

Cover Page

Order ID : P4921

Project ID : Meeker Ave Plumes Superfund Site RI FS

Client : AECOM

Lab Sample Number

P4921-01

Client Sample Number

WC-11-A-202411

I certify that the 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 hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 11/27/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4921

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 11/27/2024

LAB CHRONICLE

OrderID:	P4921	OrderDate:	11/19/2024 12:44:00 PM
Client:	AECOM	Project:	Meeker Ave Plumes Superfund Site RI FS
Contact:	Amit Haryani	Location:	L61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4921-01	WC-11-A-202411	TCLP			11/19/24			11/19/24
			TCLP Pesticide	8081B		11/20/24	11/21/24	
			PCB	8082A		11/20/24	11/20/24	



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4921

Order ID: P4921

Client: AECOM

Project ID: Meeker Ave Plumes Superfund Site RI

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000



QC SUMMARY

Surrogate Summary

SDG No.: **P4921**

Client: **AECOM**

Analytical Method: **8081B**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PL092652.D	PIBLK-PL092652.D	Decachlorobiphenyl	1	20	22.7	114		43	140
		Tetrachloro-m-xylene	1	20	21.6	108		77	126
		Decachlorobiphenyl	2	20	21.7	109		43	140
		Tetrachloro-m-xylene	2	20	20.4	102		77	126
I.BLK-PL093191.D	PIBLK-PL093191.D	Decachlorobiphenyl	1	20	19.6	98		43	140
		Tetrachloro-m-xylene	1	20	21.9	110		77	126
		Decachlorobiphenyl	2	20	21.3	106		43	140
		Tetrachloro-m-xylene	2	20	21.0	105		77	126
PB165164BL	PB165164BL	Decachlorobiphenyl	1	20	19.2	96		43	140
		Tetrachloro-m-xylene	1	20	20.6	103		77	126
		Decachlorobiphenyl	2	20	21.9	110		43	140
		Tetrachloro-m-xylene	2	20	19.5	98		77	126
PB165164BS	PB165164BS	Decachlorobiphenyl	1	20	19.9	99		43	140
		Tetrachloro-m-xylene	1	20	21.0	105		77	126
		Decachlorobiphenyl	2	20	21.7	109		43	140
		Tetrachloro-m-xylene	2	20	19.1	96		77	126
PB165123TB	PB165123TB	Decachlorobiphenyl	1	20	20.4	102		43	140
		Tetrachloro-m-xylene	1	20	21.1	106		77	126
		Decachlorobiphenyl	2	20	22.3	111		43	140
		Tetrachloro-m-xylene	2	20	19.8	99		77	126
P4892-03MS	WB-310-BOTMS	Decachlorobiphenyl	1	20	18.3	92		43	140
		Tetrachloro-m-xylene	1	20	20.3	102		77	126
		Decachlorobiphenyl	2	20	20.6	103		43	140
		Tetrachloro-m-xylene	2	20	18.4	92		77	126
P4892-03MSD	WB-310-BOTMSD	Decachlorobiphenyl	1	20	18.4	92		43	140
		Tetrachloro-m-xylene	1	20	19.8	99		77	126
		Decachlorobiphenyl	2	20	20.4	102		43	140
		Tetrachloro-m-xylene	2	20	18.1	90		77	126
P4921-01	WC-11-A-202411	Decachlorobiphenyl	1	20	17.4	87		43	140
		Tetrachloro-m-xylene	1	20	20.5	102		77	126
		Decachlorobiphenyl	2	20	19.4	97		43	140
		Tetrachloro-m-xylene	2	20	20.3	101		77	126
I.BLK-PL093210.D	PIBLK-PL093210.D	Decachlorobiphenyl	1	20	20.5	103		43	140
		Tetrachloro-m-xylene	1	20	21.9	109		77	126
		Decachlorobiphenyl	2	20	22.8	114		43	140
		Tetrachloro-m-xylene	2	20	21.0	105		77	126

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4921

Client: AECOM

Analytical Method: 8081B

DataFile : PL093200.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec Qual	RPD Qual	Low	Limits High	RPD
Client Sample ID: WB-310-BOTMS										
P4892-03MS	gamma-BHC (Lindane)	5	0	5.40	ug/L	108		60	152	
	Heptachlor	5	0	5.50	ug/L	110		56	147	
	Heptachlor epoxide	5	0	5.60	ug/L	112		77	143	
	Endrin	5	0	5.70	ug/L	114		76	144	
	Methoxychlor	5	0	5.40	ug/L	108		70	142	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4921

Client: AECOM

Analytical Method: 8081B

DataFile : PL093201.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	WB-310-BOTMSD											
P4892-03MSD	gamma-BHC (Lindane)	5	0	5.30	ug/L	106		2		60	152	20
	Heptachlor	5	0	5.40	ug/L	108		2		56	147	20
	Heptachlor epoxide	5	0	5.50	ug/L	110		2		77	143	20
	Endrin	5	0	5.70	ug/L	114		0		76	144	20
	Methoxychlor	5	0	5.30	ug/L	106		2		70	142	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4921

Client: AECOM

Analytical Method: **8081B** **Datafile :** PL093196.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB165164BS	gamma-BHC (Lindane)	0.5	0.50	ug/L	100				82	129	
	Heptachlor	0.5	0.52	ug/L	104				79	127	
	Heptachlor epoxide	0.5	0.53	ug/L	106				81	124	
	Endrin	0.5	0.49	ug/L	99				81	128	
	Methoxychlor	0.5	0.50	ug/L	100				78	108	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165164BL

Lab Name: CHEMTECH

Contract: AECO02

Lab Code: CHEM Case No.: P4921

SAS No.: P4921 SDG NO.: P4921

Lab Sample ID: PB165164BL

Lab File ID: PL093195.D

Matrix: (soil/water) water

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 11/20/2024

Date Analyzed (1): 11/21/2024

Date Analyzed (2): 11/21/2024

Time Analyzed (1): 10:35

Time Analyzed (2): 10:35

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column (1): ZB-MR2 ID: 0.32 (mm)

GC Column (2): ZB-MR1 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB165164BS	PB165164BS	PL093196.D	11/21/2024	11/21/2024
PB165123TB	PB165123TB	PL093198.D	11/21/2024	11/21/2024
WB-310-BOTMS	P4892-03MS	PL093200.D	11/21/2024	11/21/2024
WB-310-BOTMSD	P4892-03MSD	PL093201.D	11/21/2024	11/21/2024
WC-11-A-202411	P4921-01	PL093202.D	11/21/2024	11/21/2024

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	AECOM	Date Collected:	11/19/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/19/24
Client Sample ID:	WC-11-A-202411	SDG No.:	P4921
Lab Sample ID:	P4921-01	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093202.D	1	11/20/24 12:00	11/21/24 12:08	PB165164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.049	U	0.049	0.50	ug/L
76-44-8	Heptachlor	0.054	U	0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.090	U	0.090	0.50	ug/L
72-20-8	Endrin	0.043	U	0.043	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.4		43 - 140	97%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.5		77 - 126	102%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
 Data File : PL093202.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Nov 2024 12:08
 Operator : AR\AJ
 Sample : P4921-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 WC-11-A-202411

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 21 23:37:17 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 18:58:23 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.536	2.772	50138356	55159163	20.463	20.270m
28) SA Decachlor...	9.056	7.914	33551265	52824317	17.433	19.355

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093202.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 12:08
Operator : AR\AJ
Sample : P4921-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

