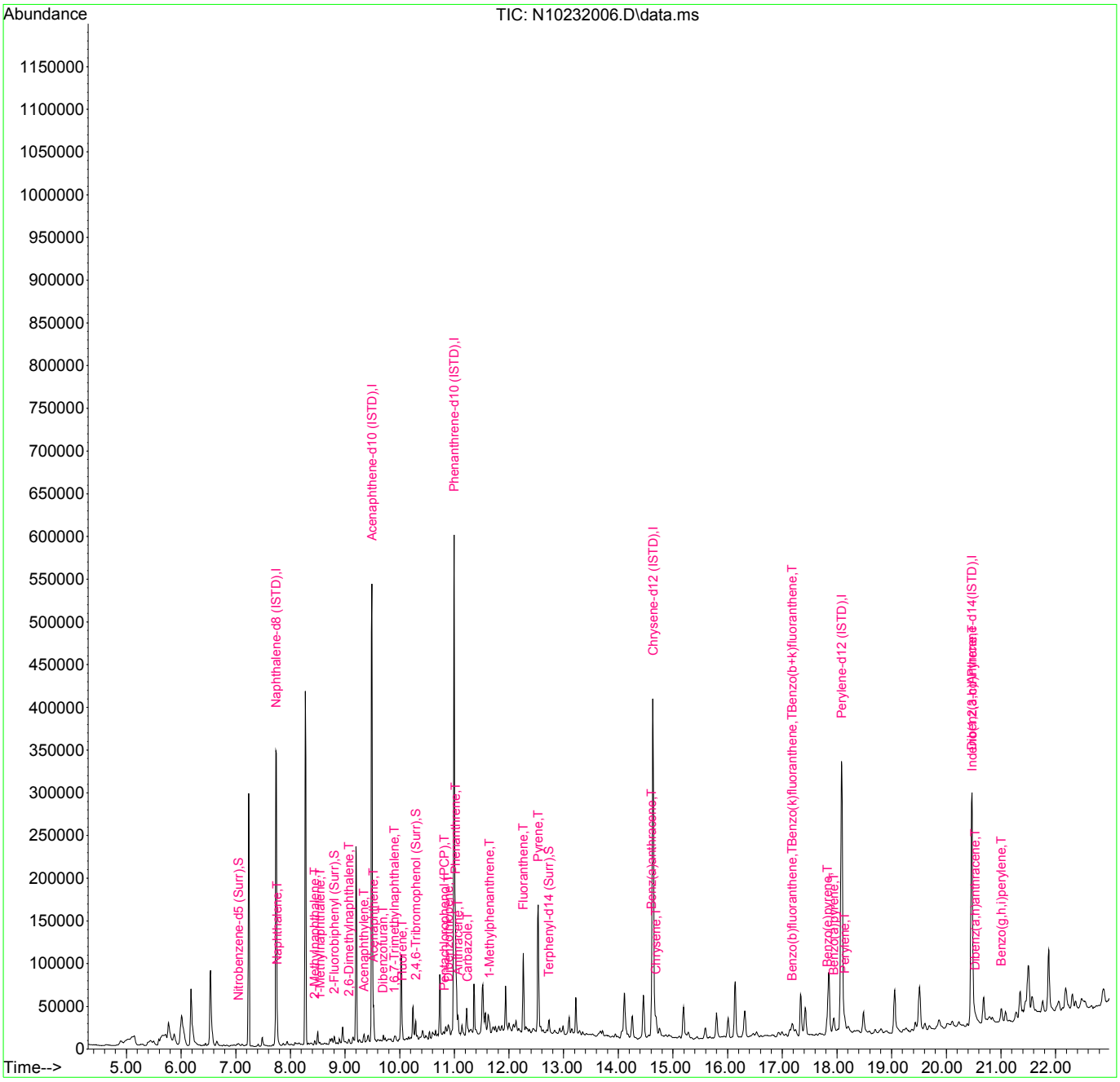
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzo(b+k)fluoranthene	17.180	252	26214	8.27	ng/ml	89
34) Benzo(e)pyrene	17.827	252	12779	4.12	ng/ml	99
35) Benzo(a)pyrene	17.943	252	15387	6.81	ng/ml	96
36) Perylene	18.142	252	10368	3.09	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.473	276	12965	4.67	ng/ml	85
39) Dibenz(a,h)anthracene	20.531	278	1594	0.58	ng/ml	79
40) Benzo(g,h,i)perylene	21.009	276	16182	5.73	ng/ml	78

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

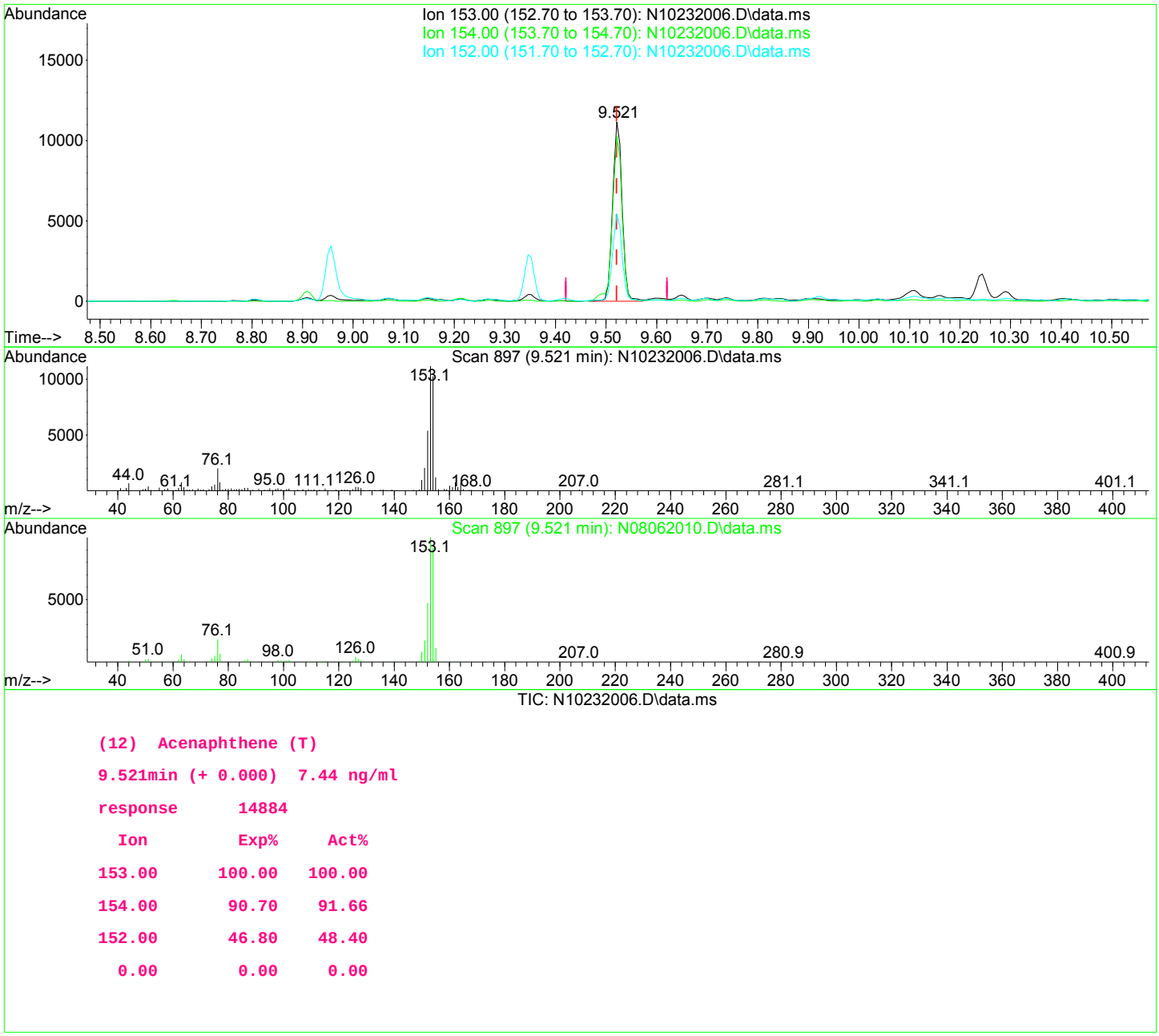
Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10232006.D\data.ms

(12) Acenaphthene (T)

9.521min (+ 0.000) 7.44 ng/ml

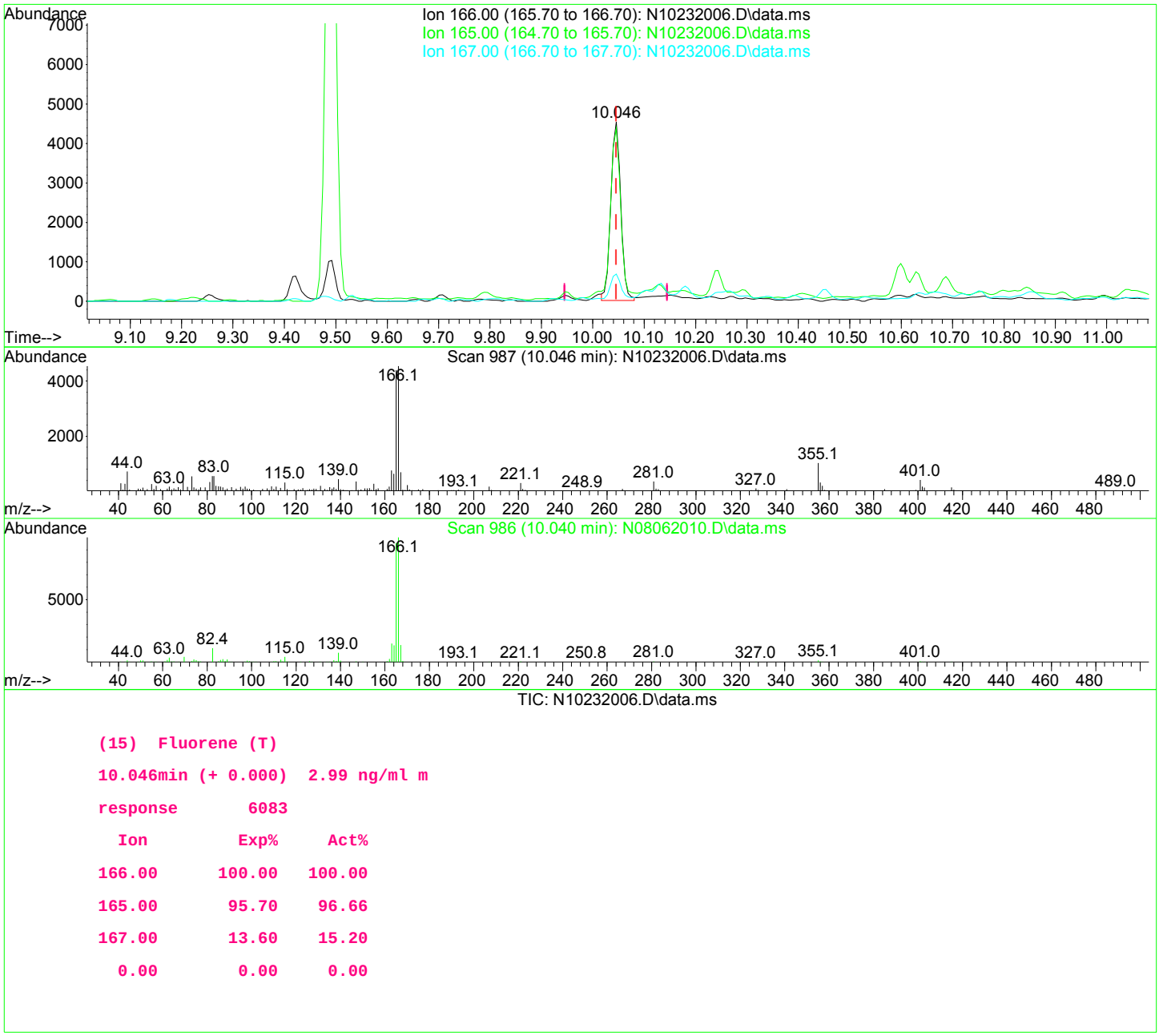
response 14884

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	91.66
152.00	46.80	48.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10232006.D\data.ms

(15) Fluorene (T)

10.046min (+ 0.000) 2.99 ng/ml m

response 6083

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	96.66
167.00	13.60	15.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

TIC: N10232006.D\data.ms

(20) Phenanthrene (T)

11.019min (+ 0.000) 20.13 ng/ml

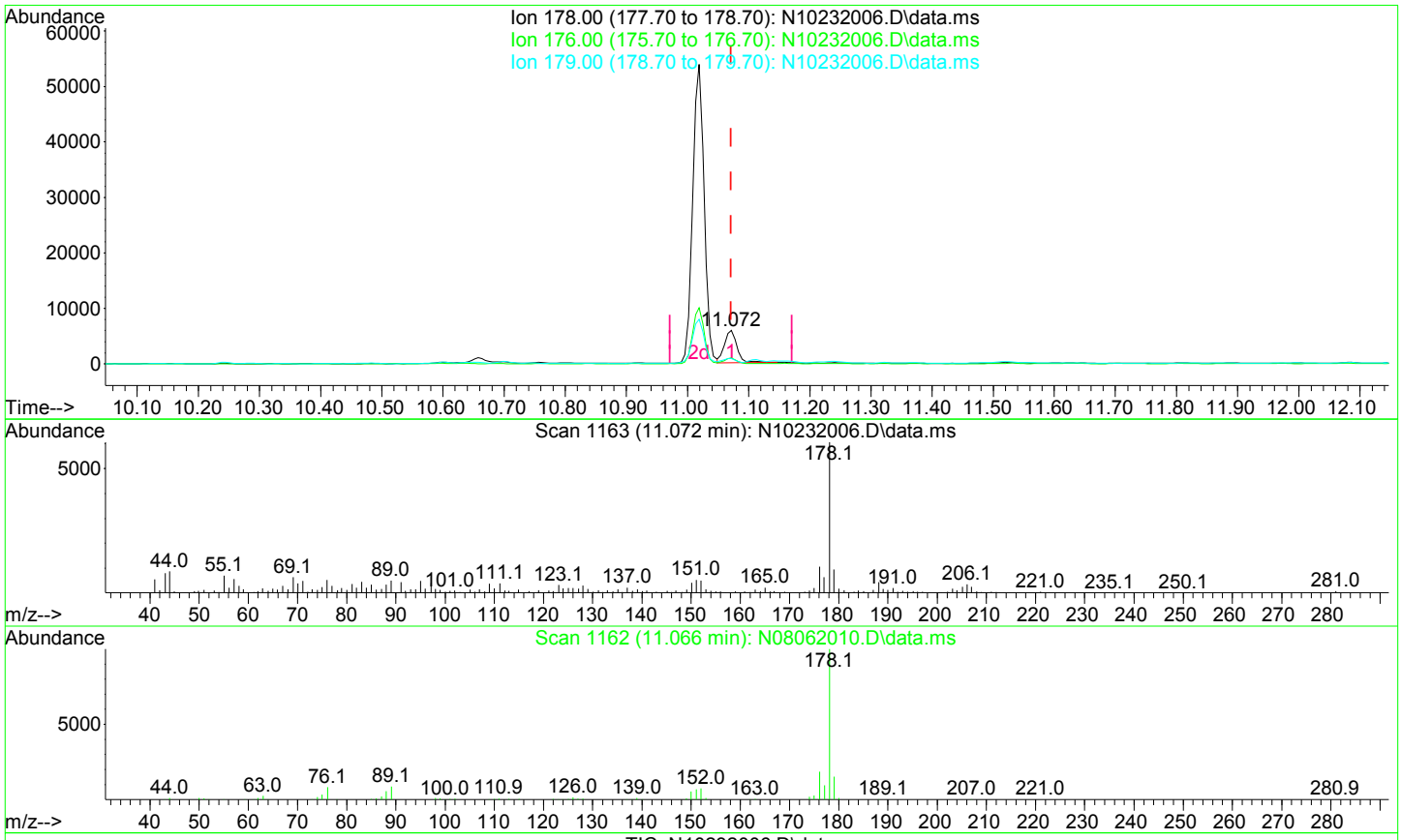
response 70342

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.67
179.00	15.10	14.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10232006.D\data.ms

(21) Anthracene (T)

11.072min (+ 0.000) 2.87 ng/ml

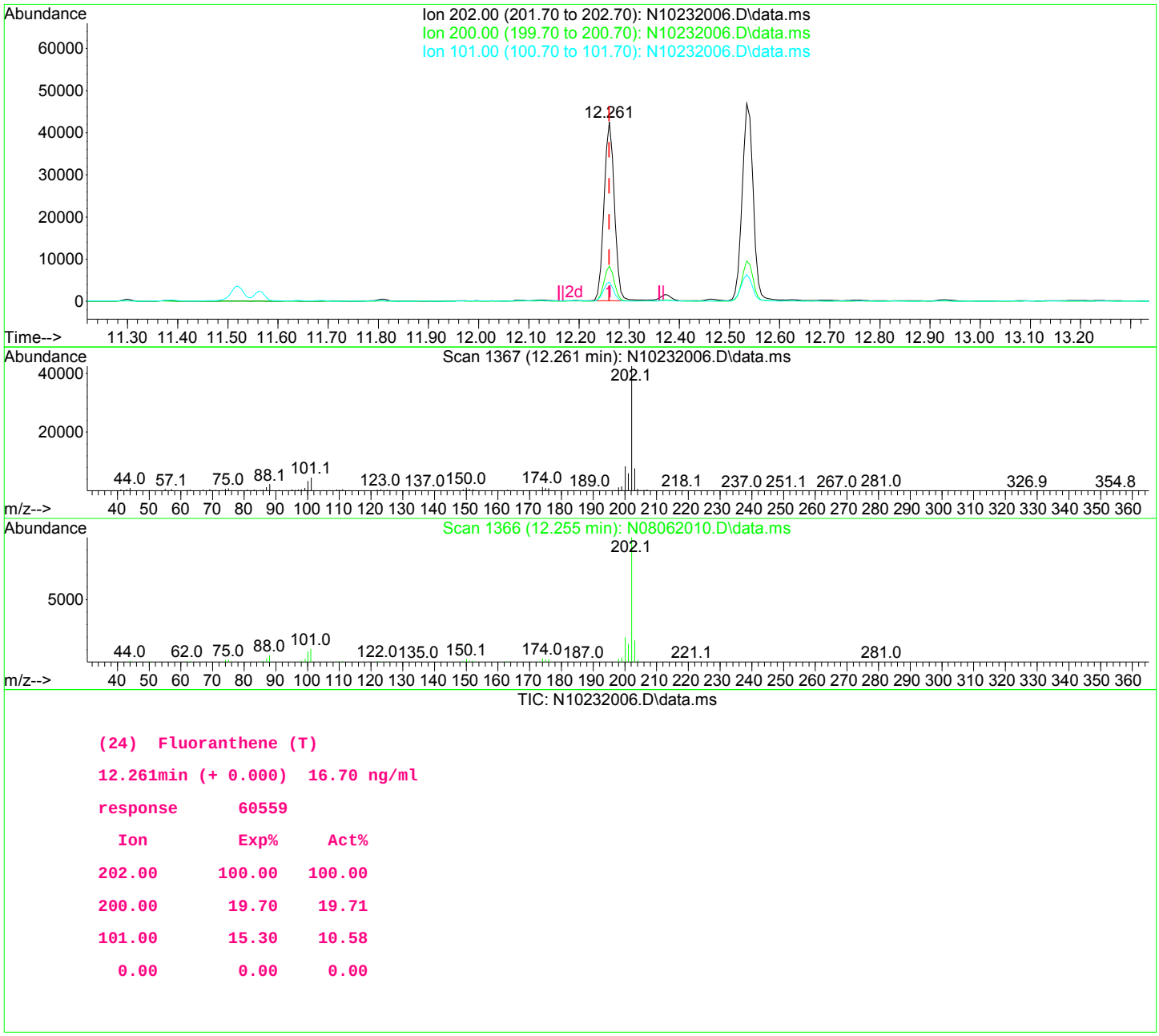
response 8224

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	17.51
179.00	15.30	15.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10232006.D\data.ms

(24) Fluoranthene (T)

12.261min (+ 0.000) 16.70 ng/ml

response 60559

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.71
101.00	15.30	10.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

TIC: N10232006.D\data.ms

(26) Pyrene (T)

12.534min (+ 0.000) 17.10 ng/ml

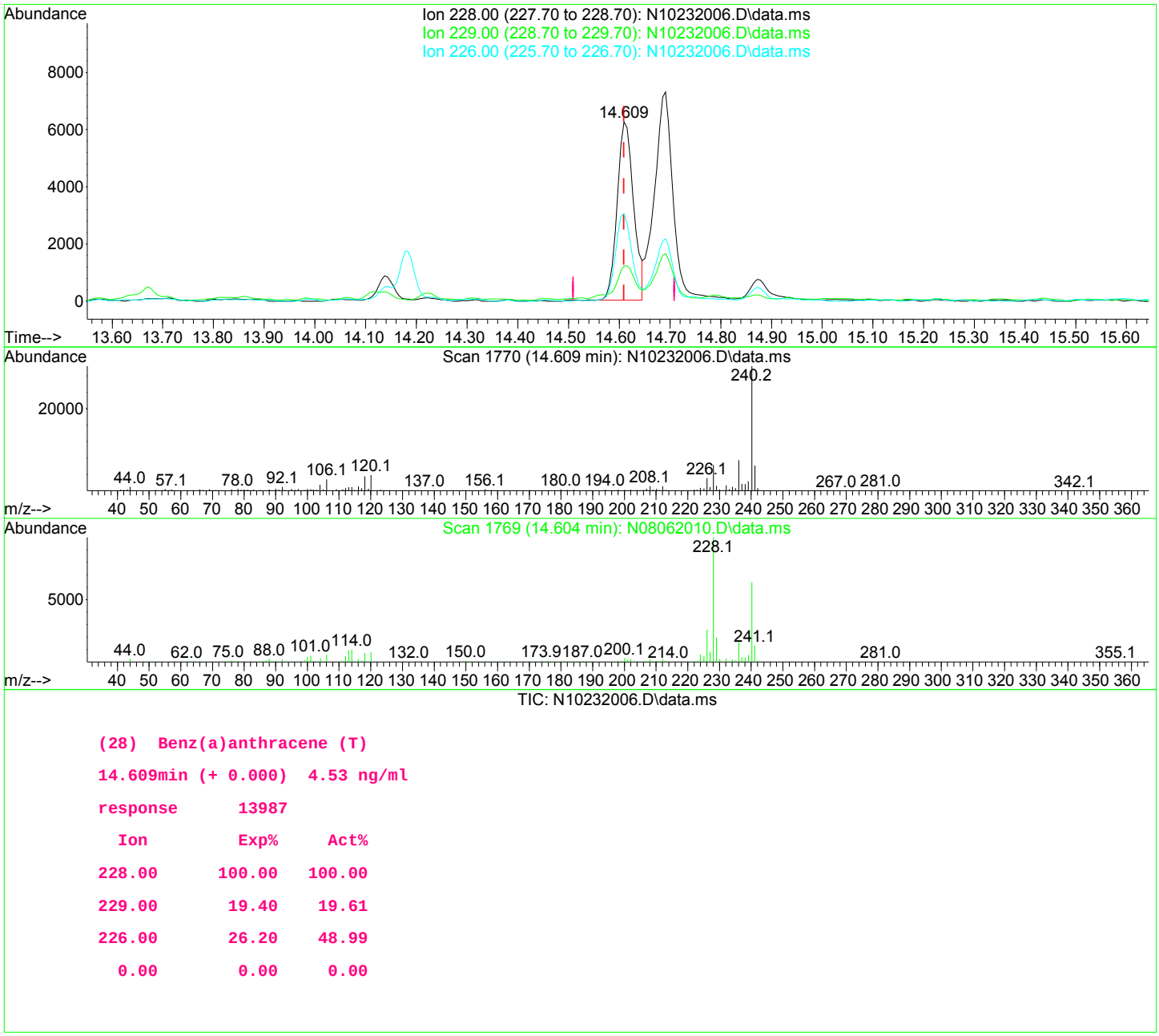
response 70761

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.36
201.00	16.80	17.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10232006.D\data.ms

(28) Benz(a)anthracene (T)

14.609min (+ 0.000) 4.53 ng/ml

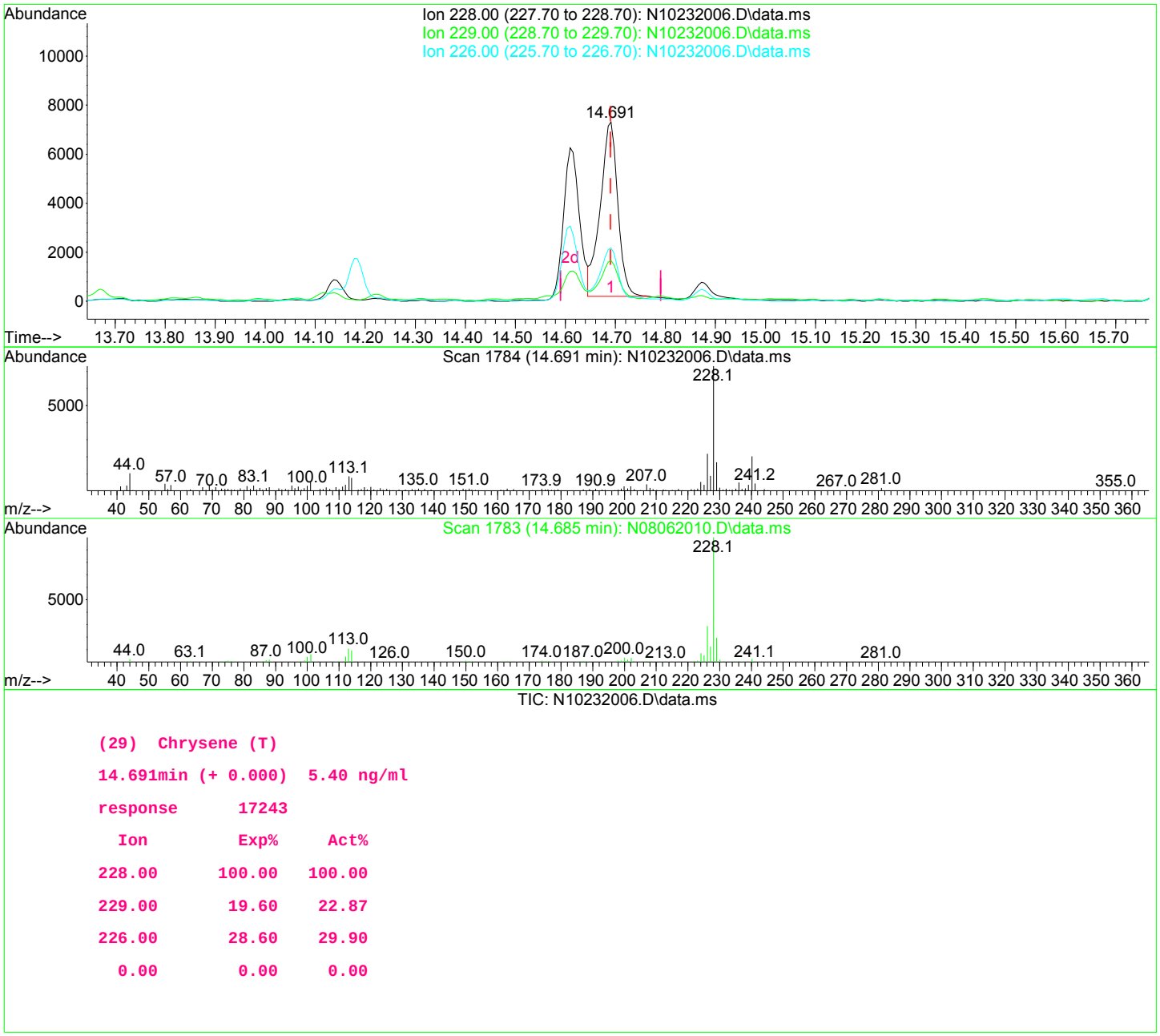
response 13987

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	19.61
226.00	26.20	48.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10232006.D\data.ms

(29) Chrysene (T)

14.691min (+ 0.000) 5.40 ng/ml

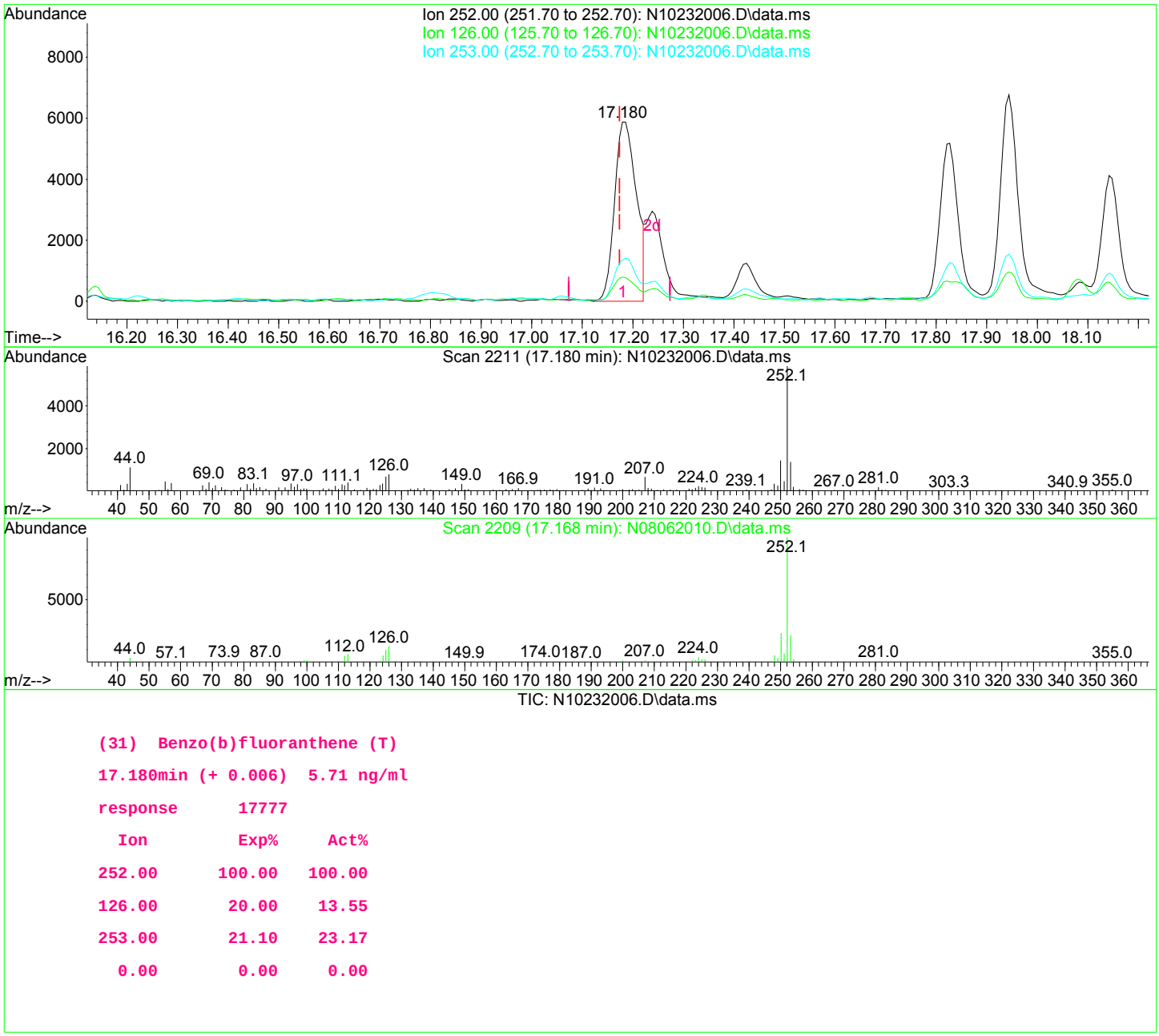
response 17243

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	22.87
226.00	28.60	29.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10232006.D\data.ms

(31) Benzo(b)fluoranthene (T)

17.180min (+ 0.006) 5.71 ng/ml

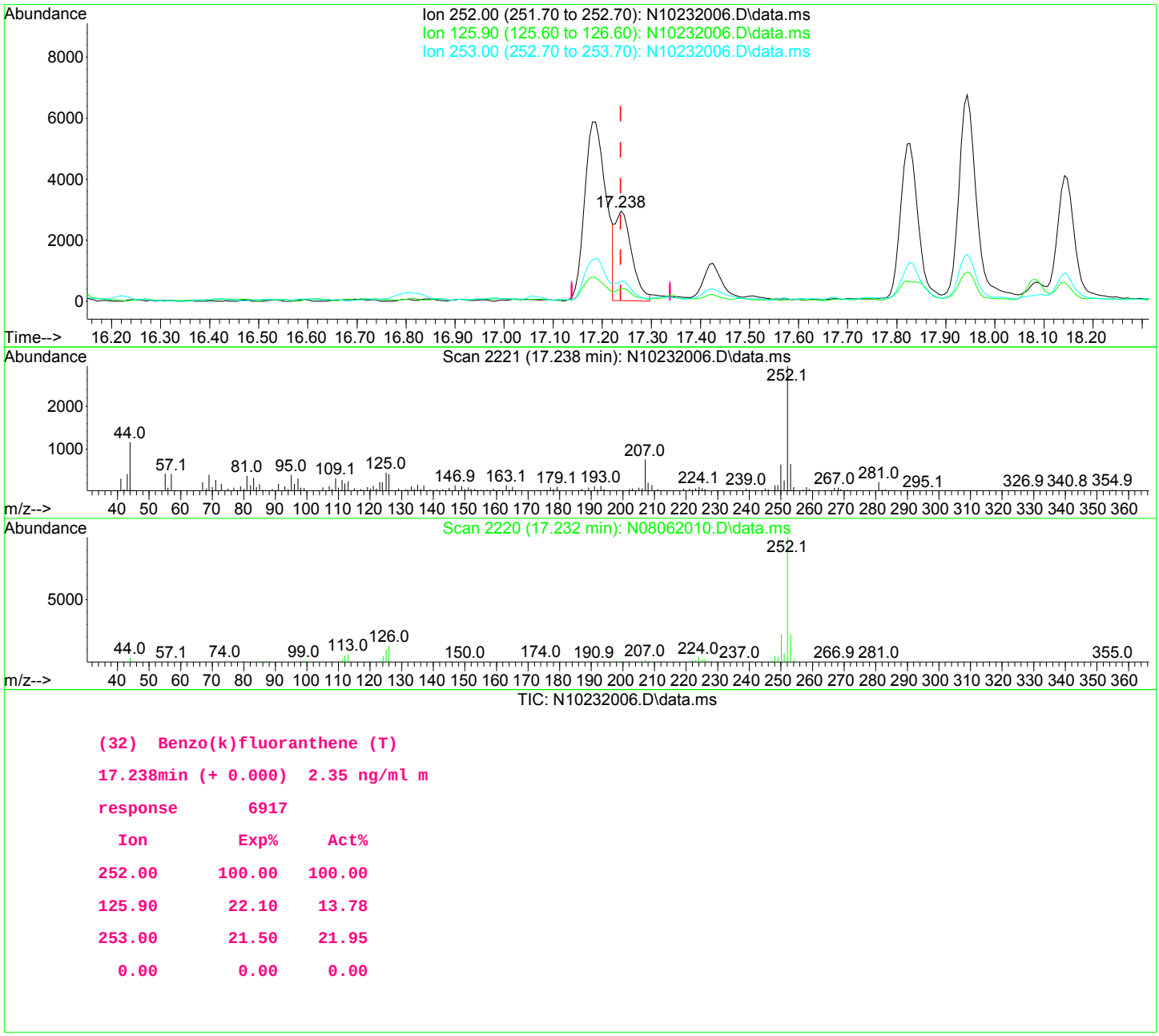
response 17777

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	13.55
253.00	21.10	23.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10232006.D\data.ms

(32) Benzo(k)fluoranthene (T)

17.238min (+ 0.000) 2.35 ng/ml m

response 6917

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	13.78
253.00	21.50	21.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

TIC: N10232006.D\data.ms

(35) Benzo(a)pyrene (T)

17.943min (+ 0.000) 6.81 ng/ml

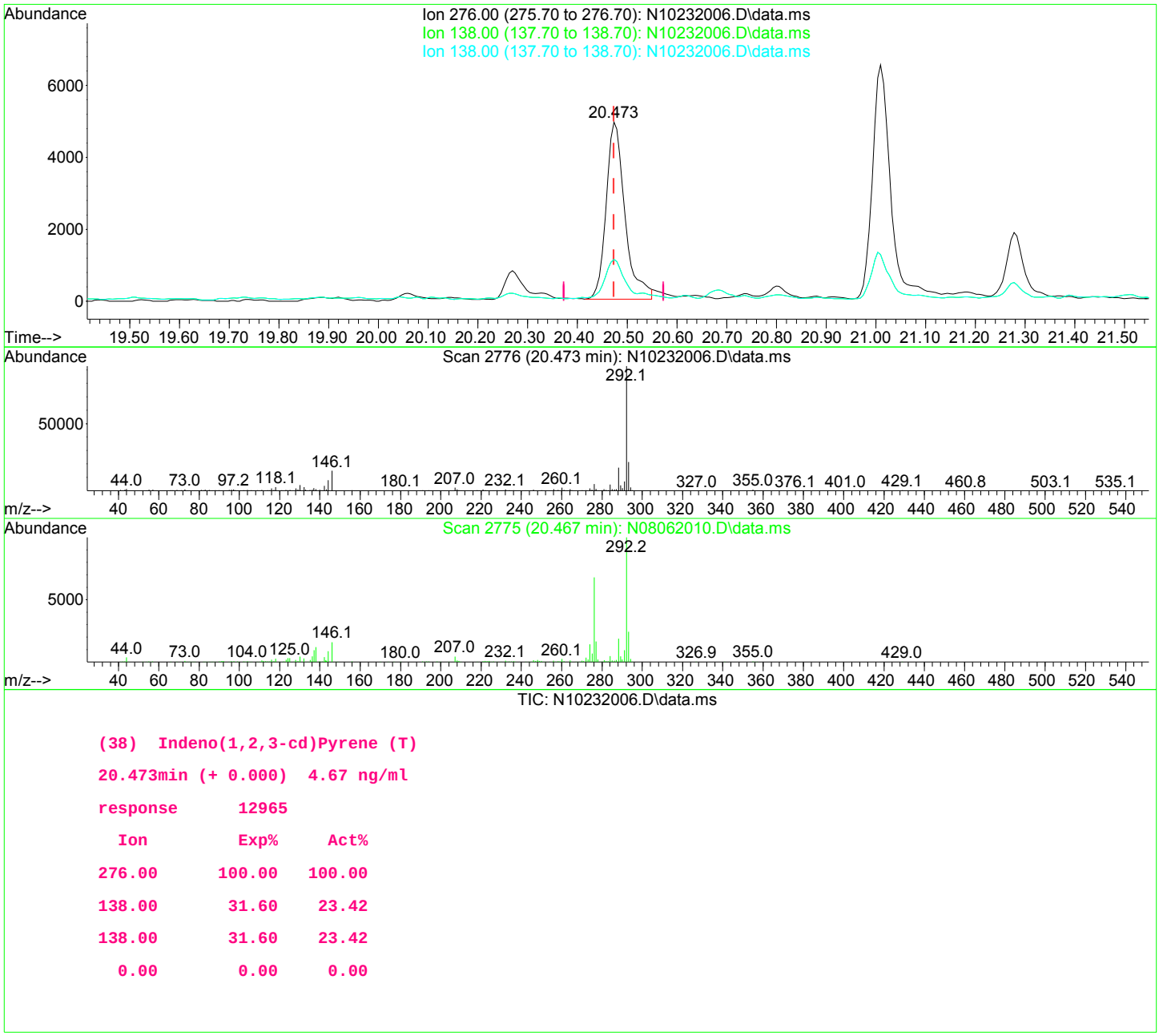
response 15387

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	9.50
253.00	21.90	22.77
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10232006.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.473min (+ 0.000) 4.67 ng/ml

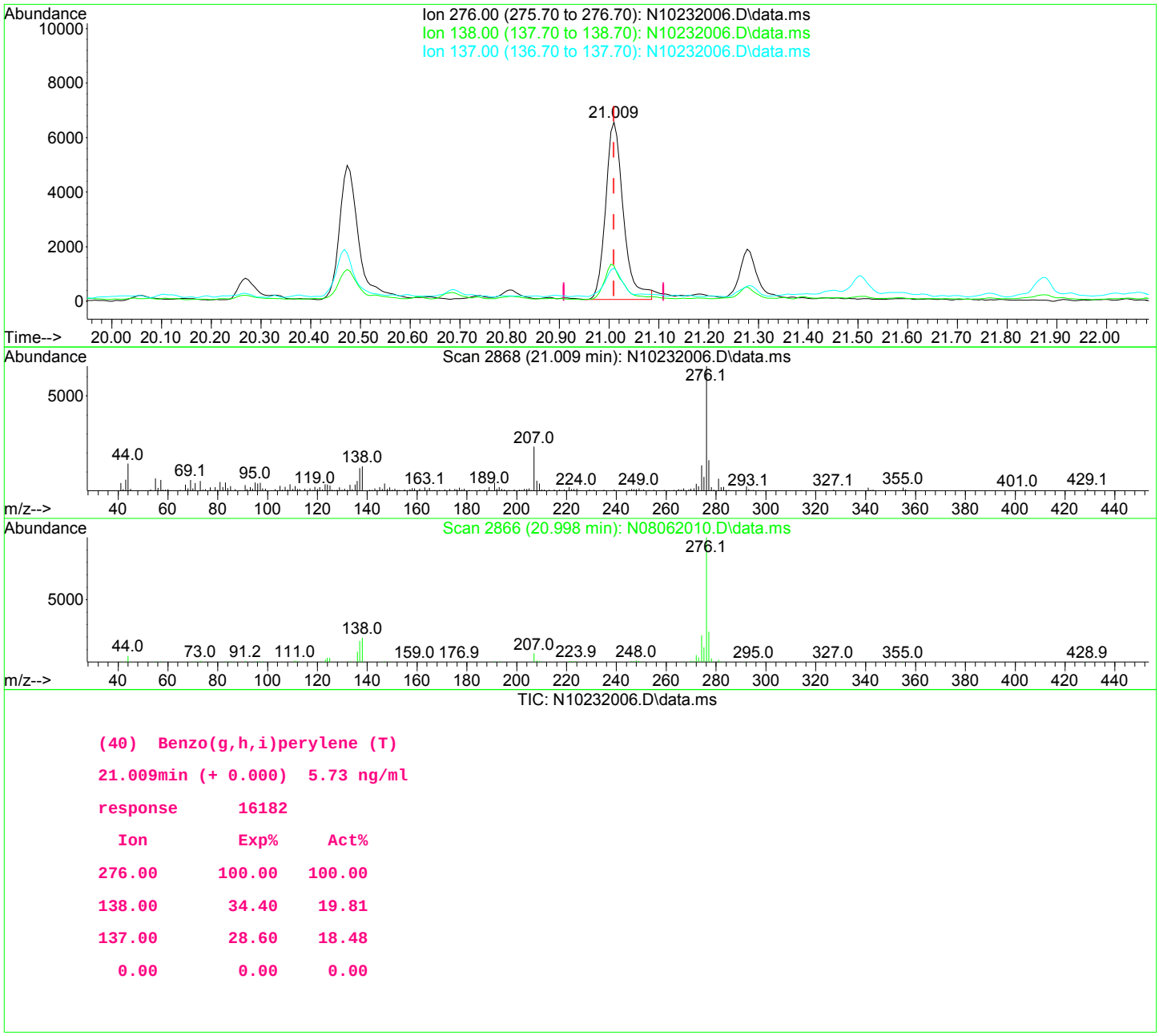
response 12965

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	23.42
138.00	31.60	23.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J23034\
Data File : N10232006.D
Acq On : 23 Oct 2020 03:00 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-05RE1@40
Misc : 1x, 8270E LL PAH ONLY
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 09:15:55 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



TIC: N10232006.D\data.ms

(40) Benzo(g,h,i)perylene (T)

21.009min (+ 0.000) 5.73 ng/ml

response 16182

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	19.81
137.00	28.60	18.48
0.00	0.00	0.00

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)
Calibration Data

Sequence 0H07053 (Cal ID A0H1005) SV-GCMS14

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0H07053	Instrument:	SV-GCMS14
Date:	**08/07/20 15:42**	Calibration:	**A0H1005**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0H07053-TUN1	Soil	QC	QC			A20G263	A20H065
2	0H07053-ICB1	Soil	QC	QC			A20G263	
3	0H07053-CAL1	Soil	QC	QC			A20G263	A20H127
4	0H07053-CAL2	Soil	QC	QC			A20G263	A20H128
5	0H07053-CAL3	Soil	QC	QC			A20G263	A20H129
6	0H07053-CAL4	Soil	QC	QC			A20G263	A20H130
7	0H07053-CAL5	Soil	QC	QC			A20G263	A20H131
8	0H07053-CAL6	Soil	QC	QC			A20G263	A20H132
9	0H07053-CAL7	Soil	QC	QC			A20G263	A20H133
10	0H07053-CAL8	Soil	QC	QC			A20G263	A20H134
11	0H07053-CAL9	Soil	QC	QC			A20G263	A20H135
12	0H07053-CALA	Soil	QC	QC			A20G263	A20H136
13	0H07053-IBL1	Soil	QC	QC			A20G263	
14	0H07053-IBL2	Soil	QC	QC			A20G263	
15	0H07053-ICV1	Soil	QC	QC			A20G263	A20H138
16	0H07053-IBL3	Soil	QC	QC			A20G263	

Comments:

Data Entered By/Date: JK 8/10/20

Data Reviewed By/Date: MKZ 8/14/2020

Calibration Status Report SV-GCMS14

Method Path : M:\methods\
Method File : SV14_080720.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon Aug 10 09:22:10 2020
Response Via : Initial Calibration

JK 8/10/20

#	ID	Conc	ISTD Conc	Path\File
1	1.0	1	100	M:\data\2020-08\0H07053\N08072010.D
2	2.0	2	100	M:\data\2020-08\0H07053\N08072011.D
3	5.0	5	100	M:\data\2020-08\0H07053\N08072012.D
4	10.0	10	100	M:\data\2020-08\0H07053\N08072013.D
5	20	20	100	M:\data\2020-08\0H07053\N08072014.D
6	50.0	50	100	M:\data\2020-08\0H07053\N08072015.D
7	100	100	100	M:\data\2020-08\0H07053\N08072016.D
8	200	200	100	M:\data\2020-08\0H07053\N08072017.D
~~9~~	~~400~~	~~400~~	~~100~~	~~M:\data\2020-08\0H06064\N08062013.D~~
10	600	600	100	M:\data\2020-08\0H07053\N08072019.D

Misinjection. Point not included in calibration.