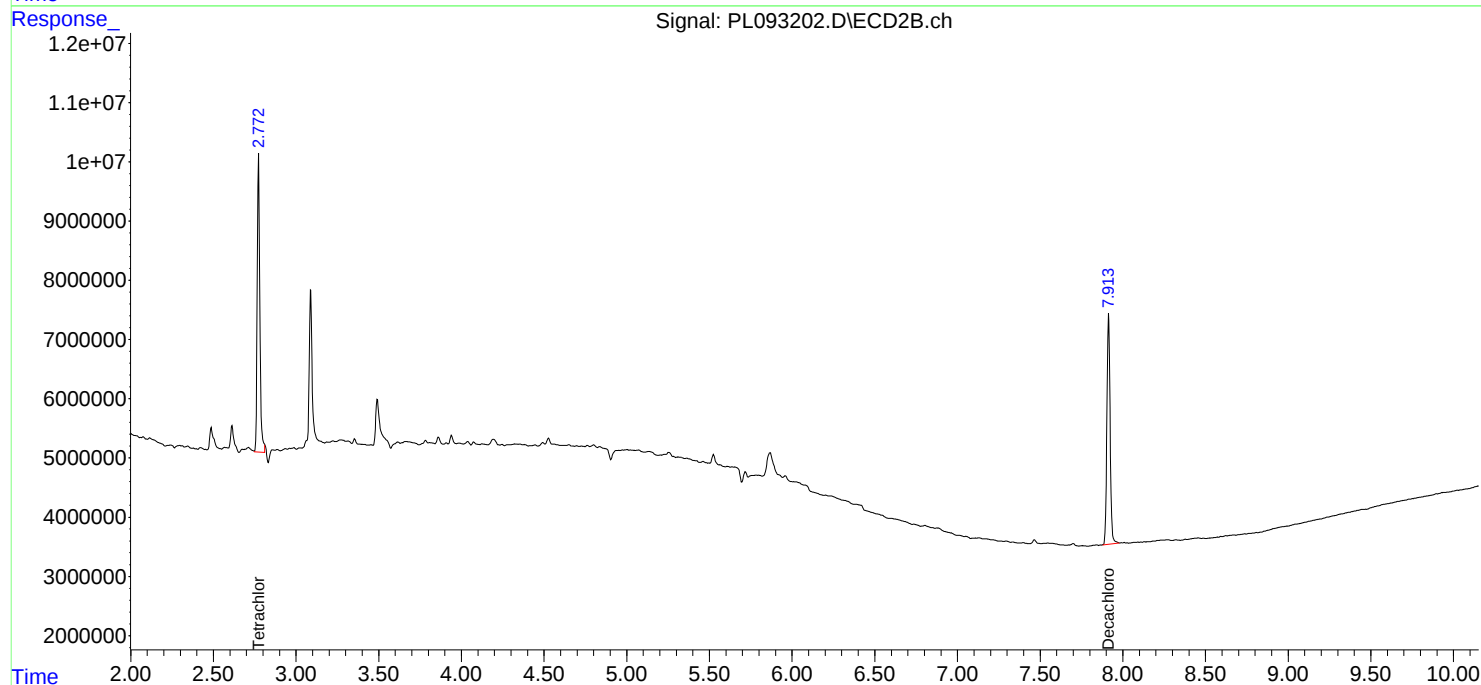
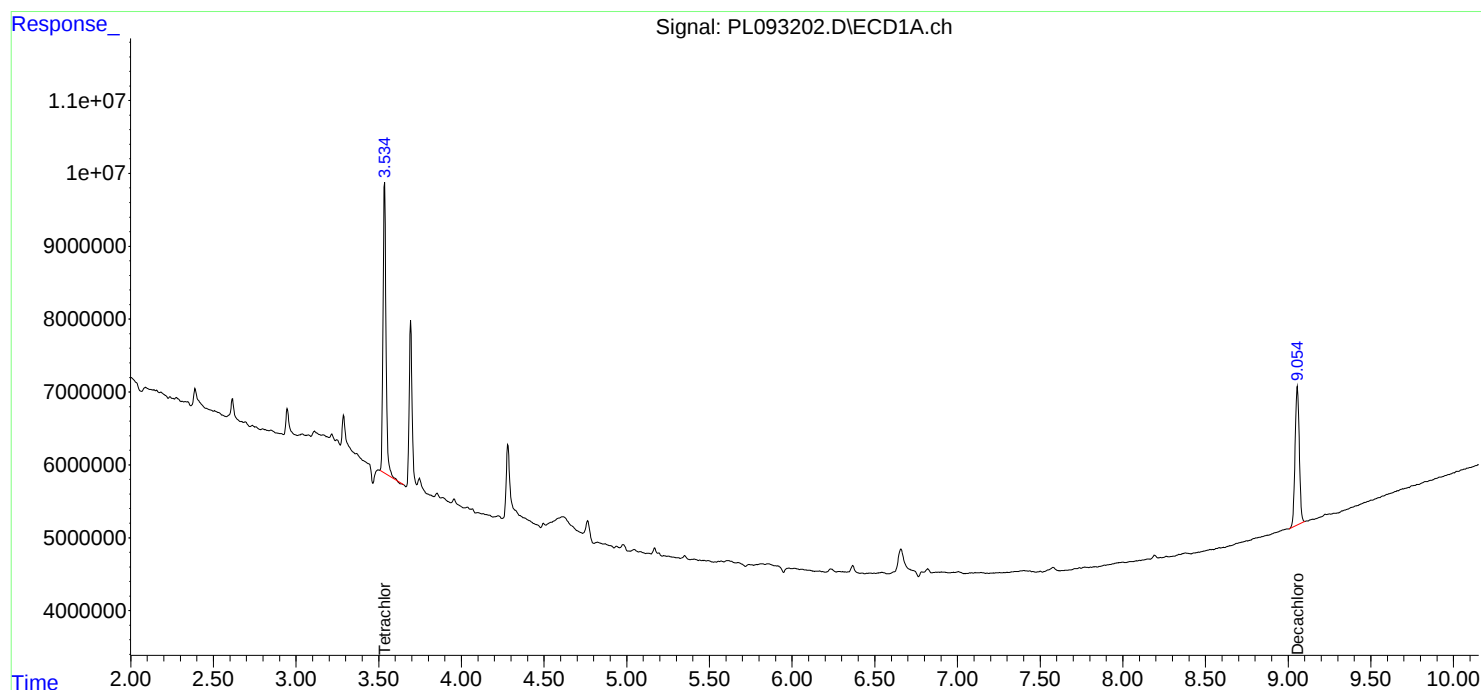
Instrument :
ECD_L
ClientSampleId :
WC-11-A-202411

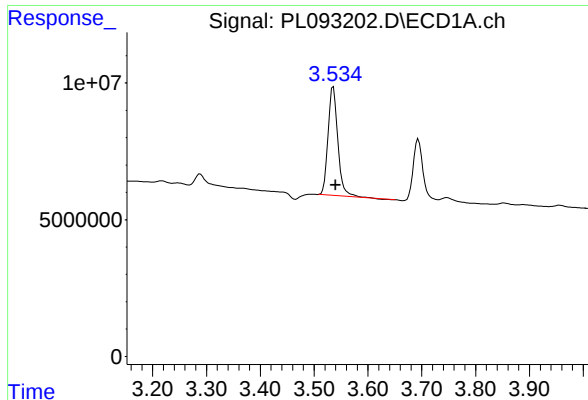
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:37:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





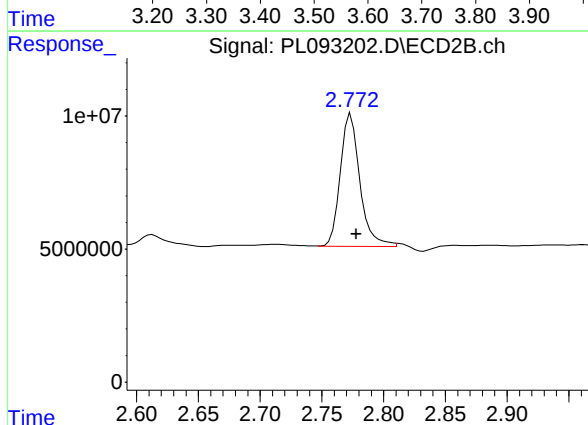
#1 Tetrachloro-m-xylene

R.T.: 3.536 min
Delta R.T.: -0.004 min
Response: 50138356
Conc: 20.46 ng/ml

Instrument :
ECD_L
ClientSampleId :
WC-11-A-202411

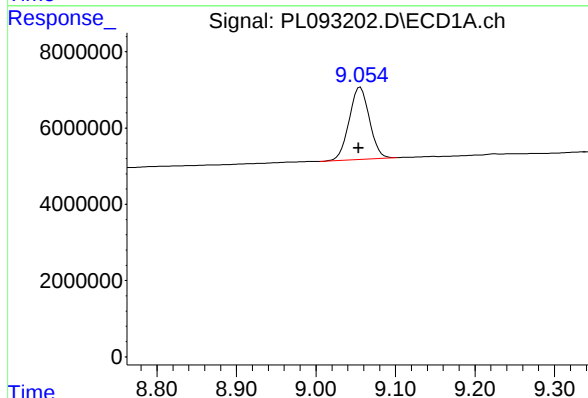
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024



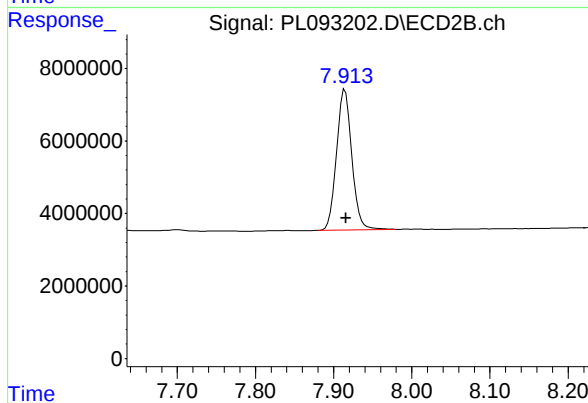
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: -0.006 min
Response: 55159163
Conc: 20.27 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.056 min
Delta R.T.: 0.002 min
Response: 33551265
Conc: 17.43 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.914 min
Delta R.T.: -0.001 min
Response: 52824317
Conc: 19.35 ng/ml

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/20/24
Client Sample ID:	PB165123TB	SDG No.:	P4921
Lab Sample ID:	PB165123TB	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093198.D	1	11/20/24 12:00	11/21/24 11:15	PB165164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.049	U	0.049	0.50	ug/L
76-44-8	Heptachlor	0.054	U	0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.090	U	0.090	0.50	ug/L
72-20-8	Endrin	0.043	U	0.043	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.3		43 - 140	111%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.1		77 - 126	106%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
 Data File : PL093198.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Nov 2024 11:15
 Operator : AR\AJ
 Sample : PB165123TB
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PB165123TB

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 21 23:33:08 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 18:58:23 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.536	2.774	51804544	53975376	21.143	19.835
28) SA Decachlor...	9.057	7.915	39216734	60828489	20.377	22.288

Target Compounds

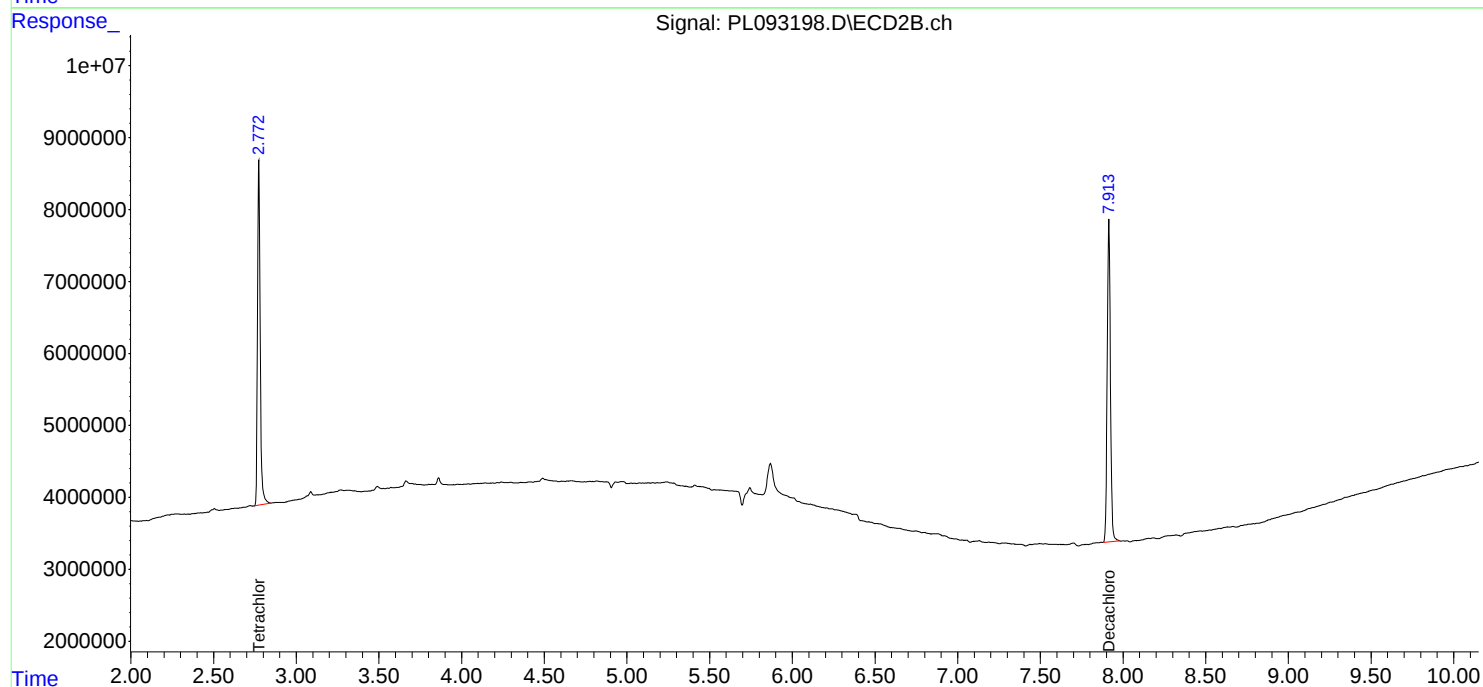
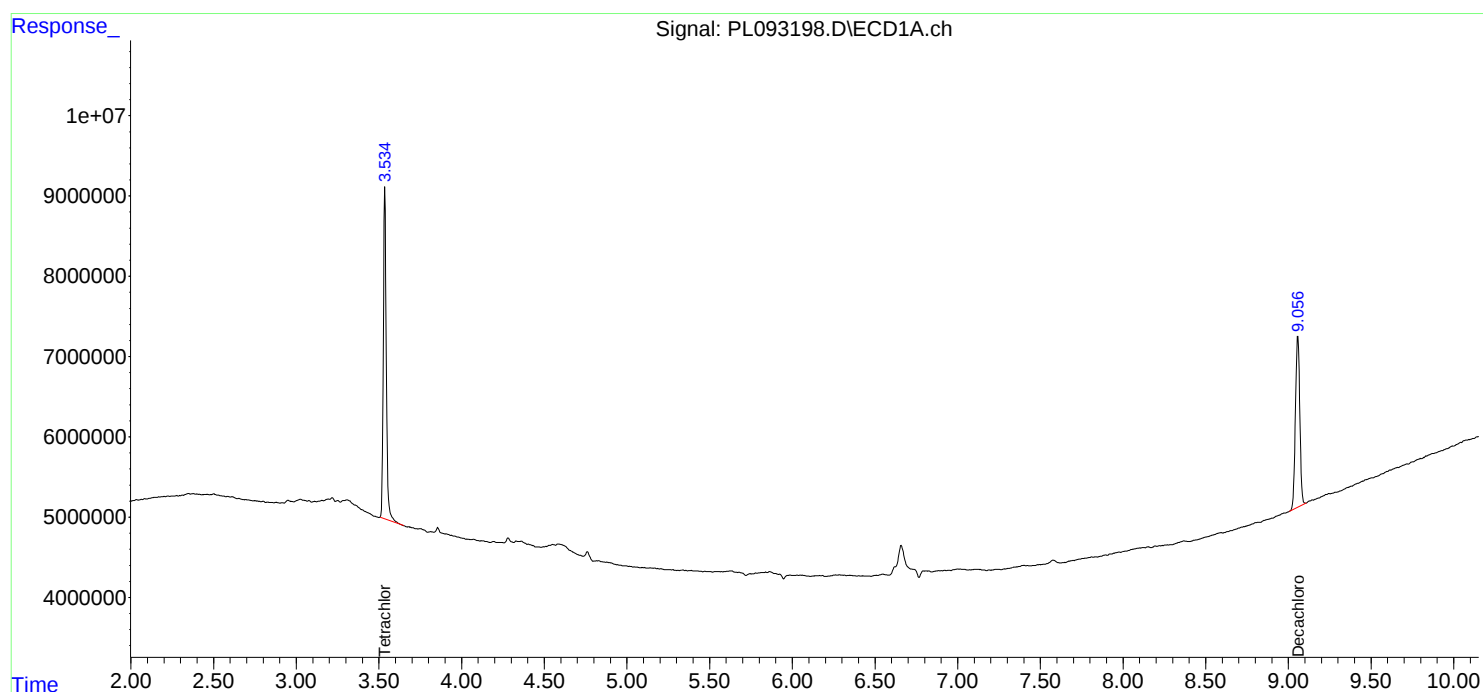
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

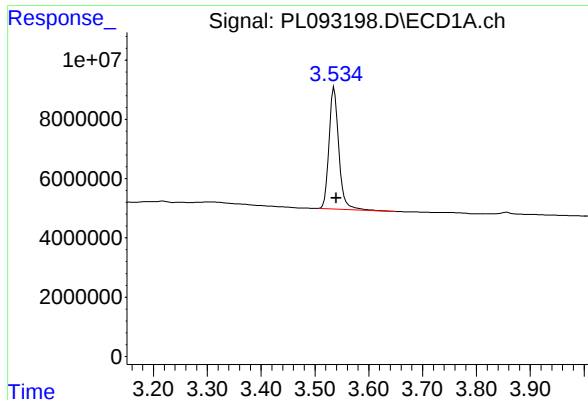
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093198.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 11:15
Operator : AR\AJ
Sample : PB165123TB
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB165123TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:33:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

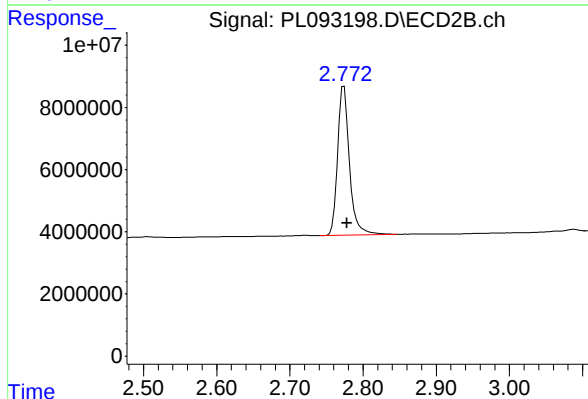




#1 Tetrachloro-m-xylene

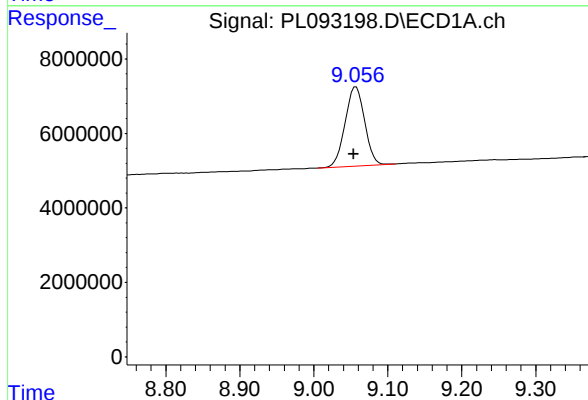
R.T.: 3.536 min
Delta R.T.: -0.004 min
Response: 51804544
Conc: 21.14 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB165123TB



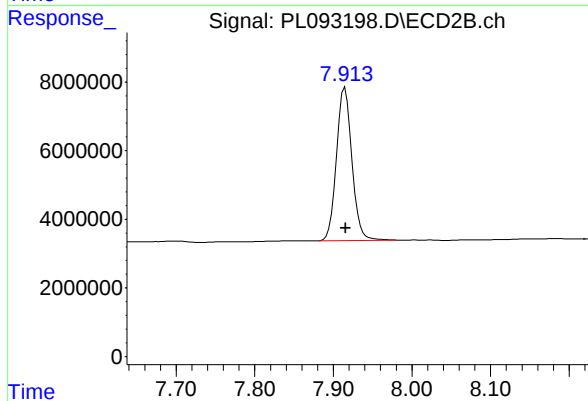
#1 Tetrachloro-m-xylene

R.T.: 2.774 min
Delta R.T.: -0.004 min
Response: 53975376
Conc: 19.84 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.057 min
Delta R.T.: 0.003 min
Response: 39216734
Conc: 20.38 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: -0.001 min
Response: 60828489
Conc: 22.29 ng/ml



CALIBRATION SUMMARY

GC Column: ZB-MR2 ID: 0.32 (mm)

[illegible]

GC Column: ZB-MR1 ID: 0.32 (mm)

[illegible]



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Fax : 908 789 8922

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Instrument ID: ECD_L

Calibration Date(s): 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID:		CF 100 =	<u>PL092655.D</u>	CF 075 =	<u>PL092656.D</u>		
CF 050 =		<u>PL092657.D</u>	CF 025 =	<u>PL092658.D</u>	CF 005 =	<u>PL092659.D</u>	
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	1738840000	1756630000	1819720000	1998760000	2308800000	1924550000	12
Endrin	2111540000	2103000000	2121260000	2324460000	2723040000	2276660000	12
gamma-BHC (Lindane)	3198960000	3133030000	3104430000	3278360000	3583040000	3259560000	6
Heptachlor	2817300000	2795570000	2829220000	3064000000	3509480000	3003110000	10
Heptachlor epoxide	2536240000	2521530000	2566410000	2821600000	3361270000	2761410000	13
Methoxychlor	1040530000	1050870000	1078280000	1189160000	1341160000	1140000000	11
Tetrachloro-m-xylene	2319350000	2304070000	2328420000	2512350000	2786990000	2450240000	8



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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Instrument ID: ECD_L