#	ID	Update Time	Quant Time	Acquisition Time
1	1.0	Aug 10 09:21 2020	Aug 10 09:16 2020	07 Aug 2020 04:50 pm
2	2.0	Aug 10 09:21 2020	Aug 10 09:16 2020	07 Aug 2020 05:23 pm
3	5.0	Aug 10 09:21 2020	Aug 10 09:17 2020	07 Aug 2020 05:56 pm
4	10.0	Aug 10 09:21 2020	Aug 10 09:18 2020	07 Aug 2020 06:29 pm
5	20	Aug 10 09:21 2020	Aug 10 09:18 2020	07 Aug 2020 07:02 pm
6	50.0	Aug 10 09:21 2020	Aug 10 09:18 2020	07 Aug 2020 07:35 pm
7	100	Aug 10 09:22 2020	Aug 10 09:19 2020	07 Aug 2020 08:07 pm
8	200	Aug 10 09:22 2020	Aug 10 09:19 2020	07 Aug 2020 08:40 pm
~~9~~	~~400~~	~~Aug 07 10:58 2020~~	~~Aug 07 10:55 2020~~	~~06 Aug 2020 11:02 pm~~
10	600	Aug 10 09:22 2020	Aug 10 09:20 2020	07 Aug 2020 09:45 pm

SV14_080720.M Mon Aug 10 12:58:23 2020

Response Factor Report SV-GCMS14

Method Path : M:\methods\
Method File : SV14_080720.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon Aug 10 09:22:10 2020
Response Via : Initial Calibration

JK 8/10/20

Calibration Files
1.0 =N08072010.D 2.0 =N08072011.D 5.0 =N08072012.D 10.0=N08072013.D 20 =N08072014.D
50.0=N08072015.D 100 =N08072016.D 200 =N08072017.D 400 =N08062013.D 600 =N08072019.D

		Compound	1.0	2.0	5.0	10.0	20	50.0	100	200	400	600	Avg	%RSD
1)	I	Naphthalene-d8 (ISTD)	----------ISTD----------											
2)	S	Nitrobenzene-d...	0.303	0.283	0.263	0.261	0.282	0.282	0.283	0.281			0.284	4.49
3)	T	Decalin				0.056	0.060	0.068	0.055	0.053	0.062	0.058	0.062	7.97
4)	T	Naphthalene	1.192	1.066	1.023	1.030	1.028	1.001	1.005	0.983			0.953	1.031	6.62
5)	T	2-Methylnaphth...	0.675	0.735	0.736	0.703	0.754	0.780	0.782	0.780			0.767	0.746	5.02
6)	T	1-Methylnaphth...	0.709	0.720	0.744	0.743	0.757	0.769	0.769	0.764			0.741	0.746	2.84
7)	T	1,1'-Biphenyl	0.984	0.923	0.900	0.837	0.939	0.976	0.993	0.989			0.999	0.949	5.73
8)	T	2,6-Dimethylna...	0.671	0.657	0.661	0.621	0.705	0.725	0.741	0.742			0.737	0.695	6.38
9)	I	Acenaphthene-d10 (...	----------ISTD----------											
10)	S	2-Fluorobiphen...	1.376	1.393	1.425	1.394	1.460	1.492	1.472	1.467			1.389	1.430	3.04
11)	T	Acenaphthylene	1.474	1.566	1.592	1.685	1.686	1.757	1.792	1.803			1.731	1.676	6.65
12)	T	Acenaphthene	1.267	1.260	1.266	1.192	1.236	1.232	1.219	1.210			1.142	1.225	3.29
13)	T	Dibenzofuran	1.495	1.486	1.488	1.397	1.543	1.599	1.622	1.641			1.588	1.540	5.17
14)	T	1,6,7-Trimethy...	1.159	1.063	1.077	1.086	1.124	1.145	1.150	1.130			1.060	1.111	3.52
15)	T	Fluorene	1.208	1.215	1.185	1.104	1.247	1.302	1.348	1.340			1.272	1.247	6.30
16)	I	Phenanthrene-d10 (...	----------ISTD----------											
17)	S	2,4,6-Tribromo...				0.107	0.078	0.108	0.120	0.128	0.131		0.142	0.116	18.22
18)	T	Pentachlorophe...				0.008	0.021	0.042	0.052	0.072			0.103	0.050	68.86
19)	T	Dibenzothiopene	0.928	1.019	0.990	0.955	0.983	0.980	0.990	0.970			0.926	0.971	3.13
20)	T	Phenanthrene	1.195	1.148	1.072	1.061	1.081	1.077	1.069	1.050			0.987	1.082	5.45
21)	T	Anthracene	0.868	0.863	0.833	0.775	0.905	0.939	0.938	0.942			0.916	0.886	6.42
22)	T	Carbazole	0.595	0.575	0.609	0.502	0.724	0.760	0.715	0.731			0.720	0.659	13.63
23)	T	1-Methylphenan...	0.700	0.808	0.764	0.744	0.797	0.817	0.811	0.804			0.758	0.778	5.07

Method Path : M:\methods\
Method File : SV14_080720.M
Title : EPA 8270D: Semivolatile Organics

24)	T	Fluoranthene	1.056	1.074	1.058	1.022	1.137	1.170	1.203	1.212	1.173	1.123	6.33
25)	I	Chrysene-d12 (ISTD)	----------ISTD----------										
26)	T	Pyrene	1.284	1.285	1.314	1.673	1.366	1.310	1.405	1.278	1.135	1.339	10.88
27)	S	Terphenyl-d14 ...	0.948	0.900	0.965	1.003	1.009	0.983	0.990	0.954	0.903	0.961	4.15
28)	T	Benz(a)anthracene	1.185	1.074	0.961	0.922	0.963	0.964	0.961	0.973	0.995	1.000	8.09
29)	T	Chrysene	1.050	1.051	1.063	1.013	1.046	1.035	1.039	1.017	0.984	1.033	2.37
30)	I	Perylene-d12 (ISTD)	----------ISTD----------										
31)	T	Benzo(b)fluora...	1.008	1.004	0.923	0.982	1.013	1.015	1.048	1.054	1.078	1.014	4.44
32)	T	Benzo(k)fluora...	0.926	0.854	0.918	0.919	0.939	0.984	1.002	1.040	1.026	0.957	6.31
33)	T	Benzo(b+k)fluo...	0.967	0.999	0.982	1.015	1.033	1.051	1.072	1.085	1.083	1.032	4.27
34)	T	Benzo(e)pyrene	0.943	0.938	0.965	1.011	1.001	1.015	1.063	1.079	1.060	1.008	5.17
35)	T	Benzo(a)pyrene	0.754	0.681	0.649	0.662	0.717	0.756	0.778	0.805	0.813	0.735	8.29
36)	T	Perylene	1.114	1.064	1.042	1.096	1.134	1.112	1.101	1.105	1.056	1.092	2.81
37)	I	Dibenz(a,h)Anthrce...	----------ISTD----------										
38)	T	Indeno(1,2,3-c...	1.057	1.050	1.042	1.057	1.057	1.051	1.096	1.128	1.148	1.076	3.58
39)	T	Dibenz(a,h)ant...	1.062	1.058	1.013	1.009	1.045	1.024	1.110	1.123	1.080	1.058	3.83
40)	T	Benzo(g,h,i)pe...	1.003	1.025	1.003	1.045	1.075	1.106	1.172	1.213	1.206	1.094	7.73

(#) = Out of Range

Method Path : M:\methods\
Method File : SV14_080720.M
Title : EPA 8270D: Semivolatile Organics
Last Update : Mon Aug 10 09:22:10 2020
Response Via : Initial Calibration

JK 8/10/20

All quadratic curve fits weighted 1/(a^2)

Total Cpnds : 40

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Naphthalene-d8 (ISTD)	136	7.737	1.000	A	2	A	B
2	S	Nitrobenzene-d5 (Surr)	82	7.050	0.911	A	1	A	R
3	T	Decalin	138	7.212	0.932	A	2	A	B
4	T	Naphthalene	128	7.761	1.003	A	2	A	R
5	T	2-Methylnaphthalene	142	8.443	1.091	A	2	A	R
6	T	1-Methylnaphthalene	142	8.542	1.104	A	2	A	R
7	T	1,1'-Biphenyl	154	8.909	1.151	A	2	A	B
8	T	2,6-Dimethylnaphthalene	156	9.066	1.172	A	2	A	R
9	I	Acenaphthene-d10 (ISTD)	162	9.492	1.000	A	2	A	R
10	S	2-Fluorobiphenyl (Surr)	172	8.804	0.928	A	2	A	R
11	T	Acenaphthylene	152	9.346	0.985	A	2	A	R
12	T	Acenaphthene	153	9.521	1.003	A	2	A	R
13	T	Dibenzofuran	168	9.696	1.021	A	2	A	R
14	T	1,6,7-Trimethylnaphthalene	170	9.906	1.044	A	2	A	R
15	T	Fluorene	166	10.046	1.058	A	2	A	R
16	I	Phenanthrene-d10 (ISTD)	188	10.996	1.000	A	2	A	R
17	S	2,4,6-Tribromophenol (Surr)	330	10.296	0.936	Q	2	A	R
18	T	Pentachlorophenol (PCP)	266	10.814	0.983	Q	2	A	R
19	T	Dibenzothiopene	184	10.891	0.990	A	3	A	R
20	T	Phenanthrene	178	11.019	1.002	A	2	A	R
21	T	Anthracene	178	11.071	1.007	A	2	A	R
22	T	Carbazole	167	11.235	1.022	A	2	A	R
23	T	1-Methylphenanthrene	192	11.643	1.059	A	2	A	R
24	T	Fluoranthene	202	12.260	1.115	A	2	A	R
25	I	Chrysene-d12 (ISTD)	240	14.633	1.000	A	2	A	R
26	T	Pyrene	202	12.534	0.857	A	2	A	R
27	S	Terphenyl-d14 (Surr)	244	12.733	0.870	A	2	A	R
28	T	Benz(a)anthracene	228	14.609	0.998	A	2	A	R
29	T	Chrysene	228	14.691	1.004	A	2	A	R
30	I	Perylene-d12 (ISTD)	264	18.083	1.000	A	2	A	R
31	T	Benzo(b)fluoranthene	252	17.174	0.950	A	2	A	R
32	T	Benzo(k)fluoranthene	252	17.238	0.953	A	2	A	R
33	T	Benzo(b+k)fluoranthene	252	17.238	0.953	A	2	A	R
34	T	Benzo(e)pyrene	252	17.821	0.985	A	2	A	R
35	T	Benzo(a)pyrene	252	17.943	0.992	A	2	A	R
36	T	Perylene	252	18.141	1.003	A	2	A	R
37	I	Dibenz(a,h)Anthrcene-d14(ISTD)	292	20.467	1.000	A	2	A	R
38	T	Indeno(1,2,3-cd)Pyrene	276	20.473	1.000	A	2	A	R
39	T	Dibenz(a,h)anthracene	278	20.531	1.003	A	2	A	R
40	T	Benzo(g,h,i)perylene	276	21.009	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

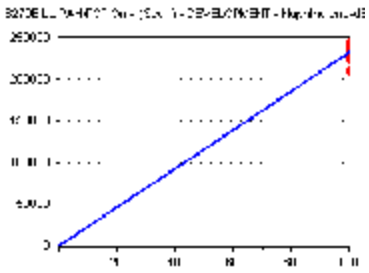
SV14_080720.M Mon Aug 10 12:56:38 2020

Element Calibration Review Sheet

Calibration ID: **A0H1005** Instrument: **SV-GCMS14** Calibration Date: **08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc** Instrument Cal ID: **A0H1005**

Naphthalene-d8 (ISTD)

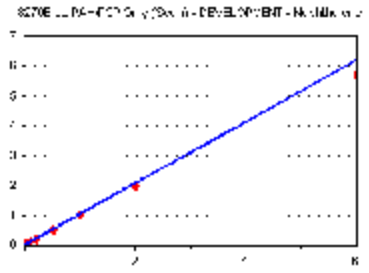


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	100	209647	2096.470	7.74
0H07053-CAL2	100	224491	2244.910	7.74
0H07053-CAL3	100	226097	2260.970	7.74
0H07053-CAL4	100	228032	2280.320	7.74
0H07053-CAL5	100	239716	2397.160	7.74
0H07053-CAL6	100	236348	2363.480	7.74
0H07053-CAL7	100	239628	2396.280	7.74
0H07053-CAL8	100	243956	2439.560	7.74
~~0H07053-CAL9~~	~~100~~	~~17104~~	~~171.040~~	~~7.74~~
0H07053-CALA	100	238642	2386.420	7.74

AVE RF **2318.397** RF RSD **4.65** AVE RT **7.74**

Naphthalene

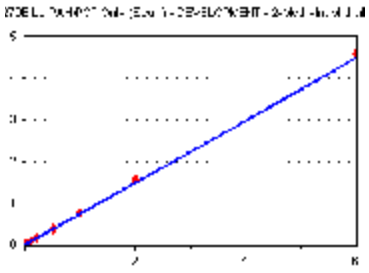


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2500	1.192	7.76
0H07053-CAL2	2	4784	1.066	7.76
0H07053-CAL3	5	11565	1.023	7.76
0H07053-CAL4	10	23497	1.030	7.76
0H07053-CAL5	20	49268	1.028	7.76
0H07053-CAL6	50	118307	1.001	7.76
0H07053-CAL7	100	240756	1.005	7.76
0H07053-CAL8	200	479537	0.983	7.76
~~0H07053-CAL9~~	~~400~~	~~70590~~	~~1.032~~	~~7.76~~
0H07053-CALA	600	1364884	0.953	7.76

AVE RF **1.031** RF RSD **6.62** AVE RT **7.76**

2-Methylnaphthalene

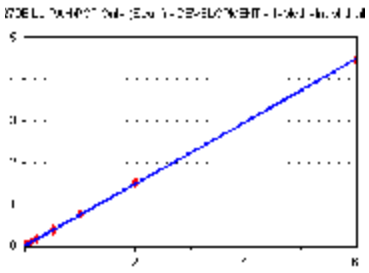


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1415	0.675	8.44
0H07053-CAL2	2	3298	0.735	8.44
0H07053-CAL3	5	8315	0.736	8.44
0H07053-CAL4	10	16041	0.703	8.44
0H07053-CAL5	20	36143	0.754	8.44
0H07053-CAL6	50	92164	0.780	8.44
0H07053-CAL7	100	187483	0.782	8.44
0H07053-CAL8	200	380463	0.780	8.44
~~0H07053-CAL9~~	~~400~~	~~37012~~	~~0.541~~	~~8.44~~
0H07053-CALA	600	1097533	0.767	8.44

AVE RF **0.746** RF RSD **5.02** AVE RT **8.44**

1-Methylnaphthalene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1486	0.709	8.54
0H07053-CAL2	2	3232	0.720	8.54
0H07053-CAL3	5	8413	0.744	8.54
0H07053-CAL4	10	16943	0.743	8.54
0H07053-CAL5	20	36280	0.757	8.54
0H07053-CAL6	50	90899	0.769	8.54
0H07053-CAL7	100	184281	0.769	8.54
0H07053-CAL8	200	372527	0.764	8.54
~~0H07053-CAL9~~	~~400~~	~~38595~~	~~0.564~~	~~8.54~~
0H07053-CALA	600	1061181	0.741	8.54

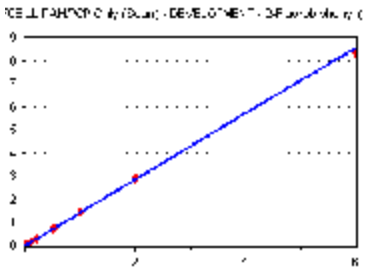
AVE RF **0.746** RF RSD **2.84** AVE RT **8.54**

Element Calibration Review Sheet

Calibration ID: **A0H1005** Instrument: **SV-GCMS14** Calibration Date: **08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc** Instrument Cal ID: **A0H1005**

2-Fluorobiphenyl (Surr)

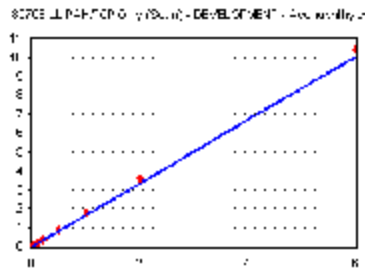


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1868	1.376	8.80
0H07053-CAL2	2	3920	1.393	8.80
0H07053-CAL3	5	10278	1.425	8.80
0H07053-CAL4	10	19786	1.394	8.80
0H07053-CAL5	20	45285	1.460	8.80
0H07053-CAL6	50	117511	1.492	8.80
0H07053-CAL7	100	236184	1.472	8.80
0H07053-CAL8	200	477028	1.467	8.80
~~0H07053-CAL9~~	~~400~~	~~33043~~	~~1.885~~	~~8.80~~
0H07053-CALA	600	1394405	1.389	8.81

AVE RF **1.430** RF RSD **3.04** AVE RT **8.80**

Acenaphthylene

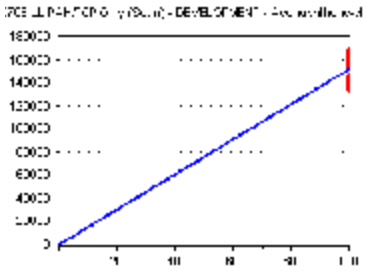


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2000	1.474	9.35
0H07053-CAL2	2	4408	1.566	9.35
0H07053-CAL3	5	11485	1.592	9.35
0H07053-CAL4	10	23907	1.685	9.35
0H07053-CAL5	20	52295	1.686	9.35
0H07053-CAL6	50	138328	1.757	9.35
0H07053-CAL7	100	287639	1.792	9.35
0H07053-CAL8	200	586170	1.803	9.35
~~0H07053-CAL9~~	~~400~~	~~32891~~	~~1.876~~	~~9.35~~
0H07053-CALA	600	1737176	1.731	9.35

AVE RF **1.676** RF RSD **6.65** AVE RT **9.35**

Acenaphthene-d10 (ISTD)

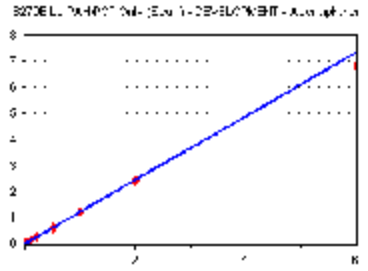


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	100	135719	1357.190	9.49
0H07053-CAL2	100	140735	1407.350	9.49
0H07053-CAL3	100	144275	1442.750	9.49
0H07053-CAL4	100	141904	1419.040	9.49
0H07053-CAL5	100	155110	1551.100	9.49
0H07053-CAL6	100	157474	1574.740	9.49
0H07053-CAL7	100	160491	1604.910	9.49
0H07053-CAL8	100	162564	1625.640	9.49
~~0H07053-CAL9~~	~~100~~	~~4382~~	~~43.820~~	~~9.49~~
0H07053-CALA	100	167307	1673.070	9.49

AVE RF **1517.310** RF RSD **7.41** AVE RT **9.49**

Acenaphthene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1719	1.267	9.52
0H07053-CAL2	2	3546	1.260	9.52
0H07053-CAL3	5	9131	1.266	9.52
0H07053-CAL4	10	16916	1.192	9.52
0H07053-CAL5	20	38339	1.236	9.52
0H07053-CAL6	50	96981	1.232	9.52
0H07053-CAL7	100	195700	1.219	9.52
0H07053-CAL8	200	393259	1.210	9.52
~~0H07053-CAL9~~	~~400~~	~~21612~~	~~1.233~~	~~9.52~~
0H07053-CALA	600	1146621	1.142	9.53

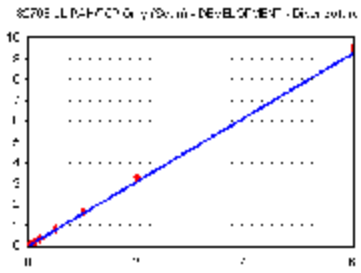
AVE RF **1.225** RF RSD **3.29** AVE RT **9.52**

Element Calibration Review Sheet

Calibration ID: **A0H1005** Instrument: **SV-GCMS14** Calibration Date: **08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc** Instrument Cal ID: **A0H1005**

Dibenzofuran

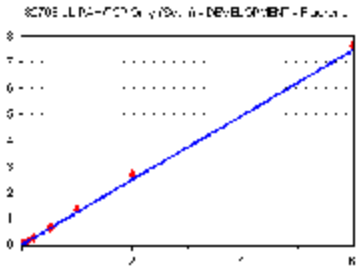


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2029	1.495	9.70
0H07053-CAL2	2	4184	1.486	9.70
0H07053-CAL3	5	10731	1.488	9.70
0H07053-CAL4	10	19825	1.397	9.70
0H07053-CAL5	20	47868	1.543	9.70
0H07053-CAL6	50	125884	1.599	9.70
0H07053-CAL7	100	260342	1.622	9.70
0H07053-CAL8	200	533541	1.641	9.70
~~0H07053-CAL9~~	~~400~~	~~20091~~	~~1.146~~	~~9.70~~
0H07053-CALA	600	1593927	1.588	9.70

AVE RF **1.540** RF RSD **5.17** AVE RT **9.70**

Fluorene

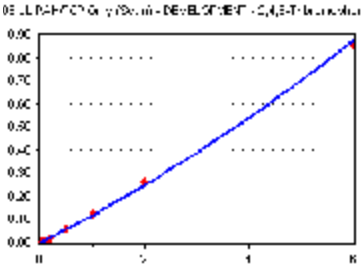


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1639	1.208	10.05
0H07053-CAL2	2	3421	1.215	10.05
0H07053-CAL3	5	8551	1.185	10.05
0H07053-CAL4	10	15667	1.104	10.05
0H07053-CAL5	20	38684	1.247	10.05
0H07053-CAL6	50	102499	1.302	10.05
0H07053-CAL7	100	216422	1.348	10.05
0H07053-CAL8	200	435598	1.340	10.05
~~0H07053-CAL9~~	~~400~~	~~11678~~	~~0.666~~	~~10.05~~
0H07053-CALA	600	1277182	1.272	10.05

AVE RF **1.247** RF RSD **6.30** AVE RT **10.05**

2,4,6-Tribromophenol (Surr)

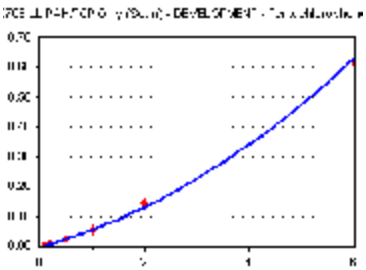


Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0H07053-CAL1~~	~~1~~	~~0~~	~~0.000~~	~~0.00~~
~~0H07053-CAL2~~	~~2~~	~~534~~	~~0.109~~	~~10.30~~
0H07053-CAL3	5	1324	0.107	10.30
0H07053-CAL4	10	1728	7.766	10.30
0H07053-CAL5	20	6085	0.108	10.30
0H07053-CAL6	50	17962	0.120	10.30
0H07053-CAL7	100	39630	0.128	10.29
0H07053-CAL8	200	84601	0.131	10.29
~~0H07053-CAL9~~	~~400~~	~~701~~	~~7.560~~	~~10.29~~
0H07053-CALA	600	289654	0.142	10.30

AVE RF **0.116** RF RSD **18.22** AVE RT **10.29**

Pentachlorophenol (PCP)



Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

Standard	Concentration	Response	Response Factor	RT
~~0H07053-CAL1~~	~~1~~	~~350~~	~~0.150~~	~~10.82~~
~~0H07053-CAL2~~	~~2~~	~~248~~	~~5.079~~	~~10.82~~
~~0H07053-CAL3~~	~~5~~	~~227~~	~~1.832~~	~~10.82~~
0H07053-CAL4	10	188	8.449	10.82
0H07053-CAL5	20	1210	2.147	10.82
0H07053-CAL6	50	6271	4.207	10.82
0H07053-CAL7	100	16208	5.226	10.82
0H07053-CAL8	200	46324	7.185	10.82
~~0H07053-CAL9~~	~~400~~	~~0~~	~~0.000~~	~~0.00~~
0H07053-CALA	600	209662	0.103	10.82

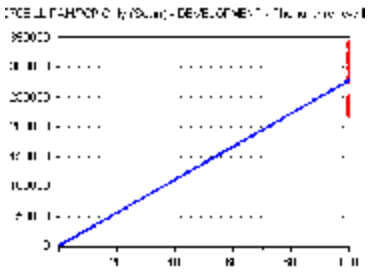
AVE RF **4.984** RF RSD **68.86** AVE RT **10.82**

Element Calibration Review Sheet

Calibration ID: **A0H1005** Instrument: **SV-GCMS14** Calibration Date: **08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc** Instrument Cal ID: **A0H1005**

Phenanthrene-d10 (ISTD)

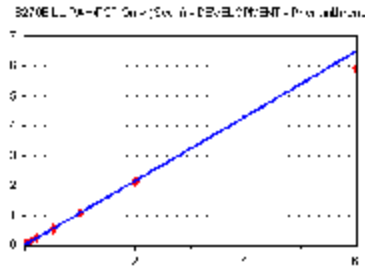


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	100	232658	2326.580	11.00
0H07053-CAL2	100	244122	2441.220	11.00
0H07053-CAL3	100	247788	2477.880	11.00
0H07053-CAL4	100	222500	2225.000	11.00
0H07053-CAL5	100	281843	2818.430	11.00
0H07053-CAL6	100	298143	2981.430	11.00
0H07053-CAL7	100	310167	3101.670	11.00
0H07053-CAL8	100	322378	3223.780	11.00
~~0H07053-CAL9~~	~~100~~	~~2318~~	~~23.180~~	~~11.00~~
0H07053-CALA	100	339435	3394.350	11.00

AVE RF **2776.704** RF RSD **15.28** AVE RT **11.00**

Phenanthrene

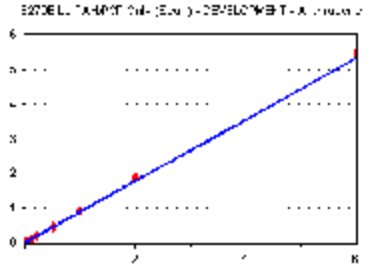


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2780	1.195	11.02
0H07053-CAL2	2	5605	1.148	11.02
0H07053-CAL3	5	13283	1.072	11.02
0H07053-CAL4	10	23609	1.061	11.02
0H07053-CAL5	20	60927	1.081	11.02
0H07053-CAL6	50	160556	1.077	11.02
0H07053-CAL7	100	331692	1.069	11.02
0H07053-CAL8	200	677193	1.050	11.02
~~0H07053-CAL9~~	~~400~~	~~9850~~	~~1.062~~	~~11.02~~
0H07053-CALA	600	2010051	0.987	11.03

AVE RF **1.082** RF RSD **5.45** AVE RT **11.02**

Anthracene

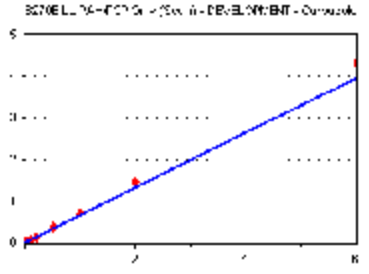


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2020	0.868	11.07
0H07053-CAL2	2	4212	0.863	11.07
0H07053-CAL3	5	10318	0.833	11.07
0H07053-CAL4	10	17244	0.775	11.07
0H07053-CAL5	20	50995	0.905	11.07
0H07053-CAL6	50	139978	0.939	11.07
0H07053-CAL7	100	291014	0.938	11.07
0H07053-CAL8	200	607405	0.942	11.07
~~0H07053-CAL9~~	~~400~~	~~7326~~	~~0.790~~	~~11.07~~
0H07053-CALA	600	1864915	0.916	11.08

AVE RF **0.886** RF RSD **6.42** AVE RT **11.07**

Carbazole



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1385	0.595	11.24
0H07053-CAL2	2	2808	0.575	11.24
0H07053-CAL3	5	7544	0.609	11.24
0H07053-CAL4	10	11174	0.502	11.24
0H07053-CAL5	20	40816	0.724	11.24
0H07053-CAL6	50	113238	0.760	11.24
0H07053-CAL7	100	221628	0.715	11.24
0H07053-CAL8	200	471116	0.731	11.24
~~0H07053-CAL9~~	~~400~~	~~4563~~	~~0.492~~	~~11.24~~
0H07053-CALA	600	1466993	0.720	11.24

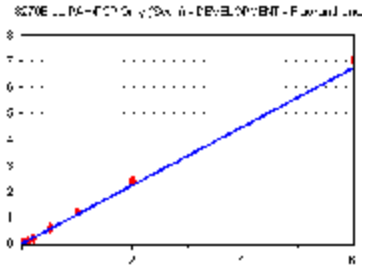
AVE RF **0.659** RF RSD **13.63** AVE RT **11.24**

Element Calibration Review Sheet

Calibration ID: **A0H1005** Instrument: **SV-GCMS14** Calibration Date: **08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc** Instrument Cal ID: **A0H1005**

Fluoranthene

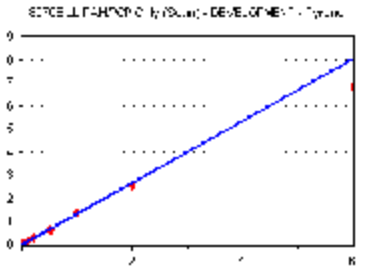


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2457	1.056	12.26
0H07053-CAL2	2	5246	1.074	12.26
0H07053-CAL3	5	13102	1.058	12.26
0H07053-CAL4	10	22749	1.022	12.26
0H07053-CAL5	20	64074	1.137	12.26
0H07053-CAL6	50	174353	1.170	12.26
0H07053-CAL7	100	373192	1.203	12.26
0H07053-CAL8	200	781297	1.212	12.26
~~0H07053-CAL9~~	~~400~~	~~7012~~	~~0.756~~	~~12.26~~
0H07053-CALA	600	2388152	1.173	12.27

AVE RF **1.123** RF RSD **6.33** AVE RT **12.26**

Pyrene

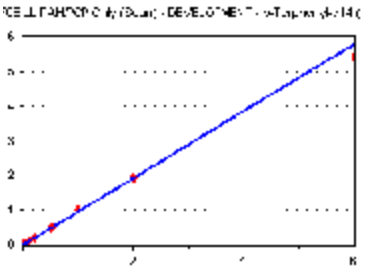


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2393	1.284	12.54
0H07053-CAL2	2	5435	1.285	12.53
0H07053-CAL3	5	13318	1.314	12.54
0H07053-CAL4	10	23593	1.673	12.53
0H07053-CAL5	20	65612	1.366	12.54
0H07053-CAL6	50	179092	1.310	12.53
0H07053-CAL7	100	385194	1.405	12.53
0H07053-CAL8	200	799981	1.278	12.54
~~0H07053-CAL9~~	~~400~~	~~6877~~	~~1.616~~	~~12.53~~
0H07053-CALA	600	2455254	1.135	12.55

AVE RF **1.339** RF RSD **10.88** AVE RT **12.54**

p-Terphenyl-d14 (Surr)

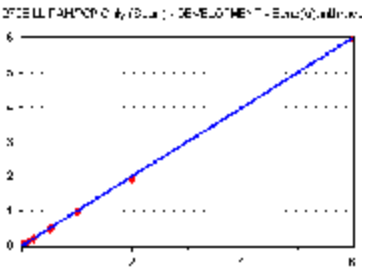


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1766	0.948	12.73
0H07053-CAL2	2	3805	0.900	12.73
0H07053-CAL3	5	9780	0.965	12.73
0H07053-CAL4	10	14134	1.003	12.73
0H07053-CAL5	20	48455	1.009	12.73
0H07053-CAL6	50	134305	0.983	12.73
0H07053-CAL7	100	271448	0.990	12.73
0H07053-CAL8	200	597044	0.954	12.73
~~0H07053-CAL9~~	~~400~~	~~5581~~	~~1.311~~	~~12.73~~
0H07053-CALA	600	1953505	0.903	12.74

AVE RF **0.961** RF RSD **4.15** AVE RT **12.73**

Benz(a)anthracene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2208	1.185	14.61
0H07053-CAL2	2	4545	1.074	14.61
0H07053-CAL3	5	9736	0.961	14.61
0H07053-CAL4	10	13000	0.922	14.61
0H07053-CAL5	20	46250	0.963	14.61
0H07053-CAL6	50	131678	0.964	14.61
0H07053-CAL7	100	263502	0.961	14.61
0H07053-CAL8	200	608983	0.973	14.62
~~0H07053-CAL9~~	~~400~~	~~4463~~	~~1.049~~	~~14.61~~
0H07053-CALA	600	2152328	0.995	14.63

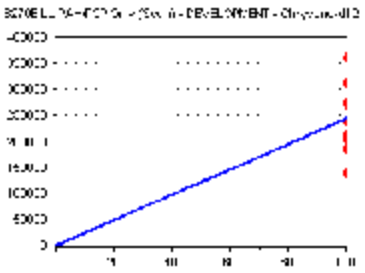
AVE RF **1.000** RF RSD **8.09** AVE RT **14.61**

Element Calibration Review Sheet

Calibration ID: **A0H1005** Instrument: **SV-GCMS14** Calibration Date: **08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc** Instrument Cal ID: **A0H1005**

Chrysene-d12 (ISTD)

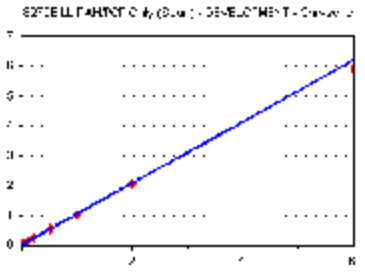


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	100	186345	1863.450	14.63
0H07053-CAL2	100	211495	2114.950	14.63
0H07053-CAL3	100	202721	2027.210	14.63
0H07053-CAL4	100	140980	1409.800	14.63
0H07053-CAL5	100	240100	2401.000	14.63
0H07053-CAL6	100	273325	2733.250	14.63
0H07053-CAL7	100	274150	2741.500	14.63
0H07053-CAL8	100	313061	3130.610	14.64
~~0H07053-CAL9~~	~~100~~	~~1064~~	~~10.640~~	~~14.63~~
0H07053-CALA	100	360560	3605.600	14.65

AVE RF **2447.486** RF RSD **27.72** AVE RT **14.63**

Chrysene

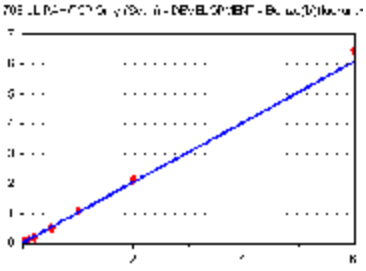


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1956	1.050	14.69
0H07053-CAL2	2	4447	1.051	14.69
0H07053-CAL3	5	10771	1.063	14.69
0H07053-CAL4	10	14280	1.013	14.69
0H07053-CAL5	20	50228	1.046	14.69
0H07053-CAL6	50	141380	1.035	14.69
0H07053-CAL7	100	284963	1.039	14.69
0H07053-CAL8	200	636457	1.017	14.70
~~0H07053-CAL9~~	~~400~~	~~5012~~	~~1.178~~	~~14.69~~
0H07053-CALA	600	2128504	0.984	14.71

AVE RF **1.033** RF RSD **2.37** AVE RT **14.69**

Benzo(b)fluoranthene

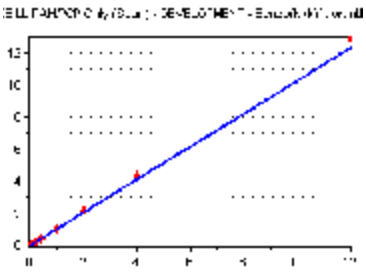


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1669	1.008	17.17
0H07053-CAL2	2	3889	1.004	17.17
0H07053-CAL3	5	8519	0.923	17.17
0H07053-CAL4	10	12095	0.982	17.17
0H07053-CAL5	20	44053	1.013	17.17
0H07053-CAL6	50	128755	1.015	17.17
0H07053-CAL7	100	256455	1.048	17.18
0H07053-CAL8	200	597527	1.054	17.19
~~0H07053-CAL9~~	~~400~~	~~4589~~	~~1.236~~	~~17.17~~
0H07053-CALA	600	2203761	1.078	17.20

AVE RF **1.014** RF RSD **4.44** AVE RT **17.18**

Benzo(b+k)fluoranthene(s)



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	2	3202	0.967	17.17
0H07053-CAL2	4	7739	0.999	17.17
0H07053-CAL3	10	18121	0.982	17.24
0H07053-CAL4	20	24984	1.015	17.24
0H07053-CAL5	40	89892	1.033	17.17
0H07053-CAL6	100	266585	1.051	17.24
0H07053-CAL7	200	524339	1.072	17.24
0H07053-CAL8	400	1231095	1.085	17.25
~~0H07053-CAL9~~	~~800~~	~~9502~~	~~1.280~~	~~17.17~~
0H07053-CALA	1200	4430224	1.083	17.27

AVE RF **1.032** RF RSD **4.27** AVE RT **17.22**

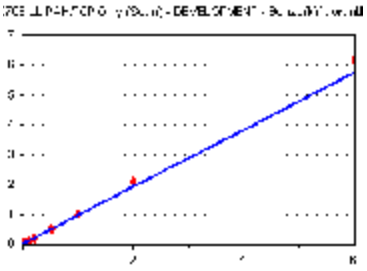
Element Calibration Review Sheet

Calibration ID: **A0H1005** Instrument: **SV-GCMS14** Calibration Date: **08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc** Instrument Cal ID: **A0H1005**

Benzo(k)fluoranthene

Curve Fit: **AVERAGE RF**

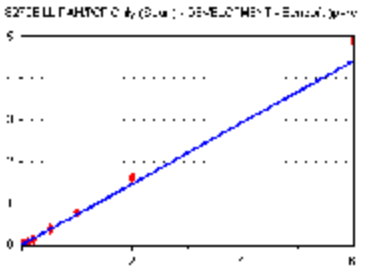


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1533	0.926	17.24
0H07053-CAL2	2	3308	0.854	17.24
0H07053-CAL3	5	8476	0.918	17.24
0H07053-CAL4	10	11317	0.919	17.24
0H07053-CAL5	20	40858	0.939	17.24
0H07053-CAL6	50	124775	0.984	17.24
0H07053-CAL7	100	245178	1.002	17.24
0H07053-CAL8	200	589910	1.040	17.25
~~0H07053-CAL9~~	~~400~~	~~4168~~	~~1.123~~	~~17.24~~
0H07053-CALA	600	2097578	1.026	17.27

AVE RF **0.957** RF RSD **6.31** AVE RT **17.24**

Benzo(a)pyrene

Curve Fit: **AVERAGE RF**

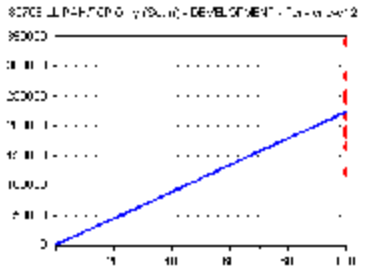


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1248	0.754	17.94
0H07053-CAL2	2	2639	0.681	17.94
0H07053-CAL3	5	5991	0.649	17.94
0H07053-CAL4	10	8146	0.662	17.94
0H07053-CAL5	20	31202	0.717	17.94
0H07053-CAL6	50	95892	0.756	17.94
0H07053-CAL7	100	190371	0.778	17.95
0H07053-CAL8	200	456627	0.805	17.95
~~0H07053-CAL9~~	~~400~~	~~2895~~	~~0.780~~	~~17.94~~
0H07053-CALA	600	1663091	0.813	17.97

AVE RF **0.735** RF RSD **8.29** AVE RT **17.95**

Perylene-d12 (ISTD)

Curve Fit: **AVERAGE RF**

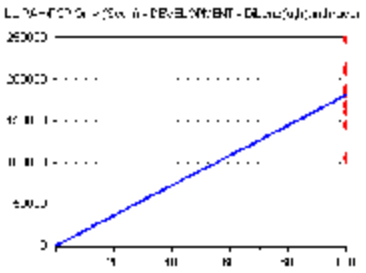


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	100	165499	1654.990	18.08
0H07053-CAL2	100	193636	1936.360	18.08
0H07053-CAL3	100	184622	1846.220	18.08
0H07053-CAL4	100	123119	1231.190	18.08
0H07053-CAL5	100	217457	2174.570	18.08
0H07053-CAL6	100	253628	2536.280	18.08
0H07053-CAL7	100	244609	2446.090	18.08
0H07053-CAL8	100	283565	2835.650	18.09
~~0H07053-CAL9~~	~~100~~	~~928~~	~~9.280~~	~~18.08~~
0H07053-CALA	100	340814	3408.140	18.10

AVE RF **2229.943** RF RSD **29.49** AVE RT **18.08**

Dibenz(a,h)anthracene-d14 (ISTD

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	100	145171	1451.710	20.46
0H07053-CAL2	100	168561	1685.610	20.46
0H07053-CAL3	100	160255	1602.550	20.46
0H07053-CAL4	100	105945	1059.450	20.46
0H07053-CAL5	100	184403	1844.030	20.46
0H07053-CAL6	100	213890	2138.900	20.47
0H07053-CAL7	100	188292	1882.920	20.47
0H07053-CAL8	100	210998	2109.980	20.47
~~0H07053-CAL9~~	~~100~~	~~858~~	~~8.580~~	~~20.46~~
0H07053-CALA	100	249015	2490.150	20.49

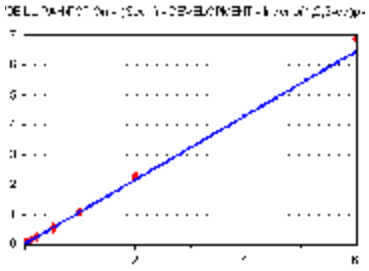
AVE RF **1807.256** RF RSD **23.29** AVE RT **20.47**

Element Calibration Review Sheet

Calibration ID: **A0H1005** Instrument: **SV-GCMS14** Calibration Date: **08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc** Instrument Cal ID: **A0H1005**

Indeno(1,2,3-cd)pyrene

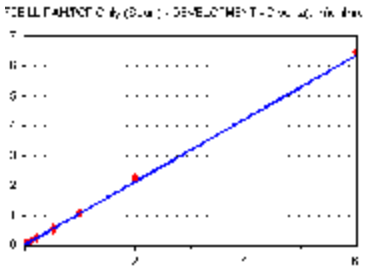


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1534	1.057	20.47
0H07053-CAL2	2	3539	1.050	20.47
0H07053-CAL3	5	8352	1.042	20.47
0H07053-CAL4	10	11197	1.057	20.47
0H07053-CAL5	20	38988	1.057	20.47
0H07053-CAL6	50	112418	1.051	20.47
0H07053-CAL7	100	206306	1.096	20.48
0H07053-CAL8	200	476115	1.128	20.48
~~0H07053-CAL9~~	~~400~~	~~3761~~	~~1.096~~	~~20.47~~
0H07053-CALA	600	1715742	1.148	20.51