Calibration Date(s): 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID:		CF 100 =	<u>PL092655.D</u>	CF 075 =	<u>PL092656.D</u>		
CF 050 =		<u>PL092657.D</u>	CF 025 =	<u>PL092658.D</u>	CF 005 =	<u>PL092659.D</u>	
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	2606810000	2575500000	2605540000	2793460000	3064890000	2729240000	8
Endrin	2969490000	2878380000	2828080000	2876210000	2912860000	2893010000	2
gamma-BHC (Lindane)	4083950000	3934430000	3833920000	3828430000	3616530000	3859450000	4
Heptachlor	3876200000	3766580000	3709120000	3779090000	3738650000	3773930000	2
Heptachlor epoxide	3405420000	3318630000	3272090000	3352830000	3358060000	3341410000	1
Methoxychlor	1400820000	1385450000	1393920000	1470360000	1489590000	1428030000	3
Tetrachloro-m-xylene	2724750000	2661560000	2643180000	2728430000	2847900000	2721160000	3



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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Instrument ID: ECD_L Date(s) Analyzed: 10/28/2024 10/28/2024

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Chlordane	500	1	4.70	4.60	4.80	106996000
		2	5.23	5.13	5.33	110397000
		3	5.94	5.84	6.04	372388000
		4	6.02	5.92	6.12	458405000
		5	6.87	6.77	6.97	92161100
Toxaphene	500	1	6.24	6.14	6.34	23962400
		2	6.44	6.34	6.54	13823600
		3	7.06	6.96	7.16	79159800
		4	7.15	7.05	7.25	59803700
		5	7.93	7.83	8.03	45329200



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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Instrument ID: ECD_L Date(s) Analyzed: 10/28/2024 10/28/2024

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Chlordane	500	1	3.78	3.68	3.88	105092000
		2	4.35	4.25	4.45	120641000
		3	4.98	4.88	5.08	361048000
		4	5.05	4.95	5.15	346821000
		5	5.94	5.84	6.04	124060000
Toxaphene	500	1	5.01	4.91	5.11	19952700
		2	5.33	5.23	5.43	19749600
		3	6.61	6.51	6.71	70222500
		4	6.73	6.63	6.83	98337700
		5	7.05	6.95	7.15	65479700

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092655.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 14:43
 Operator : AR\AJ
 Sample : PSTDICC100
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDICC100

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 17:08:56 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 17:06:20 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.540	2.778	231.9E6	272.5E6	99.805	101.520
28)	SA Decachlor...	9.054	7.915	173.9E6	260.7E6	97.727	100.024
Target Compounds							
2)	A alpha-BHC	3.996	3.281	335.7E6	428.2E6	101.915	103.738
3)	MA gamma-BHC...	4.328	3.611	319.9E6	408.4E6	101.500	103.158
4)	MA Heptachlor	4.917	3.950	281.7E6	387.6E6	99.789	102.203
5)	MB Aldrin	5.258	4.230	284.7E6	384.1E6	100.711	102.971
6)	B beta-BHC	4.525	3.910	134.3E6	162.5E6	99.068	101.057
7)	B delta-BHC	4.773	4.139	306.8E6	408.8E6	101.972	103.616
8)	B Heptachlo...	5.685	4.732	253.6E6	340.5E6	99.409	101.997
9)	A Endosulfan I	6.070	5.102	232.1E6	311.1E6	99.407	101.931
10)	B gamma-Chl...	5.940	4.982	249.7E6	347.0E6	100.095	102.605
11)	B alpha-Chl...	6.019	5.046	248.7E6	340.9E6	99.933	102.323
12)	B 4,4'-DDE	6.193	5.235	225.4E6	333.5E6	100.536	102.774
13)	MA Dieldrin	6.345	5.366	248.7E6	348.3E6	100.220	102.853
14)	MA Endrin	6.575	5.641	211.2E6	296.9E6	99.771	102.439
15)	B Endosulfa...	6.794	5.936	216.0E6	288.2E6	98.961	101.794
16)	A 4,4'-DDD	6.710	5.789	181.0E6	261.5E6	99.788	103.390
17)	MA 4,4'-DDT	7.024	6.039	194.9E6	279.7E6	100.211	102.948
18)	B Endrin al...	6.924	6.115	171.2E6	227.4E6	98.679	100.967
19)	B Endosulfa...	7.158	6.338	197.4E6	270.8E6	98.735	101.573
20)	A Methoxychlor	7.500	6.614	104.1E6	140.1E6	98.219	100.247
21)	B Endrin ke...	7.643	6.843	225.4E6	309.0E6	99.557	101.257
22)	Mirex	8.117	7.024	176.1E6	246.6E6	97.640	99.464

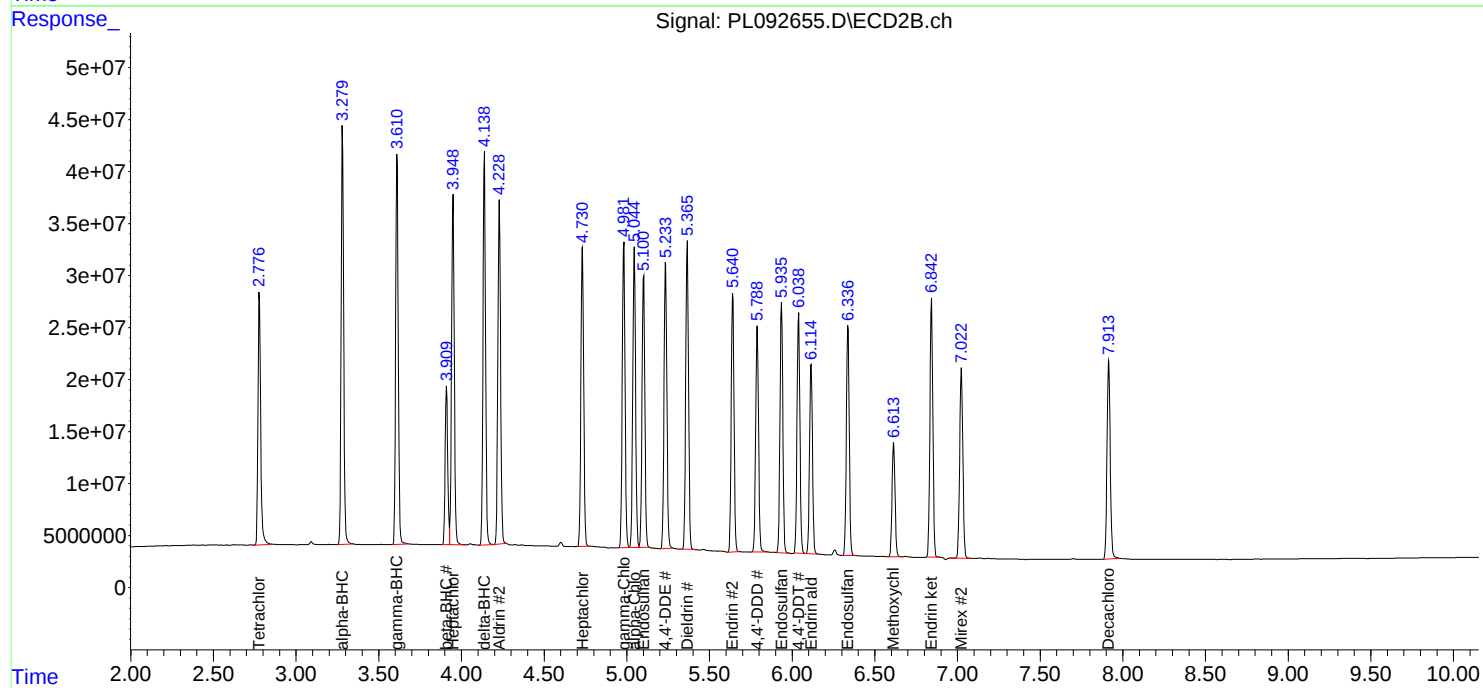
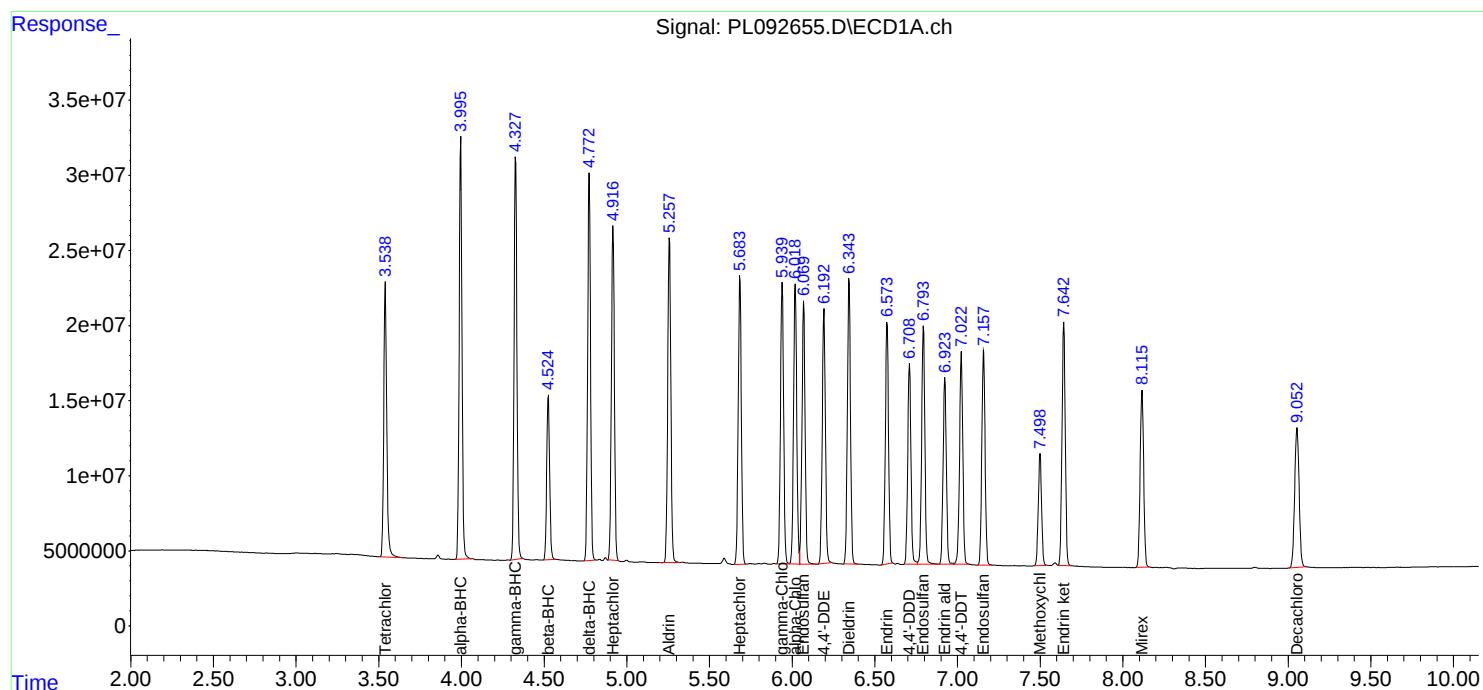
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092655.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 14:43
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:08:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092656.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 14:56
 Operator : AR\AJ
 Sample : PSTDICC075
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDICC075

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 17:11:32 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 17:10:47 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.540	2.778	172.8E6	199.6E6	74.573	74.581
28)	SA Decachlor...	9.054	7.916	131.7E6	193.2E6	74.361	74.409
Target Compounds							
2)	A alpha-BHC	3.996	3.281	245.4E6	306.7E6	74.672	74.526
3)	MA gamma-BHC...	4.328	3.611	235.0E6	295.1E6	74.703	74.690
4)	MA Heptachlor	4.917	3.950	209.7E6	282.5E6	74.508	74.655
5)	MB Aldrin	5.259	4.230	210.2E6	277.9E6	74.567	74.665
6)	B beta-BHC	4.526	3.911	100.4E6	119.6E6	74.376	74.585
7)	B delta-BHC	4.773	4.140	223.5E6	294.4E6	74.528	74.738
8)	B Heptachlo...	5.685	4.733	189.1E6	248.9E6	74.414	74.698
9)	A Endosulfan I	6.070	5.103	173.5E6	227.5E6	74.558	74.676
10)	B gamma-Chl...	5.941	4.982	185.8E6	251.7E6	74.671	74.608
11)	B alpha-Chl...	6.019	5.047	185.2E6	247.8E6	74.613	74.571
12)	B 4,4'-DDE	6.193	5.235	167.0E6	241.9E6	74.650	74.705
13)	MA Dieldrin	6.345	5.366	184.3E6	252.3E6	74.504	74.669
14)	MA Endrin	6.575	5.642	157.7E6	215.9E6	74.683	74.647
15)	B Endosulfa...	6.794	5.937	162.1E6	211.0E6	74.503	74.700
16)	A 4,4'-DDD	6.710	5.790	135.1E6	188.0E6	74.665	74.546
17)	MA 4,4'-DDT	7.024	6.040	145.0E6	203.5E6	74.705	74.920
18)	B Endrin al...	6.924	6.116	128.9E6	168.3E6	74.510	74.830
19)	B Endosulfa...	7.159	6.339	148.5E6	198.5E6	74.498	74.635
20)	A Methoxychlor	7.500	6.615	78815004	103.9E6	74.596	74.572
21)	B Endrin ke...	7.643	6.844	168.5E6	226.7E6	74.619	74.533
22)	Mirex	8.117	7.024	133.9E6	183.5E6	74.491	74.331

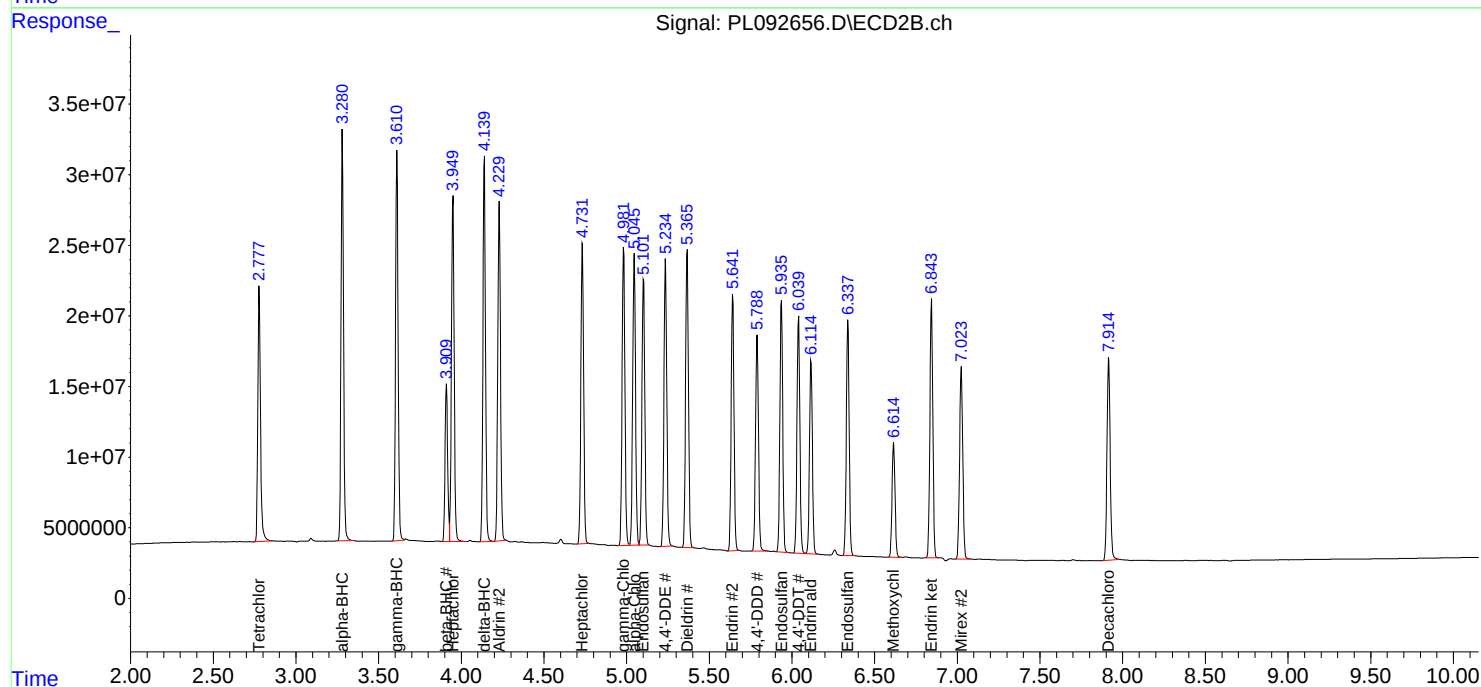
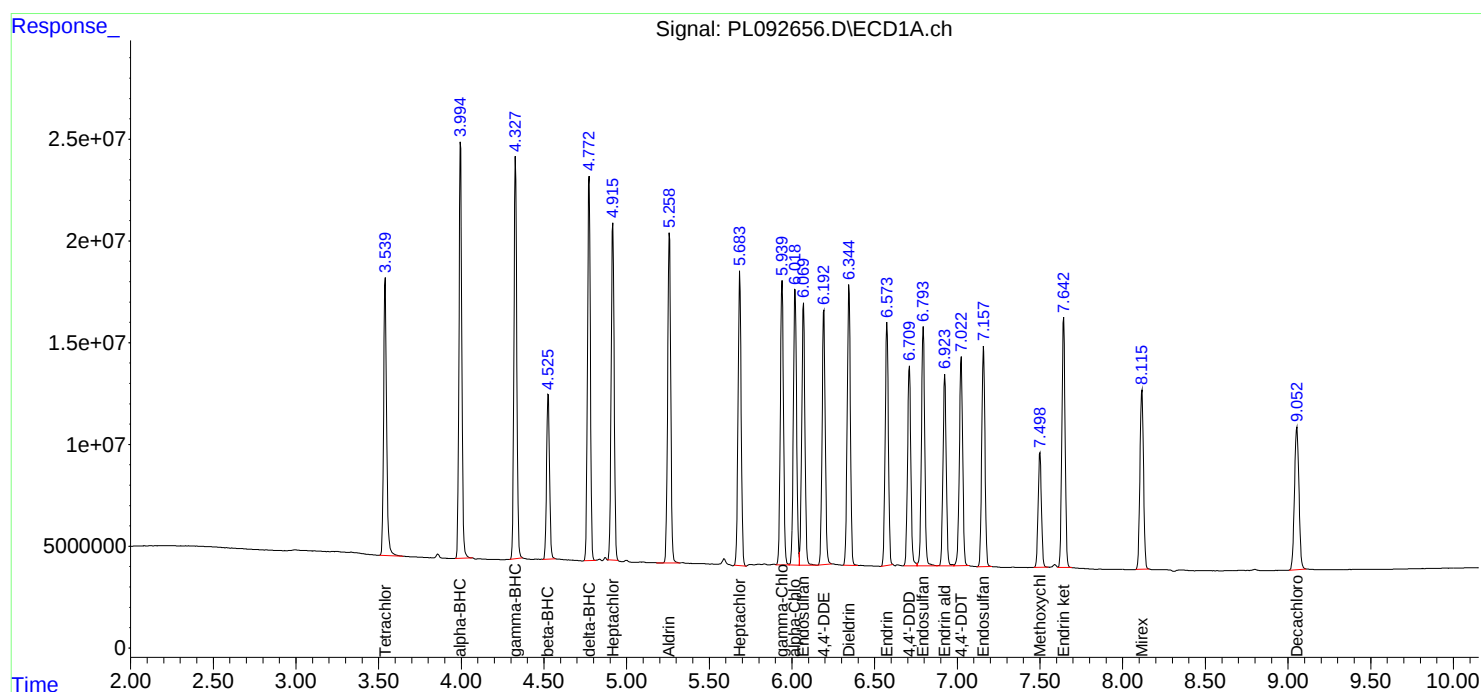
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092656.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 14:56
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:11:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:10:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092657.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 15:09
 Operator : AR\AJ
 Sample : PSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDICC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 17:06:37 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 17:06:20 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.540	2.778	116.4E6	132.2E6	50.000	50.000
28)	SA Decachlor...	9.054	7.916	90985898	130.3E6	50.000	50.000
Target Compounds							
2)	A alpha-BHC	3.996	3.281	161.5E6	198.7E6	50.000	50.000
3)	MA gamma-BHC...	4.328	3.611	155.2E6	191.7E6	50.000	50.000
4)	MA Heptachlor	4.917	3.949	141.5E6	185.5E6	50.000	50.000
5)	MB Aldrin	5.258	4.229	140.4E6	181.0E6	50.000	50.000
6)	B beta-BHC	4.525	3.910	68426712	79558092	50.000	50.000
7)	B delta-BHC	4.772	4.139	147.5E6	190.1E6	50.000	50.000
8)	B Heptachlo...	5.684	4.732	128.3E6	163.6E6	50.000	50.000
9)	A Endosulfan I	6.070	5.102	117.4E6	149.7E6	50.000	50.000
10)	B gamma-Chl...	5.941	4.982	124.6E6	164.7E6	50.000	50.000
11)	B alpha-Chl...	6.019	5.045	124.5E6	162.7E6	50.000	50.000
12)	B 4,4'-DDE	6.193	5.235	111.5E6	157.7E6	50.000	50.000
13)	MA Dieldrin	6.345	5.366	123.8E6	164.5E6	50.000	50.000
14)	MA Endrin	6.574	5.641	106.1E6	141.4E6	50.000	50.000
15)	B Endosulfa...	6.794	5.936	110.3E6	139.0E6	50.000	50.000
16)	A 4,4'-DDD	6.710	5.789	90898841	122.2E6	50.000	50.000
17)	MA 4,4'-DDT	7.023	6.040	97035972	131.9E6	50.000	50.000
18)	B Endrin al...	6.924	6.115	87908093	111.5E6	50.000	50.000
19)	B Endosulfa...	7.158	6.338	101.2E6	131.2E6	50.000	50.000
20)	A Methoxychlor	7.499	6.615	53913903	69696231	50.000	50.000
21)	B Endrin ke...	7.643	6.843	113.7E6	150.7E6	50.000	50.000
22)	Mirex	8.116	7.024	92300183	124.6E6	50.000	50.000