AVE RF **1.076** RF RSD **3.58** AVE RT **20.48**

Dibenz(a,h)anthracene

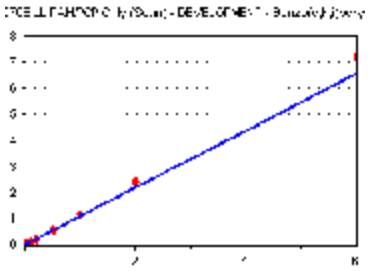


Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1542	1.062	20.53
0H07053-CAL2	2	3567	1.058	20.53
0H07053-CAL3	5	8113	1.013	20.53
0H07053-CAL4	10	10692	1.009	20.53
0H07053-CAL5	20	38552	1.045	20.53
0H07053-CAL6	50	109524	1.024	20.53
0H07053-CAL7	100	209030	1.110	20.54
0H07053-CAL8	200	473722	1.123	20.54
~~0H07053-CAL9~~	~~400~~	~~4212~~	~~1.227~~	~~20.53~~
0H07053-CALA	600	1613131	1.080	20.56

AVE RF **1.058** RF RSD **3.83** AVE RT **20.54**

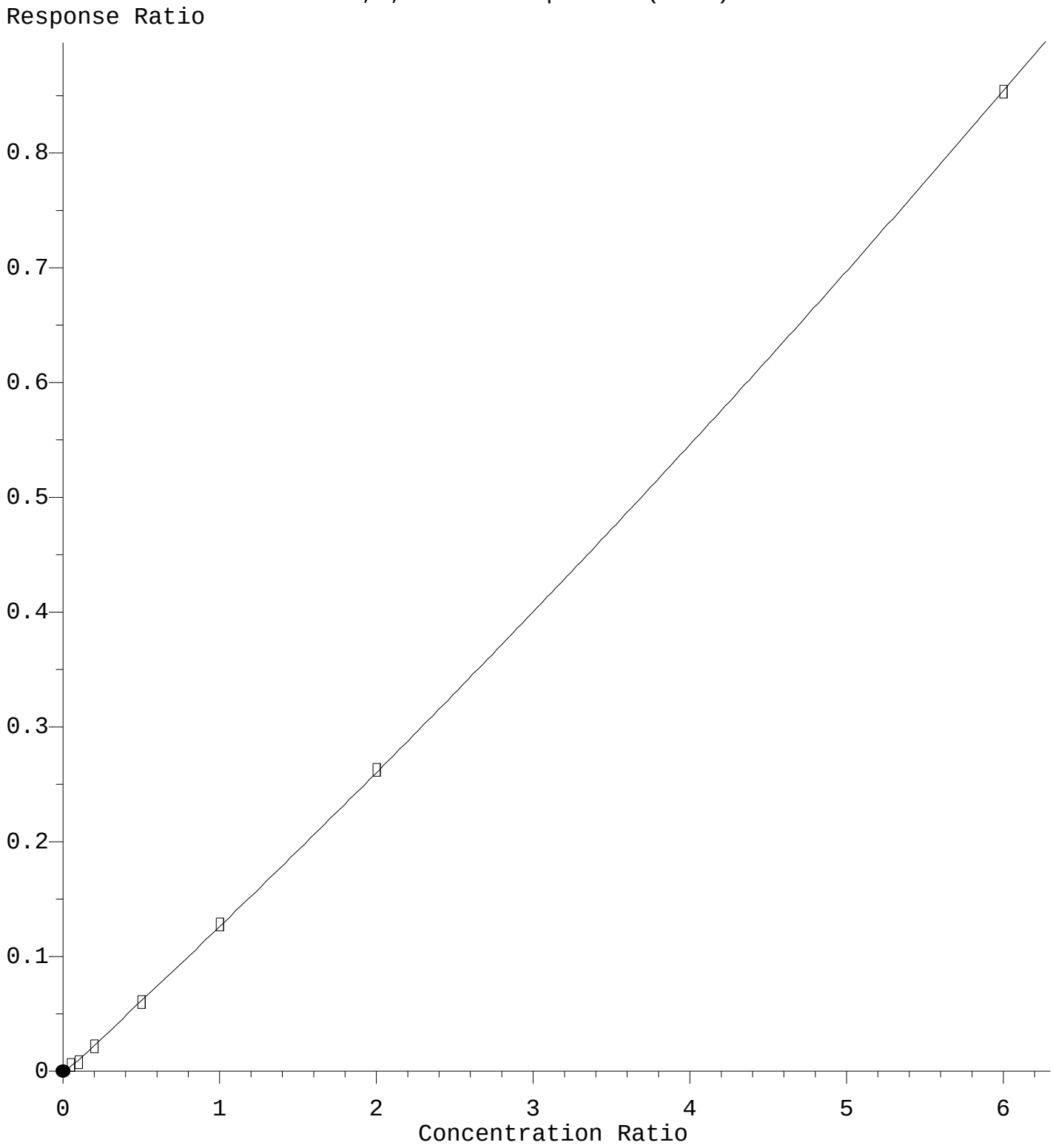
Benzo(g,h,i)perylene



Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1456	1.003	21.00
0H07053-CAL2	2	3455	1.025	21.00
0H07053-CAL3	5	8033	1.003	21.00
0H07053-CAL4	10	11076	1.045	21.00
0H07053-CAL5	20	39660	1.075	21.00
0H07053-CAL6	50	118269	1.106	21.01
0H07053-CAL7	100	220629	1.172	21.01
0H07053-CAL8	200	511963	1.213	21.02
~~0H07053-CAL9~~	~~400~~	~~4287~~	~~1.249~~	~~21.01~~
0H07053-CALA	600	1802480	1.206	21.04

AVE RF **1.094** RF RSD **7.73** AVE RT **21.01**

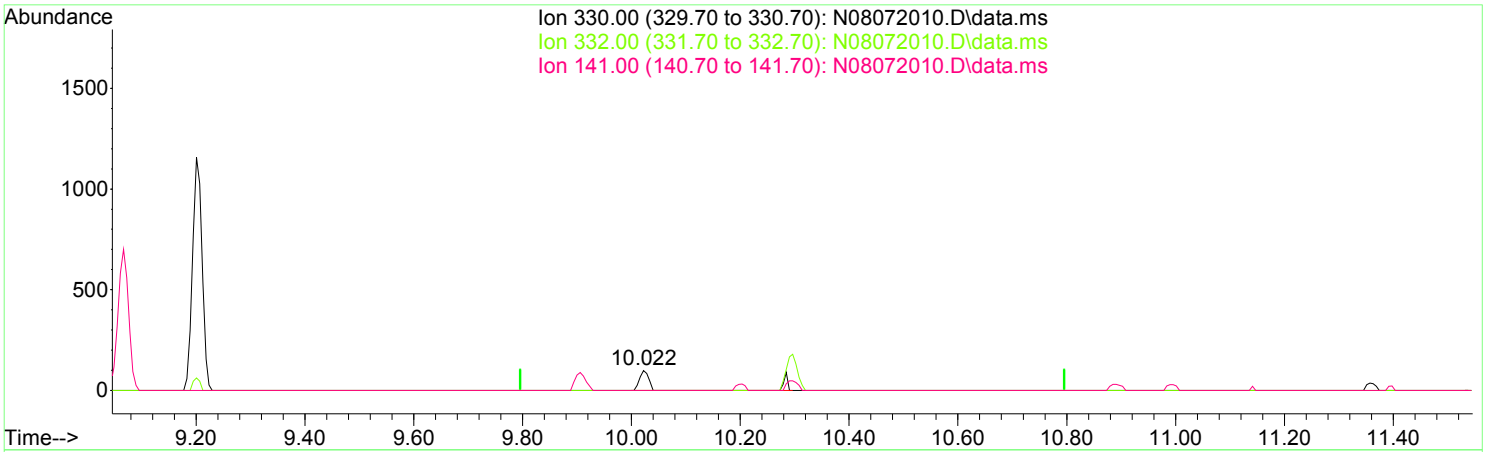


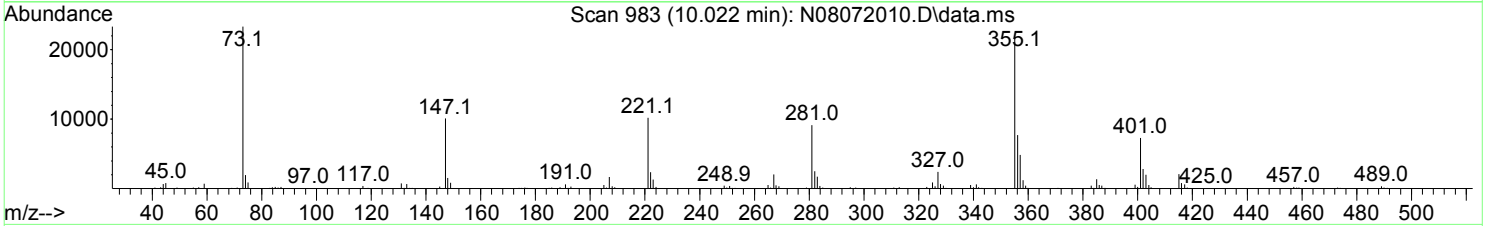
R = 2.86e-003 A*A + 1.26e-001 A - 2.41e-003
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)
Method Name: M:\methods\SV14_080720.M
Calibration Table Last Updated: Mon Aug 10 09:29:52 2020

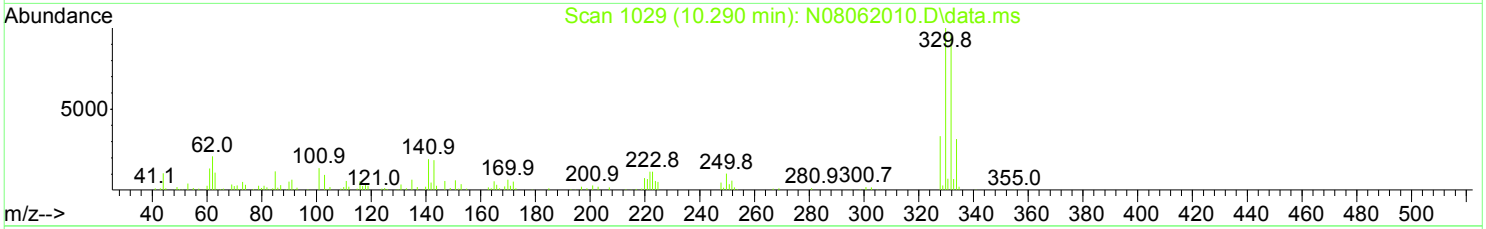
Quantitation Report (Qedit)

Data Path : M:\data\2020-08\0H07053\REQUANT\
Data File : N08072010.D
Acq On : 07 Aug 2020 04:50 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL1
Misc : 1x, A20H127@1PPB
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 12:57:45 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration







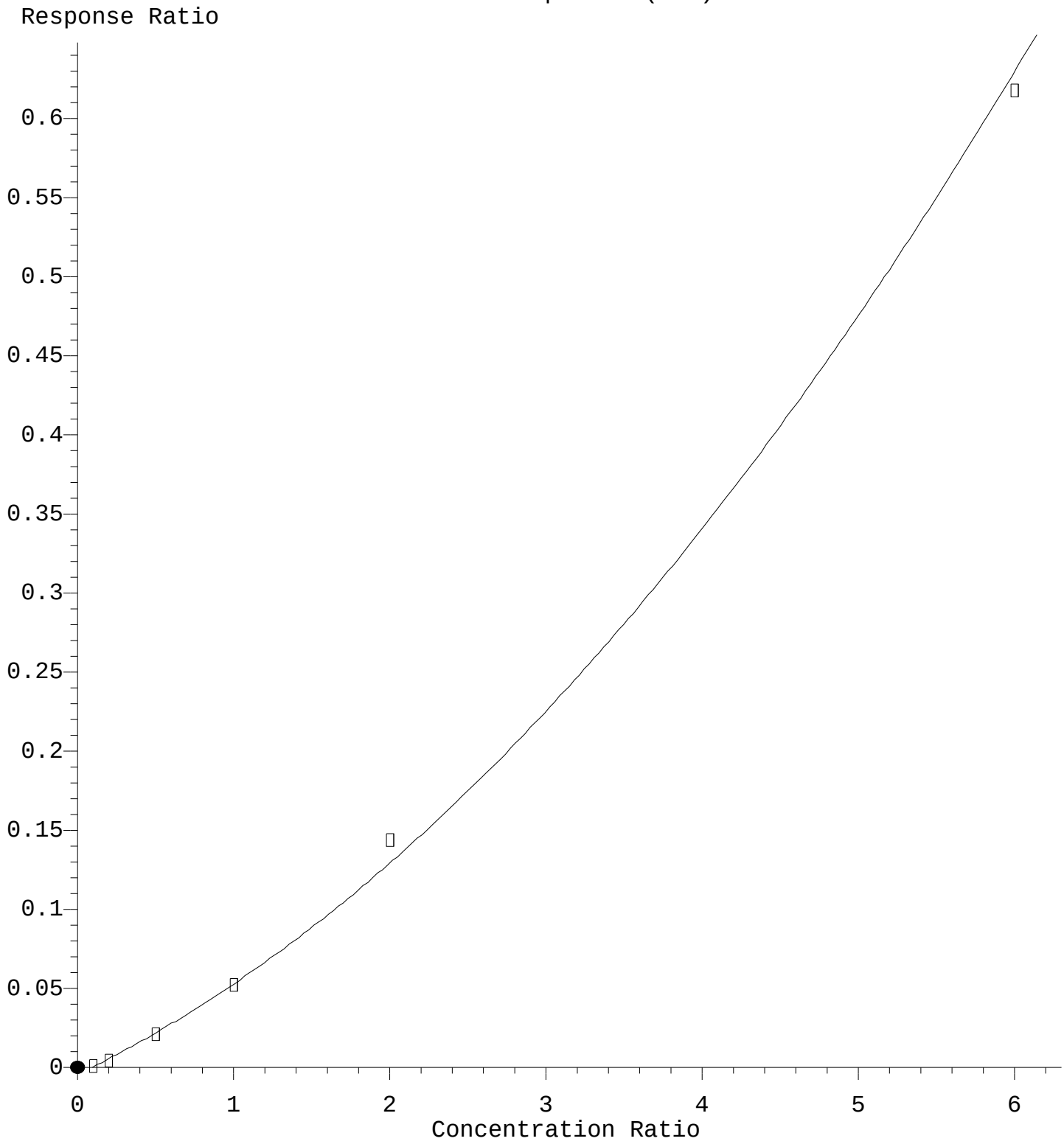
TIC: N08072010.D\data.ms

(17) 2,4,6-Tribromophenol (Surr) (S)

10.022min (-0.274) 2.45 ng/ml m

response 155

Ion	Exp%	Act%
330.00	100.00	100.00
332.00	99.00	0.00#
141.00	30.00	0.00
0.00	0.00	0.00

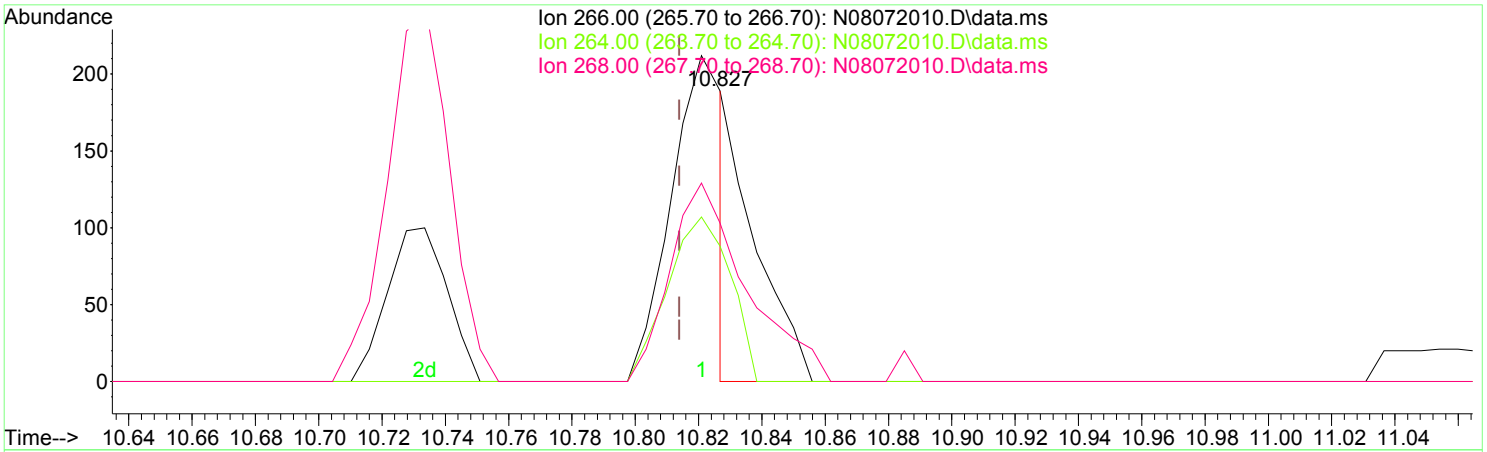


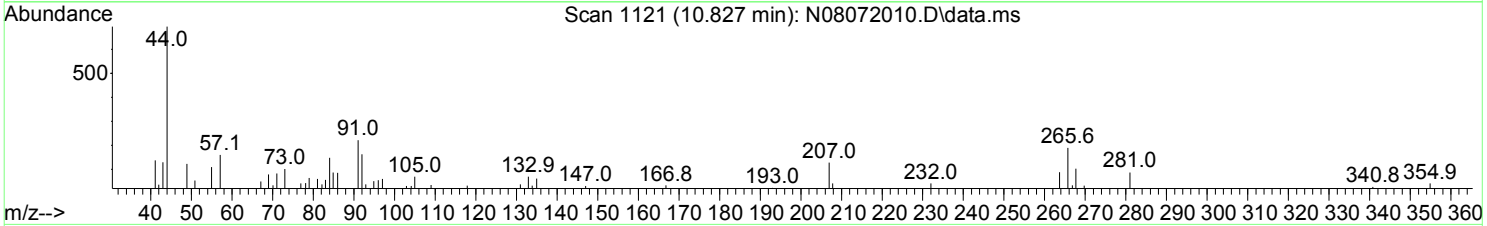
R = 9.72e-003 A*A + 4.74e-002 A - 4.31e-003
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: M:\methods\SV14_080720.M
Calibration Table Last Updated: Mon Aug 10 09:29:52 2020

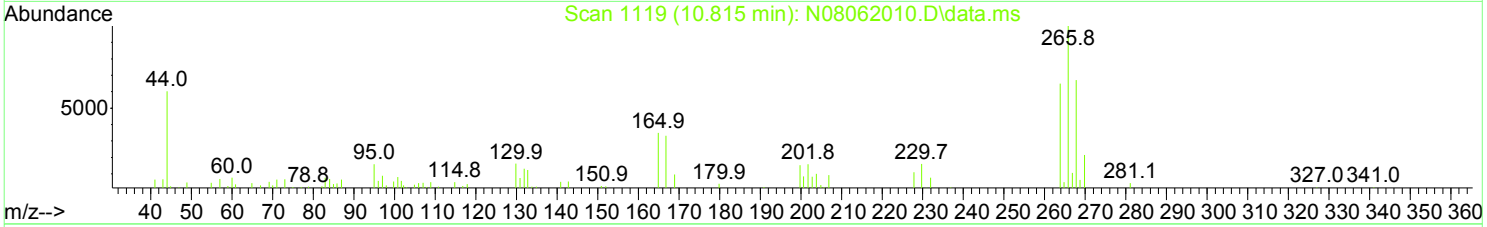
Quantitation Report (Qedit)

Data Path : M:\data\2020-08\0H07053\REQUANT\
Data File : N08072010.D
Acq On : 07 Aug 2020 04:50 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL1
Misc : 1x, A20H127@1PPB
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 12:57:45 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration







TIC: N08072010.D\data.ms

(18) Pentachlorophenol (PCP) (T)

10.827min (+ 0.013) 9.86 ng/ml m

response 107

Ion	Exp%	Act%
266.00	100.00	100.00
264.00	63.00	46.56
268.00	64.00	54.50
0.00	0.00	0.00

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0H07053

Analysis Included

8270E LL PAH/PCP Only (Scan) - DEVELOPMENT

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD ID	Analyzed	
0H07053-TUN1	MS Tune	Soil	A20H065	A20G263	8/7/2020	3:49:00PM
0H07053-ICB1	Initial Cal Blank	Soil		A20G263	8/7/2020	4:17:00PM
0H07053-CAL1	Cal Standard	Soil	A20H127	"	8/7/2020	4:50:00PM
0H07053-CAL2	Cal Standard	Soil	A20H128	"	8/7/2020	5:23:00PM
0H07053-CAL3	Cal Standard	Soil	A20H129	"	8/7/2020	5:56:00PM
0H07053-CAL4	Cal Standard	Soil	A20H130	"	8/7/2020	6:29:00PM
0H07053-CAL5	Cal Standard	Soil	A20H131	"	8/7/2020	7:02:00PM
0H07053-CAL6	Cal Standard	Soil	A20H132	"	8/7/2020	7:35:00PM
0H07053-CAL7	Cal Standard	Soil	A20H133	"	8/7/2020	8:07:00PM
0H07053-CAL8	Cal Standard	Soil	A20H134	"	8/7/2020	8:40:00PM
0H07053-CAL9	Cal Standard	Soil	A20H135	"	8/7/2020	9:12:00PM
0H07053-CALA	Cal Standard	Soil	A20H136	"	8/7/2020	9:45:00PM
0H07053-ICV1	Initial Cal Check	Soil	A20H138	"	8/7/2020	11:23:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0H1005** Instrument: **SV-GCMS14**

8270E LL PAH/PCP Only (Sca Sequence: **0H07053** Matrix: **Soil**

0H07053-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

0H07053-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

0H07053-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

0H07053-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

0H07053-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

0H07053-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

0H07053-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

0H07053-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

0H07053-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Fluoranthene	10.0000	269.44	400	67	Misinjection. Point not included.
Fluorene	10.0000	213.74	400	53	
Pentachlorophenol (PCP)	100.0000	8.93	400	2	

0H07053-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0H07053

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: **A0H1005** Instrument: **SV-GCMS14**

8270E LL PAH/PCP Only (Sca Sequence: **0H07053** Matrix: **Soil**

0H07053-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 : M:\data\2020-08\0H07053\
Data File : N08072022.D
Acq On : 07 Aug 2020 11:23 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICV1
Misc : 1x, A20H138@50PPB
ALS Vial : 13 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 13:00:22 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Naphthalene-d8 (ISTD)	100.000	100.000	0.0	108	0.00
2	S	Nitrobenzene-d5 (Surr)	50.000	47.127	5.7	102	0.00
3	T	Decalin	50.000	43.576	12.8	106	0.00
4	T	Naphthalene	50.000	48.281	3.4	108	0.00
5	T	2-Methylnaphthalene	50.000	50.681	-1.4	105	0.00
6	T	1-Methylnaphthalene	50.000	50.028	-0.1	105	0.00
7	T	1,1'-Biphenyl	50.000	48.208	3.6	102	0.00
8	T	2,6-Dimethylnaphthalene	50.000	48.235	3.5	100	0.00
9	I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	104	0.00
10	S	2-Fluorobiphenyl (Surr)	50.000	50.247	-0.5	100	0.00
11	T	Acenaphthylene	50.000	52.097	-4.2	104	0.00
12	T	Acenaphthene	50.000	49.583	0.8	103	0.00
13	T	Dibenzofuran	50.000	49.295	1.4	99	0.00
14	T	1,6,7-Trimethylnaphthalene	50.000	48.012	4.0	97	0.00
15	T	Fluorene	50.000	50.676	-1.4	101	0.00
16	I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	104	0.00
17	S	2,4,6-Tribromophenol (Surr)	50.000	43.379	13.2	91	0.00
18	T	Pentachlorophenol (PCP)	50.000	42.038	15.9	86	0.00
19	T	Dibenzothiopene	50.000	47.268	5.5	97	0.00
20	T	Phenanthrene	50.000	49.220	1.6	103	0.00
21	T	Anthracene	50.000	52.836	-5.7	104	0.00
22	T	Carbazole	50.000	54.947	-9.9	99	0.00
23	T	1-Methylphenanthrene	50.000	50.291	-0.6	100	0.00
24	T	Fluoranthene	50.000	52.978	-6.0	106	0.00
25	I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	102	0.00
26	T	Pyrene	50.000	51.172	-2.3	106	0.00
27	S	Terphenyl-d14 (Surr)	50.000	50.301	-0.6	100	0.00
28	T	Benz(a)anthracene	50.000	45.988	8.0	97	0.00
29	T	Chrysene	50.000	48.870	2.3	99	0.00

Data Path : M:\data\2020-08\0H07053\
Data File : N08072022.D
Acq On : 07 Aug 2020 11:23 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICV1
Misc : 1x, A20H138@50PPB
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 10 13:00:22 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
30	I	Perylene-d12 (ISTD)	100.000	100.000	0.0	99	0.00
31	T	Benzo(b)fluoranthene	50.000	49.217	1.6	97	0.00
32	T	Benzo(k)fluoranthene	50.000	50.597	-1.2	97	0.00
33	T	Benzo(b+k)fluoranthene	100.000	100.350	-0.3	97	-0.06
34	T	Benzo(e)pyrene	50.000	48.283	3.4	95	0.00
35	T	Benzo(a)pyrene	50.000	56.591	-13.2	108	0.00
36	T	Perylene	50.000	48.448	3.1	94	0.00
37	I	Dibenz(a,h)Anthrcene-d14(IS	100.000	100.000	0.0	93	0.00
38	T	Indeno(1,2,3-cd)Pyrene	50.000	46.572	6.9	89	0.00
39	T	Dibenz(a,h)anthracene	50.000	49.152	1.7	94	0.00
40	T	Benzo(g,h,i)perylene	50.000	51.184	-2.4	94	0.00

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072008.D
Acq On : 07 Aug 2020 03:49 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-TUN1
Misc : 1x, A20H065 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:11:05 2020
Quant Method : M:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Fri Aug 07 10:05:11 2020
Response via : Initial Calibration

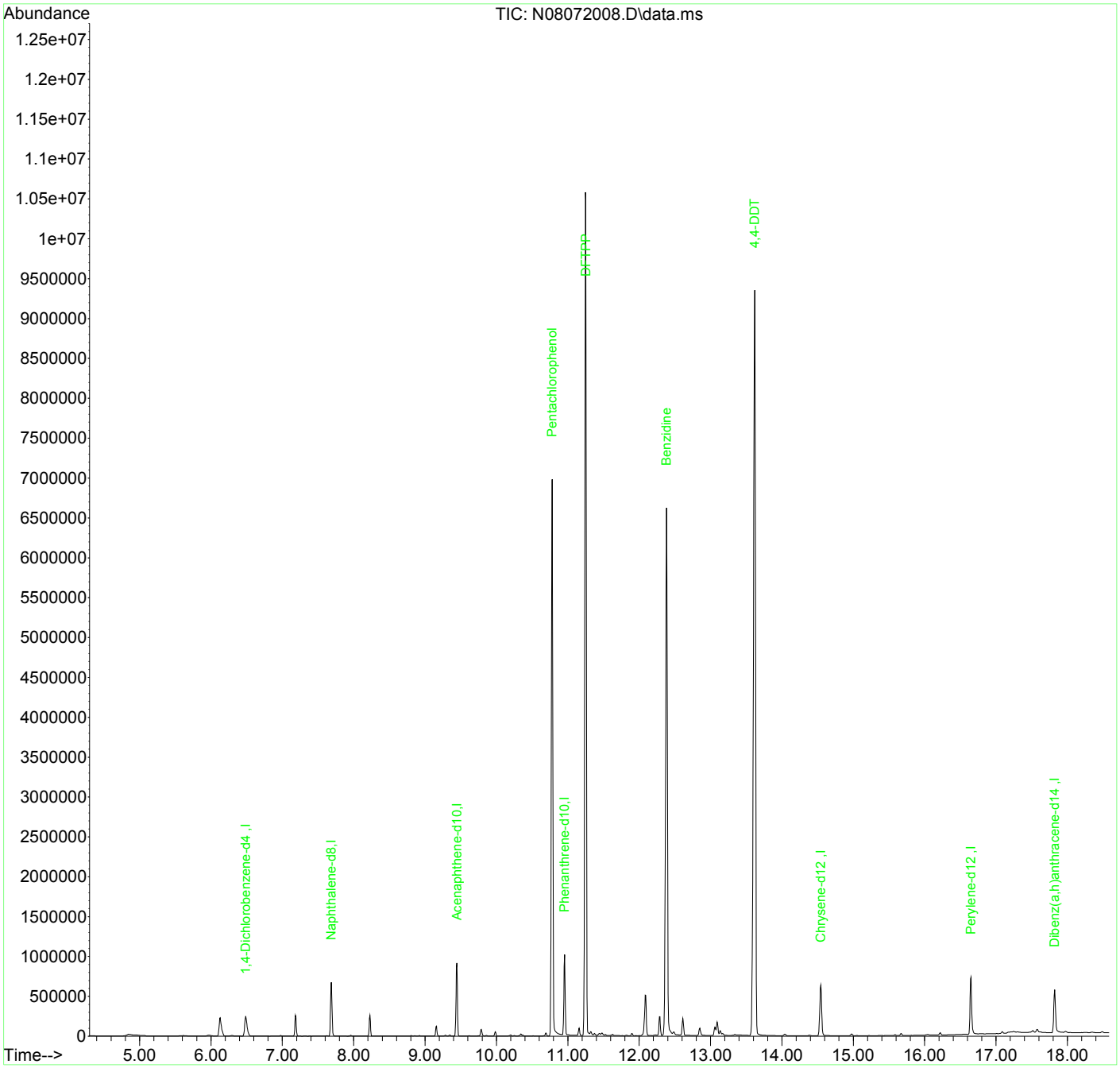
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.484	150	163773	2.00	ug/mL	0.00
2) Naphthalene-d8	7.685	136	475496	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.445	162	281036	2.00	ug/mL	0.00
5) Phenanthrene-d10	10.955	188	535972	2.00	ug/mL	0.00
11) Chrysene-d12	14.545	240	459393	2.00	ug/mL	0.00
12) Perylene-d12	16.649	264	434984	2.00	ug/mL	0.00
13) Dibenz(a,h)anthracene-...	17.821	292	405964	2.00	ug/mL	# 0.00
Target Compounds						Qvalue
4) Pentachlorophenol	10.780	266	1448817	54.59	ug/mL	78
6) DFTPP	11.252	442	2832049	65.45	ug/mL#	59
7) Benzidine	12.383	184	5105310	26.78	ug/mL	96
8) 4,4-DDE	12.610	TIC	300849	No Calib		
9) 4,4-DDD	13.094	TIC	224952	No Calib		
10) 4,4-DDT	13.618	TIC	18783119	34.17	ug/mL	93

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072008.D
Acq On : 07 Aug 2020 03:49 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-TUN1
Misc : 1x, A20H065 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 10 09:11:05 2020
Quant Method : M:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Fri Aug 07 10:05:11 2020
Response via : Initial Calibration

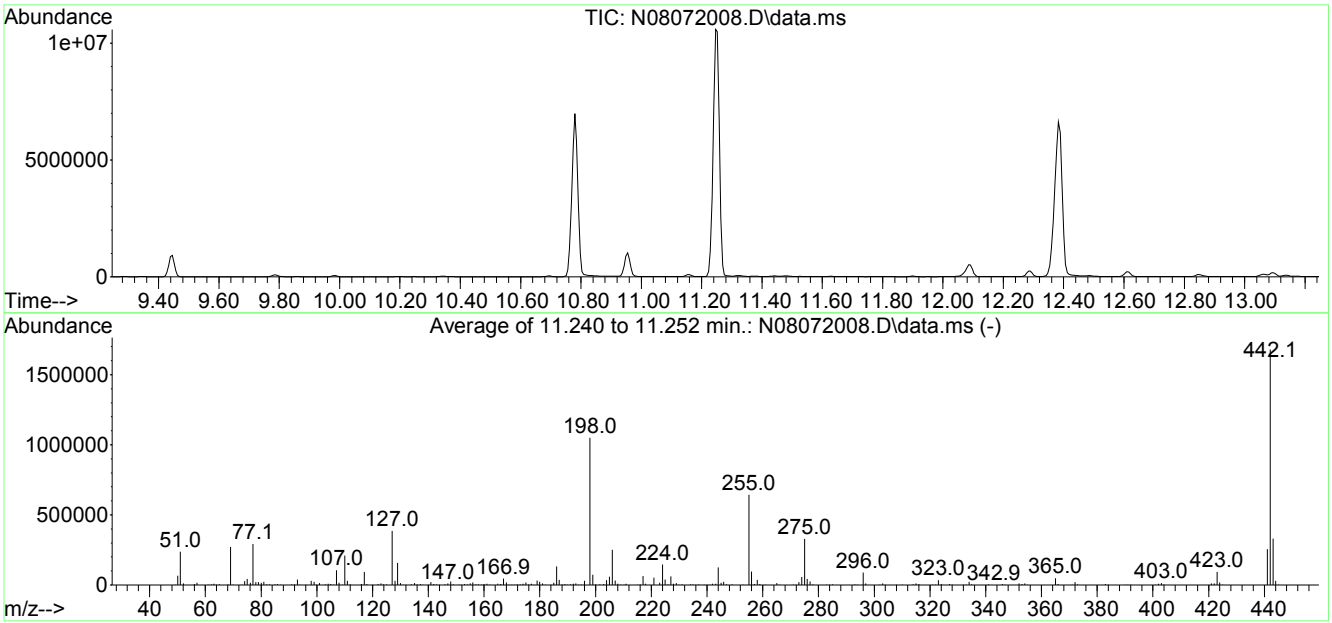


Data Path : M:\data\2020-08\0H07053\
Data File : N08072008.D
Acq On : 07 Aug 2020 03:49 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-TUN1
Misc : 1x, A20H065 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

JK 8/10/20

Integration File: rteint.p

Method : M:\methods\DFTPP.M
Title : 8270 DFTPP Tune Method
Last Update : Fri Aug 07 10:05:11 2020



AutoFind: Scans 1192, 1193, 1194; Background Corrected with Scan 1186

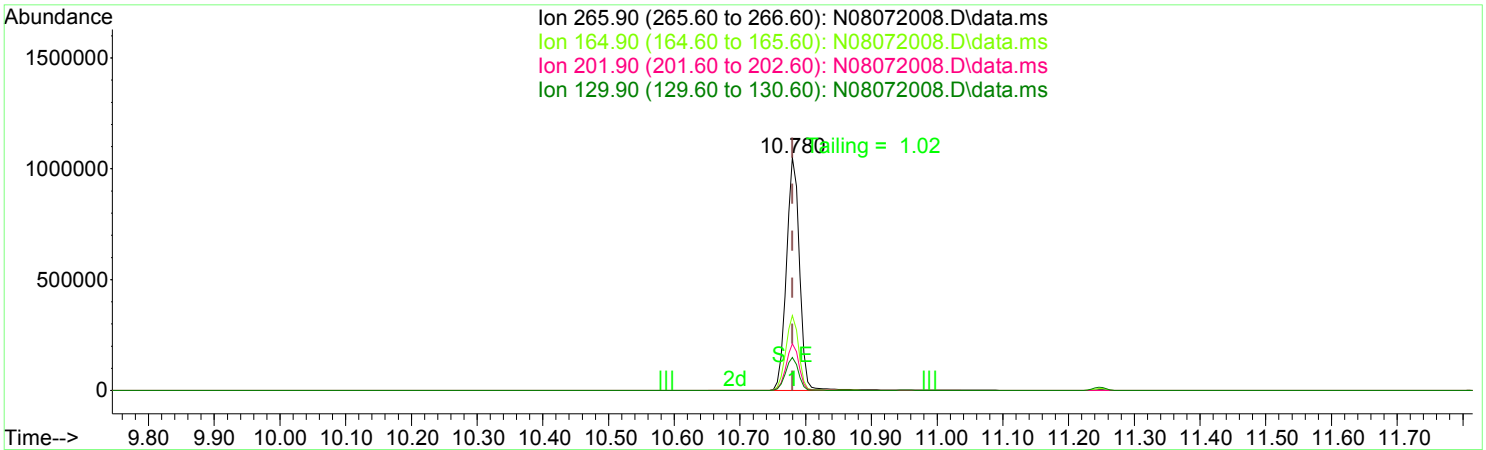
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.9	5279	PASS
69	69	100	100	100.0	272328	PASS
70	69	0.00	2	0.5	1310	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1049408	PASS
199	198	5	9	6.9	72101	PASS
365	198	1	100	4.5	46976	PASS
441	443	0.01	150	77.1	255680	PASS
442	198	0.10	200	160.2	1680896	PASS
443	442	15	24	19.7	331605	PASS

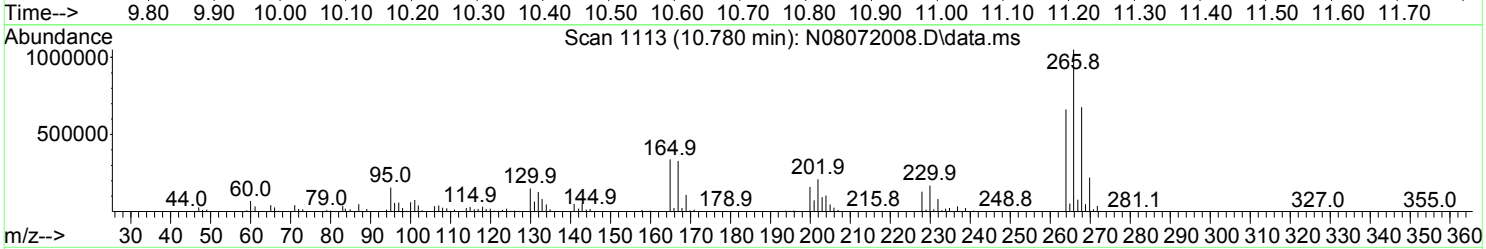
Quantitation Report (Qedit)

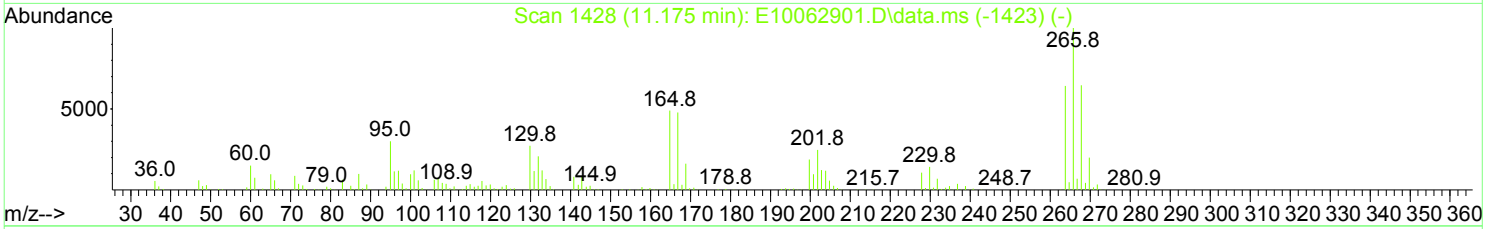
Data Path : M:\data\2020-08\0H07053\
Data File : N08072008.D
Acq On : 07 Aug 2020 03:49 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-TUN1
Misc : 1x, A20H065 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:11:05 2020
Quant Method : M:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Fri Aug 07 10:05:11 2020
Response via : Initial Calibration







TIC: N08072008.D\data.ms

(4) Pentachlorophenol

10.780min (-0.000) 54.59 ug/mL

response 1448817

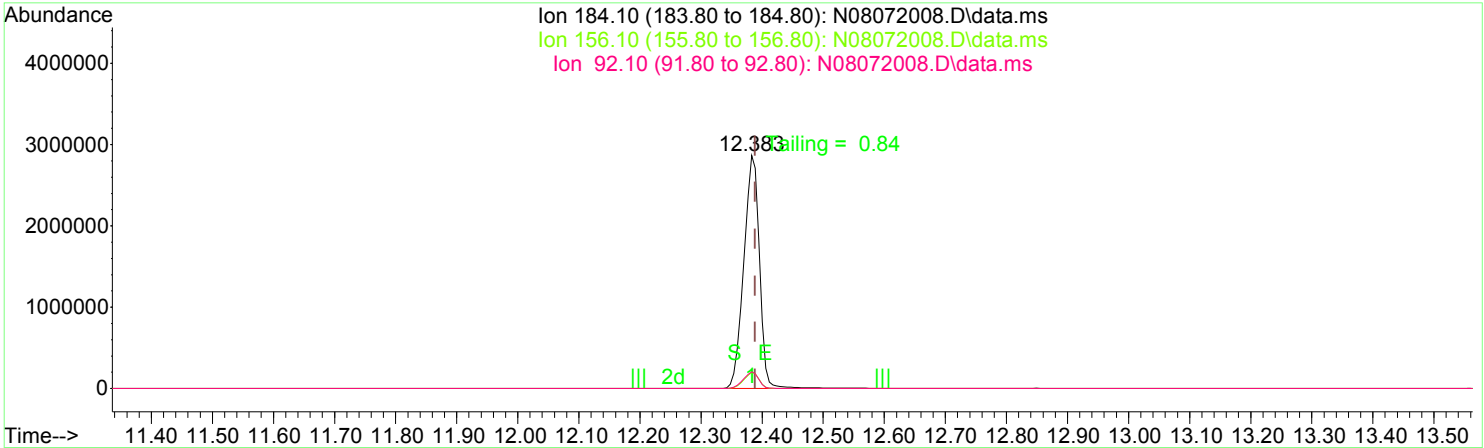
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	32.20
201.90	25.80	20.03
129.90	27.30	14.24

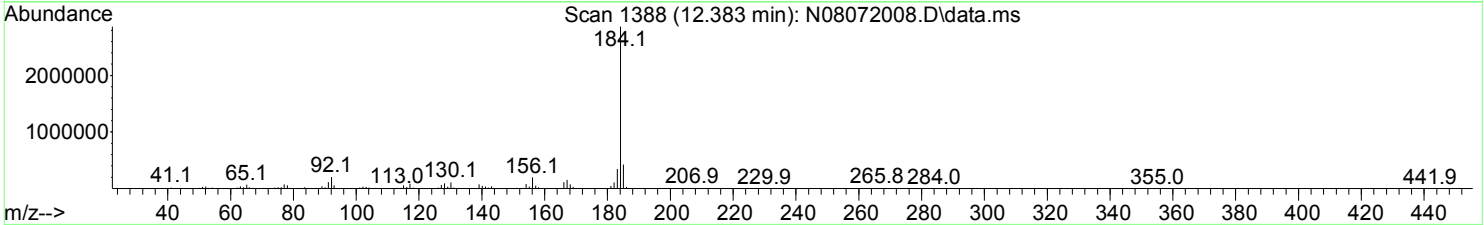
Quantitation Report (Qedit)

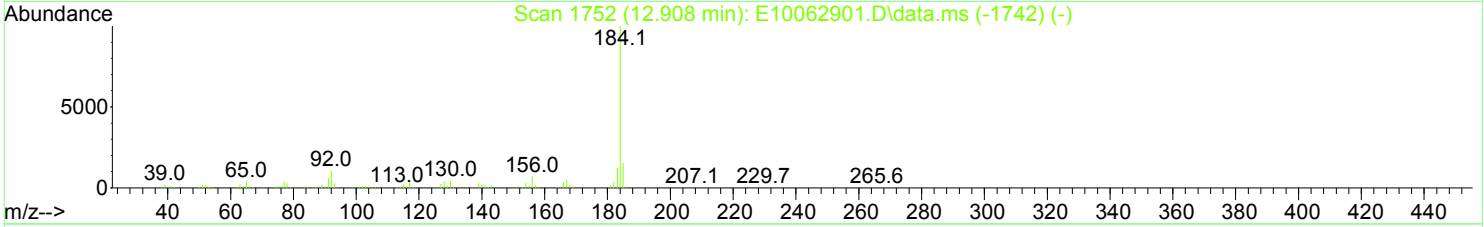
Data Path : M:\data\2020-08\0H07053\
Data File : N08072008.D
Acq On : 07 Aug 2020 03:49 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-TUN1
Misc : 1x, A20H065 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 10 09:11:05 2020
Quant Method : M:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Fri Aug 07 10:05:11 2020
Response via : Initial Calibration

JK 8/10/20







TIC: N08072008.D\data.ms

(7) Benzidine

12.383min (-0.006) 26.78 ug/mL

response 5105310

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.84
92.10	8.20	7.13
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

JK 8/10/20

From:
0H07053-TUN1
SV-GCMS14

First Column Area Counts		Percent Breakdown	
DDE	300849		
DDD	224952		
DDT	18783119	**2.72**	**PASS**

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072009.D
Acq On : 07 Aug 2020 04:17 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:16:01 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.738	136	228242	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	148452	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	270088	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.627	240	219016	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	194197	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.461	292	172516	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.032	82	68	0.11	ng/ml	-0.02
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
17) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
27) Terphenyl-d14 (Surr)	12.727	244	58	0.03	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.767	128	846	N.D.		
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	8.542	142	59	N.D.		
7) 1,1'-Biphenyl	8.909	154	411	N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
11) Acenaphthylene	9.346	152	91	N.D.		
12) Acenaphthene	0.000		0	N.D.		
13) Dibenzofuran	9.696	168	116	N.D.		
14) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
15) Fluorene	10.046	166	67	N.D.		
18) Pentachlorophenol (PCP)	10.815	266	1622	31.24	ng/ml	95
19) Dibenzothiopene	10.891	184	158	N.D.		
20) Phenanthrene	11.019	178	375	N.D.		
21) Anthracene	11.066	178	58	N.D.		
22) Carbazole	11.241	167	119	N.D.		
23) 1-Methylphenanthrene	0.000		0	N.D.		
24) Fluoranthene	12.266	202	92	N.D.		
26) Pyrene	12.535	202	69	N.D.		
28) Benz(a)anthracene	14.627	228	552	N.D.		
29) Chrysene	14.627	228	542	N.D.		
31) Benzo(b)fluoranthene	0.000		0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072009.D
Acq On : 07 Aug 2020 04:17 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

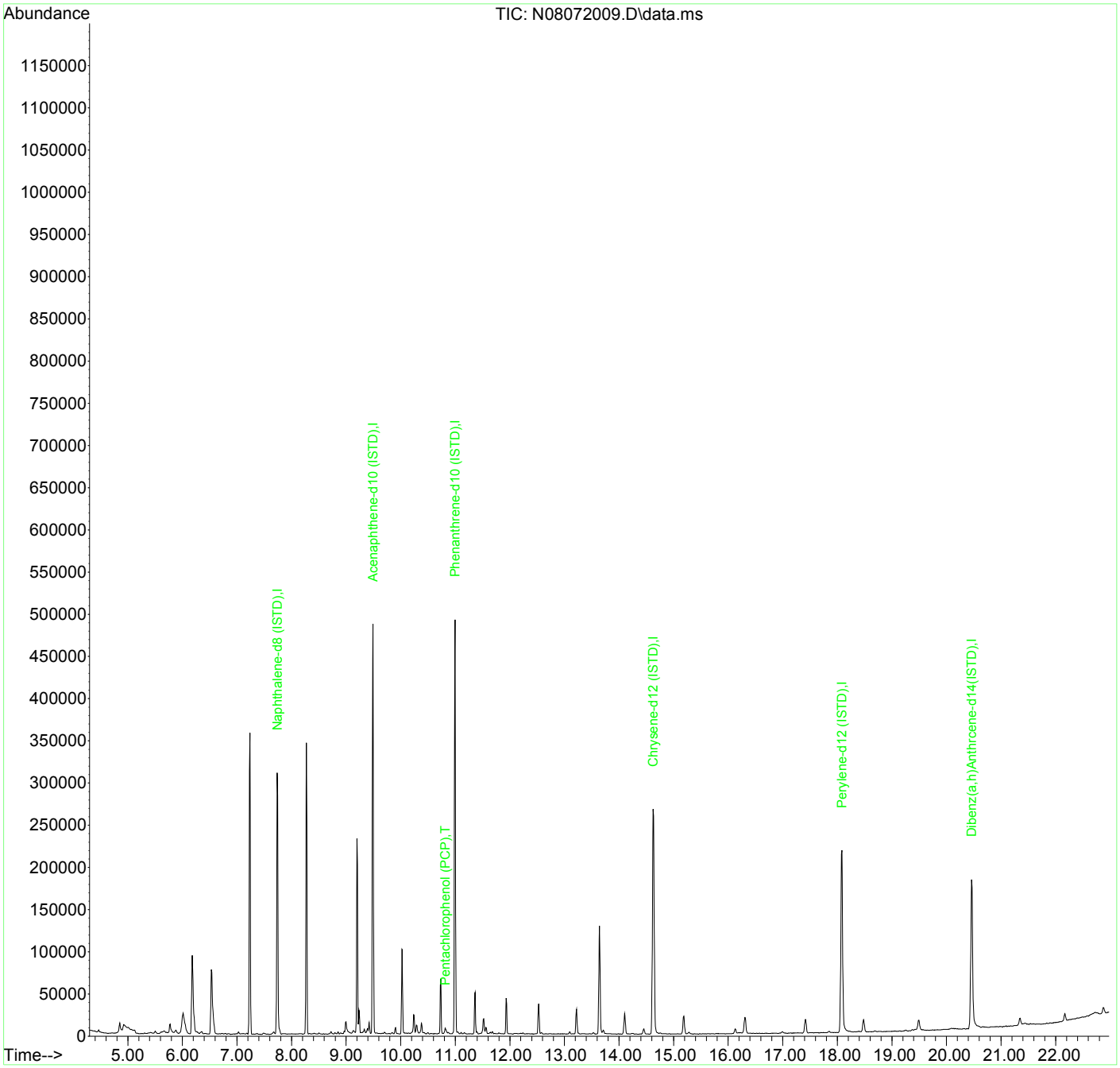
Quant Time: Aug 10 09:16:01 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	0.000		0	N.D.		
33) Benzo(b+k)fluoranthene	0.000		0	N.D.		
34) Benzo(e)pyrene	18.083	252	583	N.D.		
35) Benzo(a)pyrene	0.000		0	N.D.		
36) Perylene	18.124	252	53	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.467	276	121	N.D.		
39) Dibenz(a,h)anthracene	20.531	278	111	N.D.		
40) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Data Path : M:\data\2020-08\0H07053\
Data File : N08072009.D
Acq On : 07 Aug 2020 04:17 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 10 09:16:01 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072009.D
Acq On : 07 Aug 2020 04:17 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

JK 8/10/20

Final Requant

Quant Time: Aug 10 13:00:09 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.738	136	228242	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	148452	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	270088	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.627	240	219016	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	194197	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.461	292	172516	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.032	82	68	0.11	ng/ml	-0.02
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
17) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
27) Terphenyl-d14 (Surr)	12.727	244	58	0.03	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.767	128	846	N.D.		
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	8.542	142	59	N.D.		
7) 1,1'-Biphenyl	8.909	154	411	N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
11) Acenaphthylene	9.346	152	91	N.D.		
12) Acenaphthene	0.000		0	N.D.		
13) Dibenzofuran	9.696	168	116	N.D.		
14) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
15) Fluorene	10.046	166	67	N.D.		
18) Pentachlorophenol (PCP)	10.815	266	1622	20.88	ng/ml	95
19) Dibenzothiopene	10.891	184	158	N.D.		
20) Phenanthrene	11.019	178	375	N.D.		
21) Anthracene	11.066	178	58	N.D.		
22) Carbazole	11.241	167	119	N.D.		
23) 1-Methylphenanthrene	0.000		0	N.D.		
24) Fluoranthene	12.266	202	92	N.D.		
26) Pyrene	12.535	202	69	N.D.		
28) Benz(a)anthracene	14.627	228	552	N.D.		
29) Chrysene	14.627	228	542	N.D.		
31) Benzo(b)fluoranthene	0.000		0	N.D.		