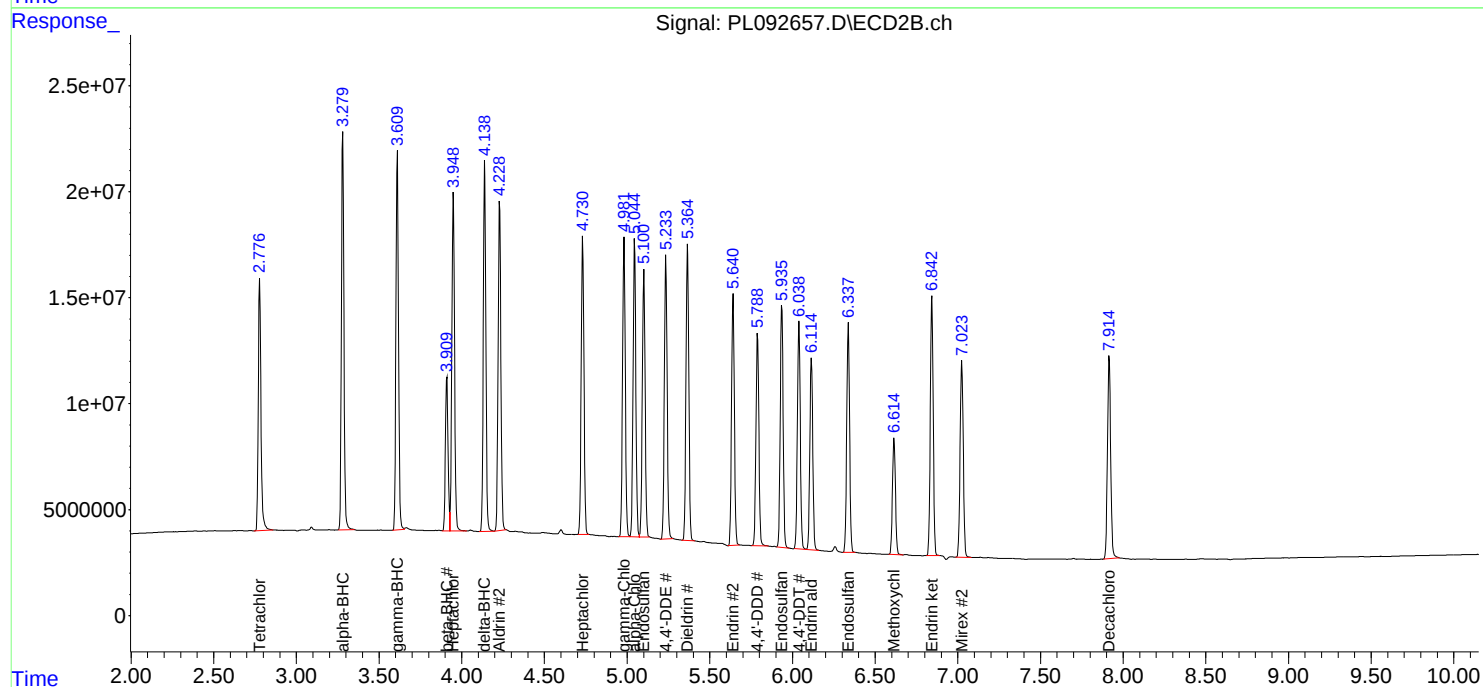
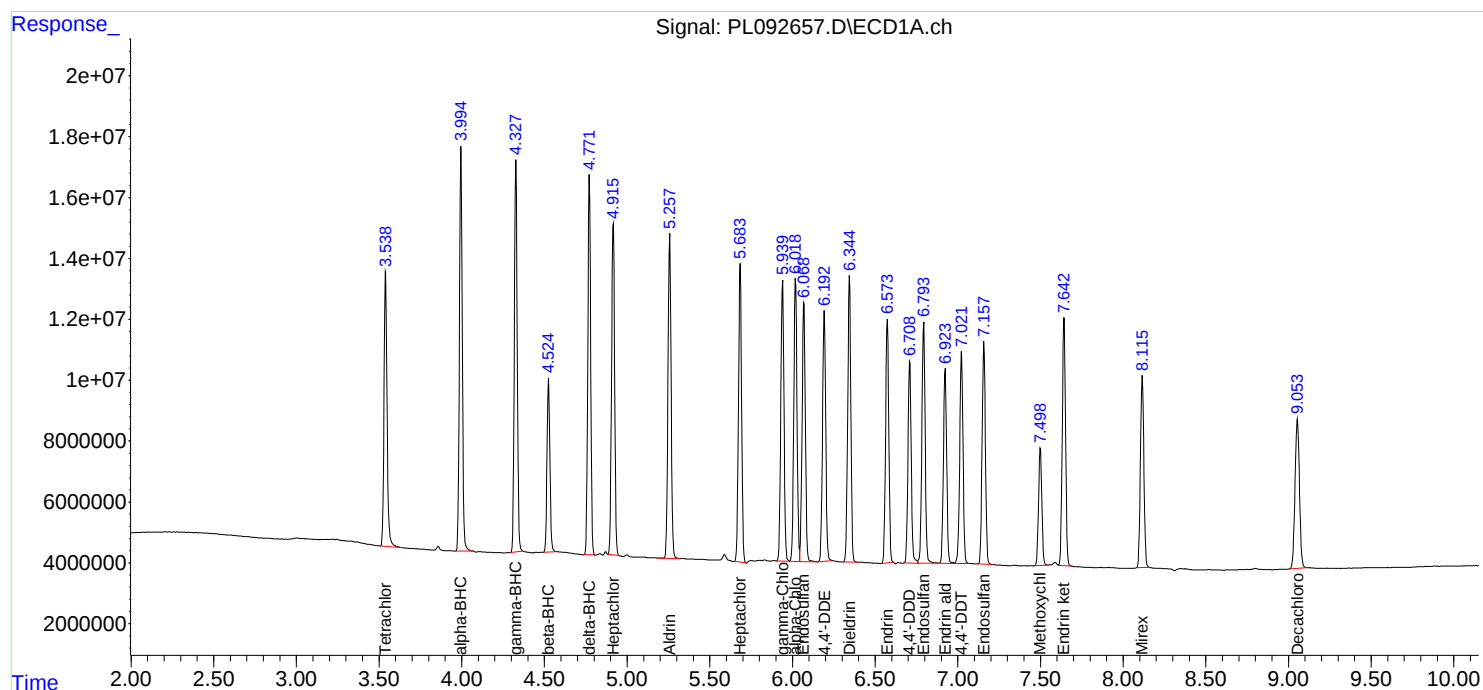
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092657.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 15:09
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:06:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092658.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 15:23
 Operator : AR\AJ
 Sample : PSTDICC025
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDICC025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 17:13:36 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 17:10:47 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.540	2.778	62808688	68210857	26.546	25.362
28) SA Decachlor...	9.054	7.916	49968947	69836578	27.328	26.400
Target Compounds						
2) A alpha-BHC	3.996	3.281	84927238	98362013	25.627	24.168
3) MA gamma-BHC...	4.328	3.611	81958950	95710712	25.784	24.415
4) MA Heptachlor	4.917	3.950	76599935	94477178	26.629	24.976
5) MB Aldrin	5.259	4.230	76180853	90483526	26.486	24.481
6) B beta-BHC	4.526	3.911	37295050	41549746	26.915	25.675
7) B delta-BHC	4.773	4.140	77991786	94555626	25.748	24.249
8) B Heptachlo...	5.685	4.732	70540111	83820686	27.012	25.117
9) A Endosulfan I	6.070	5.102	63654358	76808476	26.720	25.162
10) B gamma-Chl...	5.941	4.982	67586796	83550406	26.583	24.826
11) B alpha-Chl...	6.019	5.046	67542919	83232660	26.625	25.039
12) B 4,4'-DDE	6.193	5.235	60061765	80248978	26.363	24.834
13) MA Dieldrin	6.345	5.366	66985225	82586412	26.531	24.577
14) MA Endrin	6.574	5.642	58111422	71905340	26.841	24.898
15) B Endosulfa...	6.793	5.937	61248899	71530905	27.295	25.239
16) A 4,4'-DDD	6.710	5.790	49194300	62230288	26.599	24.759
17) MA 4,4'-DDT	7.023	6.040	52836397	66342279	26.630	24.568
18) B Endrin al...	6.923	6.116	48897872	58336435	27.376	25.694
19) B Endosulfa...	7.158	6.339	55996056	67808739	27.255	25.373
20) A Methoxychlor	7.499	6.615	29728906	36759011	27.282	26.022
21) B Endrin ke...	7.643	6.844	61777342	77430982	26.728	25.339
22) Mirex	8.116	7.025	51864163	67137696	27.785	26.612