Data Path : M:\data\2020-08\0H07053\
Data File : N08072009.D
Acq On : 07 Aug 2020 04:17 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 10 13:00:09 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

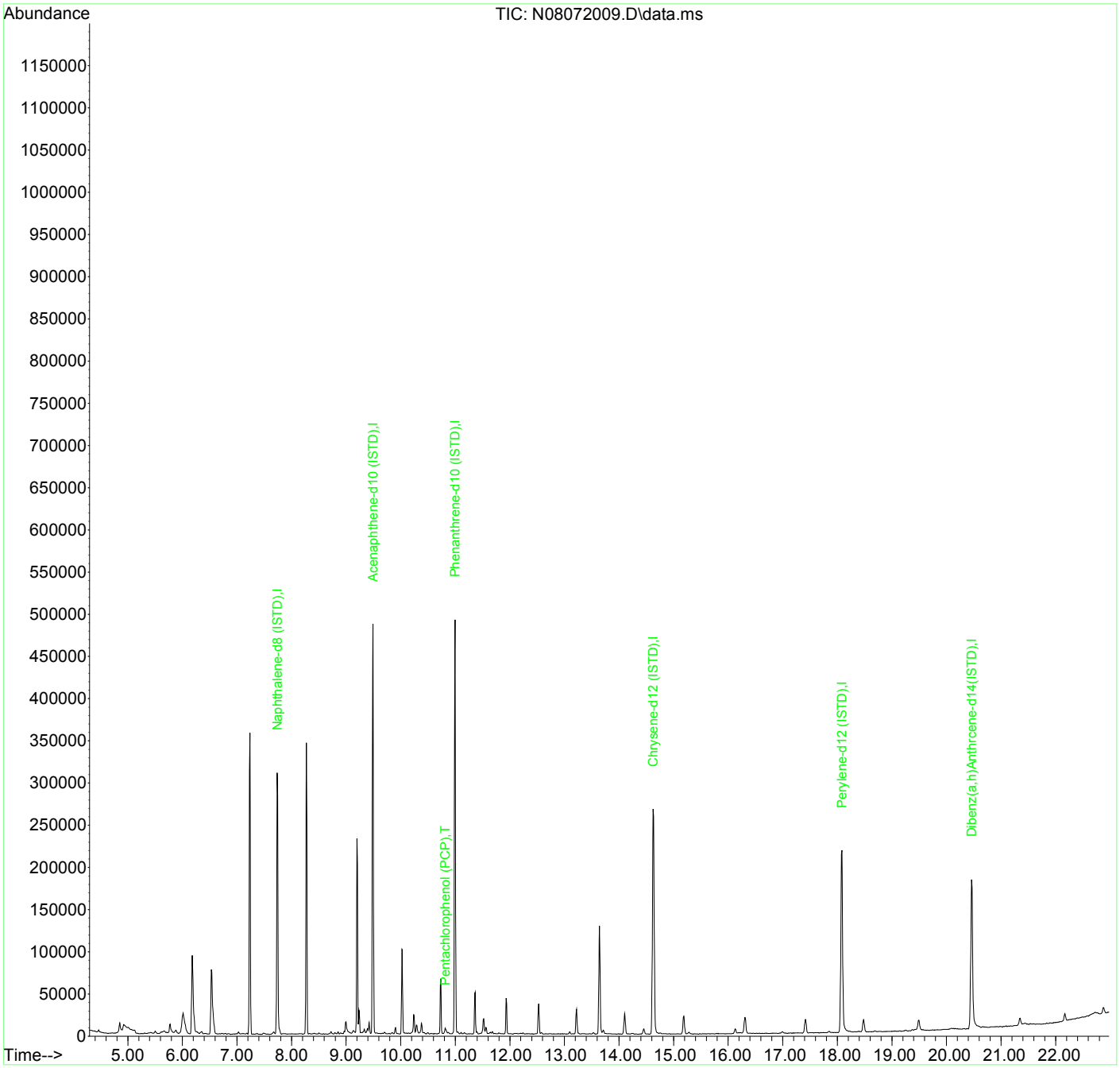
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	0.000		0		N.D.	
33) Benzo(b+k)fluoranthene	0.000		0		N.D.	
34) Benzo(e)pyrene	18.083	252	583		N.D.	
35) Benzo(a)pyrene	0.000		0		N.D.	
36) Perylene	18.124	252	53		N.D.	
38) Indeno(1,2,3-cd)Pyrene	20.467	276	121		N.D.	
39) Dibenz(a,h)anthracene	20.531	278	111		N.D.	
40) Benzo(g,h,i)perylene	0.000		0		N.D.	

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072009.D
Acq On : 07 Aug 2020 04:17 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 10 13:00:09 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072010.D
Acq On : 07 Aug 2020 04:50 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL1
Misc : 1x, A20H127@1PPB
ALS Vial : 3 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:16:16 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.738	136	209647	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	135719	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	232658	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.627	240	186345	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.078	264	165499	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.461	292	145171	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	636	1.12	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	1868	0.91	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ng/ml	
27) Terphenyl-d14 (Surr)	12.727	244	1766	1.00	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.207	138	73	0.50	ng/ml#	25
4) Naphthalene	7.761	128	2500	1.18	ng/ml	99
5) 2-Methylnaphthalene	8.443	142	1415	1.04	ng/ml	94
6) 1-Methylnaphthalene	8.542	142	1486	1.02	ng/ml	92
7) 1,1'-Biphenyl	8.909	154	2062	1.10	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.066	156	1406	1.10	ng/ml	94
11) Acenaphthylene	9.346	152	2000	0.85	ng/ml	94
12) Acenaphthene	9.521	153	1719	1.05	ng/ml	94
13) Dibenzofuran	9.696	168	2029	0.96	ng/ml	93
14) 1,6,7-Trimethylnaphtha...	9.906	170	1573	1.07	ng/ml	77
15) Fluorene	10.046	166	1639	1.02	ng/ml	99
18) Pentachlorophenol (PCP)	10.821	266	350	17.29	ng/ml	90
19) Dibenzothiopene	10.891	184	2158	0.95	ng/ml	95
20) Phenanthrene	11.019	178	2780	1.13	ng/ml	99
21) Anthracene	11.072	178	2020	0.99	ng/ml	97
22) Carbazole	11.241	167	1385	0.95	ng/ml	97
23) 1-Methylphenanthrene	11.643	192	1628	0.93	ng/ml	90
24) Fluoranthene	12.255	202	2457	0.97	ng/ml	95
26) Pyrene	12.535	202	2393	0.92	ng/ml	97
28) Benz(a)anthracene	14.610	228	2208	1.21	ng/ml	95
29) Chrysene	14.685	228	1956	1.02	ng/ml	96
31) Benzo(b)fluoranthene	17.174	252	1669	1.01	ng/ml	92

Data Path : M:\data\2020-08\0H07053\
Data File : N08072010.D
Acq On : 07 Aug 2020 04:50 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL1
Misc : 1x, A20H127@1PPB
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 09:16:16 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

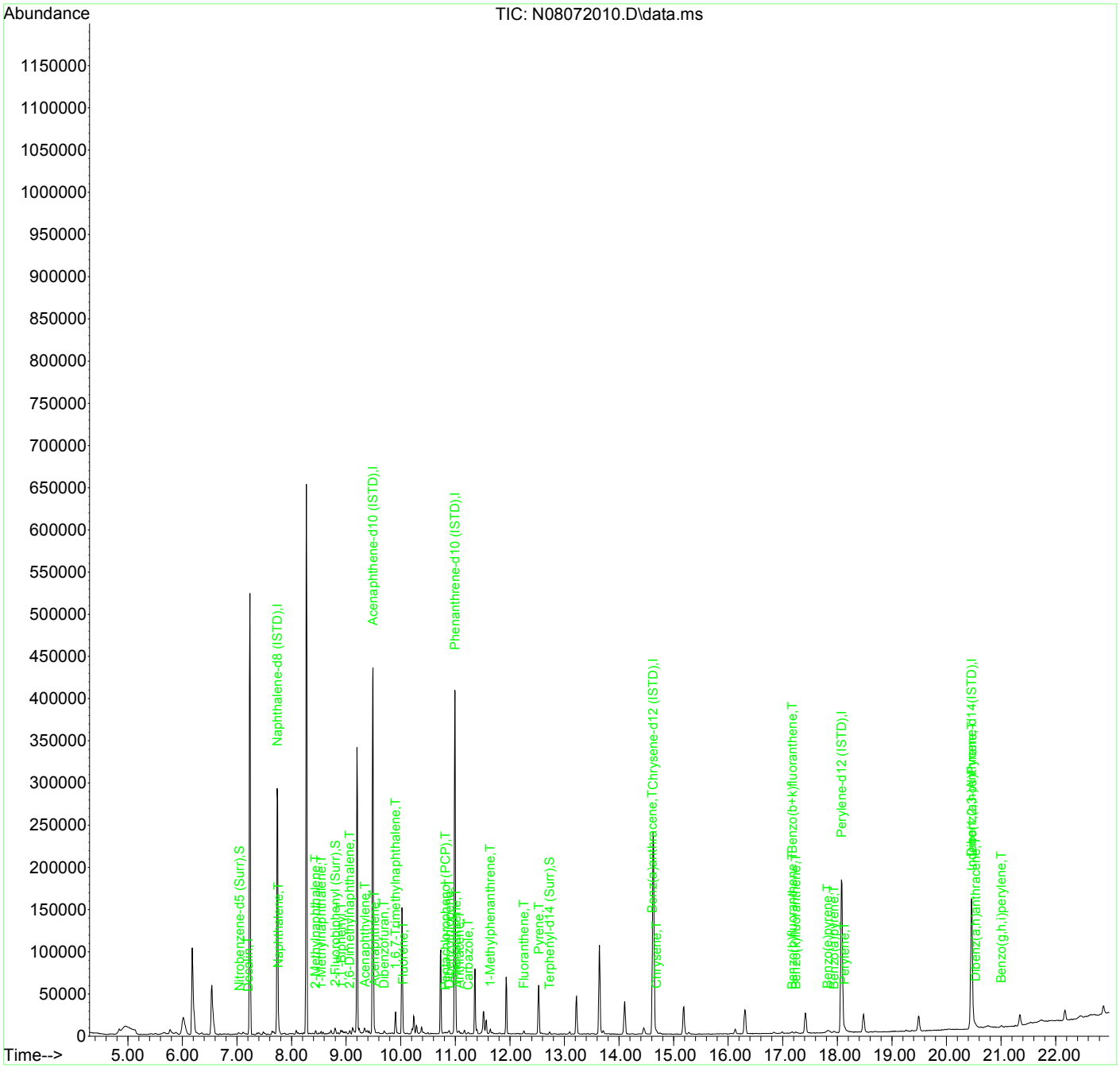
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	1533	0.97	ng/ml	89
33) Benzo(b+k)fluoranthene	17.174	252	3202	1.90	ng/ml	91
34) Benzo(e)pyrene	17.821	252	1561	0.93	ng/ml	97
35) Benzo(a)pyrene	17.938	252	1248	1.03	ng/ml	94
36) Perylene	18.136	252	1844	1.02	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.467	276	1534	0.97	ng/ml	100
39) Dibenz(a,h)anthracene	20.531	278	1542	1.00	ng/ml	82
40) Benzo(g,h,i)perylene	21.004	276	1456	0.89	ng/ml	82

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072010.D
Acq On : 07 Aug 2020 04:50 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL1
Misc : 1x, A20H127@1PPB
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 09:16:16 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072011.D
Acq On : 07 Aug 2020 05:23 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL2
Misc : 1x, A20H128@2PPB
ALS Vial : 4 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:16:29 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.737	136	224491	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	140735	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	244122	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.627	240	211495	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.077	264	193636	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.461	292	168561	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	1270	2.09	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	3920	1.84	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	534	3.11	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.727	244	3805	1.90	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.213	138	253	1.68	ng/ml	92
4) Naphthalene	7.761	128	4784	2.12	ng/ml	99
5) 2-Methylnaphthalene	8.443	142	3298	2.27	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	3232	2.08	ng/ml	99
7) 1,1'-Biphenyl	8.909	154	4144	2.07	ng/ml	92
8) 2,6-Dimethylnaphthalene	9.066	156	2952	2.16	ng/ml	95
11) Acenaphthylene	9.346	152	4408	1.81	ng/ml	98
12) Acenaphthene	9.521	153	3546	2.08	ng/ml	94
13) Dibenzofuran	9.696	168	4184	1.91	ng/ml	95
14) 1,6,7-Trimethylnaphtha...	9.906	170	2991	1.96	ng/ml	89
15) Fluorene	10.046	166	3421	2.05	ng/ml	98
18) Pentachlorophenol (PCP)	10.821	266	248	15.68	ng/ml	78
19) Dibenzothiopene	10.891	184	4973	2.10	ng/ml	92
20) Phenanthrene	11.019	178	5605	2.16	ng/ml	99
21) Anthracene	11.071	178	4212	1.97	ng/ml	94
22) Carbazole	11.240	167	2808	1.83	ng/ml	99
23) 1-Methylphenanthrene	11.643	192	3946	2.14	ng/ml	95
24) Fluoranthene	12.260	202	5246	1.97	ng/ml	94
26) Pyrene	12.534	202	5435	1.84	ng/ml	96
28) Benz(a)anthracene	14.609	228	4545	2.19	ng/ml	95
29) Chrysene	14.685	228	4447	2.04	ng/ml	94
31) Benzo(b)fluoranthene	17.174	252	3889	2.01	ng/ml	93

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072011.D
Acq On : 07 Aug 2020 05:23 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL2
Misc : 1x, A20H128@2PPB
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 10 09:16:29 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

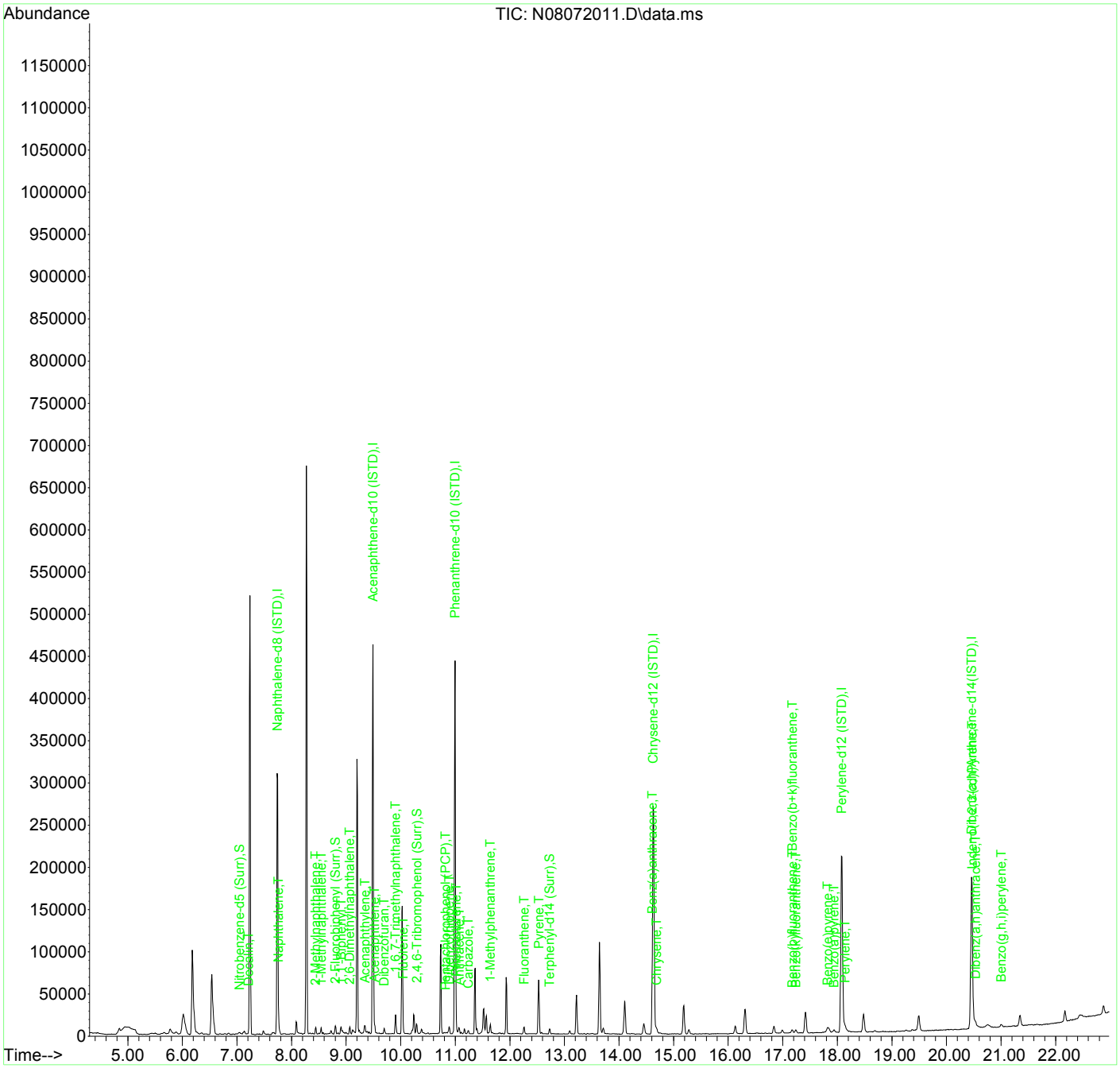
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	3308	1.78	ng/ml	88
33) Benzo(b+k)fluoranthene	17.174	252	7739	3.92	ng/ml	90
34) Benzo(e)pyrene	17.821	252	3634	1.84	ng/ml	96
35) Benzo(a)pyrene	17.937	252	2639	1.86	ng/ml	92
36) Perylene	18.141	252	4119	1.95	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.473	276	3539	1.94	ng/ml	78
39) Dibenz(a,h)anthracene	20.531	278	3567	1.99	ng/ml	81
40) Benzo(g,h,i)perylene	21.003	276	3455	1.82	ng/ml	76

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072011.D
Acq On : 07 Aug 2020 05:23 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL2
Misc : 1x, A20H128@2PPB
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 10 09:16:29 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072012.D
Acq On : 07 Aug 2020 05:56 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL3
Misc : 1x, A20H129@5PPB
ALS Vial : 5 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:17:50 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	226097	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	144275	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	247788	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.627	240	202721	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	184622	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.461	292	160255	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	2968	4.84	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	10278	4.72	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	1324	6.44	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.727	244	9780	5.09	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.213	138	681	4.34	ng/ml	76
4) Naphthalene	7.761	128	11565	5.08	ng/ml	97
5) 2-Methylnaphthalene	8.443	142	8315	5.68	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	8413	5.36	ng/ml	97
7) 1,1'-Biphenyl	8.909	154	10169	5.03	ng/ml	94
8) 2,6-Dimethylnaphthalene	9.066	156	7473	5.43	ng/ml	96
11) Acenaphthylene	9.346	152	11485	4.61	ng/ml	98
12) Acenaphthene	9.521	153	9131	5.22	ng/ml	93
13) Dibenzofuran	9.696	168	10731	4.77	ng/ml	96
14) 1,6,7-Trimethylnaphtha...	9.906	170	7770	4.97	ng/ml	94
15) Fluorene	10.046	166	8551	4.99	ng/ml	98
18) Pentachlorophenol (PCP)	10.821	266	227	15.35	ng/ml	87
19) Dibenzothiopene	10.891	184	12260	5.09	ng/ml	92
20) Phenanthrene	11.019	178	13283	5.05	ng/ml	98
21) Anthracene	11.072	178	10318	4.74	ng/ml	98
22) Carbazole	11.235	167	7544	4.84	ng/ml	98
23) 1-Methylphenanthrene	11.643	192	9463	5.06	ng/ml	98
24) Fluoranthene	12.261	202	13102	4.85	ng/ml	94
26) Pyrene	12.535	202	13318	4.71	ng/ml	99
28) Benz(a)anthracene	14.610	228	9736	4.90	ng/ml	98
29) Chrysene	14.685	228	10771	5.16	ng/ml	95
31) Benzo(b)fluoranthene	17.174	252	8519	4.61	ng/ml	92

Data Path : M:\data\2020-08\0H07053\
Data File : N08072012.D
Acq On : 07 Aug 2020 05:56 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL3
Misc : 1x, A20H129@5PPB
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 10 09:17:50 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

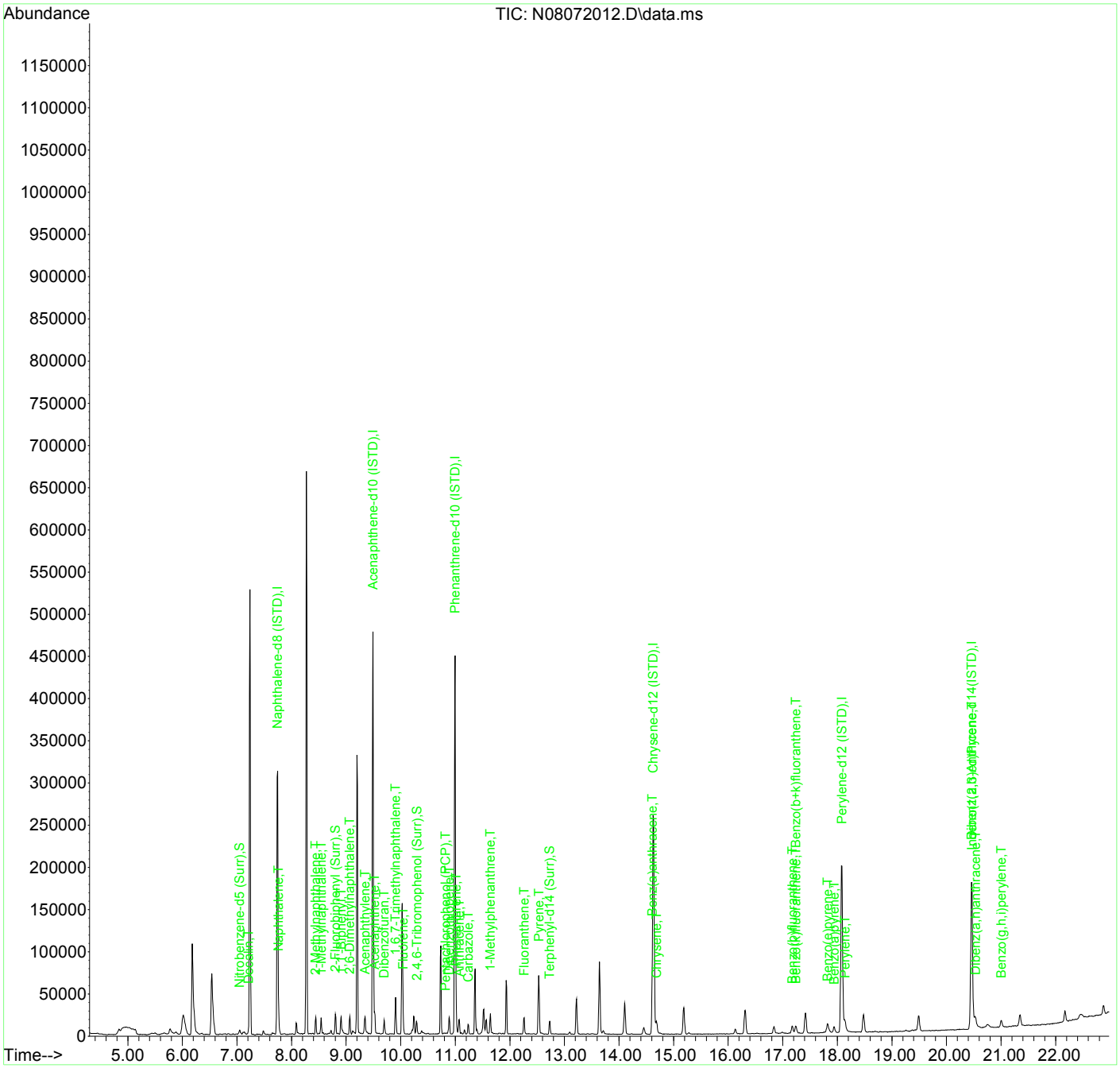
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	8476	4.79	ng/ml	90
33) Benzo(b+k)fluoranthene	17.238	252	18121	9.64	ng/ml	90
34) Benzo(e)pyrene	17.821	252	8909	4.74	ng/ml	95
35) Benzo(a)pyrene	17.943	252	5991	4.42	ng/ml	96
36) Perylene	18.142	252	9618	4.77	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.467	276	8352	4.81	ng/ml	77
39) Dibenz(a,h)anthracene	20.531	278	8113	4.77	ng/ml	77
40) Benzo(g,h,i)perylene	21.004	276	8033	4.44	ng/ml	74

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072012.D
Acq On : 07 Aug 2020 05:56 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL3
Misc : 1x, A20H129@5PPB
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 10 09:17:50 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072013.D
Acq On : 07 Aug 2020 06:29 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL4
Misc : 1x, A20H130@10PPB
ALS Vial : 6 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:18:14 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	228032	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	141904	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	222500	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.627	240	140980	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.077	264	123119	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.461	292	105945	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	5945	9.62	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	19786	9.23	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	1728	8.99	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.732	244	14134	10.57	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.213	138	1550	9.80	ng/ml#	77
4) Naphthalene	7.761	128	23497	10.24	ng/ml	100
5) 2-Methylnaphthalene	8.443	142	16041	10.87	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	16943	10.71	ng/ml	96
7) 1,1'-Biphenyl	8.909	154	19096	9.37	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.066	156	14151	10.20	ng/ml	97
11) Acenaphthylene	9.346	152	23907	9.76	ng/ml	97
12) Acenaphthene	9.521	153	16916	9.84	ng/ml	99
13) Dibenzofuran	9.696	168	19825	8.96	ng/ml	94
14) 1,6,7-Trimethylnaphtha...	9.906	170	15416	10.02	ng/ml	95
15) Fluorene	10.045	166	15667	9.29	ng/ml	99
18) Pentachlorophenol (PCP)	10.821	266	188	15.11	ng/ml	95
19) Dibenzothiopene	10.891	184	21254	9.83	ng/ml	93
20) Phenanthrene	11.019	178	23609	10.00	ng/ml	100
21) Anthracene	11.071	178	17244	8.83	ng/ml	100
22) Carbazole	11.235	167	11174	7.99	ng/ml	99
23) 1-Methylphenanthrene	11.643	192	16553	9.85	ng/ml	97
24) Fluoranthene	12.260	202	22749	9.37	ng/ml	94
26) Pyrene	12.534	202	23593	12.01	ng/ml	98
28) Benz(a)anthracene	14.609	228	13000	9.40	ng/ml	99
29) Chrysene	14.691	228	14280	9.83	ng/ml	100
31) Benzo(b)fluoranthene	17.174	252	12095	9.81	ng/ml	92

Data Path : M:\data\2020-08\0H07053\
Data File : N08072013.D
Acq On : 07 Aug 2020 06:29 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL4
Misc : 1x, A20H130@10PPB
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 10 09:18:14 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

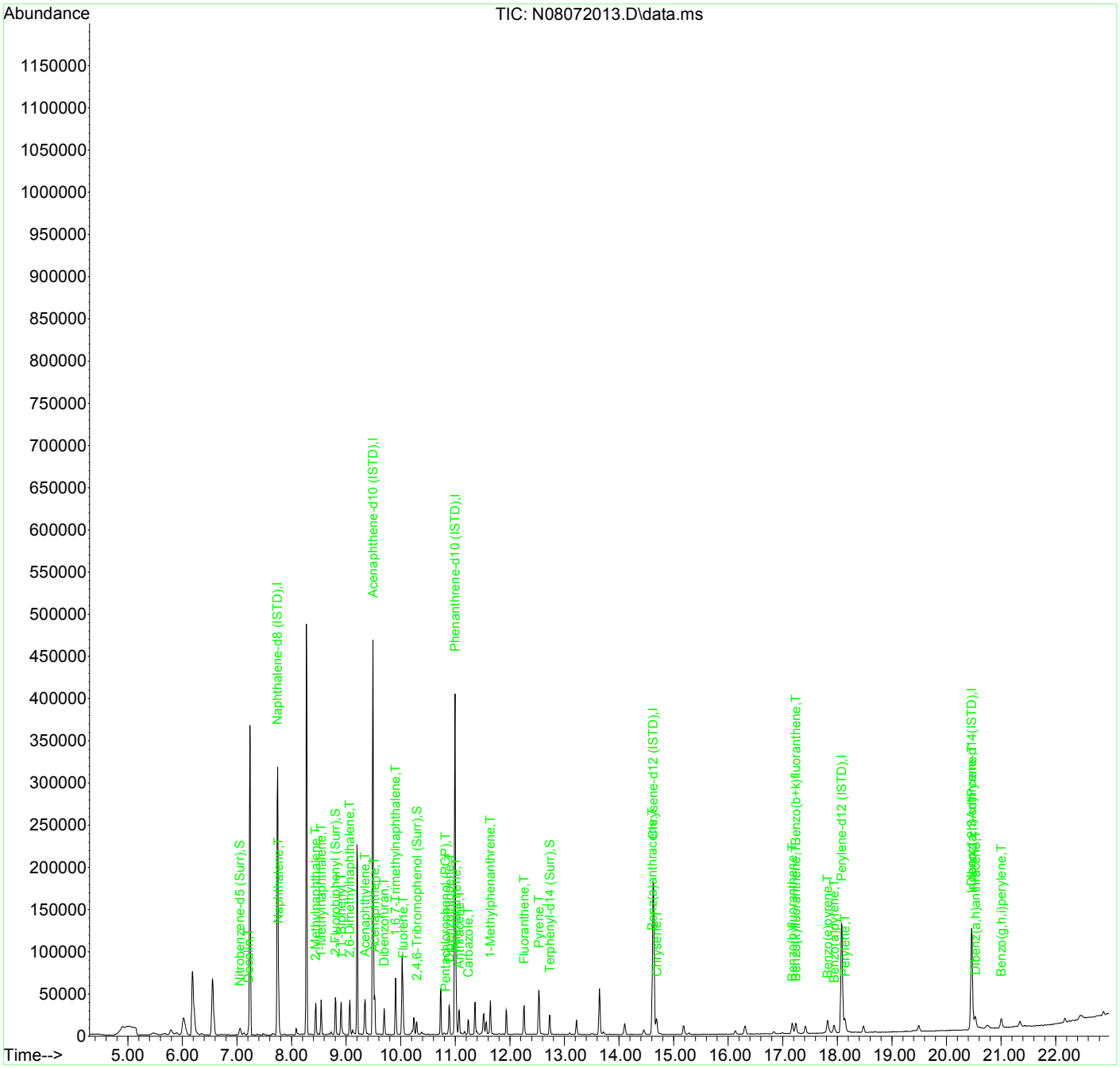
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	11317	9.58	ng/ml	91
33) Benzo(b+k)fluoranthene	17.238	252	24984	19.93	ng/ml	91
34) Benzo(e)pyrene	17.821	252	12447	9.93	ng/ml	95
35) Benzo(a)pyrene	17.943	252	8146	9.02	ng/ml	92
36) Perylene	18.141	252	13495	10.05	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.467	276	11197	9.75	ng/ml	77
39) Dibenz(a,h)anthracene	20.531	278	10692	9.50	ng/ml	82
40) Benzo(g,h,i)perylene	21.003	276	11076	9.26	ng/ml	74

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072013.D
Acq On : 07 Aug 2020 06:29 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL4
Misc : 1x, A20H130@10PPB
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 10 09:18:14 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072014.D
Acq On : 07 Aug 2020 07:02 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL5
Misc : 1x, A20H131@20PPB
ALS Vial : 7 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:18:34 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.738	136	239716	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	155110	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	281843	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.627	240	240100	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	217457	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.461	292	184403	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	13511	20.79	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	45285	19.33	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	6085	23.32	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.727	244	48455	21.28	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.213	138	2656	15.98	ng/ml	80
4) Naphthalene	7.761	128	49268	20.42	ng/ml	99
5) 2-Methylnaphthalene	8.443	142	36143	23.29	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	36280	21.82	ng/ml	96
7) 1,1'-Biphenyl	8.909	154	45039	21.02	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.066	156	33777	23.16	ng/ml	94
11) Acenaphthylene	9.346	152	52295	19.53	ng/ml	98
12) Acenaphthene	9.521	153	38339	20.40	ng/ml	99
13) Dibenzofuran	9.696	168	47868	19.79	ng/ml	93
14) 1,6,7-Trimethylnaphtha...	9.906	170	34865	20.73	ng/ml	98
15) Fluorene	10.046	166	38684	20.99	ng/ml	99
18) Pentachlorophenol (PCP)	10.821	266	1210	26.10	ng/ml	92
19) Dibenzothiopene	10.891	184	55397	20.22	ng/ml	93
20) Phenanthrene	11.019	178	60927	20.37	ng/ml	99
21) Anthracene	11.072	178	50995	20.61	ng/ml	98
22) Carbazole	11.235	167	40816	23.03	ng/ml	98
23) 1-Methylphenanthrene	11.643	192	44908	21.09	ng/ml	96
24) Fluoranthene	12.261	202	64074	20.84	ng/ml	94
26) Pyrene	12.535	202	65612	19.61	ng/ml	99
28) Benz(a)anthracene	14.610	228	46250	19.64	ng/ml	99
29) Chrysene	14.685	228	50228	20.31	ng/ml	99
31) Benzo(b)fluoranthene	17.174	252	44053	20.23	ng/ml	93

Data Path : M:\data\2020-08\0H07053\
Data File : N08072014.D
Acq On : 07 Aug 2020 07:02 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL5
Misc : 1x, A20H131@20PPB
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 10 09:18:34 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

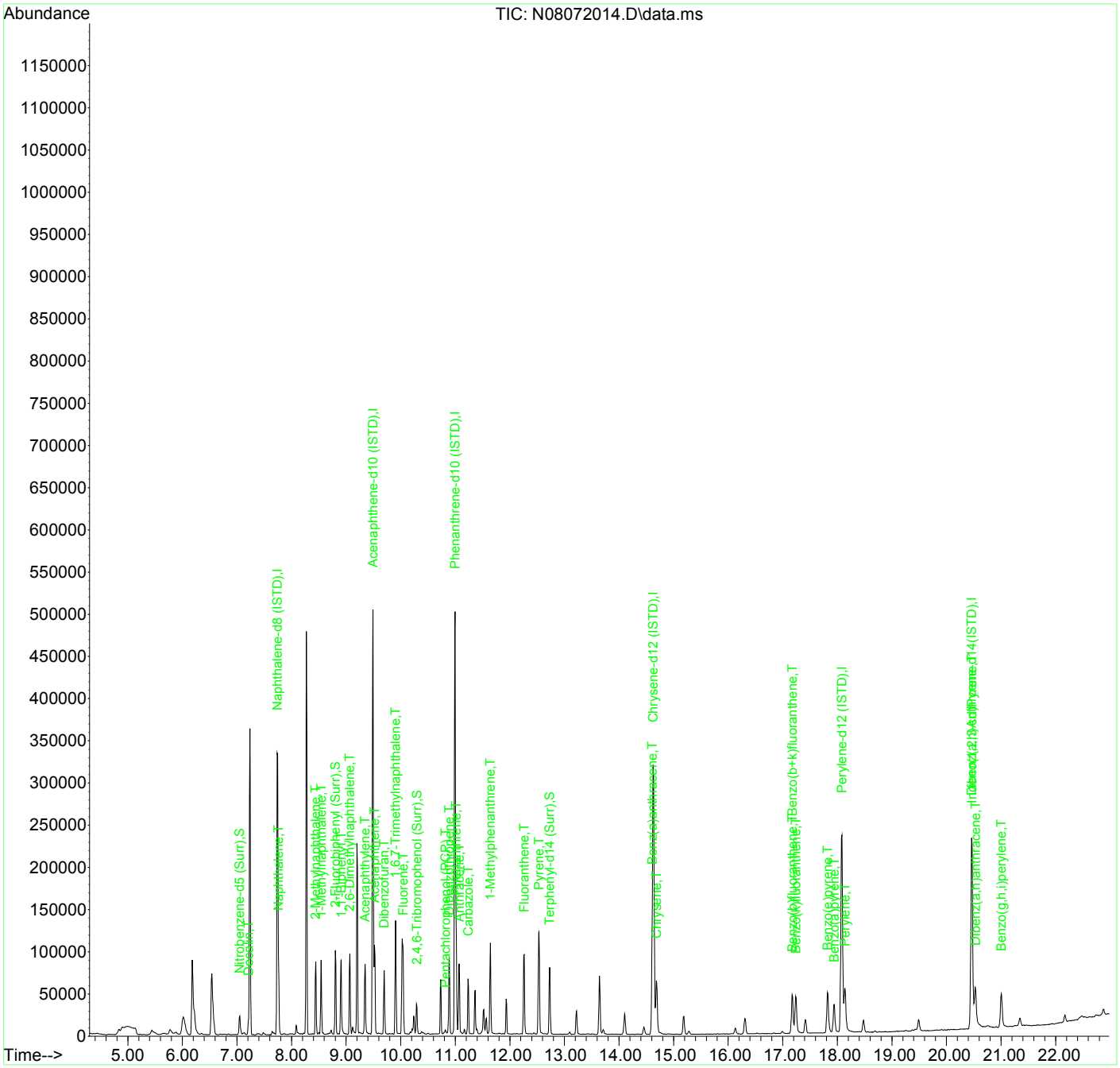
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	40858	19.58	ng/ml	90
33) Benzo(b+k)fluoranthene	17.174	252	89892	40.60	ng/ml	90
34) Benzo(e)pyrene	17.821	252	43548	19.67	ng/ml	96
35) Benzo(a)pyrene	17.944	252	31202	19.56	ng/ml	95
36) Perylene	18.142	252	49318	20.79	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.467	276	38988	19.50	ng/ml	75
39) Dibenz(a,h)anthracene	20.531	278	38552	19.68	ng/ml	78
40) Benzo(g,h,i)perylene	21.004	276	39660	19.06	ng/ml	78

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072014.D
Acq On : 07 Aug 2020 07:02 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL5
Misc : 1x, A20H131@20PPB
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 10 09:18:34 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072015.D
Acq On : 07 Aug 2020 07:35 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL6
Misc : 1x, A20H132@50PPB
ALS Vial : 8 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:18:54 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.737	136	236348	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	157474	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	298143	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	273325	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	253628	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	213890	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	33273	51.94	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	117511	49.41	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	17962	61.71	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	134305	51.82	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.213	138	6261	38.21	ng/ml	84
4) Naphthalene	7.761	128	118307	49.74	ng/ml	99
5) 2-Methylnaphthalene	8.443	142	92164	60.23	ng/ml	96
6) 1-Methylnaphthalene	8.542	142	90899	55.44	ng/ml	96
7) 1,1'-Biphenyl	8.909	154	115384	54.63	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.066	156	85713	59.60	ng/ml	97
11) Acenaphthylene	9.346	152	138328	50.89	ng/ml	99
12) Acenaphthene	9.521	153	96981	50.82	ng/ml	100
13) Dibenzofuran	9.696	168	125884	51.26	ng/ml	93
14) 1,6,7-Trimethylnaphtha...	9.906	170	90118	52.79	ng/ml	99
15) Fluorene	10.046	166	102499	54.78	ng/ml	99
18) Pentachlorophenol (PCP)	10.815	266	6271	70.23	ng/ml	97
19) Dibenzothiopene	10.891	184	146072	50.40	ng/ml	93
20) Phenanthrene	11.019	178	160556	50.75	ng/ml	100
21) Anthracene	11.071	178	139978	53.48	ng/ml	99
22) Carbazole	11.235	167	113238	60.40	ng/ml	98
23) 1-Methylphenanthrene	11.643	192	121857	54.10	ng/ml	99
24) Fluoranthene	12.260	202	174353	53.61	ng/ml	95
26) Pyrene	12.534	202	179092	47.01	ng/ml	99
28) Benz(a)anthracene	14.609	228	131678	49.12	ng/ml	99
29) Chrysene	14.691	228	141380	50.21	ng/ml	99
31) Benzo(b)fluoranthene	17.174	252	128755	50.70	ng/ml	91

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072015.D
Acq On : 07 Aug 2020 07:35 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL6
Misc : 1x, A20H132@50PPB
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 10 09:18:54 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

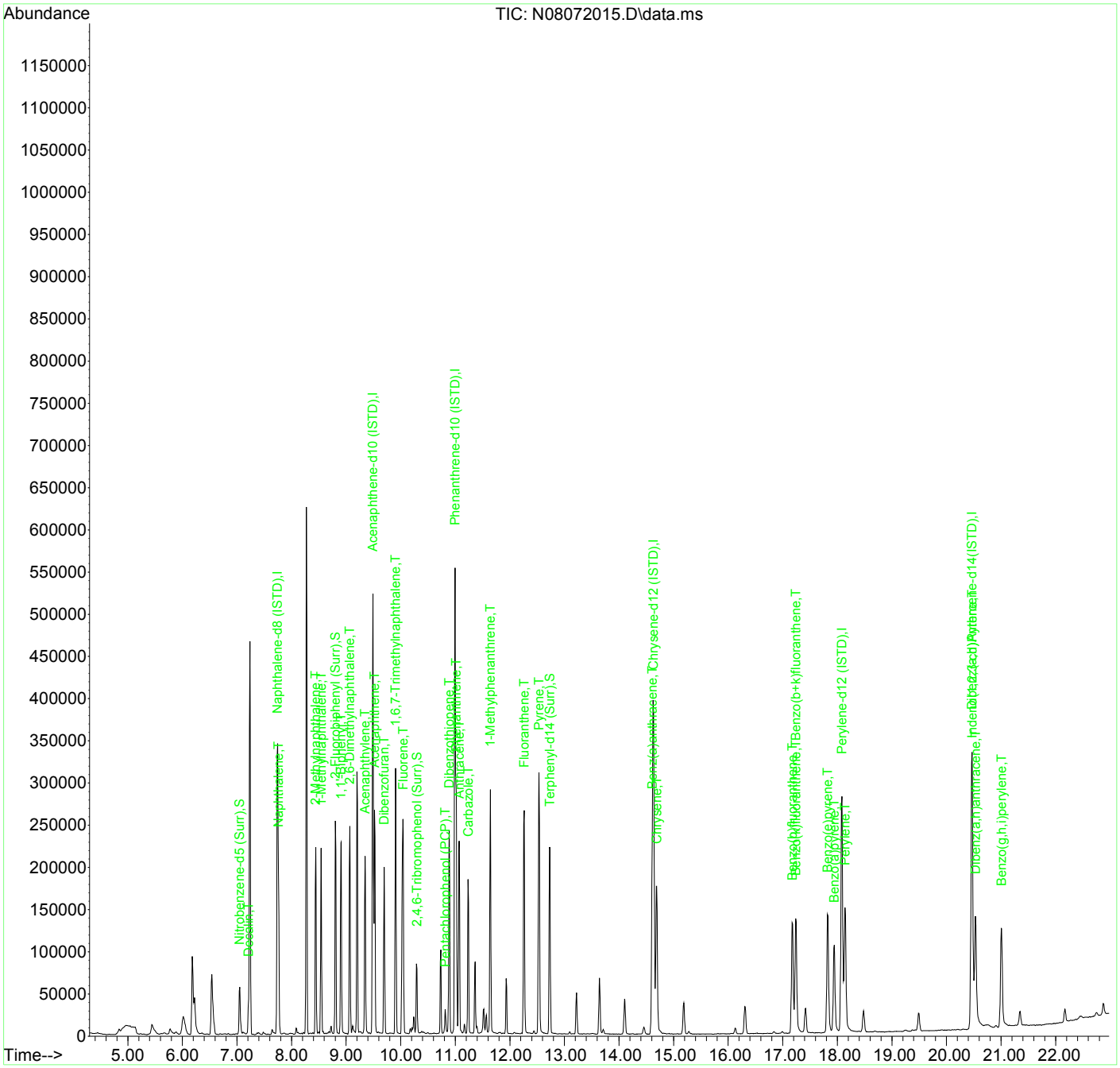
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	124775	51.28	ng/ml	90
33) Benzo(b+k)fluoranthene	17.238	252	266585	103.22	ng/ml	90
34) Benzo(e)pyrene	17.821	252	128664	49.82	ng/ml	96
35) Benzo(a)pyrene	17.943	252	95892	51.54	ng/ml	95
36) Perylene	18.141	252	141055	50.98	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.473	276	112418	48.48	ng/ml	75
39) Dibenz(a,h)anthracene	20.531	278	109524	48.21	ng/ml	79
40) Benzo(g,h,i)perylene	21.009	276	118269	49.00	ng/ml	74

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072015.D
Acq On : 07 Aug 2020 07:35 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL6
Misc : 1x, A20H132@50PPB
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 10 09:18:54 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072016.D
Acq On : 07 Aug 2020 08:07 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL7
Misc : 1x, A20H133@100PPB
ALS Vial : 9 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:19:16 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.737	136	239628	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	160491	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	310167	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	274150	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	244609	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	188292	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.044	82	67920	104.57	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	236184	97.44	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.290	330	39630	123.79	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	271448	104.42	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.213	138	14769	88.89	ng/ml	82
4) Naphthalene	7.761	128	240756	99.83	ng/ml	100
5) 2-Methylnaphthalene	8.443	142	187483	120.85	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	184281	110.85	ng/ml	97
7) 1,1'-Biphenyl	8.903	154	237899	111.09	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.066	156	177587	121.80	ng/ml	97
11) Acenaphthylene	9.346	152	287639	103.84	ng/ml	99
12) Acenaphthene	9.521	153	195700	100.63	ng/ml	100
13) Dibenzofuran	9.696	168	260342	104.01	ng/ml	94
14) 1,6,7-Trimethylnaphtha...	9.906	170	184644	106.12	ng/ml	99
15) Fluorene	10.046	166	216422	113.50	ng/ml	98
18) Pentachlorophenol (PCP)	10.815	266	16208	132.05	ng/ml	99
19) Dibenzothiopene	10.891	184	307072	101.84	ng/ml	93
20) Phenanthrene	11.019	178	331692	100.78	ng/ml	99
21) Anthracene	11.071	178	291014	106.87	ng/ml	99
22) Carbazole	11.235	167	221628	113.63	ng/ml	99
23) 1-Methylphenanthrene	11.643	192	251534	107.35	ng/ml	97
24) Fluoranthene	12.260	202	373192	110.30	ng/ml	95
26) Pyrene	12.534	202	385194	100.81	ng/ml	99
28) Benz(a)anthracene	14.609	228	263502	98.01	ng/ml	100
29) Chrysene	14.691	228	284963	100.89	ng/ml	99
31) Benzo(b)fluoranthene	17.180	252	256455	104.71	ng/ml	91

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072016.D
Acq On : 07 Aug 2020 08:07 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL7
Misc : 1x, A20H133@100PPB
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 10 09:19:16 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

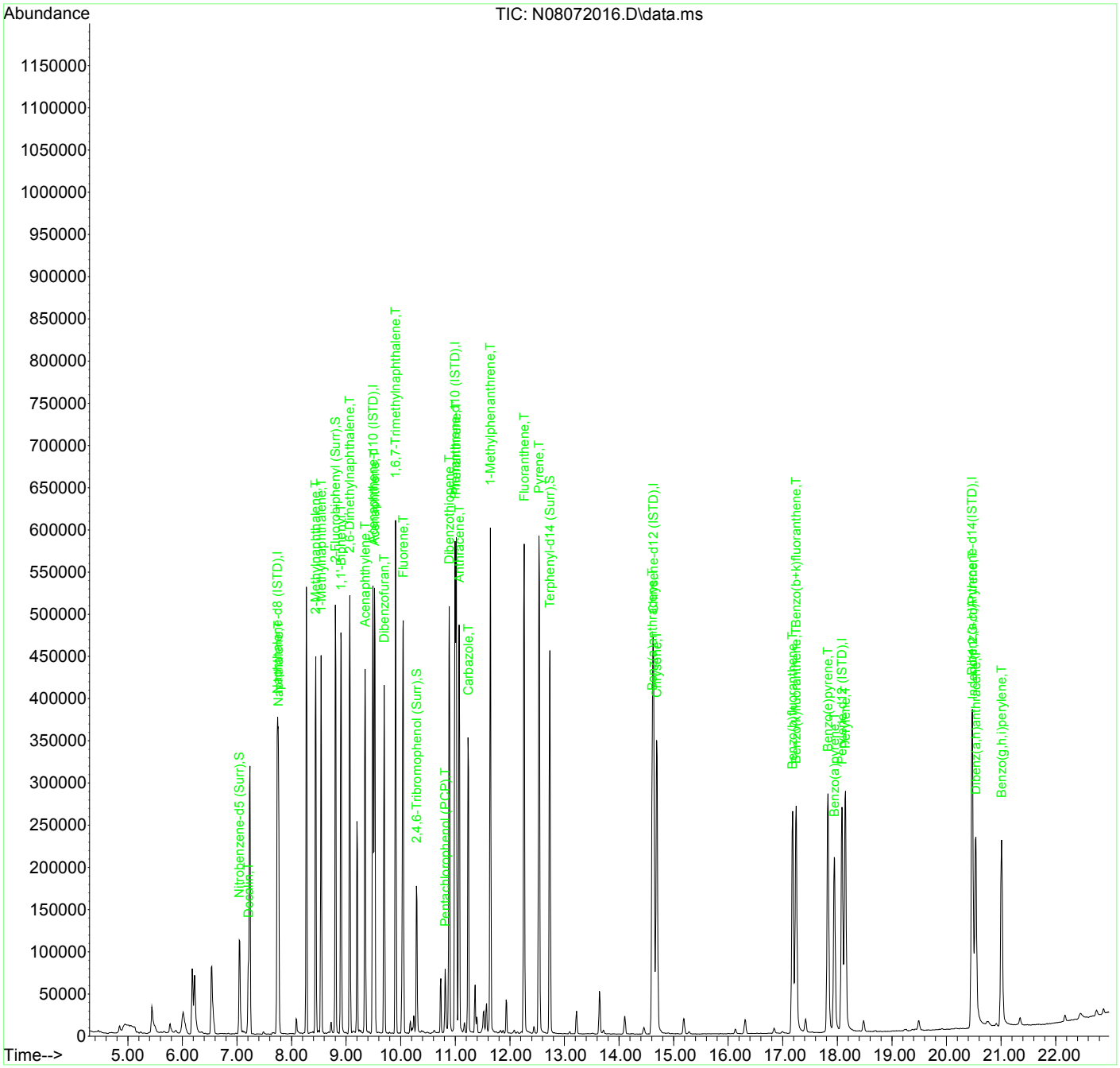
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.244	252	245178	104.47	ng/ml	90
33) Benzo(b+k)fluoranthene	17.244	252	524339	210.51	ng/ml	90
34) Benzo(e)pyrene	17.827	252	260007	104.40	ng/ml	97
35) Benzo(a)pyrene	17.949	252	190371	106.08	ng/ml	95
36) Perylene	18.147	252	269336	100.92	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.479	276	206306	101.07	ng/ml	74
39) Dibenz(a,h)anthracene	20.537	278	209030	104.53	ng/ml	78
40) Benzo(g,h,i)perylene	21.009	276	220629	103.83	ng/ml	76

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072016.D
Acq On : 07 Aug 2020 08:07 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL7
Misc : 1x, A20H133@100PPB
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 10 09:19:16 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072017.D
Acq On : 07 Aug 2020 08:40 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL8
Misc : 1x, A20H134@200PPB
ALS Vial : 10 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:19:36 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.737	136	243956	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	162564	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	322378	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.639	240	313061	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.089	264	283565	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.473	292	210998	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.044	82	137180	207.46	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	477028	194.30	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.290	330	84601	233.63	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	597044	201.11	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.213	138	28294	167.28	ng/ml	84
4) Naphthalene	7.761	128	479537	195.31	ng/ml	99
5) 2-Methylnaphthalene	8.443	142	380463	240.90	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	372527	220.11	ng/ml	96
7) 1,1'-Biphenyl	8.909	154	482640	221.37	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.066	156	361818	243.75	ng/ml	97
11) Acenaphthylene	9.346	152	586170	208.91	ng/ml	98
12) Acenaphthene	9.521	153	393259	199.64	ng/ml	100
13) Dibenzofuran	9.696	168	533541	210.45	ng/ml	93
14) 1,6,7-Trimethylnaphtha...	9.906	170	367505	208.52	ng/ml	98
15) Fluorene	10.046	166	435598	225.53	ng/ml	98
18) Pentachlorophenol (PCP)	10.815	266	46324	257.73	ng/ml	99
19) Dibenzothiopene	10.891	184	625695	199.64	ng/ml	94
20) Phenanthrene	11.019	178	677193	197.96	ng/ml	99
21) Anthracene	11.071	178	607405	214.60	ng/ml	99
22) Carbazole	11.235	167	471116	232.39	ng/ml	99
23) 1-Methylphenanthrene	11.643	192	518701	212.99	ng/ml	98
24) Fluoranthene	12.261	202	781297	222.17	ng/ml	95
26) Pyrene	12.540	202	799981	183.34	ng/ml	99
28) Benz(a)anthracene	14.615	228	608983	198.35	ng/ml	100
29) Chrysene	14.697	228	636457	197.33	ng/ml	100
31) Benzo(b)fluoranthene	17.186	252	597527	210.45	ng/ml	91

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072017.D
Acq On : 07 Aug 2020 08:40 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL8
Misc : 1x, A20H134@200PPB
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 10 09:19:36 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

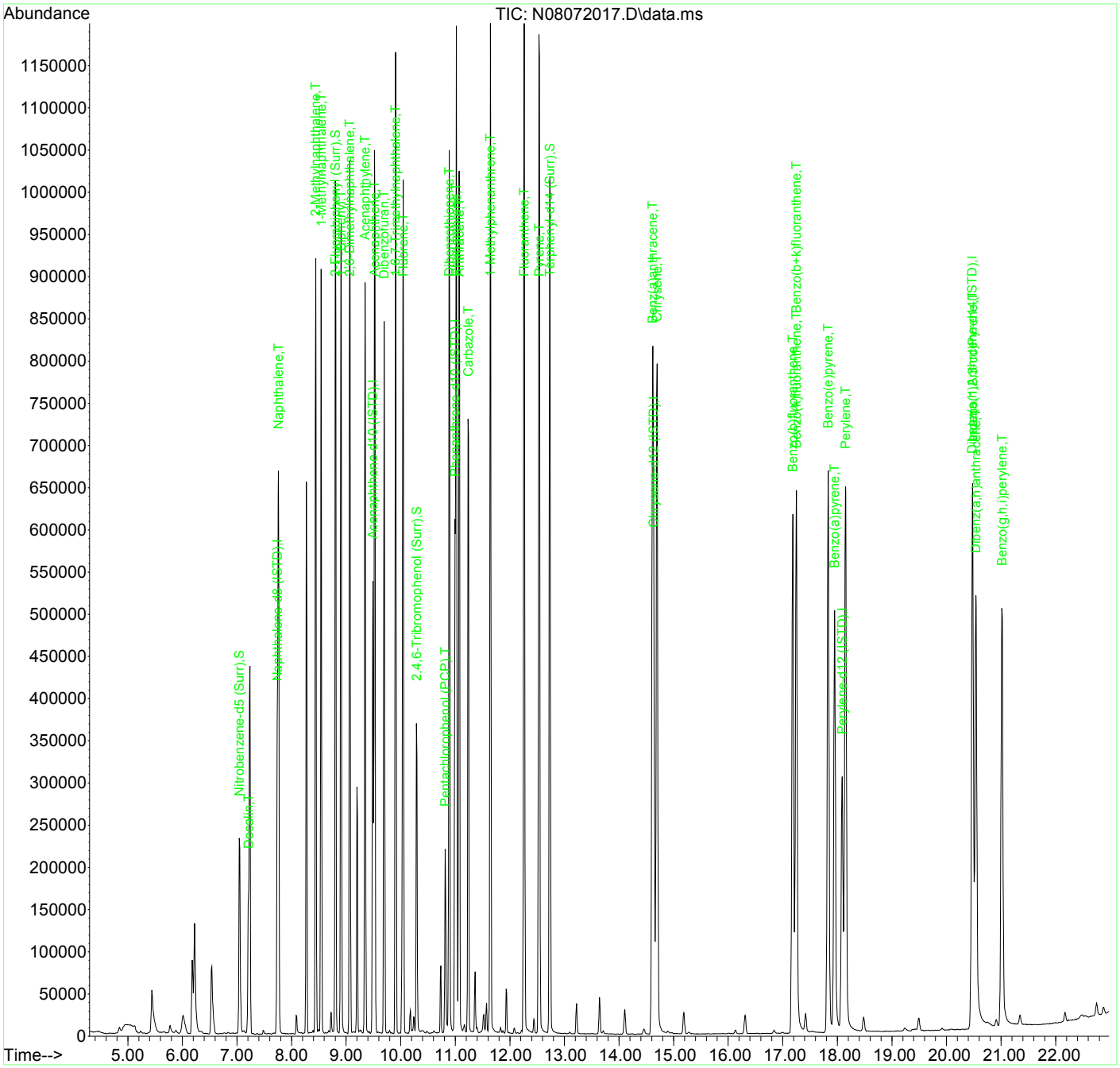
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.250	252	589910	216.84	ng/ml	91
33) Benzo(b+k)fluoranthene	17.250	252	1231095	426.35	ng/ml	91
34) Benzo(e)pyrene	17.833	252	611906	211.94	ng/ml	97
35) Benzo(a)pyrene	17.949	252	456627	219.50	ng/ml	96
36) Perylene	18.153	252	626652	202.56	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.479	276	476115	208.16	ng/ml	75
39) Dibenz(a,h)anthracene	20.537	278	473722	211.39	ng/ml	79
40) Benzo(g,h,i)perylene	21.015	276	511963	215.01	ng/ml	75

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072017.D
Acq On : 07 Aug 2020 08:40 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL8
Misc : 1x, A20H134@200PPB
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 10 09:19:36 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072018.D
Acq On : 07 Aug 2020 09:12 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL9
Misc : 1x, A20H135@400PPB
ALS Vial : 11 Sample Multiplier: 1

JK 8/10/20

Misinjection. Point excluded from calibration.

OK MKZ 8/14/2020

Quant Time: Aug 10 09:19:55 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	17104	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	4382	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	2318	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	1064	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.077	264	928	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.461	292	858	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	14851	320.34	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	33043	499.31	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.290	330	701	263.51	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.732	244	5581	553.14	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.219	138	9026	761.12	ng/ml	86
4) Naphthalene	7.761	128	70590	410.08	ng/ml	100
5) 2-Methylnaphthalene	8.443	142	37012	334.25	ng/ml	96
6) 1-Methylnaphthalene	8.542	142	38595	325.26	ng/ml	97
7) 1,1'-Biphenyl	8.909	154	32027	209.52	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.066	156	20523	197.20	ng/ml	98
11) Acenaphthylene	9.346	152	32891	434.88	ng/ml	99
12) Acenaphthene	9.521	153	21612	407.02	ng/ml	98
13) Dibenzofuran	9.696	168	20091	293.99	ng/ml	96
14) 1,6,7-Trimethylnaphtha...	9.906	170	11037	232.32	ng/ml	97
15) Fluorene	10.045	166	11678	224.30	ng/ml	97
18) Pentachlorophenol (PCP)	0.000		0	N.D.		
19) Dibenzothiopene	10.891	184	10590	469.93	ng/ml	93
20) Phenanthrene	11.019	178	9850	400.44	ng/ml	100
21) Anthracene	11.071	178	7326	359.98	ng/ml	100
22) Carbazole	11.240	167	4563	313.04	ng/ml	95
23) 1-Methylphenanthrene	11.643	192	5410	308.95	ng/ml	92
24) Fluoranthene	12.260	202	7012	277.31	ng/ml	95
26) Pyrene	12.534	202	6877	463.73	ng/ml	98
28) Benz(a)anthracene	14.609	228	4463	427.71	ng/ml	100
29) Chrysene	14.685	228	5012	457.22	ng/ml	96
31) Benzo(b)fluoranthene	17.174	252	4589	493.88	ng/ml	92

Data Path : M:\data\2020-08\0H07053\
Data File : N08072018.D
Acq On : 07 Aug 2020 09:12 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL9
Misc : 1x, A20H135@400PPB
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 10 09:19:55 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

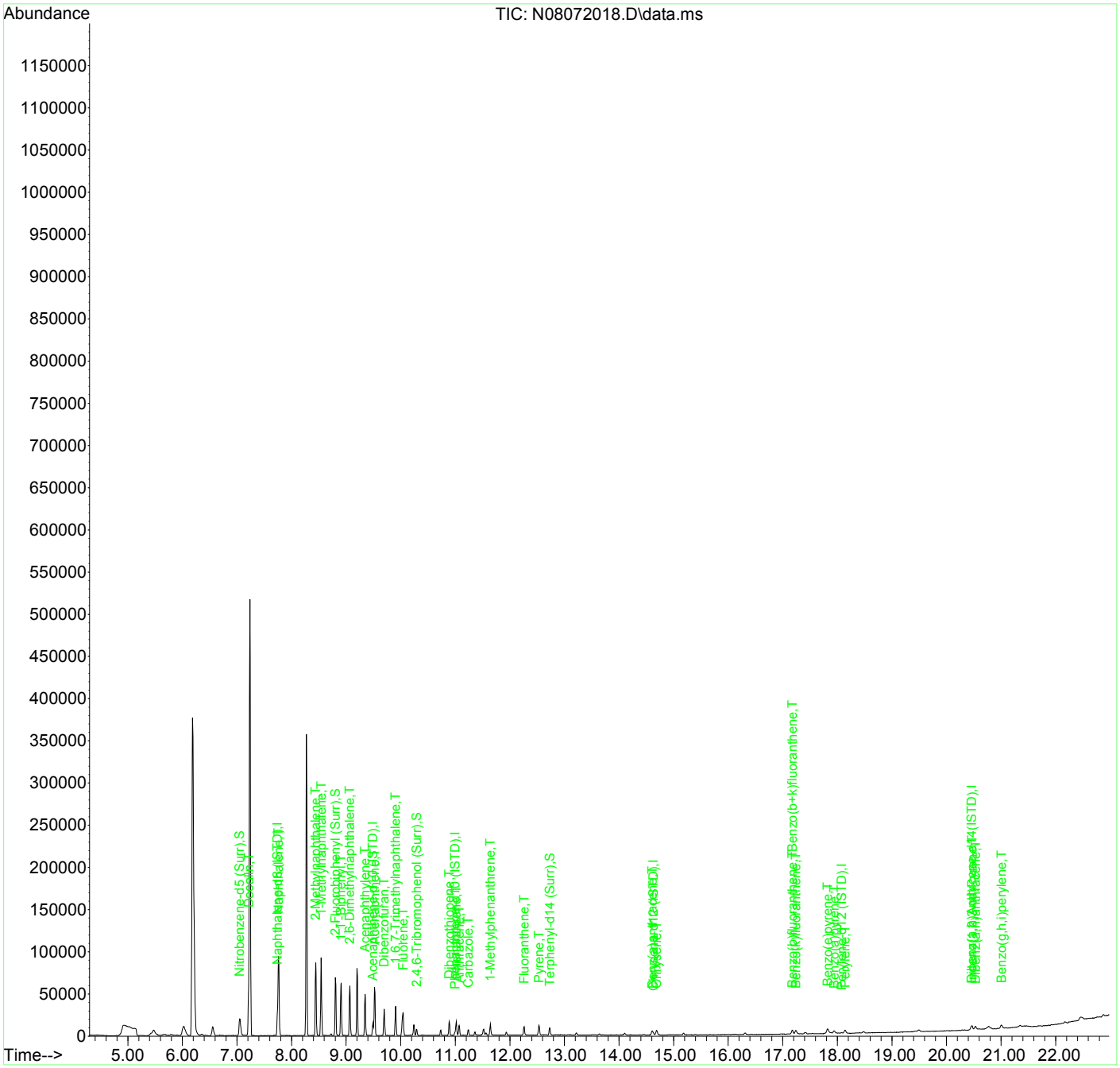
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	4168	468.14	ng/ml	87
33) Benzo(b+k)fluoranthene	17.174	252	9502	1005.54	ng/ml	90
34) Benzo(e)pyrene	17.821	252	4636	490.66	ng/ml	98
35) Benzo(a)pyrene	17.943	252	2895	425.23	ng/ml	91
36) Perylene	18.141	252	4009	395.97	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.473	276	3761	404.36	ng/ml	73
39) Dibenz(a,h)anthracene	20.531	278	4212	462.22	ng/ml	81
40) Benzo(g,h,i)perylene	21.009	276	4287	442.75	ng/ml	88

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072018.D
Acq On : 07 Aug 2020 09:12 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CAL9
Misc : 1x, A20H135@400PPB
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 10 09:19:55 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072019.D
Acq On : 07 Aug 2020 09:45 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CALA
Misc : 1x, A20H136@600PPB
ALS Vial : 12 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:20:20 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.737	136	238642	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	167307	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	339435	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.650	240	360560	100.00	ng/ml	0.02
30) Perylene-d12 (ISTD)	18.101	264	340814	100.00	ng/ml	0.02
37) Dibenz(a,h)Anthrcene-d...	20.490	292	249015	100.00	ng/ml	0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.044	82	406276	628.10	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.810	172	1394405	551.87	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	289654	600.83	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.738	244	1953505	571.35	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.213	138	89311	539.78	ng/ml	82
4) Naphthalene	7.761	128	1364884	568.29	ng/ml	99
5) 2-Methylnaphthalene	8.443	142	1097533	710.40	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	1061181	640.98	ng/ml	97
7) 1,1'-Biphenyl	8.909	154	1430681	670.81	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.072	156	1054857	726.45	ng/ml	97
11) Acenaphthylene	9.352	152	1737176	601.59	ng/ml	99
12) Acenaphthene	9.527	153	1146621	565.59	ng/ml	100
13) Dibenzofuran	9.702	168	1593927	610.88	ng/ml	94
14) 1,6,7-Trimethylnaphtha...	9.911	170	1064191	586.70	ng/ml	100
15) Fluorene	10.045	166	1277182	642.50	ng/ml	99
18) Pentachlorophenol (PCP)	10.821	266	209662	620.38	ng/ml	100
19) Dibenzothiopene	10.896	184	1885429	571.36	ng/ml	94
20) Phenanthrene	11.025	178	2010051	558.05	ng/ml	100
21) Anthracene	11.077	178	1864915	625.79	ng/ml	99
22) Carbazole	11.240	167	1466993	687.27	ng/ml	99
23) 1-Methylphenanthrene	11.648	192	1544611	602.38	ng/ml	97
24) Fluoranthene	12.266	202	2388152	644.98	ng/ml	94
26) Pyrene	12.546	202	2455254	488.57	ng/ml	99
28) Benz(a)anthracene	14.627	228	2152328	608.68	ng/ml	100
29) Chrysene	14.708	228	2128504	572.99	ng/ml	99
31) Benzo(b)fluoranthene	17.203	252	2203761	645.80	ng/ml	91

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072019.D
Acq On : 07 Aug 2020 09:45 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CALA
Misc : 1x, A20H136@600PPB
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 10 09:20:20 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

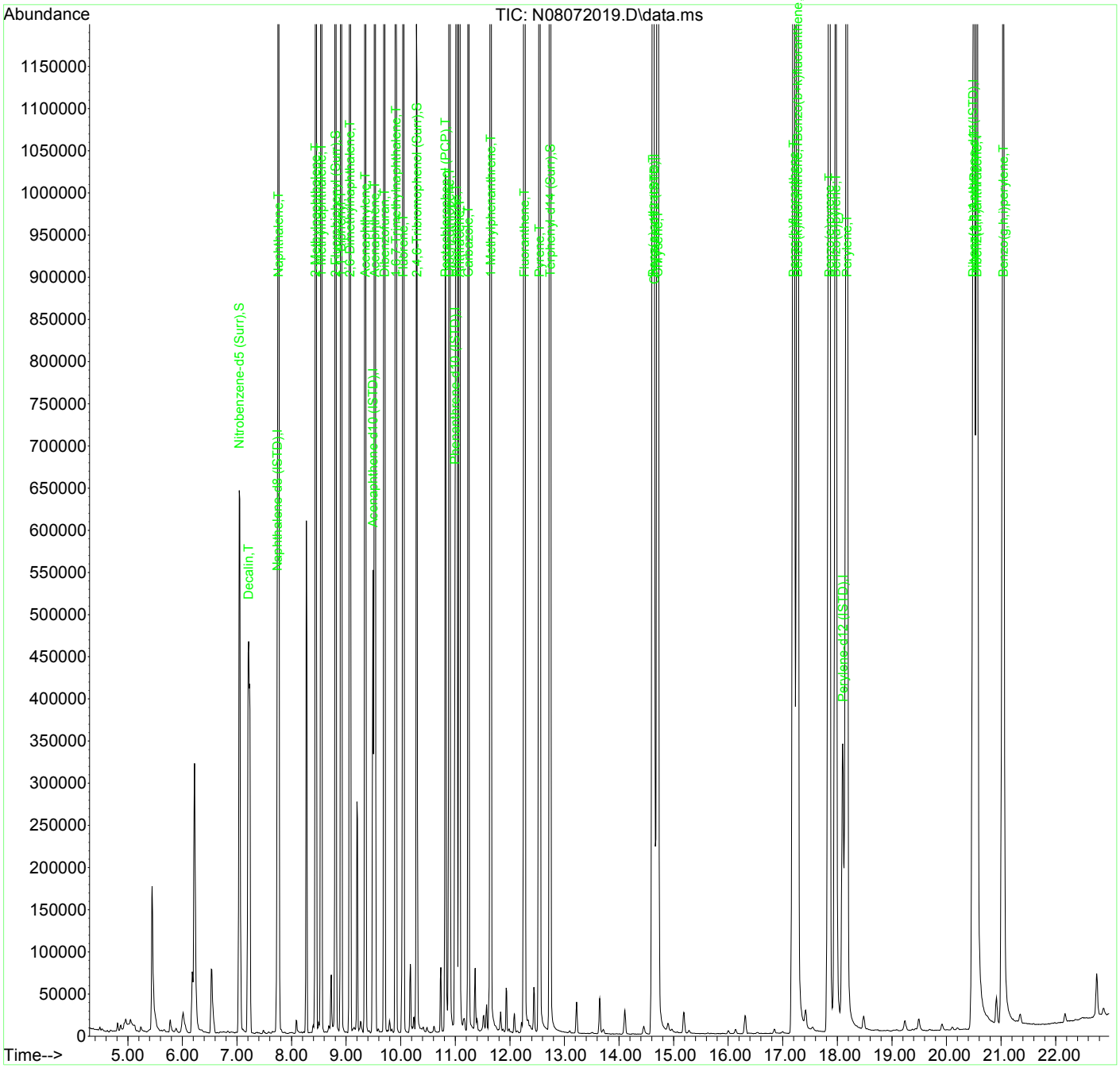
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.273	252	2097578	641.50	ng/ml	90
33) Benzo(b+k)fluoranthene	17.273	252	4430224	1276.55	ng/ml	90
34) Benzo(e)pyrene	17.856	252	2168307	624.86	ng/ml	97
35) Benzo(a)pyrene	17.972	252	1663091	665.16	ng/ml	95
36) Perylene	18.176	252	2159235	580.70	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.508	276	1715742	635.60	ng/ml	74
39) Dibenz(a,h)anthracene	20.560	278	1613131	609.95	ng/ml	78
40) Benzo(g,h,i)perylene	21.044	276	1802480	641.41	ng/ml	74

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072019.D
Acq On : 07 Aug 2020 09:45 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-CALA
Misc : 1x, A20H136@600PPB
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 10 09:20:20 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072022.D
Acq On : 07 Aug 2020 11:23 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICV1
Misc : 1x, A20H138@50PPB
ALS Vial : 13 Sample Multiplier: 1

JK 8/10/20

Quant Time: Aug 10 09:20:59 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.738	136	256281	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	163968	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	309949	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	277913	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	249997	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	198562	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	33834	48.71	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	117801	47.57	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.291	330	16307	54.31	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	134405	51.00	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.213	138	6630	37.31	ng/ml	84
4) Naphthalene	7.761	128	127598	49.47	ng/ml	99
5) 2-Methylnaphthalene	8.443	142	96851	58.37	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	95668	53.81	ng/ml	97
7) 1,1'-Biphenyl	8.909	154	117239	51.19	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.066	156	85969	55.13	ng/ml	96
11) Acenaphthylene	9.346	152	143176	50.59	ng/ml	99
12) Acenaphthene	9.521	153	99574	50.12	ng/ml	99
13) Dibenzofuran	9.696	168	124467	48.67	ng/ml	93
14) 1,6,7-Trimethylnaphtha...	9.906	170	87424	49.18	ng/ml	100
15) Fluorene	10.046	166	103605	53.18	ng/ml	98
18) Pentachlorophenol (PCP)	10.815	266	5368	61.41	ng/ml	97
19) Dibenzothiopene	10.891	184	142269	47.21	ng/ml	94
20) Phenanthrene	11.019	178	165110	50.20	ng/ml	100
21) Anthracene	11.072	178	145176	53.35	ng/ml	99
22) Carbazole	11.235	167	112229	57.58	ng/ml	98
23) 1-Methylphenanthrene	11.643	192	121301	51.81	ng/ml	98
24) Fluoranthene	12.261	202	184354	54.53	ng/ml	95
26) Pyrene	12.535	202	190425	49.16	ng/ml	99
28) Benz(a)anthracene	14.610	228	127771	46.88	ng/ml	99
29) Chrysene	14.691	228	140295	49.00	ng/ml	99
31) Benzo(b)fluoranthene	17.180	252	124762	49.84	ng/ml	91

Data Path : M:\data\2020-08\0H07053\
Data File : N08072022.D
Acq On : 07 Aug 2020 11:23 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICV1
Misc : 1x, A20H138@50PPB
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 10 09:20:59 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration

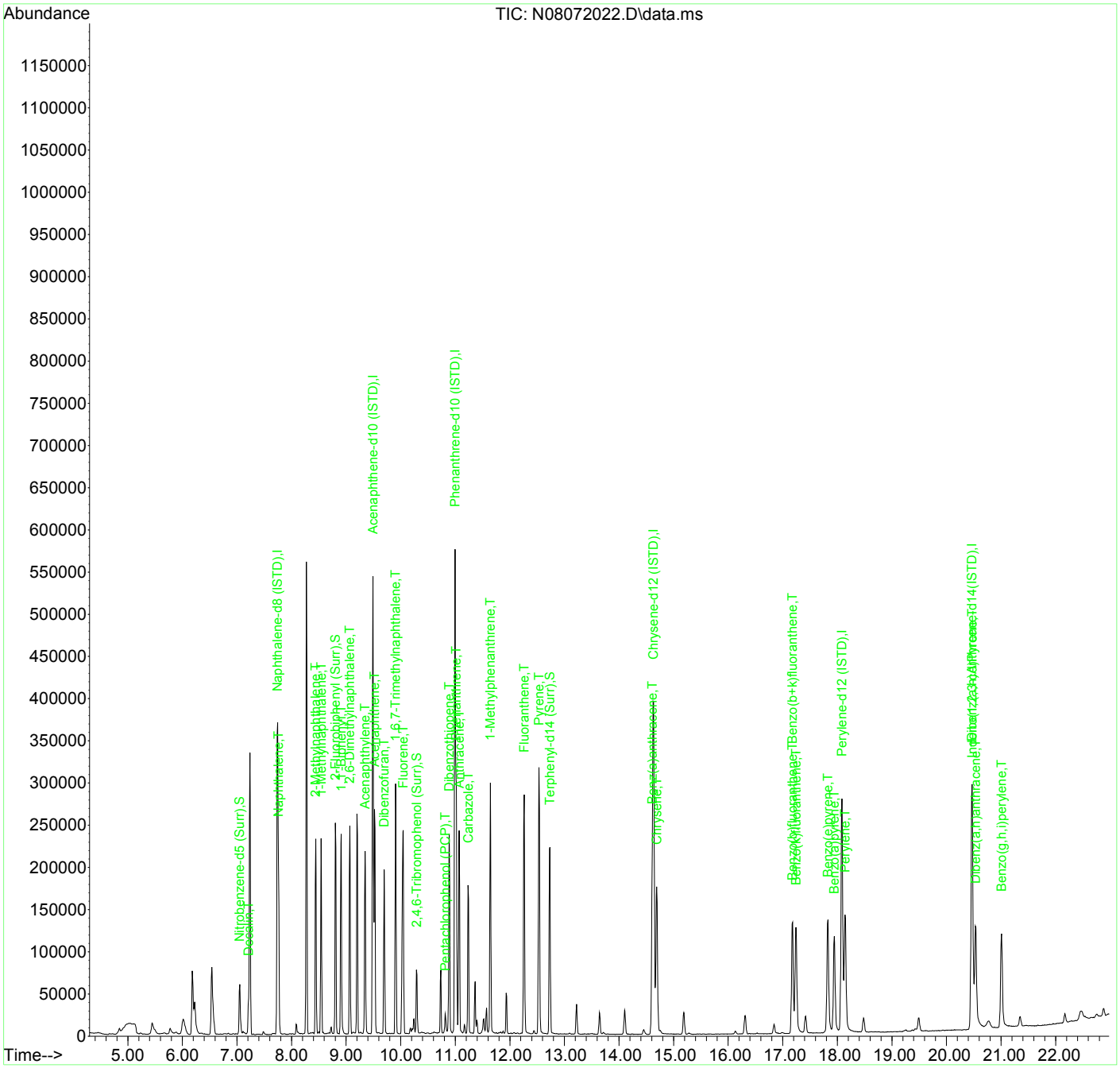
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.244	252	121002	50.45	ng/ml	91
33) Benzo(b+k)fluoranthene	17.180	252	258890	101.70	ng/ml	88
34) Benzo(e)pyrene	17.827	252	121723	47.82	ng/ml	98
35) Benzo(a)pyrene	17.944	252	104007	56.71	ng/ml	96
36) Perylene	18.142	252	132208	48.47	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.473	276	99525	46.24	ng/ml	75
39) Dibenz(a,h)anthracene	20.531	278	103277	48.97	ng/ml	79
40) Benzo(g,h,i)perylene	21.009	276	111212	49.63	ng/ml	74

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072022.D
Acq On : 07 Aug 2020 11:23 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICV1
Misc : 1x, A20H138@50PPB
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 10 09:20:59 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:15:49 2020
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072022.D
Acq On : 07 Aug 2020 11:23 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICV1
Misc : 1x, A20H138@50PPB
ALS Vial : 13 Sample Multiplier: 1

JK 8/10/20

Final Requant

Quant Time: Aug 10 13:00:22 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.738	136	256281	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	163968	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	309949	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	277913	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	249997	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	198562	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	33834	47.13	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	117801	50.25	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.291	330	16307	43.38	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	134405	50.30	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	7.213	138	6630	43.58	ng/ml	84
4) Naphthalene	7.761	128	127598	48.28	ng/ml	99
5) 2-Methylnaphthalene	8.443	142	96851	50.68	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	95668	50.03	ng/ml	97
7) 1,1'-Biphenyl	8.909	154	117239	48.21	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.066	156	85969	48.24	ng/ml	96
11) Acenaphthylene	9.346	152	143176	52.10	ng/ml	99
12) Acenaphthene	9.521	153	99574	49.58	ng/ml	99
13) Dibenzofuran	9.696	168	124467	49.30	ng/ml	93
14) 1,6,7-Trimethylnaphtha...	9.906	170	87424	48.01	ng/ml	100
15) Fluorene	10.046	166	103605	50.68	ng/ml	98
18) Pentachlorophenol (PCP)	10.815	266	5368	42.04	ng/ml	97
19) Dibenzothiopene	10.891	184	142269	47.27	ng/ml	94
20) Phenanthrene	11.019	178	165110	49.22	ng/ml	100
21) Anthracene	11.072	178	145176	52.84	ng/ml	99
22) Carbazole	11.235	167	112229	54.95	ng/ml	98
23) 1-Methylphenanthrene	11.643	192	121301	50.29	ng/ml	98
24) Fluoranthene	12.261	202	184354	52.98	ng/ml	95
26) Pyrene	12.535	202	190425	51.17	ng/ml	99
28) Benz(a)anthracene	14.610	228	127771	45.99	ng/ml	99
29) Chrysene	14.691	228	140295	48.87	ng/ml	99
31) Benzo(b)fluoranthene	17.180	252	124762	49.22	ng/ml	91

Data Path : M:\data\2020-08\0H07053\
Data File : N08072022.D
Acq On : 07 Aug 2020 11:23 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICV1
Misc : 1x, A20H138@50PPB
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 10 13:00:22 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

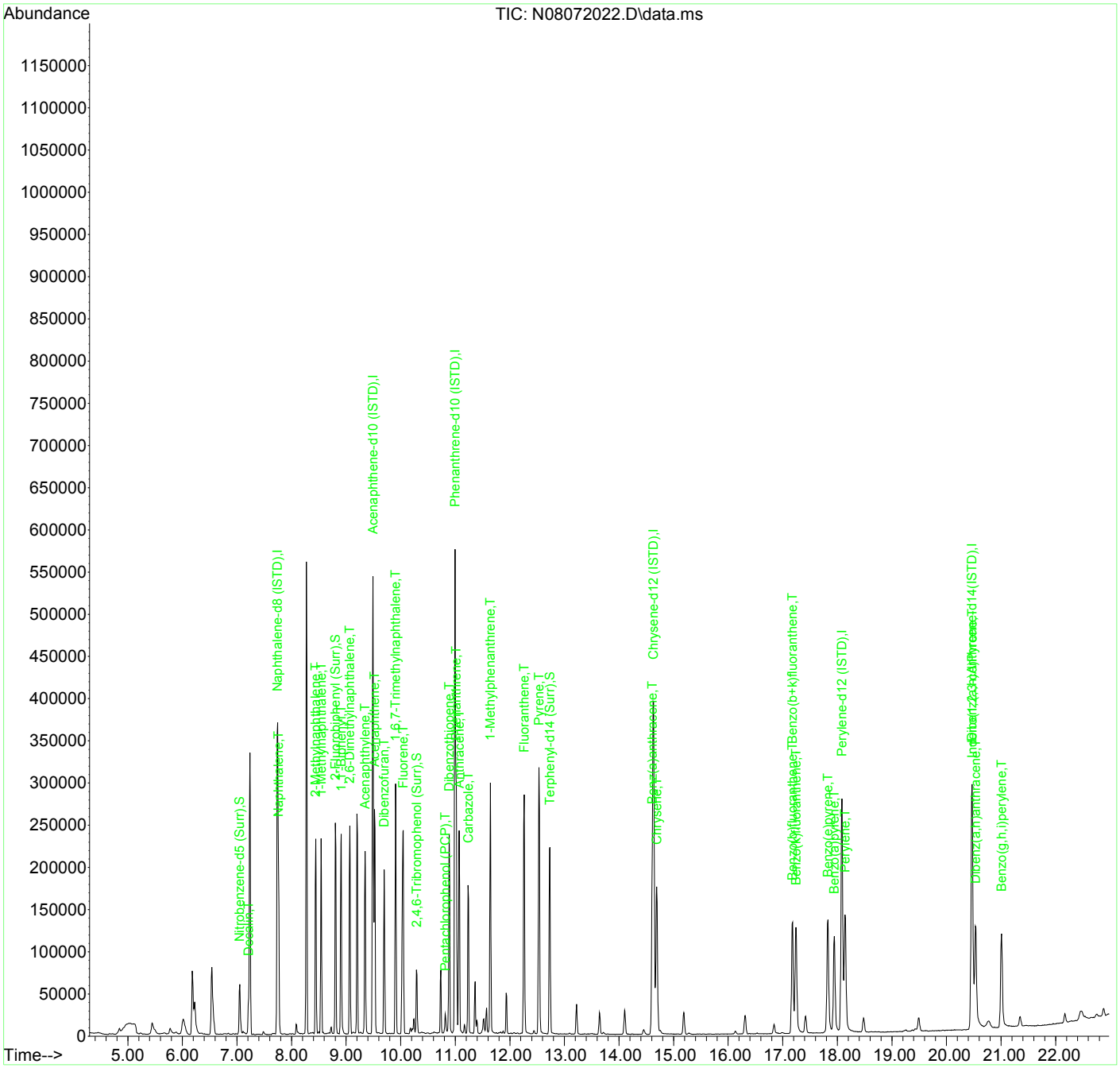
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.244	252	121002	50.60	ng/ml	91
33) Benzo(b+k)fluoranthene	17.180	252	258890	100.35	ng/ml	88
34) Benzo(e)pyrene	17.827	252	121723	48.28	ng/ml	98
35) Benzo(a)pyrene	17.944	252	104007	56.59	ng/ml	96
36) Perylene	18.142	252	132208	48.45	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.473	276	99525	46.57	ng/ml	75
39) Dibenz(a,h)anthracene	20.531	278	103277	49.15	ng/ml	79
40) Benzo(g,h,i)perylene	21.009	276	111212	51.18	ng/ml	74