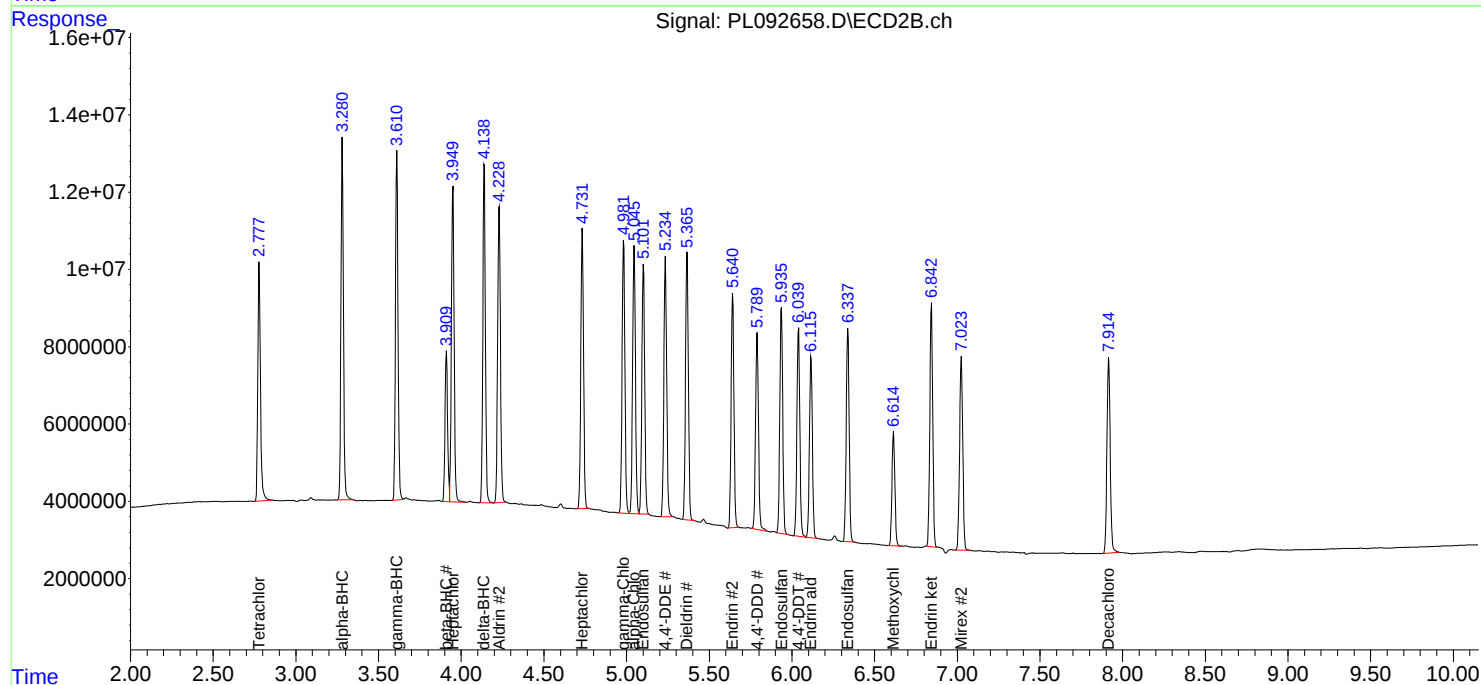
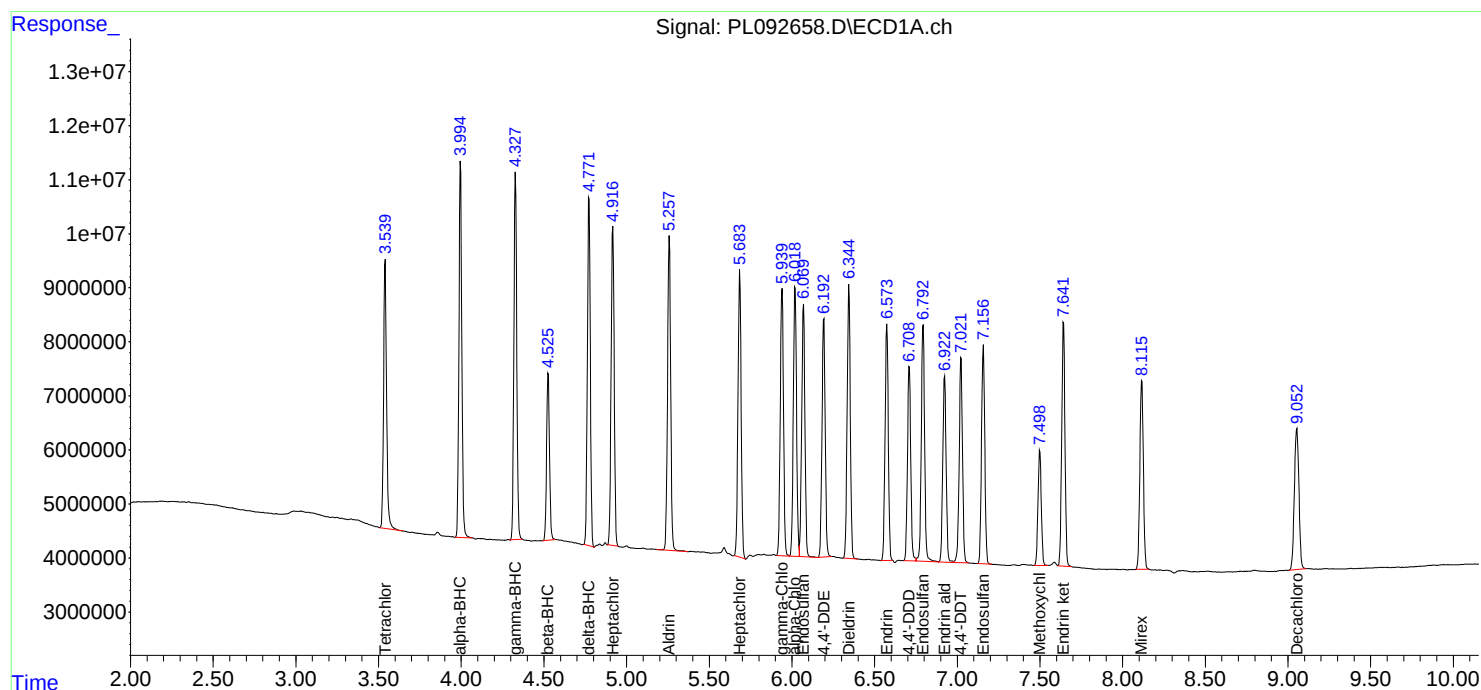
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092658.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 15:23
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:13:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:10:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092659.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 15:36
 Operator : AR\AJ
 Sample : PSTDICC005
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDICC005

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 10/29/2024

Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 17:16:08 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 17:10:47 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.540	2.778	13934946	14239511	5.687	5.233
28) SA Decachlor...	9.053	7.915	11544004	15324471	5.998	5.615
Target Compounds						
2) A alpha-BHC	3.995	3.280	18509728	18354234	5.458	4.600
3) MA gamma-BHC...	4.328	3.611	17915176	18082634	5.496	4.685
4) MA Heptachlor	4.916	3.950	17547418	18693239	5.843	4.953
5) MB Aldrin	5.258	4.229	17512022	17582981	5.834	4.804
6) B beta-BHC	4.526	3.910	8423294	8790546	5.827	5.340
7) B delta-BHC	4.771	4.139	17664985	18090728	5.611m	4.707
8) B Heptachlo...	5.682	4.732	16806367	16790300	6.074m	5.025
9) A Endosulfan I	6.069	5.102	14888105	15277635	5.952	5.004
10) B gamma-Chl...	5.940	4.982	15665588	16732339	5.888	4.977
11) B alpha-Chl...	6.019	5.046	15466528	16668126	5.841	5.011
12) B 4,4'-DDE	6.192	5.235	13664798	15911321	5.768	4.939
13) MA Dieldrin	6.344	5.366	15390264	16300991	5.840	4.880
14) MA Endrin	6.573	5.641	13615222	14564290	5.980	5.034
15) B Endosulfa...	6.793	5.936	14715849	14149758	6.173	4.994
16) A 4,4'-DDD	6.709	5.789	10998106	11982712	5.730	4.812
17) MA 4,4'-DDT	7.023	6.039	12061270	13048754	5.827	4.865
18) B Endrin al...	6.923	6.115	11226054	12274278	5.978	5.320
19) B Endosulfa...	7.157	6.338	13167738	13973088	6.067	5.181
20) A Methoxychlor	7.499	6.614	6705797	7447941	5.882	5.216
21) B Endrin ke...	7.643	6.843	14342863	15604260	5.920	5.085
22) Mirex	8.116	7.024	12209643	14769955	6.161	5.661

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092659.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 15:36
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDICC005