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\
Data File : N08072022.D
Acq On : 07 Aug 2020 11:23 pm
Operator : JK/ AMS/ DTH
Sample : 0H07053-ICV1
Misc : 1x, A20H138@50PPB
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 10 13:00:22 2020
Quant Method : M:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration



Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection Benchsheet & Analysis Sequence Data (Including Calibration)

Batch 0100374
Sequence 0J15041 (A0J0371-01RE1,02RE1,03RE1,04,05RE1,06RE1,07RE1, 08RE2,09RE1,10RE1)

Apex Laboratories

PREPARATION BENCH SHEET

JAN 17 2020

BATCH #: 0010374 (Water)

Prep Method: EPA 3510C (Acid/Base Neutral)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH Other	pH >11
	0010374-BLK1		QC	01/14/20 07:02	1100	1				100					
	0010374-BSD1		QC	01/14/20 07:02	1000	1	A20A088		50	100					
	0010374-BS1		QC	01/14/20 07:02	1000	1	A20A088		50	100					
	A0A0297-01RE2	K	625 Full List (Scan)	01/14/20 11:44	1010	5				100	POC-1C Grab	BS failures Added 1/14/2020 By ams			
	A0A0297-03RE1	K	625 Full List (Scan)	01/14/20 11:44	1010	5				100	POC-2C Grab	BS failures Added 1/14/2020 By ams			
	A0A0297-05RE1	K	625 Full List (Scan)	01/14/20 11:44	1040	5				100	POC-3C Grab	BS failures Added 1/14/2020 By ams			
	A0A0297-07RE1	K	625 Full List (Scan)	01/14/20 11:44	1010	5				100	POC-4C Grab	BS failures Added 1/14/2020 By ams			
	A0A0352-01	F	8270D LL Full List	01/14/20 07:02	1070	100				100	20-2				

Standards/Reagents

Reagent(s)

Std ID	Exp. Date	Description
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A19L077	12/05/21	Conc. HCl - Omnitrace
A19L136	06/06/20	Sodium Sulfate Lot # 194950

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A088	07/05/20	8270D PAH+/Phenols (JSCS) Spike @ 80 PPM

Surrogate(s)

Std ID	Exp. Date	Description
A19L321	06/23/20	PAH Soil and Water Surr. (50ppm)

3x rinse

Witness: _____

Bottle Check: _____

Prepared By: _____ Date _____

Reviewed By: AMS 1/16/20 Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010374 (Water)

Prep Method: EPA 3510C (Acid/Base Neutral)

#	Lab Number		Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH ok	pH >11
	0010374-BLK1		QC	01/14/20 07:02	1000	1				100					
	0010374-BSD1		QC	01/14/20 07:02	1000	1	A20A088		50	100					
	0010374-BS1		QC	01/14/20 07:02	1000	1	A20A088		50	100					
	A0A0297-01RE2	KF	625 Full List (Scan)	01/14/20 11:44	~~1000~~ 1010	5 ✓				100	POC-1C Grab ✓	BS failures Added 1/14/2020 By ams	✓		✓
	A0A0297-03RE1	KF	625 Full List (Scan)	01/14/20 11:44	~~1000~~ 1010	5 ✓				100	POC-2C Grab ✓	BS failures Added 1/14/2020 By ams	✓		✓
	A0A0297-05RE1	KF	625 Full List (Scan)	01/14/20 11:44	~~1000~~ 1040	5 ✓				100	POC-3C Grab ✓	BS failures Added 1/14/2020 By ams	✓		✓
	A0A0297-07RE1	KF	625 Full List (Scan)	01/14/20 11:44	~~1000~~ 1010	5 ✓				100	POC-4C Grab ✓	BS failures Added 1/14/2020 By ams	✓		✓
	A0A0352-01	F	8270D LL Full List	01/14/20 07:02	1000	1				100	20-2				

Standards/Reagents 1.14.20

Reagent(s)

Std ID	Exp. Date	Description
A18K311	12/31/20	Glass Wool
A19I263	03/18/20	DCM CHEM PROD. 194934
A19L077	12/05/21	Conc. HCl - Omnitrace
A19L136	06/06/20	Sodium Sulfate Lot # 194950

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A088	07/05/20	8270D PAH+/Phenols (JSCS) Spike @ 80 PPM

Surrogate(s) ca

Std ID	Exp. Date	Description
A19L321	06/23/20	PAH Soil and Water Surr. (50ppm)

3x rinse ✓ ca 1.14.20

Witness: _____

Bottle Check: ~~RJT~~ 1/14/20

ca 1.14.20
Prepared By: Date

cas 01/15/2020
Reviewed By: Date

APEX LABORATORIES

ELEMENT SEQUENCE LOG

Apex Laboratories

OCT 2 1 2020

Sequence: 0J15041 Instrument: OIA FS3000-2

Date: 10/15/20 10:02 Calibration: A0J1509

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J15041-CAL1	Water	QC	QC				
2	0J15041-CAL2	Water	QC	QC				A20H332
3	0J15041-CAL3	Water	QC	QC				A20H328
4	0J15041-CAL4	Water	QC	QC				A20H327
5	0J15041-CAL5	Water	QC	QC				A20H325
6	0J15041-CAL6	Water	QC	QC				A20H323
7	0J15041-CAL7	Water	QC	QC				A20H321
8	0J15041-ICV1	Water	QC	QC				A20J246
9	0J15041-ICB1	Water	QC	QC				
10	0100500-BS2	Water	QC	QC		0100500		
11	0100500-BLK1	Water	QC	QC		0100500		
12	0100500-BS1	Water	QC	QC		0100500		
13	0100374-BLK1	Soil	QC	QC		0100374		
14	0100374-BS1	Soil	QC	QC		0100374		
15	A0J0321-02RE1	Water	Cyanide, Total (ASTM D7511, OIA)		10/19/20	0100500		
16	A0J0435-01	Water	Cyanide, Total (ASTM D7511, OIA)		10/26/20	0100500		
17	A0J0445-01	Water	Cyanide, Total (ASTM D7511, OIA)		10/26/20	0100500		
18	0100500-MS1	Water	QC	QC		0100500		
19	0100500-MSD1	Water	QC	QC		0100500		
20	0J15041-CCV1	Water	QC	QC				A20H323
21	0J15041-CCB1	Water	QC	QC				
22	A0J0489-01	Water	Cyanide, Total (ASTM D7511, OIA)		10/27/20	0100500		
23	A0J0273-01	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/20/20	0100374		
24	A0J0278-01	Soil	Cyanide, Total (ASTM D7511, OIA)		10/14/20	0100374		
25	A0J0278-02	Soil	Cyanide, Total (ASTM D7511, OIA)		10/14/20	0100374		
26	A0J0278-03	Soil	Cyanide, Total (ASTM D7511, OIA)		10/14/20	0100374		
27	A0J0278-04	Soil	Cyanide, Total (ASTM D7511, OIA)		10/14/20	0100374		
28	A0J0278-05	Soil	Cyanide, Total (ASTM D7511, OIA)		10/14/20	0100374		
29	A0J0278-06	Soil	Cyanide, Total (ASTM D7511, OIA)		10/14/20	0100374		
30	0100374-MS1	Soil	QC	QC		0100374		
31	0100374-MSD1	Soil	QC	QC		0100374		
32	0J15041-CCV2	Water	QC	QC				A20H323
33	0J15041-CCB2	Water	QC	QC				
34	A0J0371-01	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
35	A0J0371-02	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
36	A0J0371-03	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
37	A0J0371-04	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
38	A0J0371-05	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
39	A0J0371-06	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
40	A0J0371-07	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
41	0100374-MS2	Soil	QC	QC		0100374		
42	0100374-MSD2	Soil	QC	QC		0100374		
43	A0J0371-08	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
44	0J15041-CCV3	Water	QC	QC				A20H323
45	0J15041-CCB3	Water	QC	QC				
46	A0J0371-09	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
47	A0J0371-10	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
48	A0J0542-01	Water	Cyanide, Total (ASTM D7511, OIA)		10/28/20	0100500		
49	A0J0273-01RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/20/20	0100374		
50	A0J0278-03RE1	Soil	Cyanide, Total (ASTM D7511, OIA)		10/14/20	0100374		
51	A0J0371-01RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		

Sequence: **0J15041** Instrument: **OIA FS3000-2**

Date: **10/15/20 10:02** Calibration: **A0J1509**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
52	A0J0371-02RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
53	A0J0371-03RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
54	A0J0371-05RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
55	A0J0371-06RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
56	0J15041-CCV4	Water	QC	QC				A20H323
57	0J15041-CCB4	Water	QC	QC				
58	A0J0371-07RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
59	0100374-MS3	Soil	QC	QC		0100374		
60	0100374-MSD3	Soil	QC	QC		0100374		
61	A0J0371-08RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
62	A0J0371-09RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
63	A0J0371-10RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
64	0J15041-CCV5	Water	QC	QC				A20H323
65	0J15041-CCB5	Water	QC	QC				
66	A0J0541-11	Water	Cyanide, Total (ASTM D7511, OIA)		10/28/20	0100500		
67	A0J0541-18	Water	Cyanide, Total (ASTM D7511, OIA)		10/28/20	0100500		
68	A0J0541-24	Water	Cyanide, Total (ASTM D7511, OIA)		10/28/20	0100500		
69	A0J0541-30	Water	Cyanide, Total (ASTM D7511, OIA)		10/28/20	0100500		
70	A0J0371-08RE2	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100374		
71	0J15041-CCV6	Water	QC	QC				A20H323
72	0J15041-CCB6	Water	QC	QC				

Comments:

Data Entered By/Date: MVO 10/16/20

Data Reviewed By/Date: [illegible] 10/16/2020

Run Results Report

Apex Laboratories OIA FS3000-2

Operator Name	wvo
Operator ID	wvo
Platform	FS III/IV/3100
Software Rev Code	234
Data system ID	57
Result path	C:\FLOW_4\0J15041A.RST
Sample table path	C:\FLOW_4\totcn50.tbl
Method path	C:\FLOW_4\totcn50.mth
Date acquired	15-Oct-20
Time acquired	16:51

TOTAL CN 50ppb

Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]	RSD
Sync 25 ppb	1136474	25.613	OL			
Sync 25 ppb	1172201	26.395				
Sync 25 ppb	1170342	26.354				
(Statistics)				1171272	26.375	1.72%
Carryover	21524	1.277				
Read Baseline	-585	0.795	BL			
Cal 0.0 ppb	-34779	0.051				
Cal 1.0 ppb	472	0.818				
Cal 2.0 ppb	49695	1.890				
Cal 5.0 ppb	155447	4.192				
Cal 10.0 ppb	428325	10.140				
Cal 25.0 ppb	1114623	25.135				
Cal 50.0 ppb	2245893	49.966				
Blank	29517	1.451				
Read Baseline	-590	0.795	BL			
0J15041-ICV1	1053636	23.800				
0J15041-ICB1	11061	1.049				
Blank	7438	0.970				
Read Baseline	1044	0.831	BL			
0100500-BS2	72111	2.378				
0100500-BLK1	-33365	0.082				
0100500-BS1	1141851	25.731				
Read Baseline	-1024	0.786	BL			
0100374-BLK1	-31048	0.132				
0100374-BS1	869258	19.768				
Read Baseline	-4372	0.713	BL			
A0J0321-02RE1@2	-46711	-0.208	LO			

< 3% OK amr 10/16/2020

Result path	C:\FLOW_4\0J15041A.RST
Sample table path	C:\FLOW_4\totcn50.tbl
Method path	C:\FLOW_4\totcn50.mth
Date acquired	15-Oct-20
Time acquired	16:51

TOTAL CN 50ppb

Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]	RSD
A0J0435-01	-9209	0.608				
A0J0445-01	-8105	0.632				
Read Baseline	-5028	0.699	BL			
0100500-MS1	1138143	25.649				
0100500-MSD1	1186140	26.700				
Read Baseline	-2519	0.753	BL			
0J15041-CCV1	1086892	24.528				
0J15041-CCB1	8523	0.994				
Read Baseline	-6790	0.660	BL			
A0J0489-01	-21952	0.330				
A0J0273-01@10	3358417	74.524	HI			
Read Baseline	1469	0.840	BL			
A0J0278-01	101495	3.017	FL			
A0J0278-02	242245	6.083				
Read Baseline	-1448	0.777	BL			
A0J0278-03@10	42067	1.724				
A0J0278-04	91414	2.798				
Read Baseline	1097	0.832	BL			
A0J0278-05	46523	1.821				
A0J0278-06	82526	2.604				
Read Baseline	9324	1.011	BL			
0100374-MS1	483351	11.340				
0100374-MSD1	760154	17.383				
Read Baseline	-2595	0.752	BL			
0J15041-CCV2	1087479	24.541				
0J15041-CCB2	9511	1.015				
Read Baseline	-2202	0.760	BL			
A0J0371-01@10	95052	2.877				
A0J0371-02@10	98079	2.943				
Read Baseline	-12198	0.543	BL			
A0J0371-03@10	70592	2.345				
A0J0371-04@10	1043046	23.568				
Read Baseline	-854	0.789	BL			
A0J0371-05@10	108432	3.169				
A0J0371-06@10	93148	2.836				
Read Baseline	-2474	0.754	BL			
A0J0371-07@10	177894	4.681				

NR. over range.

NR. over diluted

NR over diluted

NR. over diluted

See 1X results

WO 10/16/20

Result path	C:\FLOW_4\0J15041A.RST
Sample table path	C:\FLOW_4\totcn50.tbl
Method path	C:\FLOW_4\totcn50.mth
Date acquired	15-Oct-20
Time acquired	16:51

TOTAL CN 50ppb

Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]	RSD
0100374-MS2@10	228314	5.780				
Read Baseline	-3835	0.725	BL			
0100374-MSD2@10	144650	3.957				
A0J0371-08@10	462735	10.890				
Read Baseline	-1555	0.774	BL			
0J15041-CCV3	1073182	24.228				
0J15041-CCB3	1757	0.846				
Read Baseline	-16121	0.457	BL			
A0J0371-09	2967512	65.879	HI			
A0J0371-10	7599215	169.397	HI			
Read Baseline	24712	1.346	BL			
A0J0542-01	161254	4.319	FL			
A0J0273-01RE1@20	1797525	40.107				
A0J0278-03RE1	429051	10.156				
Read Baseline	1477	0.840	BL			
A0J0371-01RE1	1109553	25.024				
A0J0371-02RE1	1149537	25.899				
Read Baseline	-3601	0.730	BL			
A0J0371-03RE1	1011362	22.875				
A0J0371-05RE1	1195842	26.913				
A0J0371-06RE1	1139438	25.678				
Read Baseline	1920	0.850	BL			
0J15041-CCV4	1123189	25.322				
0J15041-CCB4	-896	0.789				
Read Baseline	-3064	0.741	BL			
A0J0371-07RE1	1763246	39.354				
0100374-MS3	2246104	49.970				
0100374-MSD3	1714391	38.282				
Read Baseline	8580	0.995	BL			
A0J0371-08RE1	4006613	88.896	HI			
A0J0371-09RE1@2	1780182	39.726	FL			
A0J0371-10RE1@10	1033869	23.368	FL			
Read Baseline	-1552	0.774	BL			
0J15041-CCV5	1150868	25.928				
0J15041-CCB5	12667	1.084				
Read Baseline	10251	1.031	BL			
A0J0541-11	534981	12.467				

NR. over diluted. see 1x results.

NR. over range

NR. Need dilution. see 2x result.

INV 10/16/20

Result path	C:\FLOW_4\0J15041A.RST
Sample table path	C:\FLOW_4\totcn50.tbl
Method path	C:\FLOW_4\totcn50.mth
Date acquired	15-Oct-20
Time acquired	16:51

	TOTAL CN 50ppb					
Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]	RSD
Read Baseline	-10464	0.580	BL			
A0J0541-18	-5417	0.690	BL			
Read Baseline	5940	0.937	BL			
A0J0541-24	76053	2.464				
Read Baseline	-39499	-0.051	BL			
A0J0541-30	-59338	-0.483	LO			
Read Baseline	-69969	-0.714	BL			
A0J0371-08RE2@2	2121835	47.236				
Read Baseline	-52760	-0.340	BL			
Read Baseline	-2844	0.746	BL			
0J15041-CCV6	1188212	26.746				
0J15041-CCB6	27491	1.406				
Read Baseline	805	0.826	BL			

Run Results Report

Apex Laboratories OIA FS3000-2

Operator Name	wvo
Operator ID	wvo
Platform	FS III/IV/3100
Software Rev Code	234
Data system ID	57
Result path	C:\FLOW_4\0J15041A.RST
Sample table path	C:\FLOW_4\totcn50.tbl
Method path	C:\FLOW_4\totcn50.mth
Date acquired	15-Oct-20
Time acquired	16:51

Date	Time	Cup	Name
15-Oct-20	12:28	106	Sync 25 ppb
15-Oct-20	12:30	106	Sync 25 ppb
15-Oct-20	12:32	106	Sync 25 ppb (Statistics)
15-Oct-20	12:34	0	Carryover
15-Oct-20	12:36	0	Read Baseline
15-Oct-20	12:38	101	Cal 0.0 ppb
15-Oct-20	12:40	102	Cal 1.0 ppb
15-Oct-20	12:42	103	Cal 2.0 ppb
15-Oct-20	12:44	104	Cal 5.0 ppb
15-Oct-20	12:46	105	Cal 10.0 ppb
15-Oct-20	12:48	106	Cal 25.0 ppb
15-Oct-20	12:50	107	Cal 50.0 ppb
15-Oct-20	12:52	0	Blank
15-Oct-20	12:54	0	Read Baseline
15-Oct-20	12:56	108	0J15041-ICV1
15-Oct-20	12:58	0	0J15041-ICB1
15-Oct-20	13:00	0	Blank
15-Oct-20	13:02	0	Read Baseline
15-Oct-20	13:04	109	0100500-BS2
15-Oct-20	13:06	110	0100500-BLK1
15-Oct-20	13:08	111	0100500-BS1
15-Oct-20	13:10	0	Read Baseline
15-Oct-20	13:12	112	0100374-BLK1
15-Oct-20	13:14	113	0100374-BS1
15-Oct-20	13:16	0	Read Baseline
15-Oct-20	13:18	114	A0J0321-02RE1@2

Result path	C:\FLOW_4\0J15041A.RST
Sample table path	C:\FLOW_4\totcn50.tbl
Method path	C:\FLOW_4\totcn50.mth
Date acquired	15-Oct-20
Time acquired	16:51

Date	Time	Cup	Name
15-Oct-20	13:20	115	A0J0435-01
15-Oct-20	13:22	116	A0J0445-01
15-Oct-20	13:24	0	Read Baseline
15-Oct-20	13:26	117	0100500-MS1
15-Oct-20	13:28	118	0100500-MSD1
15-Oct-20	13:30	0	Read Baseline
15-Oct-20	13:32	106	0J15041-CCV1
15-Oct-20	13:34	0	0J15041-CCB1
15-Oct-20	13:36	0	Read Baseline
15-Oct-20	13:38	119	A0J0489-01
15-Oct-20	13:40	120	A0J0273-01@10
15-Oct-20	13:42	0	Read Baseline
15-Oct-20	13:44	121	A0J0278-01
15-Oct-20	13:46	122	A0J0278-02
15-Oct-20	13:48	0	Read Baseline
15-Oct-20	13:50	123	A0J0278-03@10
15-Oct-20	13:52	124	A0J0278-04
15-Oct-20	13:54	0	Read Baseline
15-Oct-20	13:56	125	A0J0278-05
15-Oct-20	13:58	126	A0J0278-06
15-Oct-20	14:00	0	Read Baseline
15-Oct-20	14:02	127	0100374-MS1
15-Oct-20	14:04	128	0100374-MSD1
15-Oct-20	14:06	0	Read Baseline
15-Oct-20	14:08	106	0J15041-CCV2
15-Oct-20	14:10	0	0J15041-CCB2
15-Oct-20	14:12	0	Read Baseline
15-Oct-20	14:14	129	A0J0371-01@10
15-Oct-20	14:16	130	A0J0371-02@10
15-Oct-20	14:18	0	Read Baseline
15-Oct-20	14:20	131	A0J0371-03@10
15-Oct-20	14:22	132	A0J0371-04@10
15-Oct-20	14:24	0	Read Baseline
15-Oct-20	14:26	133	A0J0371-05@10
15-Oct-20	14:28	134	A0J0371-06@10
15-Oct-20	14:30	0	Read Baseline
15-Oct-20	14:32	135	A0J0371-07@10

Result path	C:\FLOW_4\0J15041A.RST
Sample table path	C:\FLOW_4\totcn50.tbl
Method path	C:\FLOW_4\totcn50.mth
Date acquired	15-Oct-20
Time acquired	16:51

Date	Time	Cup	Name
15-Oct-20	14:34	136	0100374-MS2@10
15-Oct-20	14:36	0	Read Baseline
15-Oct-20	14:38	137	0100374-MSD2@10
15-Oct-20	14:40	138	A0J0371-08@10
15-Oct-20	14:42	0	Read Baseline
15-Oct-20	14:44	106	0J15041-CCV3
15-Oct-20	14:46	0	0J15041-CCB3
15-Oct-20	14:48	0	Read Baseline
15-Oct-20	14:50	139	A0J0371-09
15-Oct-20	14:52	140	A0J0371-10
15-Oct-20	14:54	0	Read Baseline
15-Oct-20	14:56	141	A0J0542-01
15-Oct-20	15:10	120	A0J0273-01RE1@20
15-Oct-20	15:12	123	A0J0278-03RE1
15-Oct-20	15:14	0	Read Baseline
15-Oct-20	15:16	129	A0J0371-01RE1
15-Oct-20	15:18	130	A0J0371-02RE1
15-Oct-20	15:20	0	Read Baseline
15-Oct-20	15:22	131	A0J0371-03RE1
15-Oct-20	15:24	133	A0J0371-05RE1
15-Oct-20	15:26	134	A0J0371-06RE1
15-Oct-20	15:28	0	Read Baseline
15-Oct-20	15:30	106	0J15041-CCV4
15-Oct-20	15:32	0	0J15041-CCB4
15-Oct-20	15:35	0	Read Baseline
15-Oct-20	15:37	135	A0J0371-07RE1
15-Oct-20	15:39	136	0100374-MS3
15-Oct-20	15:41	137	0100374-MSD3
15-Oct-20	15:43	0	Read Baseline
15-Oct-20	15:45	138	A0J0371-08RE1
15-Oct-20	15:47	139	A0J0371-09RE1@2
15-Oct-20	15:49	140	A0J0371-10RE1@10
15-Oct-20	15:51	0	Read Baseline
15-Oct-20	15:53	106	0J15041-CCV5
15-Oct-20	15:55	0	0J15041-CCB5
15-Oct-20	15:57	0	Read Baseline
15-Oct-20	15:59	142	A0J0541-11

Result path	C:\FLOW_4\0J15041A.RST
Sample table path	C:\FLOW_4\totcn50.tbl
Method path	C:\FLOW_4\totcn50.mth
Date acquired	15-Oct-20
Time acquired	16:51

Date	Time	Cup	Name
15-Oct-20	16:01	0	Read Baseline
15-Oct-20	16:03	143	A0J0541-18
15-Oct-20	16:05	0	Read Baseline
15-Oct-20	16:07	144	A0J0541-24
15-Oct-20	16:09	0	Read Baseline
15-Oct-20	16:11	145	A0J0541-30
15-Oct-20	16:13	0	Read Baseline
15-Oct-20	16:15	138	A0J0371-08RE2@2
15-Oct-20	16:17	0	Read Baseline
15-Oct-20	16:19	0	Read Baseline
15-Oct-20	16:33	106	0J15041-CCV6
15-Oct-20	16:35	0	0J15041-CCB6
15-Oct-20	16:37	0	Read Baseline

TOTAL CN 50ppb:Calibration 1: Peak 6-113

File name: C:\FLOW_4\0J15041.RST
Date: 15-Oct-20
Operator: wvo

*	Name	Conc	Area
*	Cal 0.0 ppb	0.000000	-34779.351562
*	Cal 1.0 ppb	1.000000	471.567230
*	Cal 2.0 ppb	2.000000	49694.519531
*	Cal 5.0 ppb	5.000000	155447.437500
*	Cal 10.0 ppb	10.000000	428324.781250
*	Cal 25.0 ppb	25.000000	1114622.875000
*	Cal 50.0 ppb	50.000000	2245893.250000

Calib Coef:
x=cyy+by+a

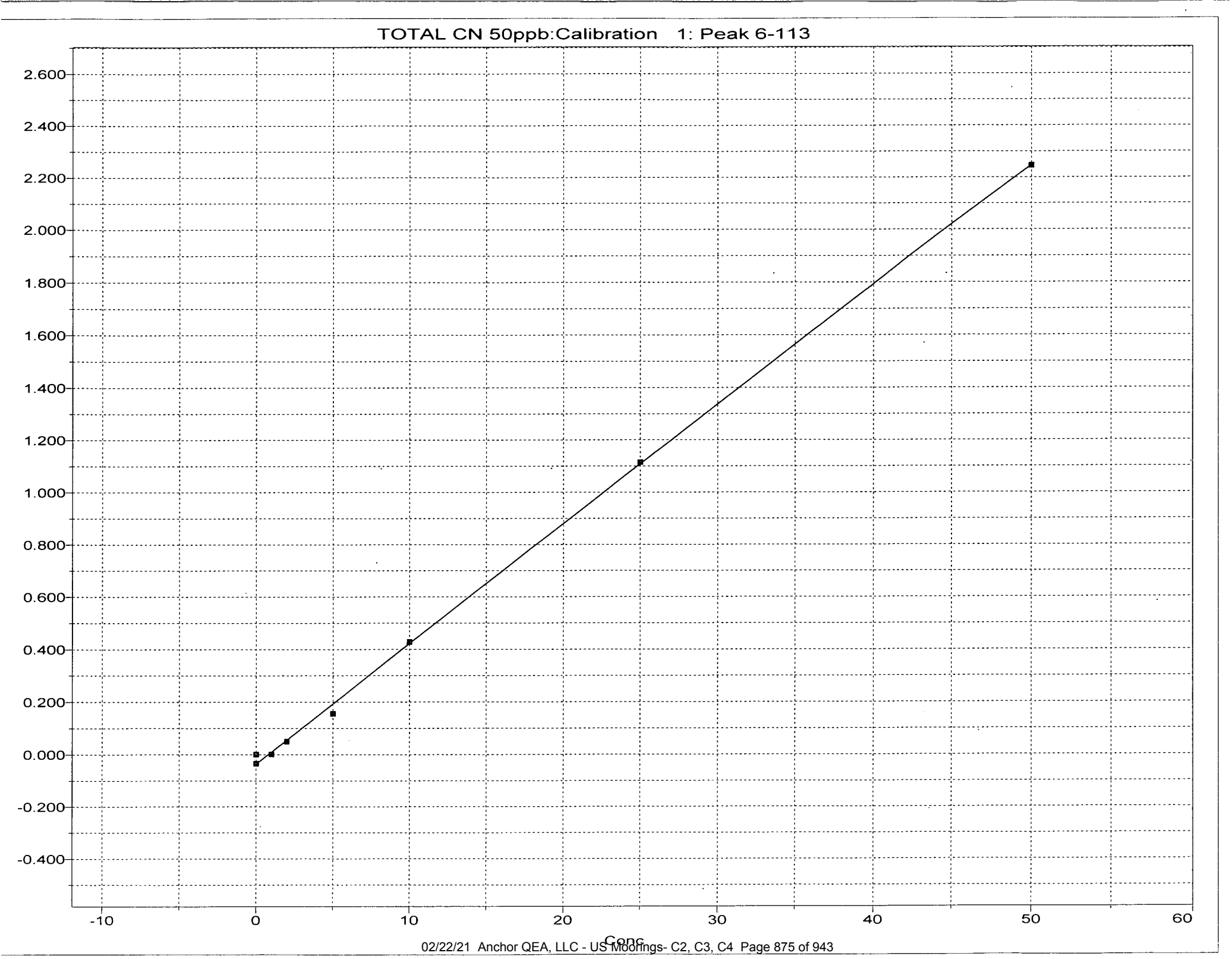
a: (intercept)	8.0807e-01
b:	2.1763e-05
c:	5.5534e-14

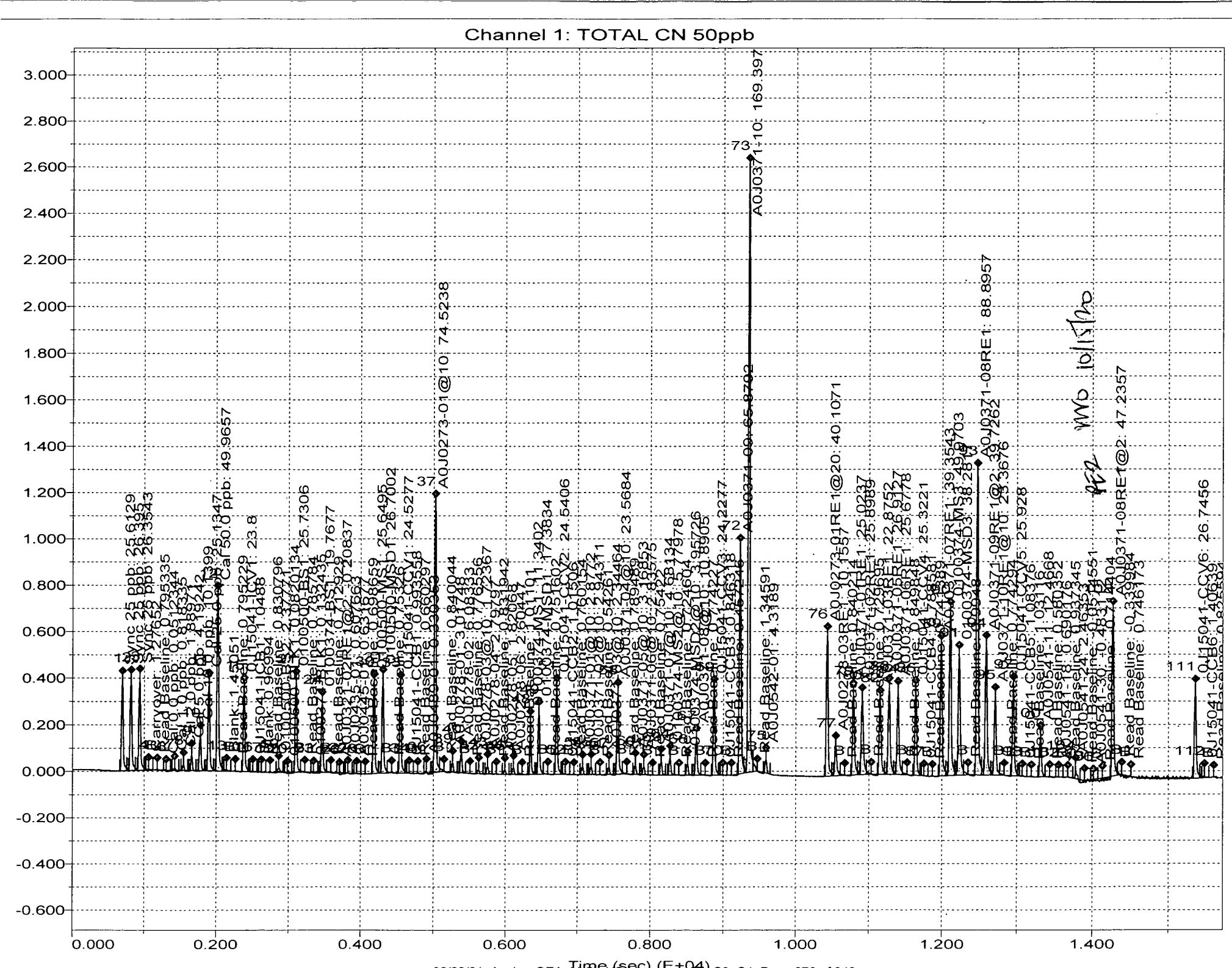
Corr Coef: 0.999680

OK amr 10/16/2020

Carryover: n/a

No Drift Peaks


TOTAL CN 50ppb:Calibration 1: Peak 6-113
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
-0.400
-10
0
10
20
30
40
50
60
Conc


Channel 1: TOTAL CN 50ppb
3.000
2.800
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
-0.400
-0.600
0.000
0.200
0.400
0.600
0.800
1.000
1.200
1.400
Time (sec) (E+04)

Conventional Chemistry Parameters

Total Organic Carbon- Soil (5310 B)
Benchsheet & Analysis Sequence Data

Batch 0100457
Sequence 0J16020 (A0J0371-01,02,03,04,05,06,07,08,09,10)

Apex Laboratories

PREPARATION BENCH SHEET

JAN 16 2020

BATCH #: 0010457 (Soil)

Prep Method: NWTPH-HCID (Soil)

#	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
	0010457-BLK1		QC	01/15/20 13:00	11	10				100					
	A0A0443-01	A	NWTPH-HCID	01/15/20 13:00	10.13	10				100	6307 S1	QID			
	0010457-DUP1		QC	01/15/20 13:00	10.15	10		A0A0443-01		100					
	A0A0443-02	A	NWTPH-HCID	01/15/20 13:00	10.26	10				100	6307 S2	QID			
	A0A0443-03	A	NWTPH-HCID	01/15/20 13:00	10.35	10				100	6307 S3	QID			
	A0A0505-01	A	NWTPH-HCID	01/15/20 17:46	10.2	10				100	6334 S1	QID			
	A0A0505-02	A	NWTPH-HCID	01/15/20 17:46	10.13	10				100	6334 S2	QID			
	A0A0505-03	A	NWTPH-HCID	01/15/20 17:46	10.7	10				100	6334 S3	QID			
	A0A0505-04	A	NWTPH-HCID	01/15/20 17:46	10.72	10				100	6334 S4	QID			
	A0A0505-05	A	NWTPH-HCID	01/15/20 17:46	10.95	10				100	6334 S5	QID			
	A0A0505-06	A	NWTPH-HCID	01/15/20 17:46	10.26	10				100	6334 S6	QID			
	A0A0505-07	A	NWTPH-HCID	01/15/20 17:46	10.08	10				100	6334 S7	QID			
	A0A0505-08	A	NWTPH-HCID	01/15/20 17:46	10.76	10				100	6334 S8	QID			
	A0A0505-09	A	NWTPH-HCID	01/15/20 17:46	10.37	10				100	6334 S9	QID			
	0010457-DUP2		QC	01/15/20 17:46	10.26	10		A0A0505-09		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
A19L136	06/06/20	Sodium Sulfate Lot # 194950

Analyte Spike(s)

Std ID	Exp. Date	Description

Surrogate(s)

Std ID	Exp. Date	Description
A19L268	03/02/20	NWTPH-DX Surr. in DCM (HCID Soils only)

Prepared By: Date

Ben Yokley 1.16.20

Reviewed By: Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010457 (Soil)

Prep Method: NWTPH-HCID (Soil)

#	Lab Number		Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH <2	pH >11
	0010457-BLK1		QC	01/15/20 13:00	11	10				100				
	A0A0443-01	A	NWTPH-HCID	01/15/20 13:00	10.13	10				100	6307 S1	QID		
	0010457-DUP1		QC	01/15/20 13:00	10.15	10		A0A0443-01		100				
	A0A0443-02	A	NWTPH-HCID	01/15/20 13:00	10.26	10				100	6307 S2	QID		
	A0A0443-03	A	NWTPH-HCID	01/15/20 13:00	10.35	10				100	6307 S3	QID		
1	A0A0505-01	A	NWTPH-HCID	01/15/20 17:46	~~10~~ 10.20	10				100	6334 S1	QID Soil (mud), rocks		
2	A0A0505-02	A	NWTPH-HCID	01/15/20 17:46	~~10~~ 10.13	10				100	6334 S2	QID Soil (mud), rocks		
3	A0A0505-03	A	NWTPH-HCID	01/15/20 17:46	~~10~~ 10.70	10				100	6334 S3	QID Soil (clay)		
4	A0A0505-04	A	NWTPH-HCID	01/15/20 17:46	~~10~~ 10.72	10				100	6334 S4	QID Soil (clay)		
5	A0A0505-05	A	NWTPH-HCID	01/15/20 17:46	~~10~~ 10.95	10				100	6334 S5	QID Soil (clay)		
6	A0A0505-06	A	NWTPH-HCID	01/15/20 17:46	~~10~~ 10.26	10				100	6334 S6	QID Soil (clay), rocks		
7	A0A0505-07	A	NWTPH-HCID	01/15/20 17:46	~~10~~ 10.08	10				100	6334 S7	QID Soil (clay)		
8	A0A0505-08	A	NWTPH-HCID	01/15/20 17:46	~~10~~ 10.76	10				100	6334 S8	QID Soil		
9	A0A0505-09	A	NWTPH-HCID	01/15/20 17:46	~~10~~ 10.37	10				100	6334 S9	QID Soil		
10	0010457-DUP2		QC	01/15/20 17:46	~~10~~ 10.26	10		A0A0505-09		100		Soil		

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
A19L136	06/06/20	Sodium Sulfate Lot # 194950

Analyte Spike(s)

Std ID	Exp. Date	Description

Surrogate(s)

Std ID	Exp. Date	Description
A19L268	03/02/20	NWTPH-DX Surr. in DCM (HCID Soils only)

SCG

SCG 01/15/2020
Prepared By: Date

CAS 01/15/2020
Reviewed By: Date

CAS 01/15/2020

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010457 (Soil)

Prep Method: NWTPH-HCID (Soil)

#	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	0010457-BLK1		QC	01/15/20 13:00	~~10~~ 14	10 ✓				100					
2	A0A0443-01	A	NWTPH-HCID	01/15/20 13:00	~~10~~ 10.13	10 ✓				100	6307 S1	QID Soil, rocks, odor			
3	0010457-DUP1		QC	01/15/20 13:00	~~10~~ 10.15	10 ✓		A0A0443-01		100		Soil, rocks, odor			
4	A0A0443-02	A	NWTPH-HCID	01/15/20 13:00	~~10~~ 10.26	10 ✓				100	6307 S2	QID Soil (mud), rocks			
5	A0A0443-03	A	NWTPH-HCID	01/15/20 13:00	~~10~~ 10.35	10 ✓				100	6307 S3	QID Soil (rocks)			

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
A19L136	06/06/20	Sodium Sulfate Lot # 194950

Analyte Spike(s)

Std ID	Exp. Date	Description

Surrogate(s)

Std ID	Exp. Date	Description
A19L268	03/02/20	NWTPH-DX Surr. in DCM (HCID Soils only)

SCG

SCG 01/15/2020
Prepared By: Date

CAS 01/15/2020
Reviewed By: Date

APEX LABORATORIES

ELEMENT SEQUENCE LOG

Apex Laboratories

OCT 2 8 2020

Sequence: **0J16020** Instrument: **TOC6**

Date: **10/16/20 08:23** Calibration: **A0H1904**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J16020-CCV1	Soil	QC	QC				A20I376
2	0J16020-CCB1	Soil	QC	QC				
3	0100457-BLK1	Soil	QC	QC		0100457		
4	0100457-BS1	Soil	QC	QC		0100457		
5	A0J0371-01	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
6	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
7	0100457-DUP1	Soil	QC	QC		0100457		
8	0100457-DUP2	Soil	QC	QC		0100457		
9	A0J0371-02	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
10	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
11	A0J0371-03	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
12	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
13	A0J0371-04	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
14	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
15	A0J0371-05	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
16	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
17	A0J0371-06	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
18	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
19	0J16020-CCV2	Soil	QC	QC				A20I376
20	0J16020-CCB2	Soil	QC	QC				
21	A0J0371-07	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
22	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
23	0100457-DUP3	Soil	QC	QC		0100457		
24	A0J0371-08	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
25	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
26	A0J0371-09	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
27	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
28	A0J0371-10	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
29	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
30	A0J0472-02	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/26/20	0100457		
31	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
32	A0J0472-03	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/26/20	0100457		
33	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
34	A0J0472-04	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/26/20	0100457		
35	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
36	A0J0472-05	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/26/20	0100457		
37	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
38	A0J0472-06	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/26/20	0100457		
39	"	Soil	Total Organic Carbon - Sediment (PSI	"	11/03/20	0100457		
40	0J16020-CCV3	Soil	QC	QC				A20I376
41	0J16020-CCB3	Soil	QC	QC				

Data Entered By/Date: cmm 10/27/2020

Data Reviewed By/Date: AMF 10/27/20

Comments: Data for A0J0371 & A0J0472 re-entered using correct Test Code for Anchor. cmm 10/27/2020

Batch 0100457 Sample Drying Analyst WVO

TOC conversion from dried @ 70 °C to "as received"

Sequence: 0J16020 Analyst: WVO

Sample ID	Tare (g)	initial + tare(g)	dried + tare(g)	correction factor	Skalar TOC (mg/kg)	Result for Element
A0J0371-01	1.2987	12.2831	5.5214	0.3844	24321.886	9350.0
0100457-DUP1	1.3091	12.2222	5.7535	0.4073	23073.974	9397.0
A0J0371-02	1.2987	12.0569	5.9157	0.4292	21929.138	9411.1
A0J0371-03	1.3077	11.8434	5.9501	0.4406	19147.591	8437.1
A0J0371-04	1.2715	12.2156	6.3650	0.4654	22312.345	10384.4
A0J0371-05	1.2843	11.7725	5.6502	0.4163	23370.316	9728.3
A0J0371-06	1.3039	12.1431	5.3250	0.3710	25659.414	9519.1
A0J0371-07	1.3024	12.4203	5.4206	0.3704	24611.144	9116.3
0100457-DUP3	1.2912	12.3893	5.4372	0.3736	25547.276	9543.9
A0J0371-08	1.2829	11.6407	5.2810	0.3860	26390.354	10186.6
A0J0371-09	1.2884	11.9944	5.4125	0.3852	26586.481	10241.5
A0J0371-10	1.2822	12.0933	5.5509	0.3948	26609.473	10506.6
A0J0472-02	1.2949	11.6638	7.6808	0.6159	10821.438	6664.6
A0J0472-03	1.3084	12.0992	6.4065	0.4724	19524.752	9224.4
A0J0472-04	1.2827	12.7822	6.0490	0.4145	25063.496	10388.3
A0J0472-05	1.3012	11.7224	6.7908	0.5268	15798.468	8322.2
A0J0472-06	1.3015	11.7519	6.1328	0.4623	23541.853	10883.6
0100457-DUP2	1.3091	12.2222	5.7535	0.4073	23353.245	9510.7

APEX LABORATORIES

ELEMENT SEQUENCE LOG

Apex Laboratories

OCT 2 1 2020

Sequence: 0J16020 ✓ Instrument: TOC6

Date: 10/16/20 08:23 Calibration: A0H1904 ✓

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J16020-CCV1	Soil	QC	QC				A20I376 ✓
2	0J16020-CCB1	Soil	QC	QC				
3	0100457-BLK1	Soil	QC	QC		0100457		
4	0100457-BS1	Soil	QC	QC		0100457		
5	A0J0371-01	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
6	0100457-DUP1	Soil	QC	QC		0100457		
7	0100457-DUP2	Soil	QC	QC		0100457		
8	A0J0371-02	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
9	A0J0371-03	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
10	A0J0371-04	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
11	A0J0371-05	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
12	A0J0371-06	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
13	0J16020-CCV2	Soil	QC	QC				A20I376 ✓
14	0J16020-CCB2	Soil	QC	QC				
15	A0J0371-07	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
16	0100457-DUP3	Soil	QC	QC		0100457		
17	A0J0371-08	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
18	A0J0371-09	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
19	A0J0371-10	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100457		
20	A0J0472-02	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/26/20	0100457		
21	A0J0472-03	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/26/20	0100457		
22	A0J0472-04	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/26/20	0100457		
23	A0J0472-05	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/26/20	0100457		
24	A0J0472-06	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/26/20	0100457		
25	0J16020-CCV3	Soil	QC	QC				A20I376 ✓
26	0J16020-CCB3	Soil	QC	QC				

Comments:

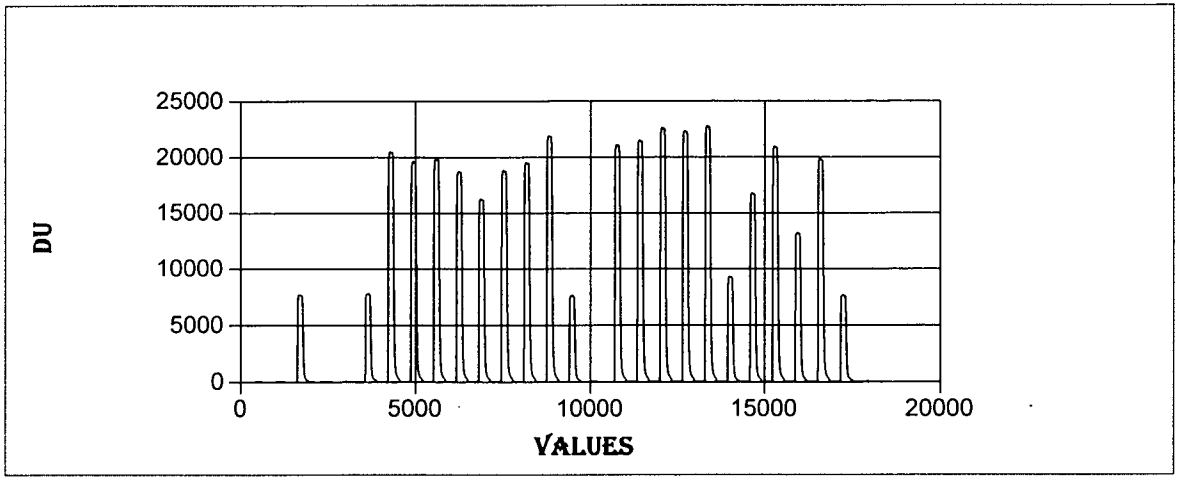
Data Entered By/Date: WD 10/16/20

Data Reviewed By/Date: CMM 10/19/2020

Method:	TCDirect	Run Start Time:	10/16/2020 11:07:16
Method Type:	TC_DIRECT	Run End Time:	10/16/2020 4:15:18
Table:	0J16020A	Device ID:	TOC6
Analyst:	Administrator	Run Name:	SN10020201016A1

Cup Position	Sample ID	Weight (mg)	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
A100	PRIME	200	31.066	0.006	4157.24	10/16/2020 11:07:26 AM
A2	BLANK	200	0	0	0	10/16/2020 11:18:33 AM
A1	0J16020-CCV1	200	9500.536	1.9	1271370.61	10/16/2020 11:29:26 AM
A2	0J16020-CCB1	200	42.762	0.009	5722.385	10/16/2020 11:40:12 AM
A3	0100457-BLK1	211.4	68.215	0.014	9648.905	10/16/2020 11:50:59 AM
A4	0100457-BS1	200	9558.007	1.912	1279061.445	10/16/2020 12:01:46 PM
A5	A0J0371-01	203.4	24321.886	4.947	3310108.73	10/16/2020 12:12:33 PM
A6	0100457-DUP1	205.3	23073.974	4.737	3169607.01	10/16/2020 12:23:19 PM
A7	0100457-DUP2	205.5	23353.245	4.799	3211094.865	10/16/2020 12:34:07 PM
A8	A0J0371-02	207.2	21929.138	4.544	3040222.62	10/16/2020 12:44:53 PM
A9	A0J0371-03	206.8	19147.591	3.96	2649468.405	10/16/2020 12:55:40 PM
A10	A0J0371-04	205.4	22312.345	4.583	3066477.145	10/16/2020 1:06:27 PM
A11	A0J0371-05	203.7	23370.316	4.761	3185295.19	10/16/2020 1:17:14 PM
A12	A0J0371-06	206.9	25659.414	5.309	3552231.83	10/16/2020 1:28:01 PM
A13	0J16020-CCV2	200	9309.757	1.862	1245840.46	10/16/2020 1:38:48 PM
A2	0J16020-CCB2	200	77.454	0.015	10364.93	10/16/2020 1:49:34 PM
A14	A0J0371-07	206.6	24611.144	5.085	3402171.37	10/16/2020 2:00:28 PM
A15	0100457-DUP3	203.5	25547.276	5.199	3478588.77	10/16/2020 2:11:22 PM
A16	A0J0371-08	206.5	26390.354	5.45	3646358.29	10/16/2020 2:22:09 PM
A17	A0J0371-09	203	26586.481	5.397	3611195.25	10/16/2020 2:32:56 PM
A18	A0J0371-10	207.3	26609.473	5.516	3690877.67	10/16/2020 2:43:43 PM
A19	A0J0472-02	208.2	10821.438	2.253	1507508.465	10/16/2020 2:54:29 PM
A20	A0J0472-03	208	19524.752	4.061	2717333.375	10/16/2020 3:05:17 PM
A21	A0J0472-04	203.1	25063.496	5.09	3406007.81	10/16/2020 3:16:04 PM
A22	A0J0472-05	203.6	15798.468	3.217	2152220.745	10/16/2020 3:26:51 PM
A23	A0J0472-06	203.9	23541.853	4.8	3211825.51	10/16/2020 3:37:38 PM
A24	0J16020-CCV3	200	9444.589	1.889	1263883.78	10/16/2020 3:48:24 PM
A2	0J16020-CCB3	200	77.725	0.016	10401.18	10/16/2020 3:59:11 PM

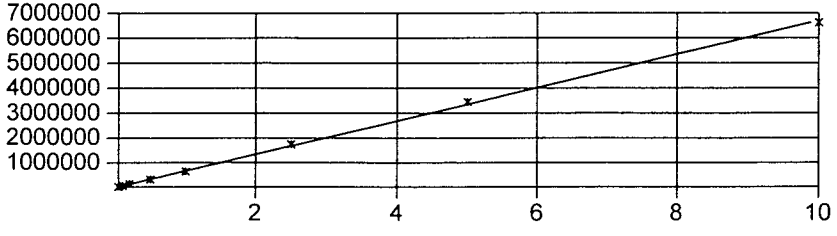
WO 10/19/20



SNACCESS

dLam 10/19/2020

RUN NAME : SN100202008181A3 METHOD NAME : TCDIRECT CALIBRATION TYPE : I
ORDER FORCED THRO ZERO GROUP : 1
A = 0.00000000000000 B = 669104.68364697200000 R = 0.99973664180877 R-SQUARED = 0.99942005573222



Conventional Chemistry Parameters

Total Organic Carbon- Soil (5310 B)
Calibration Data

Sequence 0H18059 (Cal ID A0H1904) TOC6

APEX LABORATORIES

ELEMENT SEQUENCE LOG

Apex Laboratories

AUG 2 4 2020

Sequence: 0H18059 ~ Instrument: TOC6

Date: 08/18/20 16:37 Calibration: ~~A0H1804~~ A0H1904 WO 8/19/20

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0H18059-CAL1	Sediment	QC	QC				
2	0H18059-CAL2	Sediment	QC	QC				A20H281 ~
3	0H18059-CAL3	Sediment	QC	QC				A20H282 ~
4	0H18059-CAL4	Sediment	QC	QC				A20H283 ~
5	0H18059-CAL5	Sediment	QC	QC				A20H284 ~
6	0H18059-CAL6	Sediment	QC	QC				A20H285 ~
7	0H18059-CAL7	Sediment	QC	QC				A20H286 ~
8	0H18059-CAL8	Sediment	QC	QC				A20H287 ~
9	0H18059-CAL9	Sediment	QC	QC				A20H288 ~
10	0H18059-ICV1	Sediment	QC	QC				A20E110 ~
11	0H18059-ICB1	Sediment	QC	QC				

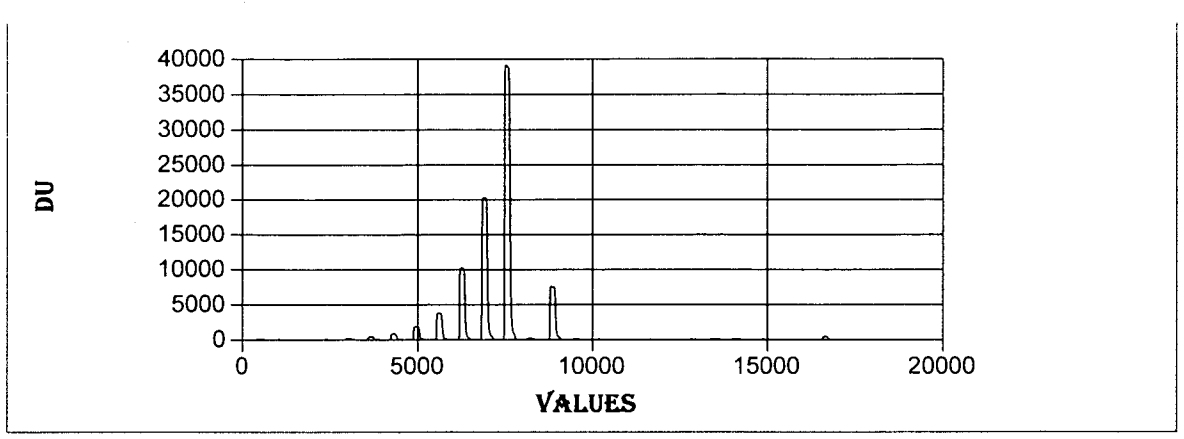
Comments:

Data Entered By/Date: WO 8/18/20

Data Reviewed By/Date: amz 8/19/2020

Method:	TCDirect	Run Start Time:	8/18/2020 4:59:13 P
Method Type:	TC_DIRECT	Run End Time:	8/18/2020 9:46:17 P
Table:	0H18059	Device ID:	TOC6
Analyst:	Administrator	Run Name:	SN10020200818A3

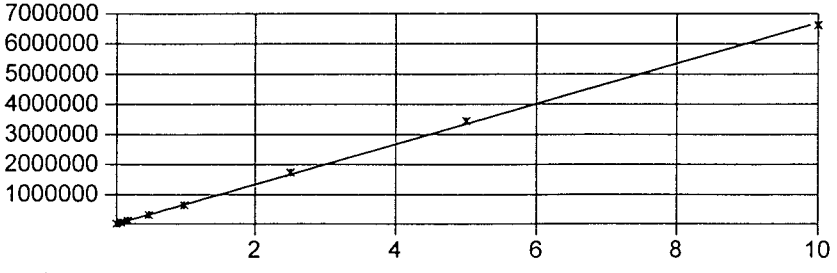
Cup Position	Sample ID	Weight (mg)	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
A98	prime	200	105.248	0.021	14084.43	8/18/2020 4:59:24 PM
A18	blank	200	0	0	0	8/18/2020 5:10:25 PM
A2	blank	200	19.356	0.004	2590.265	8/18/2020 5:21:20 PM
A18	0H18059-CAL1	200	0	0	0	8/18/2020 5:32:13 PM
A19	0H18059-CAL2	40	1140.934	0.046	30536.16	8/18/2020 5:43:07 PM
A20	0H18059-CAL3	100	1075.239	0.108	71944.735	8/18/2020 5:53:54 PM
A21	0H18059-CAL4	200	1074.057	0.215	143731.35	8/18/2020 6:04:42 PM
A22	0H18059-CAL5	50	9779.244	0.489	327166.91	8/18/2020 6:15:28 PM
A23	0H18059-CAL6	100	9754.176	0.975	652656.49	8/18/2020 6:26:14 PM
A24	0H18059-CAL7	250	10405.909	2.601	1740660.62	8/18/2020 6:37:07 PM
A25	0H18059-CAL8	500	10328.711	5.164	3455494.44	8/18/2020 6:47:54 PM
A26	0H18059-CAL9	1000	9895.069	9.895	6620837.05	8/18/2020 6:58:40 PM
A98	0H18059-IBL1	200	251.829	0.05	33699.97	8/18/2020 7:09:26 PM
A27	0H18059-ICV1	200	9819.341	1.964	1314033.455	8/18/2020 7:20:27 PM
A2	0H18059-ICB1	200	162.52	0.033	21748.54	8/18/2020 7:31:13 PM
A19	CLEAN19	200	85.855	0.017	11489.14	8/18/2020 7:42:06 PM
A20	CLEAN20	200	62.561	0.013	8372.015	8/18/2020 7:53:00 PM
A21	CLEAN21	200	48.713	0.01	6518.76	8/18/2020 8:03:53 PM
A22	CLEAN22	200	48.015	0.01	6425.385	8/18/2020 8:14:46 PM
A23	CLEAN23	200	69.557	0.014	9308.23	8/18/2020 8:25:32 PM
A24	CLEAN24	200	46.695	0.009	6248.81	8/18/2020 8:36:19 PM
A25	CLEAN25	200	89.279	0.018	11947.395	8/18/2020 8:47:05 PM
A26	CLEAN26	200	49.395	0.01	6610.08	8/18/2020 8:57:52 PM
A27	CLEAN27	200	50.304	0.01	6731.79	8/18/2020 9:08:38 PM
A28	CLEAN28	200	23.025	0.005	3081.205	8/18/2020 9:19:31 PM
A30	CLEAN30	200	558.249	0.112	74705.365	8/18/2020 9:30:18 PM



SNACCESS

METHOD NAME : TCDIRECT CALIBRATION TYPE : I ORDER FORCED THRO ZERO GROUP : 1

A = 0.00000000000000 B = 669104.68364697200000 R = 0.99973664180877 R-SQUARED = 0.99942005573222

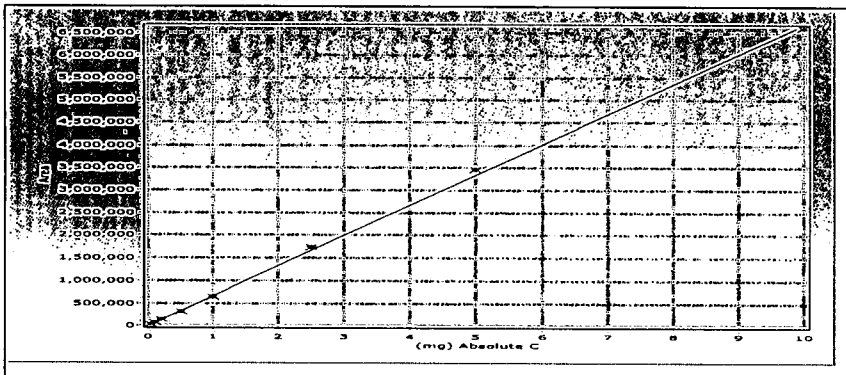


Date : 8/19/2020

Run start date time : 8/18/2020 4:59:13 PM Run end date : 8/18/2020 9:46:13 PM

Run Display Name : 0H18059 Run DB : SN10020200818A3

Created User : Administrator



Method Name :	TCDirect		
Type :	1Order Forced thro Zer	Group =	1
a =	0	r =	0.99973664180877
b =	669104.683646972	R-Squared =	0.99942005573222

Serial No	Position	Type	Identity	Weight	Peak Area	Residuals
5	A19	S	0H18059-CAL2	40	30536.1600	12.3525
6	A20	S	0H18059-CAL3	100	71944.7350	6.9974
7	A21	S	0H18059-CAL4	200	143731.3500	6.8951
8	A22	S	0H18059-CAL5	50	327166.9100	2.2574
9	A23	S	0H18059-CAL6	100	652656.4900	2.5202
10	A24	S	0H18059-CAL7	250	1740660.6200	3.9008
11	A25	S	0H18059-CAL8	500	3455494.4400	3.1825
12	A26	S	0H18059-CAL9	1000	6620837.0500	1.0604

OK cmr 8/19/2020

Total Solids by SM2540G
Benchsheet Data

Batch 0100456 (A0J0371-01,02,03,04,05,06,07,08,09,10)

Apex Laboratories

PREPARATION BENCH SHEET

JAN 1 6 2020

BATCH #: 0010456 (Solid)

Prep Method: EPA 3546 (Fuels)

#	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
	0010456-BLK1		QC	01/15/20 12:57	10	5				100					
	0010456-BS1		QC	01/15/20 12:57	10	5	A20A166		100	100					
	A9L1045-01	A	NWTPH-Dx (Diesel/Oil)	01/15/20 12:57	2.03	5				100	Pit	out of hold ok			
	0010456-DUP1		QC	01/15/20 12:57	2.02	5		A9L1045-01		100					
	A9L1045-01RE1	A	NWTPH-Dx (Diesel/Oil)	01/15/20 12:57	2.03	5				100	Pit	out of hold ok			
	0010456-DUP2		QC	01/15/20 12:57	2.02	5		A9L1045-01RE1		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
A19L136	06/06/20	Sodium Sulfate Lot # 194950

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A166	07/11/20	NWTPH-DX Spike in Methanol

Surrogate(s)

Std ID	Exp. Date	Description
A20A129	04/27/20	NWTPH-DX Soil Surrogate in DCM

Method 3546 digestion time and temperature achieved.
Initial:

Witness: _____

Prepared By: _____ Date

Reviewed By: Ben Yakhlef 1.16.20 Date

Apex Laboratories

PREPARATION BENCH SHEET

BATCH #: 0010456 (Solid)

Prep Method: EPA 3546 (Fuels)

#	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
18	0010456-BLK1		QC	01/15/20 12:57	~~10~~ 10.0	5				100					
19	0010456-BS1		QC	01/15/20 12:57	10 SCG 1/15/20	5	A20A166		100	100					
20	A9L1045-01	A	NWTPH-Dx (Diesel/Oil)	01/15/20 12:57	~~10~~ 2.03	5				100	Pit	out of hold ok Grey sludge (Low Vol)			
21	0010456-DUP1		QC	01/15/20 12:57	~~10~~ 2.02	5		A9L1045-01		100		Grey sludge (Low Vol)			

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
A19L136	06/06/20	Sodium Sulfate Lot # 194950

Analyte Spike(s)

Std ID	Exp. Date	Description
A20A166	07/11/20	NWTPH-DX Spike in Methanol

SCG

Surrogate(s)

Std ID	Exp. Date	Description
~~A19L269~~ A20A129	04/27/20	NWTPH-DX Soil Surrogate in DCM

SCG

Method 3546 digestion time and temperature achieved.
Initial: SCG

Witness: JAG 1/15/2020

SCG 01/15/2020
Prepared By: Date

CAS 01/15/2020
Reviewed By: Date

Balance Checksheets

Extractions October 2020
Wet Chem October 2020

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: October
Year: 2020

Alternate Weight/ID used:

Date Range:

Day/Time	Initials	Weight One	Observed	Weight Two	Observed
1 0648	SCG		0.50		300.02
2 0650	SCG		0.50		300.02
3					
4					
5 0655	SCG		0.50		300.01
6 0650	SCG		0.50		300.04
7 0647	SCG		0.50		300.04
8 0647	SCG		0.50		300.04
9 0653	SCG		0.50		300.04
10 0848	SCG		0.50		300.04
11					
12 0650	SCG		0.50		300.04
13 0650	SCG		0.50		300.02
14 0750	~~AJJ~~		0.50		300.00
15 0735	AJJ		0.50		300.04
16 7:11	JC	0.50g	0.50	300.00g	300.01
17 9:20	Cmbt		0.51		300.04
18					
19 0651	SCG		0.50		300.04
20 0649	SCG		0.50		300.04
21 0652	SCG		0.50		300.02
22 0656	SCG		0.51		300.03
23 0649	SCG		0.50		300.05
24					
25					
26 0652	SCG		0.50		300.02
27 0655	SCG		0.50		300.03
28 0644	SCG		0.51		300.03
29 0647	SCG		0.50		300.01
30 0643	SCG		0.50		300.02
31 ~~0700~~	SCG 11/02/20				

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: October
Year: 2020

Alternate Weight/ID used: | Date Range:

Day/Time	Initials	Weight 1	Observed	Weight 2	Observed	Weight 3	Observed
1 1116	AMB		100.0006		0.1001		0.0048
2 923	HAS		100.0012		0.1002		0.0049
3							
4							
5 1026	HAS		100.0015		0.0999		0.0051
6 0839	MVO		100.0012		0.1001		0.0050
7 0849	MVO		100.0019		0.0999		0.0049
8 0833	JKP		100.0014		0.1000		0.0051
9 1056	HAS		100.0018	HAS 10/9/20	~~0.1010~~ 0.1001		0.0054
10							
11							
12 0920	HAS		100.0015		0.0999		0.0053 MVO 9/13/20
13 0825	MVO		100.0027		0.1002		~~0.0049~~ 0.0050
14 1028	HAS		100.0017		0.1000		0.0049
15 1048	AMB		100.0010		0.1002		0.0051
16 1005	HAS	100.0000g	100.0009	0.1000g	0.1002	.0050g	0.0049
17							
18							
19 1002	MVO		100.0014		0.1000		0.0048
20 0856	MVO		100.0009		0.1000		0.0052
21 0933	HAS		100.0012		0.1000		0.0048
22 1120	AMB		100.0000		0.1002		0.0049
23 1126	AMB		99.9998		0.9998		0.0080
24							
25							
26							
27							
28							
29							
30							
31							

Balance Challenge Log

Wet Chem Balance 5
Ohaus Pioneer PX124
ID# C032834626

Weight ID	weight (g) <0.5000g >/=0.5000g	acceptance range (g) ± 0.5mg ± 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: October
Year: 2020

Alternate Weight/ID used:

Date Range:

Day/Time	Initials	Weight 1	Observed	Weight 2	Observed	Weight 3	Observed
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16		100.0000g		0.1000g		.0050g	
17							
18							
19							
20							
21							
22							
23							
24							
~~25~~							
26 HAS	0948		100.0004		0.1000		0.0049
27 1027	AMB		99.9994		0.1000		0.0050
28 HAS	0910		99.9995		0.0998		0.0050
29 1140	AMB		99.9996		0.1000		0.0048
30 1015	AMB		100.0000		0.0999		0.0050
31							

Not in service pre 10/26/20

Amended Data

Amended CLP-Like Forms

Apex Laboratories

SDG: A0J0371

CLASS: GCMS

METHOD: EPA 8270E

ANALYSES DATA PACKAGE COVER PAGE

EPA 8270E

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4

Client Sample Id:	Lab Sample Id:	Matrix
USMPDI-003SG-201011	A0J0371-02	SE
USMPDI-012SG-201010	A0J0371-05	SE
USMPDI-021SG-201010	A0J0371-06	SE
USMPDI-045SG-201010	A0J0371-10	SE

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: 2/19/2021 10:12AM
Title: Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Apex Laboratories **SDG:** A0J0371

Client: Anchor QEA, LLC **Project:** US Moorings -- C2, C3, C4

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 8270E

USMPDI-003SG-201011

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	SE	Laboratory ID:	A0J0371-02	File ID:	N10222011.D
Sampled:	10/11/20 10:53	Prepared:	10/22/20 10:40	Analyzed:	10/22/20 20:22
Solids:	42.85	Preparation:	EPA 3546	Initial/Final:	10.34 g / 5 mL
Batch:	0100764	Sequence:	0J22053	Calibration:	A0H1005
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	100	282	U
208-96-8	Acenaphthylene	100	282	U
120-12-7	Anthracene	100	282	U
56-55-3	Benz(a)anthracene	100	444	JD
50-32-8	Benzo(a)pyrene	100	749	D
205-99-2	Benzo(b)fluoranthene	100	634	D
207-08-9	Benzo(k)fluoranthene	100	282	U
191-24-2	Benzo(g,h,i)perylene	100	553	JD
218-01-9	Chrysene	100	489	JD
53-70-3	Dibenz(a,h)anthracene	100	282	U
206-44-0	Fluoranthene	100	927	D
86-73-7	Fluorene	100	282	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	478	JD
91-57-6	2-Methylnaphthalene	100	282	U
91-20-3	Naphthalene	100	282	U
85-01-8	Phenanthrene	100	544	JD
129-00-0	Pyrene	100	1010	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	113	74.5	66	44 - 120	D
p-Terphenyl-d14 (Surr)	113	94.8	84	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	265037	7.743	262328	7.743	
Acenaphthene-d10 (ISTD)	168216	9.492	160377	9.492	
Phenanthrene-d10 (ISTD)	329765	10.996	305267	10.996	
Chrysene-d12 (ISTD)	307959	14.633	260148	14.633	
Perylene-d12 (ISTD)	302945	18.083	221037	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	255992	20.467	163573	20.467	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

USMPDI-012SG-201010

Laboratory:	Apex Laboratories		SDG:	A0J0371	
Client:	Anchor QEA, LLC		Project:	US Moorings -- C2, C3, C4	
Matrix:	SE	Laboratory ID:	A0J0371-05RE1	File ID:	N10232006.D
Sampled:	10/10/20 14:25	Prepared:	10/22/20 10:40	Analyzed:	10/23/20 15:00
Solids:	40.59	Preparation:	EPA 3546	Initial/Final:	10.01 g / 5 mL
Batch:	0100764	Sequence:	0J23034	Calibration:	A0H1005
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	40	366	D
208-96-8	Acenaphthylene	40	123	U
120-12-7	Anthracene	40	141	JD
56-55-3	Benz(a)anthracene	40	223	JD
50-32-8	Benzo(a)pyrene	40	335	D
205-99-2	Benzo(b)fluoranthene	40	281	D
207-08-9	Benzo(k)fluoranthene	40	123	U
191-24-2	Benzo(g,h,i)perylene	40	282	D
218-01-9	Chrysene	40	266	D
53-70-3	Dibenz(a,h)anthracene	40	123	U
206-44-0	Fluoranthene	40	822	D
86-73-7	Fluorene	40	147	JD
193-39-5	Indeno(1,2,3-cd)pyrene	40	230	JD
91-57-6	2-Methylnaphthalene	40	123	U
91-20-3	Naphthalene	40	123	U
85-01-8	Phenanthrene	40	991	D
129-00-0	Pyrene	40	842	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	123	86.6	70	44 - 120	D
p-Terphenyl-d14 (Surr)	123	114	92	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	257576	7.738	253522	7.737	
Acenaphthene-d10 (ISTD)	163352	9.492	162584	9.492	
Phenanthrene-d10 (ISTD)	322942	10.996	317283	10.995	
Chrysene-d12 (ISTD)	309036	14.633	307582	14.638	
Perylene-d12 (ISTD)	307302	18.083	282846	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	258106	20.467	220112	20.467	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

USMPDI-021SG-201010

Laboratory:	Apex Laboratories		SDG:	A0J0371	
Client:	Anchor QEA, LLC		Project:	US Moorings -- C2, C3, C4	
Matrix:	SE	Laboratory ID:	A0J0371-06	File ID:	N10222013.D
Sampled:	10/10/20 12:20	Prepared:	10/22/20 10:40	Analyzed:	10/22/20 21:26
Solids:	38.05	Preparation:	EPA 3546	Initial/Final:	10.06 g / 5 mL
Batch:	0100764	Sequence:	0J22053	Calibration:	A0H1005
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	100	327	U
208-96-8	Acenaphthylene	100	327	U
120-12-7	Anthracene	100	327	U
56-55-3	Benz(a)anthracene	100	419	JD
50-32-8	Benzo(a)pyrene	100	669	D
205-99-2	Benzo(b)fluoranthene	100	551	JD
207-08-9	Benzo(k)fluoranthene	100	327	U
191-24-2	Benzo(g,h,i)perylene	100	481	JD
218-01-9	Chrysene	100	487	JD
53-70-3	Dibenz(a,h)anthracene	100	327	U
206-44-0	Fluoranthene	100	815	D
86-73-7	Fluorene	100	327	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	400	JD
91-57-6	2-Methylnaphthalene	100	327	U
91-20-3	Naphthalene	100	327	U
85-01-8	Phenanthrene	100	509	JD
129-00-0	Pyrene	100	1010	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	131	83.6	64	44 - 120	D
p-Terphenyl-d14 (Surr)	131	124	95	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	260107	7.743	262328	7.743	
Acenaphthene-d10 (ISTD)	169906	9.492	160377	9.492	
Phenanthrene-d10 (ISTD)	335965	10.996	305267	10.996	
Chrysene-d12 (ISTD)	300553	14.633	260148	14.633	
Perylene-d12 (ISTD)	291648	18.083	221037	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	250855	20.467	163573	20.467	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

USMPDI-045SG-201010

Laboratory:	Apex Laboratories		SDG:	A0J0371	
Client:	Anchor QEA, LLC		Project:	US Moorings -- C2, C3, C4	
Matrix:	SE	Laboratory ID:	A0J0371-10	File ID:	N10222009.D
Sampled:	10/10/20 09:18	Prepared:	10/22/20 10:40	Analyzed:	10/22/20 19:18
Solids:	39.47	Preparation:	EPA 3546	Initial/Final:	10.17 g / 5 mL
Batch:	0100764	Sequence:	0J22053	Calibration:	A0H1005
Instrument:	SV-GCMS14				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	100	197	D
208-96-8	Acenaphthylene	100	192	D
120-12-7	Anthracene	100	396	D
56-55-3	Benz(a)anthracene	100	1570	D
50-32-8	Benzo(a)pyrene	100	2840	D
205-99-2	Benzo(b)fluoranthene	100	2290	D
207-08-9	Benzo(k)fluoranthene	100	811	D
191-24-2	Benzo(g,h,i)perylene	100	1980	D
218-01-9	Chrysene	100	1970	D
53-70-3	Dibenz(a,h)anthracene	100	223	D
206-44-0	Fluoranthene	100	2200	D
86-73-7	Fluorene	100	194	D
193-39-5	Indeno(1,2,3-cd)pyrene	100	1630	D
91-57-6	2-Methylnaphthalene	100	213	D
91-20-3	Naphthalene	100	639	D
85-01-8	Phenanthrene	100	1150	D
129-00-0	Pyrene	100	2590	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	125	83.5	67	44 - 120	D
p-Terphenyl-d14 (Surr)	125	106	85	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	252371	7.743	262328	7.743	
Acenaphthene-d10 (ISTD)	164397	9.492	160377	9.492	
Phenanthrene-d10 (ISTD)	325875	10.996	305267	10.996	
Chrysene-d12 (ISTD)	312942	14.633	260148	14.633	
Perylene-d12 (ISTD)	308858	18.083	221037	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	256337	20.467	163573	20.467	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Batch: 0100764 Batch Matrix: Sediment Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0100764-BLK1	N10222005.D	10/22/20 10:40	
LCS	0100764-BS1	N10222006.D	10/22/20 10:40	
USMPDI-045SG-201010 (MS)	0100764-MS1	N10222010.D	10/22/20 10:40	
USMPDI-003SG-201011	A0J0371-02	N10222011.D	10/22/20 10:40	
USMPDI-012SG-201010	A0J0371-05RE1	N10232006.D	10/22/20 10:40	
USMPDI-021SG-201010	A0J0371-06	N10222013.D	10/22/20 10:40	
USMPDI-045SG-201010	A0J0371-10	N10222009.D	10/22/20 10:40	

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 8270E

Laboratory:	Apex Laboratories			SDG:	A0J0371
Client:	Anchor QEA, LLC			Project:	US Moorings -- C2, C3, C4
Matrix:	Sediment	Laboratory ID:	0100764-BLK1	File ID:	N10222005.D
Prepared:	10/22/20 10:40	Preparation:	EPA 3546	Initial/Final:	11 g / 5 mL
Analyzed:	10/22/20 17:09	Instrument:	SV-GCMS14		
Batch:	0100764	Sequence:	0J22053	Calibration:	A0H1005

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	1.14	U
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	41.5	91	44 - 120	
p-Terphenyl-d14 (Surr)	45.5	49.1	108	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	249163	7.743	262328	7.743	
Acenaphthene-d10 (ISTD)	159162	9.492	160377	9.492	
Phenanthrene-d10 (ISTD)	313430	10.996	305267	10.996	
Chrysene-d12 (ISTD)	282228	14.633	260148	14.633	
Perylene-d12 (ISTD)	268366	18.083	221037	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	230260	20.467	163573	20.467	

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Matrix:	Sediment		
Batch:	0100764	Laboratory ID:	0100764-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	19.8	99	40 - 123
Acenaphthylene	20.0	20.5	103	32 - 132
Anthracene	20.0	21.4	107	47 - 123
Benz(a)anthracene	20.0	19.5	97	49 - 126
Benzo(a)pyrene	20.0	22.7	114	45 - 129
Benzo(b)fluoranthene	20.0	20.1	101	45 - 132
Benzo(k)fluoranthene	20.0	19.8	99	47 - 132
Benzo(g,h,i)perylene	20.0	18.7	94	43 - 134
Chrysene	20.0	19.7	98	50 - 124
Dibenz(a,h)anthracene	20.0	18.3	92	45 - 134
Fluoranthene	20.0	20.3	101	50 - 127
Fluorene	20.0	21.4	107	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	17.2	86	45 - 133
2-Methylnaphthalene	20.0	20.2	101	38 - 122
Naphthalene	20.0	18.6	93	35 - 123
Phenanthrene	20.0	19.3	96	50 - 121
Pyrene	20.0	19.3	97	47 - 127

* = Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270E

USMPDI-045SG-201010

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Matrix:	Sediment		
Batch:	0100764	Laboratory ID:	0100764-MS1
Preparation:	EPA 3546	Initial/Final:	10.23 g / 5 mL

Source Sample Name: USMPDI-045SG-201010

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	49.5	197	230	68	40 - 123
Acenaphthylene	49.5	192	194	5 *	32 - 132
Anthracene	49.5	396	462	133 *	47 - 123
Benz(a)anthracene	49.5	1570	1110	-929 *	49 - 126
Benzo(a)pyrene	49.5	2840	1610	-2490 *	45 - 129
Benzo(b)fluoranthene	49.5	2290	1370	-1860 *	45 - 132
Benzo(k)fluoranthene	49.5	811	480	-667 *	47 - 132
Benzo(g,h,i)perylene	49.5	1980	1110	-1760 *	43 - 134
Chrysene	49.5	1970	1330	-1300 *	50 - 124
Dibenz(a,h)anthracene	49.5	223	177	-93 *	45 - 134
Fluoranthene	49.5	2200	2110	-181 *	50 - 127
Fluorene	49.5	194	240	93	43 - 125
Indeno(1,2,3-cd)pyrene	49.5	1630	930	-1420 *	45 - 133
2-Methylnaphthalene	49.5	213	142	-143 *	38 - 122
Naphthalene	49.5	639	289	-708 *	35 - 123
Phenanthrene	49.5	1150	1340	394 *	50 - 121
Pyrene	49.5	2590	2370	-453 *	47 - 127

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0H07053	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0H07053-TUN1	N08072008.D	08/07/20 15:49
Initial Cal Blank	0H07053-ICB1	N08072009.D	08/07/20 16:17
Cal Standard	0H07053-CAL1	N08072010.D	08/07/20 16:50
Cal Standard	0H07053-CAL2	N08072011.D	08/07/20 17:23
Cal Standard	0H07053-CAL3	N08072012.D	08/07/20 17:56
Cal Standard	0H07053-CAL4	N08072013.D	08/07/20 18:29
Cal Standard	0H07053-CAL5	N08072014.D	08/07/20 19:02
Cal Standard	0H07053-CAL6	N08072015.D	08/07/20 19:35
Cal Standard	0H07053-CAL7	N08072016.D	08/07/20 20:07
Cal Standard	0H07053-CAL8	N08072017.D	08/07/20 20:40
Cal Standard	0H07053-CAL9	N08072018.D	08/07/20 21:12
Cal Standard	0H07053-CALA	N08072019.D	08/07/20 21:45
Initial Cal Check	0H07053-ICV1	N08072022.D	08/07/20 23:23

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 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J22053	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0J22053-TUN1	N10222001.D	10/22/20 15:05
Calibration Check	0J22053-CCV1	N10222003.D	10/22/20 16:05
Calibration Blank	0J22053-CCB1	N10222004.D	10/22/20 16:37
Blank	0100764-BLK1	N10222005.D	10/22/20 17:09
LCS	0100764-BS1	N10222006.D	10/22/20 17:41
USMPDI-045SG-201010	A0J0371-10	N10222009.D	10/22/20 19:18
USMPDI-045SG-201010 (MS)	0100764-MS1	N10222010.D	10/22/20 19:50
USMPDI-003SG-201011	A0J0371-02	N10222011.D	10/22/20 20:22
USMPDI-021SG-201010	A0J0371-06	N10222013.D	10/22/20 21:26

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J23034	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0J23034-TUN1	N10232001.D	10/23/20 10:00
Calibration Check	0J23034-CCV1	N10232003.D	10/23/20 10:59
Calibration Blank	0J23034-CCB1	N10232004.D	10/23/20 11:31
USMPDI-012SG-201010	A0J0371-05RE1	N10232006.D	10/23/20 15:00

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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Lab File ID:	N08072008.D	Injection Date:	08/07/20
Instrument ID:	SV-GCMS14	Injection Time:	15:49
Sequence:	0H07053	Lab Sample ID:	0H07053-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.94	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.48	PASS
m/z 197	Less than 2% of m/z 198	0.00	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.87	PASS
m/z 365	1 - 100% of m/z 198	4.48	PASS
m/z 441	Less than 150% of m/z 443	77.10	PASS
m/z 442	0.1 - 200% of m/z 198	160.18	PASS
m/z 443	15 - 24% of m/z 442	19.73	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Lab File ID:	N10222001.D	Injection Date:	10/22/20
Instrument ID:	SV-GCMS14	Injection Time:	15:05
Sequence:	0J22053	Lab Sample ID:	0J22053-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.79	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.50	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	6.82	PASS
m/z 365	1 - 100% of m/z 198	4.51	PASS
m/z 441	Less than 150% of m/z 443	77.76	PASS
m/z 442	0.1 - 200% of m/z 198	160.72	PASS
m/z 443	15 - 24% of m/z 442	19.63	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Lab File ID:	N10232001.D	Injection Date:	10/23/20
Instrument ID:	SV-GCMS14	Injection Time:	10:00
Sequence:	0J23034	Lab Sample ID:	0J23034-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.77	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.52	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	6.79	PASS
m/z 365	1 - 100% of m/z 198	4.35	PASS
m/z 441	Less than 150% of m/z 443	76.62	PASS
m/z 442	0.1 - 200% of m/z 198	150.40	PASS
m/z 443	15 - 24% of m/z 442	19.59	PASS

INITIAL CALIBRATION DATA (Summary)

EPA 8270E

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

Calibration: A0H1005 Date: 08/10/20 14:04 Instrument: SV-GCMS14

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.224777	Ave	3.28774	9.521667	1.529013E-02			20	
Acenaphthylene	1.676085	Ave	6.64947	9.346666	1.797138E-02			20	
Anthracene	0.8864905	Ave	6.420735	11.072	7.521604E-03			20	
Benz(a)anthracene	0.9997107	Ave	8.090332	14.612	3.897712E-02			20	
Benzo(a)pyrene	0.7351622	Ave	8.286794	17.94644	5.617144E-02			20	
Benzo(b)fluoranthene	1.013983	Ave	4.444269	17.17922	5.423954E-02			20	
Benzo(k)fluoranthene	0.9566106	Ave	6.313553	17.24389	6.995392E-02			20	
Benzo(g,h,i)perylene	1.094263	Ave	7.72528	21.01056	6.176028E-02			20	
Chrysene	1.032987	Ave	2.369351	14.69089	5.186376E-02			20	
Dibenz(a,h)anthracene	1.058201	Ave	3.82909	20.53556	4.836268E-02			20	
Fluoranthene	1.122704	Ave	6.327389	12.26044	1.770666E-02			20	
Fluorene	1.246869	Ave	6.297717	10.04578	1.694453E-02			20	
Indeno(1,2,3-cd)pyrene	1.07625	Ave	3.581026	20.47555	0.0624759			20	
2-Methylnaphthalene	0.7456587	Ave	5.017066	8.443	1.801969E-02			20	
Naphthalene	1.031219	Ave	6.62107	7.761	8.103876E-03			20	
Phenanthrene	1.082295	Ave	5.452007	11.01967	2.384211E-02			20	
Pyrene	1.338996	Ave	10.87983	12.53633	3.221527E-02			20	
2-Fluorobiphenyl (Surr)	1.42981	Ave	3.043226	8.804667	0.021133			20	
p-Terphenyl-d14 (Surr)	0.9614652	Ave	4.151337	12.73078	3.086798E-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 8270E

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Calibration: A0H1005
Instrument: SV-GCMS14
Calibration Date: 08/10/20 14:04

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	1.266588	2	1.259815	5	1.265777	10	1.192073	20	1.235865	50	1.231708
Acenaphthylene	1	1.473633	2	1.566064	5	1.592098	10	1.684731	20	1.685739	50	1.756836
Anthracene	1	0.8682272	2	0.8626834	5	0.8328087	10	0.7750112	20	0.9046703	50	0.9389991
Benz(a)anthracene	1	1.184899	2	1.074494	5	0.9605319	10	0.9221166	20	0.9631404	50	0.963527
Benzo(a)pyrene	1	0.7540831	2	0.6814332	5	0.6490017	10	0.6616363	20	0.7174292	50	0.7561626
Benzo(b)fluoranthene	1	1.008465	2	1.004204	5	0.9228586	10	0.9823829	20	1.012913	50	1.015306
Benzo(k)fluoranthene	1	0.9262896	2	0.85418	5	0.9182004	10	0.919192	20	0.9394501	50	0.9839213
Benzo(b+k)fluoranthene(s)	2	0.9673774	4	0.9991685	10	0.981519	20	1.014628	40	1.033446	100	1.051087
Benzo(g,h,i)perylene	1	1.002955	2	1.024852	5	1.002527	10	1.045448	20	1.075362	50	1.105886
Chrysene	1	1.049666	2	1.051325	5	1.062643	10	1.01291	20	1.045981	50	1.034519
Dibenz(a,h)anthracene	1	1.062196	2	1.058074	5	1.012511	10	1.009203	20	1.045319	50	1.024115
Fluoranthene	1	1.056056	2	1.074463	5	1.057517	10	1.022427	20	1.136697	50	1.169593
Fluorene	1	1.207642	2	1.215405	5	1.185375	10	1.104056	20	1.246986	50	1.30179
Indeno(1,2,3-cd)pyrene	1	1.056685	2	1.049768	5	1.042339	10	1.056869	20	1.057141	50	1.051176
1-Methylnaphthalene	1	0.7088105	2	0.7198507	5	0.7441939	10	0.7430097	20	0.7567288	50	0.7691963
2-Methylnaphthalene	1	0.674944	2	0.7345506	5	0.735525	10	0.7034539	20	0.7538713	50	0.7799008
Naphthalene	1	1.192481	2	1.065522	5	1.023012	10	1.030426	20	1.027633	50	1.001125
Phenanthrene	1	1.194887	2	1.147992	5	1.072126	10	1.061079	20	1.080868	50	1.07704
Pyrene	1	1.284177	2	1.2849	5	1.313924	10	1.6735	20	1.366347	50	1.310469
Carbazole	1	0.5952944	2	0.5751223	5	0.6089076	10	0.5022022	20	0.7240911	50	0.7596221
Dibenzofuran	1	1.495001	2	1.486482	5	1.487576	10	1.397071	20	1.543034	50	1.598791
2-Fluorobiphenyl (Surr)	1	1.376373	2	1.392688	5	1.424779	10	1.394323	20	1.45977	50	1.49245
p-Terphenyl-d14 (Surr)	1	0.9477046	2	0.8995485	5	0.9648729	10	1.002554	20	1.009059	50	0.9827495

INITIAL CALIBRATION DATA (Continued)

EPA 8270E

Laboratory: Apex Laboratories
SDG: A0J0371
Client: Anchor QEA, LLC
Project: US Moorings -- C2, C3, C4
Calibration: A0H1005
Instrument: SV-GCMS14
Matrix:
Calibration Date: 08/10/20 14:04

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	1.219383	200	1.209551	400	~~1.232999~~	600	1.142233				
Acenaphthylene	100	1.792244	200	1.80289	400	~~1.876483~~	600	1.730527				
Anthracene	100	0.9382494	200	0.9420696	400	~~0.7901208~~	600	0.9156957				
Benz(a)anthracene	100	0.9611599	200	0.9726267	400	~~1.048637~~	600	0.9949005				
Benzo(a)pyrene	100	0.7782665	200	0.805154	400	~~0.779903~~	600	0.8132936				
Benzo(b)fluoranthene	100	1.048428	200	1.053598	400	~~1.236261~~	600	1.077695				
Benzo(k)fluoranthene	100	1.002326	200	1.040167	400	~~1.122845~~	600	1.025769				
Benzo(b+k)fluoranthene(s)	200	1.07179	400	1.085373	800	~~1.279903~~	1200	1.083246				
Benzo(g,h,i)perylene	100	1.171739	200	1.213194	400	~~1.249126~~	600	1.206407				
Chrysene	100	1.039442	200	1.016506	400	~~1.177632~~	600	0.983888				
Dibenz(a,h)anthracene	100	1.110137	200	1.122575	400	~~1.227273~~	600	1.079675				
Fluoranthene	100	1.203197	200	1.211771	400	~~0.7562554~~	600	1.172611				
Fluorene	100	1.348499	200	1.339774	400	~~0.6662483~~	600	1.272294				
Indeno(1,2,3-cd)pyrene	100	1.095671	200	1.128245	400	~~1.095863~~	600	1.148353				
1-Methylnaphthalene	100	0.7690295	200	0.7635127	400	~~0.5641224~~	600	0.7411247				
2-Methylnaphthalene	100	0.7823918	200	0.7797779	400	~~0.5409846~~	600	0.7665129				
Naphthalene	100	1.004707	200	0.982835	400	~~1.031776~~	600	0.9532298				
Phenanthrene	100	1.069398	200	1.050309	400	~~1.062338~~	600	0.9869592				
Pyrene	100	1.405048	200	1.277676	400	~~1.615837~~	600	1.134926				
Carbazole	100	0.7145441	200	0.7306888	400	~~0.4921268~~	600	0.7203112				
Dibenzofuran	100	1.622159	200	1.641018	400	~~1.146223~~	600	1.587827				
2-Fluorobiphenyl (Surr)	100	1.471634	200	1.467201	400	~~1.885155~~	600	1.389068				
p-Terphenyl-d14 (Surr)	100	0.9901441	200	0.9535586	400	~~1.311325~~	600	0.9029958				

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	SV-GCMS14	Calibration:	A0H1005
Lab File ID:	N08072022.D		
Sequence:	0H07053	Inject Date:	08/07/20
Lab Sample ID:	0H07053-ICV1	Inject Time:	23:23

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Acenaphthene	50.0	49.6	-0.8	70 - 130
Acenaphthylene	50.0	52.1	4.2	70 - 130
Anthracene	50.0	52.8	5.7	70 - 130
Benz(a)anthracene	50.0	46.0	-8.0	70 - 130
Benzo(a)pyrene	50.0	56.6	13.2	70 - 130
Benzo(b)fluoranthene	50.0	49.2	-1.6	70 - 130
Benzo(k)fluoranthene	50.0	50.6	1.2	70 - 130
Benzo(g,h,i)perylene	50.0	51.2	2.4	70 - 130
Chrysene	50.0	48.9	-2.3	70 - 130
Dibenz(a,h)anthracene	50.0	49.2	-1.7	70 - 130
Fluoranthene	50.0	53.0	6.0	70 - 130
Fluorene	50.0	50.7	1.4	70 - 130
Indeno(1,2,3-cd)pyrene	50.0	46.6	-6.9	70 - 130
2-Methylnaphthalene	50.0	50.7	1.4	70 - 130
Naphthalene	50.0	48.3	-3.4	70 - 130
Phenanthrene	50.0	49.2	-1.6	70 - 130
Pyrene	50.0	51.2	2.3	70 - 130
2-Fluorobiphenyl (Surr)	50.0	50.2	0.5	70 - 130
p-Terphenyl-d14 (Surr)	50.0	50.3	0.6	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	SV-GCMS14	Calibration:	A0H1005
Lab File ID:	N10222003.D	Calibration Date:	08/10/20 14:04
Sequence:	0J22053	Injection Date:	10/22/20
Lab Sample ID:	0J22053-CCV1	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	
Acenaphthene	Ave	100	96.7		1.224777	1.184135	-3.3	20
Acenaphthylene	Ave	100	106		1.676085	1.784882	6.5	20
Anthracene	Ave	100	105		0.8864905	0.9325771	5.2	20
Benz(a)anthracene	Ave	100	95.4		0.9997107	0.9532689	-4.6	20
Benzo(a)pyrene	Ave	100	102		0.7351622	0.7464633	1.5	20
Benzo(b)fluoranthene	Ave	100	97.9		1.013983	0.9926438	-2.1	20
Benzo(k)fluoranthene	Ave	100	105		0.9566106	1.003004	4.8	20
Benzo(g,h,i)perylene	Ave	100	99.5		1.094263	1.088328	-0.5	20
Chrysene	Ave	100	99.5		1.032987	1.027407	-0.5	20
Dibenz(a,h)anthracene	Ave	100	94.8		1.058201	1.003381	-5.2	20
Fluoranthene	Ave	100	99.5		1.122704	1.116698	-0.5	20
Fluorene	Ave	100	101		1.246869	1.262232	1.2	20
Indeno(1,2,3-cd)pyrene	Ave	100	93.6		1.07625	1.006823	-6.5	20
2-Methylnaphthalene	Ave	100	99.6		0.7456587	0.7428067	-0.4	20
Naphthalene	Ave	100	94.7		1.031219	0.97672	-5.3	20
Phenanthrene	Ave	100	96.9		1.082295	1.048535	-3.1	20
Pyrene	Ave	100	101		1.338996	1.348332	0.7	20

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

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Instrument ID:	SV-GCMS14	Calibration:	A0H1005
Lab File ID:	N10232003.D	Calibration Date:	08/10/20 14:04
Sequence:	0J23034	Injection Date:	10/23/20
Lab Sample ID:	0J23034-CCV1	Injection Time:	10:59

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	100	99.8		1.224777	1.222162	-0.2	20
Acenaphthylene	Ave	100	104		1.676085	1.74615	4.2	20
Anthracene	Ave	100	111		0.8864905	0.9806986	10.6	20
Benz(a)anthracene	Ave	100	97.7		0.9997107	0.9767672	-2.3	20
Benzo(a)pyrene	Ave	100	103		0.7351622	0.7541135	2.6	20
Benzo(b)fluoranthene	Ave	100	100		1.013983	1.015089	0.1	20
Benzo(k)fluoranthene	Ave	100	100		0.9566106	0.9606889	0.4	20
Benzo(g,h,i)perylene	Ave	100	98.1		1.094263	1.073285	-1.9	20
Chrysene	Ave	100	99.8		1.032987	1.031384	-0.2	20
Dibenz(a,h)anthracene	Ave	100	95.2		1.058201	1.007133	-4.8	20
Fluoranthene	Ave	100	104		1.122704	1.169937	4.2	20
Fluorene	Ave	100	109		1.246869	1.353467	8.5	20
Indeno(1,2,3-cd)pyrene	Ave	100	92.7		1.07625	0.9981191	-7.3	20
2-Methylnaphthalene	Ave	100	101		0.7456587	0.7538399	1.1	20
Naphthalene	Ave	100	95.7		1.031219	0.9866363	-4.3	20
Phenanthrene	Ave	100	97.1		1.082295	1.051144	-2.9	20
Pyrene	Ave	100	92.2		1.338996	1.235261	-7.7	20

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

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0H07053	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0H07053-ICV1)				Lab File ID: N08072022.D		Analyzed: 08/07/20 23:23		
2-Fluorobiphenyl (Surr)	50.0	100	70 - 130	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	101	70 - 130	12.733	12.73078	0.0022	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J22053	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0J22053-CCV1)			Lab File ID: N10222003.D		Analyzed: 10/22/20 16:05			
2-Fluorobiphenyl (Surr)	100	103	80 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	100	106	80 - 120	12.732	12.73078	0.0012	+/-1.0	
Calibration Blank (0J22053-CCB1)			Lab File ID: N10222004.D		Analyzed: 10/22/20 16:37			
2-Fluorobiphenyl (Surr)			44 - 120	0	8.804667	-8.8047	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	12.733	12.73078	0.0022	+/-1.0	
Blank (0100764-BLK1)			Lab File ID: N10222005.D		Analyzed: 10/22/20 17:09			
2-Fluorobiphenyl (Surr)	45.5	91	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	108	54 - 127	12.733	12.73078	0.0022	+/-1.0	
LCS (0100764-BS1)			Lab File ID: N10222006.D		Analyzed: 10/22/20 17:41			
2-Fluorobiphenyl (Surr)	50.0	94	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	106	54 - 127	12.727	12.73078	-0.0038	+/-1.0	
USMPDI-045SG-201010 (A0J0371-10)			Lab File ID: N10222009.D		Analyzed: 10/22/20 19:18			
2-Fluorobiphenyl (Surr)	125	67	44 - 120	8.81	8.804667	0.0053	+/-1.0	
p-Terphenyl-d14 (Surr)	125	85	54 - 127	12.733	12.73078	0.0022	+/-1.0	
Matrix Spike (0100764-MS1)			Lab File ID: N10222010.D		Analyzed: 10/22/20 19:50			
2-Fluorobiphenyl (Surr)	124	74	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	124	95	54 - 127	12.727	12.73078	-0.0038	+/-1.0	
USMPDI-003SG-201011 (A0J0371-02)			Lab File ID: N10222011.D		Analyzed: 10/22/20 20:22			
2-Fluorobiphenyl (Surr)	113	66	44 - 120	8.81	8.804667	0.0053	+/-1.0	
p-Terphenyl-d14 (Surr)	113	84	54 - 127	12.732	12.73078	0.0012	+/-1.0	
USMPDI-021SG-201010 (A0J0371-06)			Lab File ID: N10222013.D		Analyzed: 10/22/20 21:26			
2-Fluorobiphenyl (Surr)	131	64	44 - 120	8.81	8.804667	0.0053	+/-1.0	
p-Terphenyl-d14 (Surr)	131	95	54 - 127	12.733	12.73078	0.0022	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J23034	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0J23034-CCV1)			Lab File ID: N10232003.D		Analyzed: 10/23/20 10:59			
2-Fluorobiphenyl (Surr)	100	100	80 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	100	103	80 - 120	12.732	12.73078	0.0012	+/-1.0	
Calibration Blank (0J23034-CCB1)			Lab File ID: N10232004.D		Analyzed: 10/23/20 11:31			
2-Fluorobiphenyl (Surr)			44 - 120	0	8.804667	-8.8047	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	12.733	12.73078	0.0022	+/-1.0	
USMPDI-012SG-201010 (A0J0371-05RE1)			Lab File ID: N10232006.D		Analyzed: 10/23/20 15:00			
2-Fluorobiphenyl (Surr)	123	70	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	123	92	54 - 127	12.733	12.73078	0.0022	+/-1.0	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J22053	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (0J22053-CCV1)			Lab File ID: N10222003.D			Analyzed: 10/22/20 16:05			
Naphthalene-d8 (ISTD)	262328	7.743	239628	7.737	109	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	160377	9.492	160491	9.492	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	305267	10.996	310167	10.996	98	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	260148	14.633	274150	14.633	95	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	221037	18.083	244609	18.083	90	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	163573	20.467	188292	20.467	87	50 - 200	0.0000	+/-0.50	
Calibration Blank (0J22053-CCB1)			Lab File ID: N10222004.D			Analyzed: 10/22/20 16:37			
Naphthalene-d8 (ISTD)	242049	7.743	262328	7.743	92	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	152210	9.492	160377	9.492	95	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	281216	10.996	305267	10.996	92	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	206900	14.633	260148	14.633	80	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	185109	18.083	221037	18.083	84	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	158429	20.467	163573	20.467	97	50 - 200	0.0000	+/-0.50	
Blank (0100764-BLK1)			Lab File ID: N10222005.D			Analyzed: 10/22/20 17:09			
Naphthalene-d8 (ISTD)	249163	7.743	262328	7.743	95	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	159162	9.492	160377	9.492	99	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	313430	10.996	305267	10.996	103	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	282228	14.633	260148	14.633	108	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	268366	18.083	221037	18.083	121	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	230260	20.467	163573	20.467	141	50 - 200	0.0000	+/-0.50	
LCS (0100764-BS1)			Lab File ID: N10222006.D			Analyzed: 10/22/20 17:41			
Naphthalene-d8 (ISTD)	250949	7.737	262328	7.743	96	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	165335	9.492	160377	9.492	103	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	326376	10.996	305267	10.996	107	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	292477	14.633	260148	14.633	112	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	266297	18.083	221037	18.083	120	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	216323	20.461	163573	20.467	132	50 - 200	-0.0060	+/-0.50	
Duplicate (0100764-DUP1)			Lab File ID: N10222008.D			Analyzed: 10/22/20 18:46			
Naphthalene-d8 (ISTD)	255913	7.737	262328	7.743	98	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	166139	9.492	160377	9.492	104	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	327117	10.996	305267	10.996	107	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	315304	14.633	260148	14.633	121	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	310832	18.083	221037	18.083	141	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	253664	20.467	163573	20.467	155	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J22053	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
USMPDI-045SG-201010 (A0J0371-10)			Lab File ID: N10222009.D			Analyzed: 10/22/20 19:18			
Naphthalene-d8 (ISTD)	252371	7.743	262328	7.743	96	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	164397	9.492	160377	9.492	103	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	325875	10.996	305267	10.996	107	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	312942	14.633	260148	14.633	120	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	308858	18.083	221037	18.083	140	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	256337	20.467	163573	20.467	157	50 - 200	0.0000	+/-0.50	
Matrix Spike (0100764-MS1)			Lab File ID: N10222010.D			Analyzed: 10/22/20 19:50			
Naphthalene-d8 (ISTD)	251515	7.738	262328	7.743	96	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10 (ISTD)	163680	9.492	160377	9.492	102	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	319187	10.996	305267	10.996	105	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	310634	14.633	260148	14.633	119	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	307981	18.083	221037	18.083	139	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	258683	20.461	163573	20.467	158	50 - 200	-0.0060	+/-0.50	
USMPDI-003SG-201011 (A0J0371-02)			Lab File ID: N10222011.D			Analyzed: 10/22/20 20:22			
Naphthalene-d8 (ISTD)	265037	7.743	262328	7.743	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	168216	9.492	160377	9.492	105	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	329765	10.996	305267	10.996	108	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	307959	14.633	260148	14.633	118	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	302945	18.083	221037	18.083	137	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	255992	20.467	163573	20.467	157	50 - 200	0.0000	+/-0.50	
USMPDI-021SG-201010 (A0J0371-06)			Lab File ID: N10222013.D			Analyzed: 10/22/20 21:26			
Naphthalene-d8 (ISTD)	260107	7.743	262328	7.743	99	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	169906	9.492	160377	9.492	106	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	335965	10.996	305267	10.996	110	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	300553	14.633	260148	14.633	116	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	291648	18.083	221037	18.083	132	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	250855	20.467	163573	20.467	153	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory:	Apex Laboratories	SDG:	A0J0371
Client:	Anchor QEA, LLC	Project:	US Moorings -- C2, C3, C4
Sequence:	0J23034	Instrument:	SV-GCMS14
Matrix:	Sediment	Calibration:	A0H1005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (0J23034-CCV1)			Lab File ID: N10232003.D			Analyzed: 10/23/20 10:59			
Naphthalene-d8 (ISTD)	253522	7.737	239628	7.737	106	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	162584	9.492	160491	9.492	101	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	317283	10.995	310167	10.996	102	50 - 200	-0.0010	+/-0.50	
Chrysene-d12 (ISTD)	307582	14.638	274150	14.633	112	50 - 200	0.0050	+/-0.50	
Perylene-d12 (ISTD)	282846	18.083	244609	18.083	116	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	220112	20.467	188292	20.467	117	50 - 200	0.0000	+/-0.50	
Calibration Blank (0J23034-CCB1)			Lab File ID: N10232004.D			Analyzed: 10/23/20 11:31			
Naphthalene-d8 (ISTD)	251766	7.743	253522	7.737	99	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	158870	9.492	162584	9.492	98	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	302890	10.996	317283	10.995	95	50 - 200	0.0010	+/-0.50	
Chrysene-d12 (ISTD)	242940	14.633	307582	14.638	79	50 - 200	-0.0050	+/-0.50	
Perylene-d12 (ISTD)	225473	18.083	282846	18.083	80	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	193610	20.467	220112	20.467	88	50 - 200	0.0000	+/-0.50	
USMPDI-012SG-201010 (A0J0371-05RE1)			Lab File ID: N10232006.D			Analyzed: 10/23/20 15:00			
Naphthalene-d8 (ISTD)	257576	7.738	253522	7.737	102	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10 (ISTD)	163352	9.492	162584	9.492	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	322942	10.996	317283	10.995	102	50 - 200	0.0010	+/-0.50	
Chrysene-d12 (ISTD)	309036	14.633	307582	14.638	100	50 - 200	-0.0050	+/-0.50	
Perylene-d12 (ISTD)	307302	18.083	282846	18.083	109	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	258106	20.467	220112	20.467	117	50 - 200	0.0000	+/-0.50	

HOLDING TIME SUMMARY

EPA 8270E

Laboratory: Apex Laboratories SDG: A0J0371

Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4

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
USMPDI-003SG-201011	10/11/20 10:53	10/12/20 07:33	10/22/20 10:40	10.99	14.00	10/22/20 20:22	0.40	40.00	
USMPDI-012SG-201010	10/10/20 14:25	10/12/20 07:33	10/22/20 10:40	11.84	14.00	10/23/20 15:00	1.18	40.00	
USMPDI-021SG-201010	10/10/20 12:20	10/12/20 07:33	10/22/20 10:40	11.93	14.00	10/22/20 21:26	0.45	40.00	
USMPDI-045SG-201010	10/10/20 09:18	10/12/20 07:33	10/22/20 10:40	12.06	14.00	10/22/20 19:18	0.36	40.00	

Amended Raw Data

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

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)
Analysis Sequence Data

Sequence 0J22053 (A0J0371-10)

ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:	0J22053	Instrument:	SV-GCMS14
Date:	**10/22/20 10:50**	Calibration:	**A0H1005**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J22053-TUN1	Sediment	QC	QC			A20J202	A20J205
2	0J22053-IBL1	Sediment	QC	QC			A20J202	
3	0J22053-CCV1	Sediment	QC	QC			A20J202	A20J299
4	0J22053-CCB1	Sediment	QC	QC			A20J202	
5	0100764-BLK1	Sediment	QC	QC		0100764	A20J202	
6	0100764-BS1	Sediment	QC	QC		0100764	A20J202	
7	A0J0344-07	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
8	0100764-DUP1	Sediment	QC	QC		0100764	A20J202	
9	A0J0371-10	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
10	0100764-MS1	Sediment	QC	QC		0100764	A20J202	
11	A0J0371-02	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
12	A0J0371-05	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
13	A0J0371-06	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
14	0J22053-IBL2	Sediment	QC	QC			A20J202	

Comments: Reanalyzed for A0J0344-07 and A0J0371-10

Data Entered By/Date: AMS 2/8/21

Data Reviewed By/Date: JK 2/8/21

2/8/2021 10:26:51AM

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\
Data File : N10222009.D
Acq On : 22 Oct 2020 07:18 pm
Operator : JK/ AMS/ DTH
Sample : A0J0371-10@100
Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 23 10:51:00 2020
Quant Method : U:\methods\SV14_080720.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Aug 10 09:22:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	252371	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	164397	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	325875	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	312942	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	308858	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	256337	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	516	0.73	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.810	172	1581	0.67	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	380	2.85	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	2572	0.85	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	13340	5.13	ng/ml	94
5) 2-Methylnaphthalene	8.443	142	3215	1.71	ng/ml	98
6) 1-Methylnaphthalene	8.542	142	1575	0.84	ng/ml	94
7) 1,1'-Biphenyl	8.909	154	1283	0.54	ng/ml	86
8) 2,6-Dimethylnaphthalene	9.072	156	1725	0.98	ng/ml	96
11) Acenaphthylene	9.346	152	4248	1.54	ng/ml	92
12) Acenaphthene	9.521	153	3173	1.58	ng/ml	95
13) Dibenzofuran	9.696	168	1019	0.40	ng/ml#	81
14) 1,6,7-Trimethylnaphtha...	9.906	170	802	0.44	ng/ml	91
15) Fluorene	10.046	166	3190	1.56	ng/ml	96
18) Pentachlorophenol (PCP)	10.827	266	214	10.26	ng/ml	88
19) Dibenzothiopene	10.891	184	3883	1.23	ng/ml	95
20) Phenanthrene	11.019	178	32438	9.20	ng/ml	99
21) Anthracene	11.071	178	9187	3.18	ng/ml	97
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Misc : 100x, 8270E LL PAH ONLY
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 23 10:51:00 2020
Quant Method : U:\methods\SV14_080720.M
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QLast Update : Mon Aug 10 09:22:10 2020
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34) Benzo(e)pyrene	17.821	252	39682	12.74	ng/ml	95
35) Benzo(a)pyrene	17.943	252	51734	22.78	ng/ml	96
36) Perylene	18.141	252	17291	5.13	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.473	276	36209	13.12	ng/ml	78
39) Dibenz(a,h)anthracene	20.525	278	4860	1.79	ng/ml	93
40) Benzo(g,h,i)perylene	21.003	276	44503	15.87	ng/ml	78

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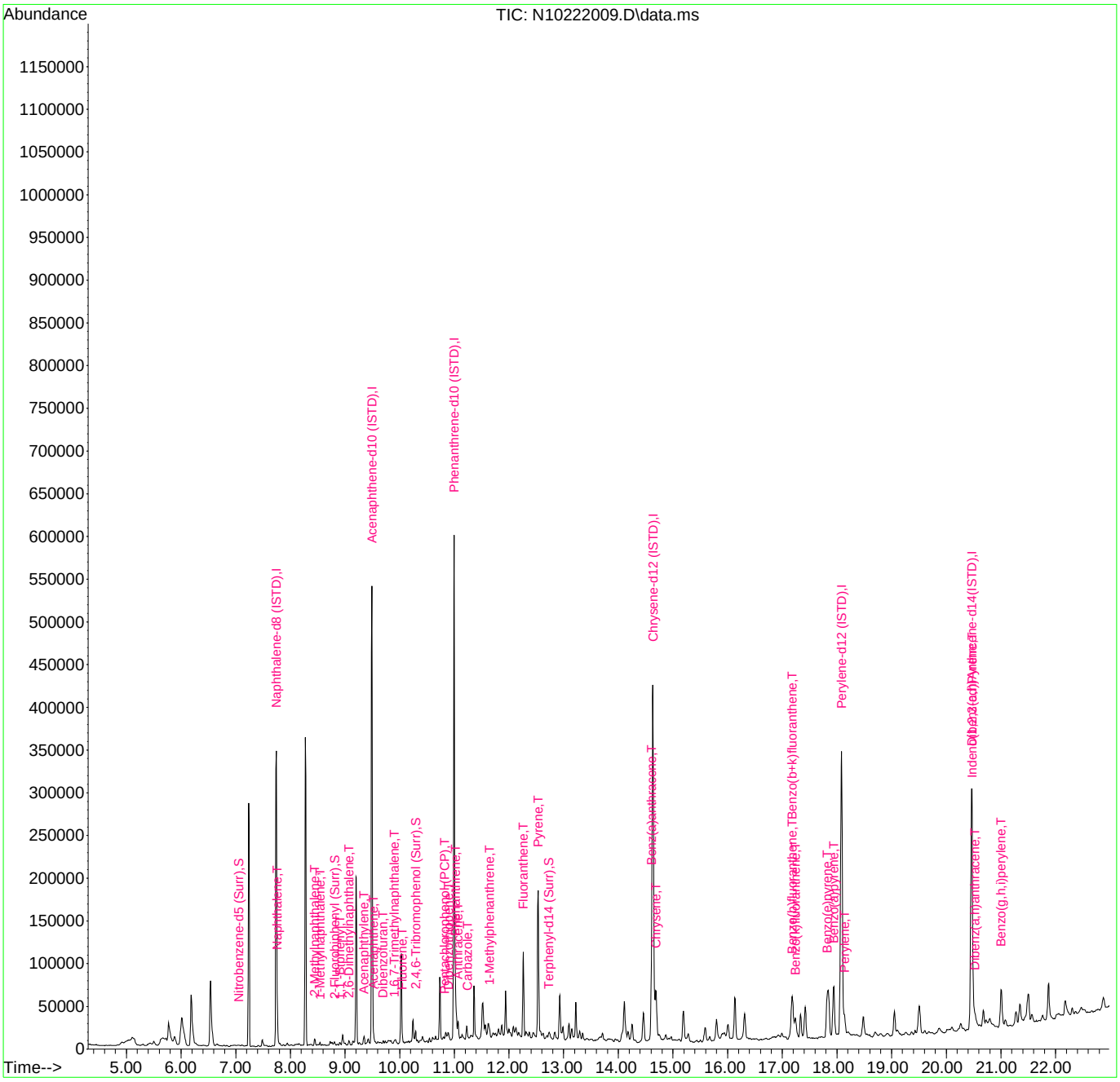

Quantitation Report (Qedit)

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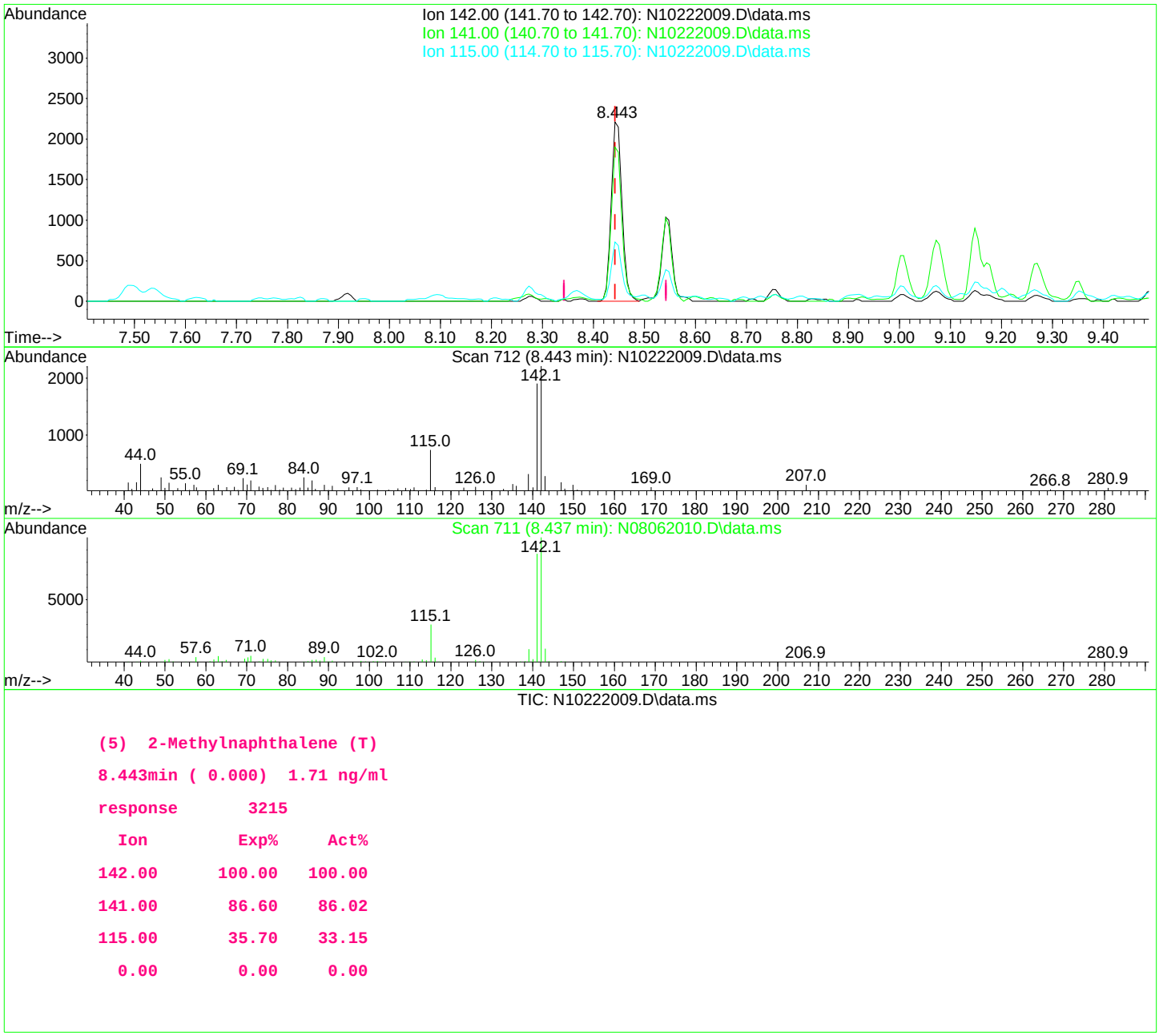

TIC: N10222009.D\data.ms

(5) 2-Methylnaphthalene (T)

8.443min (0.000) 1.71 ng/ml

response 3215

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	86.02
115.00	35.70	33.15
0.00	0.00	0.00

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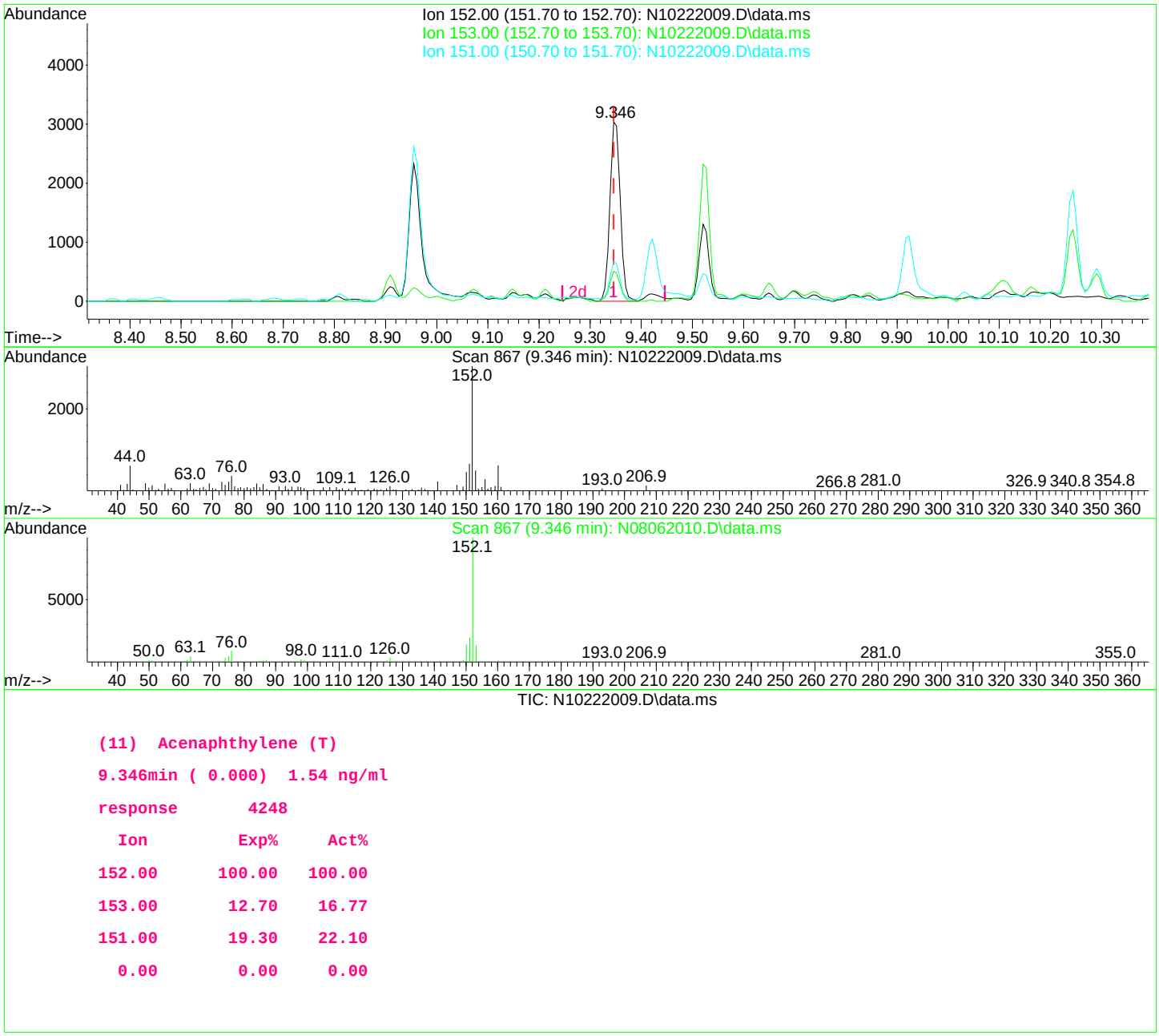

TIC: N10222009.D\data.ms

(11) Acenaphthylene (T)

9.346min (0.000) 1.54 ng/ml

response 4248

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	16.77
151.00	19.30	22.10
0.00	0.00	0.00

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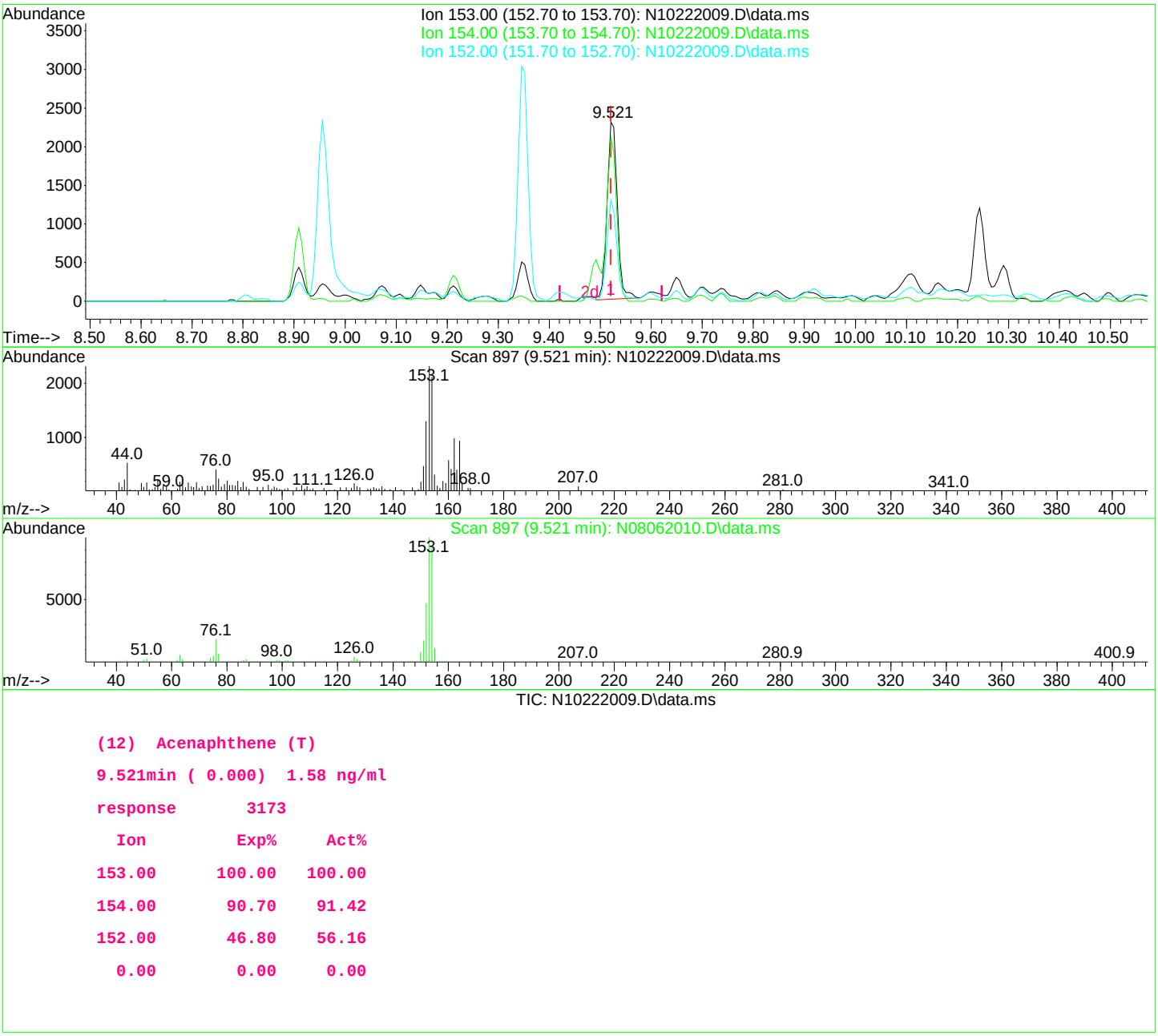

(12) Acenaphthene (T)

9.521min (0.000) 1.58 ng/ml

response 3173

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	91.42
152.00	46.80	56.16
0.00	0.00	0.00

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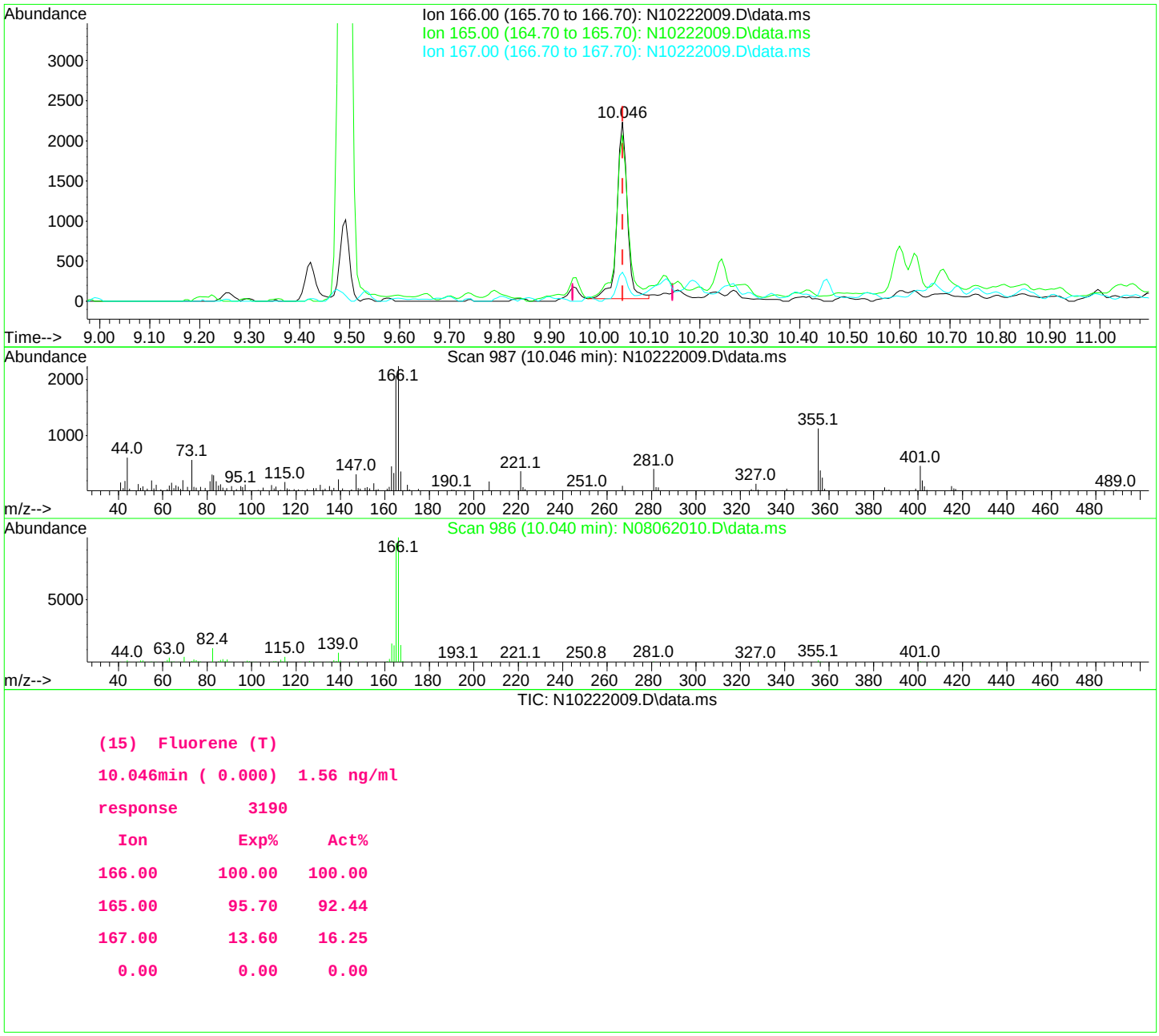

TIC: N10222009.D\data.ms

(15) Fluorene (T)

10.046min (0.000) 1.56 ng/ml

response 3190

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	92.44
167.00	13.60	16.25
0.00	0.00	0.00

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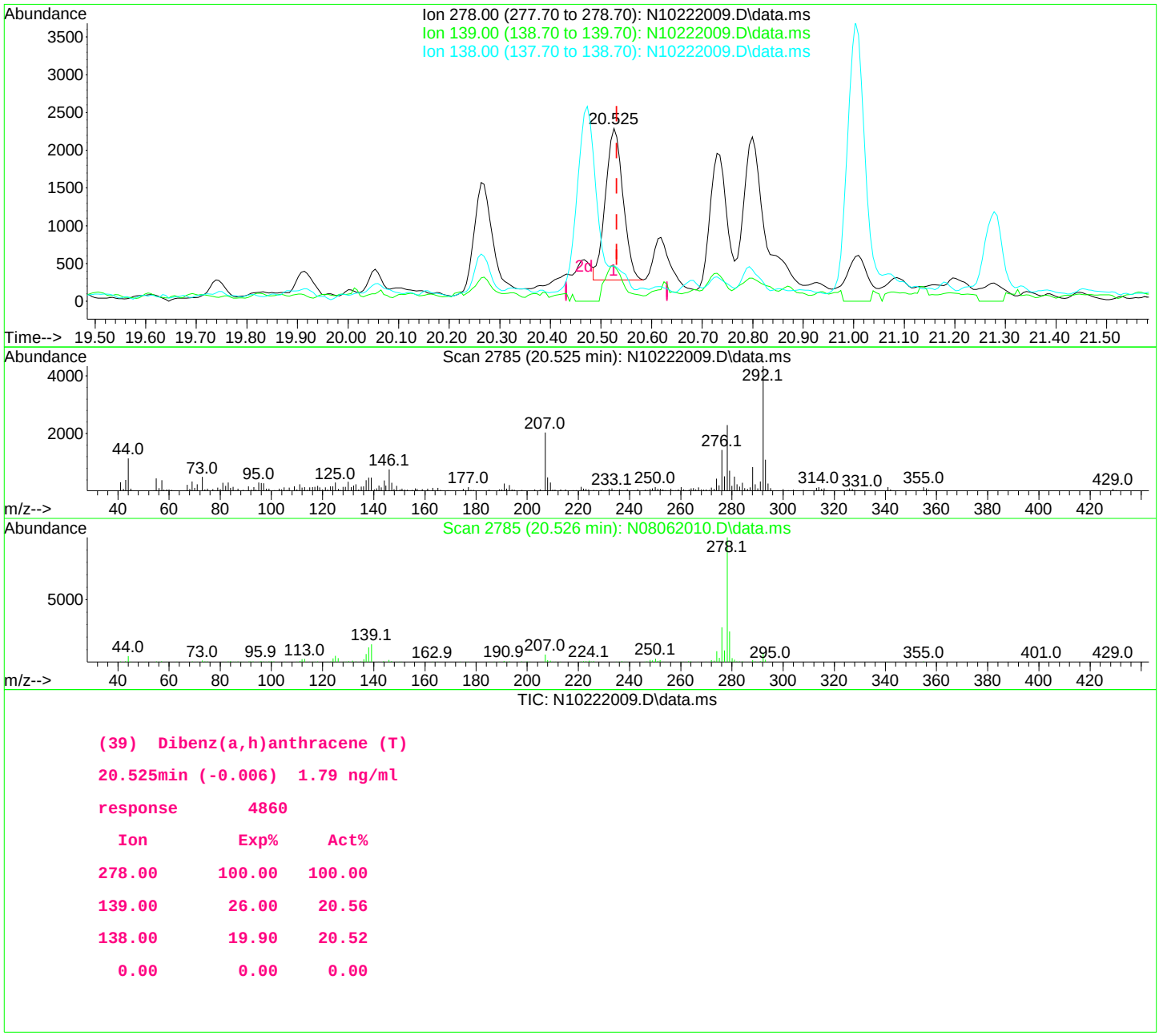

TIC: N10222009.D\data.ms

(39) Dibenz(a,h)anthracene (T)

20.525min (-0.006) 1.79 ng/ml

response 4860

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	20.56
138.00	19.90	20.52
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

AMS 2/8/21

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	252371	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	164397	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	325875	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	312942	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	308858	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	256337	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	516	0.73	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.810	172	1581	0.67	ng/ml	0.00
17) 2,4,6-Tribromophenol (...	10.296	330	380	2.85	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	2572	0.85	ng/ml	0.00
Target Compounds						Qvalue
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.761	128	13340	5.13	ng/ml	94
5) 2-Methylnaphthalene	8.443	142	3215	1.71	ng/ml	98
6) 1-Methylnaphthalene	8.542	142	1575	0.84	ng/ml	94
7) 1,1'-Biphenyl	8.909	154	1283	0.54	ng/ml	86
8) 2,6-Dimethylnaphthalene	9.072	156	1725	0.98	ng/ml	96
11) Acenaphthylene	9.346	152	4248	1.54	ng/ml	92
12) Acenaphthene	9.521	153	3173	1.58	ng/ml	95
13) Dibenzofuran	9.696	168	1019	0.40	ng/ml#	81
14) 1,6,7-Trimethylnaphtha...	9.906	170	802	0.44	ng/ml	91
15) Fluorene	10.046	166	3190	1.56	ng/ml	96
18) Pentachlorophenol (PCP)	10.827	266	214	10.26	ng/ml	88
19) Dibenzothiopene	10.891	184	3883	1.23	ng/ml	95
20) Phenanthrene	11.019	178	32438	9.20	ng/ml	99
21) Anthracene	11.071	178	9187	3.18	ng/ml	97
22) Carbazole	11.240	167	1819	0.85	ng/ml	96
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