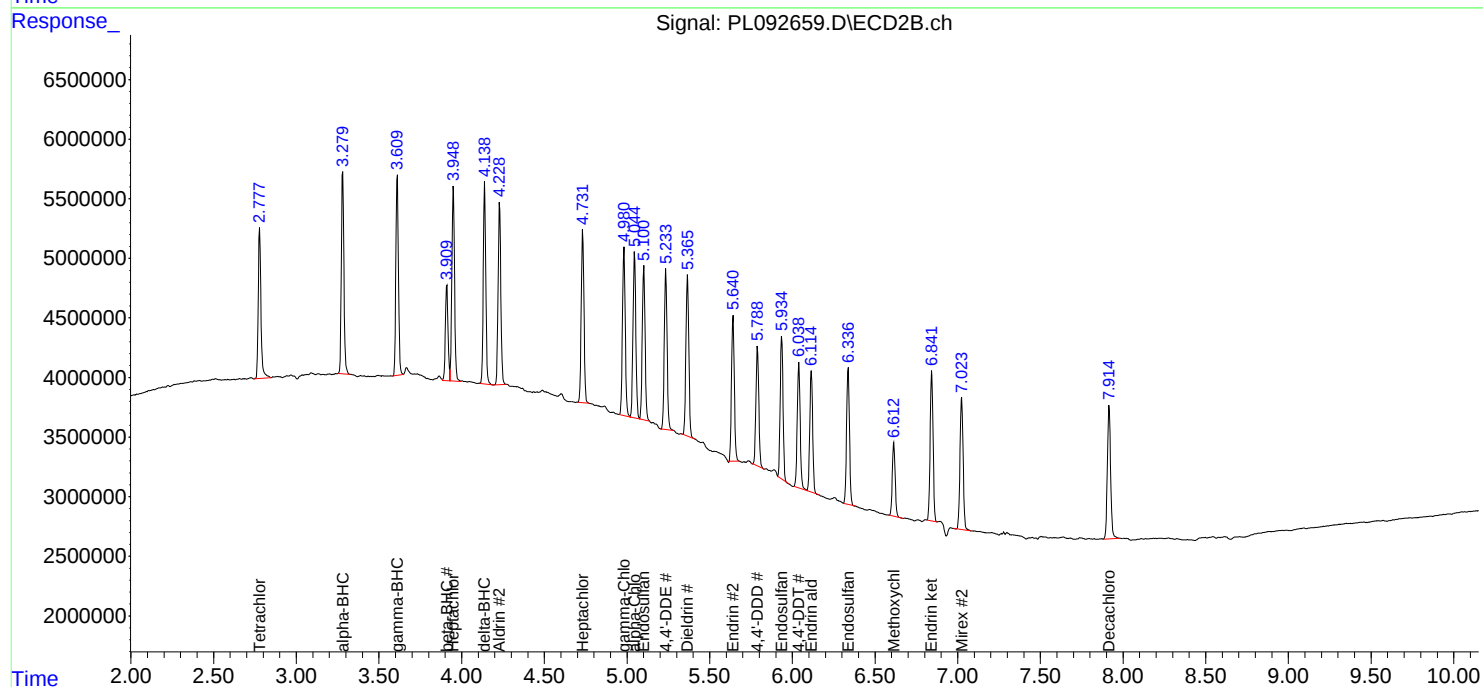
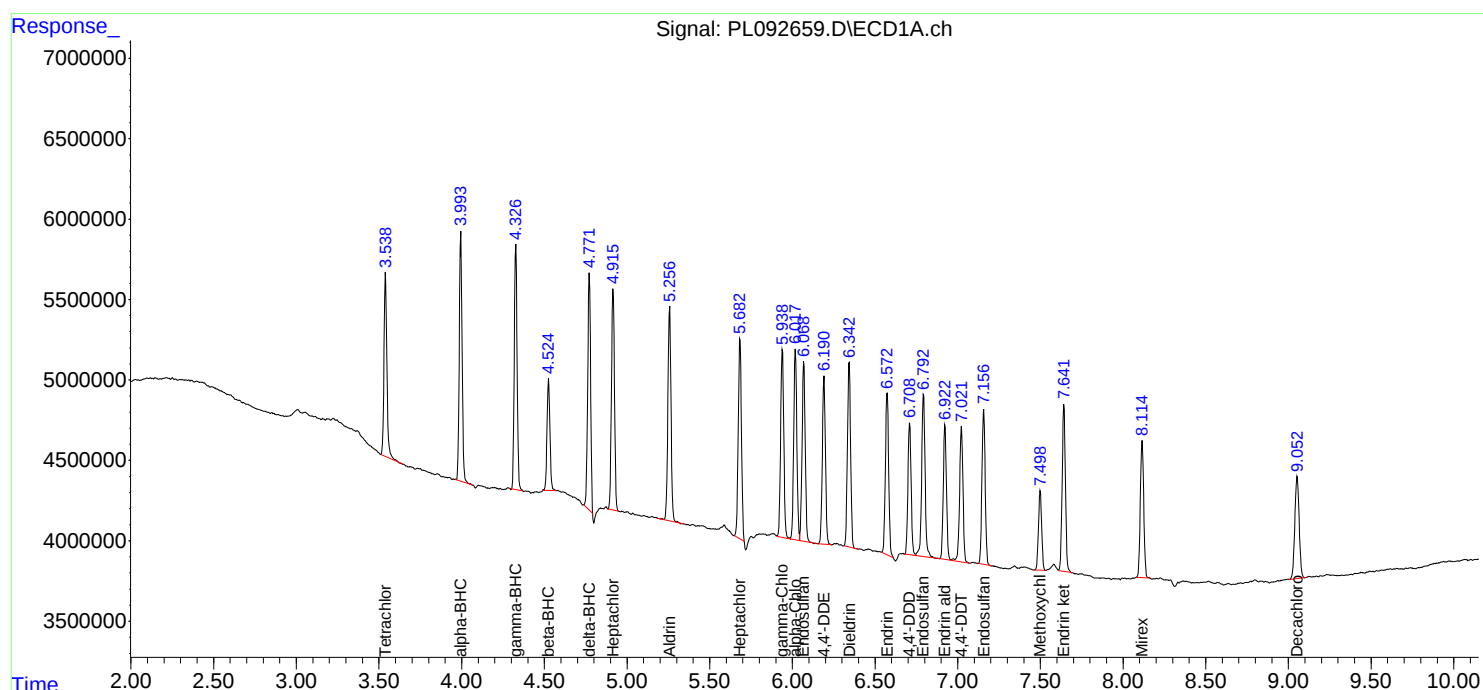
Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:16:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:10:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092662.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 16:16
 Operator : AR\AJ
 Sample : PCHLORICC500
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PCHLORICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 16:53:54 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 16:53:34 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.540	2.777	115.3E6	161.4E6	50.000	50.000
28)	SA Decachlor...	9.055	7.916	90689456	133.2E6	50.000	50.000
Target Compounds							
23)	Chlordane-1	4.702	3.776	53498186	52546046	500.000	500.000
24)	Chlordane-2	5.231	4.352	55198384	60320369	500.000	500.000
25)	Chlordane-3	5.941	4.982	186.2E6	180.5E6	500.000	500.000
26)	Chlordane-4	6.023	5.045	229.2E6	173.4E6	500.000	500.000
27)	Chlordane-5	6.872	5.941	46080525	62029874	500.000	500.000

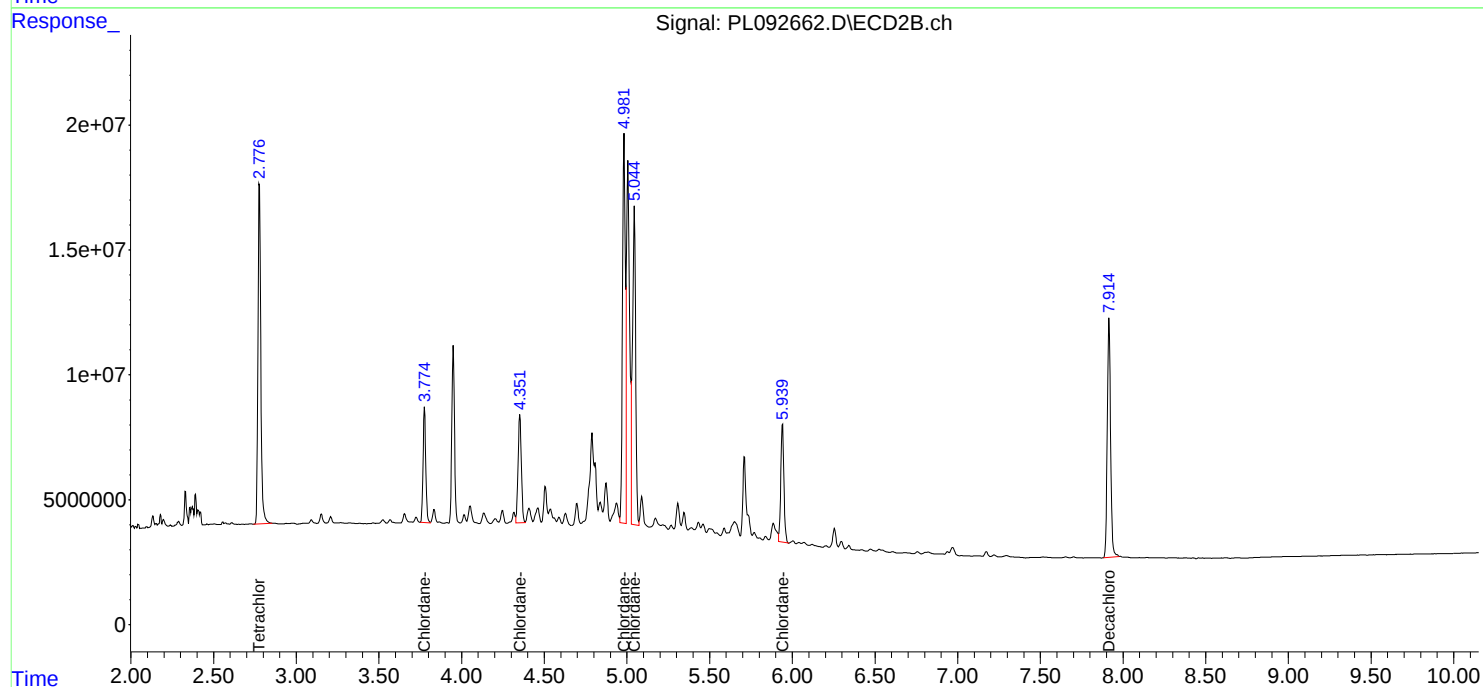
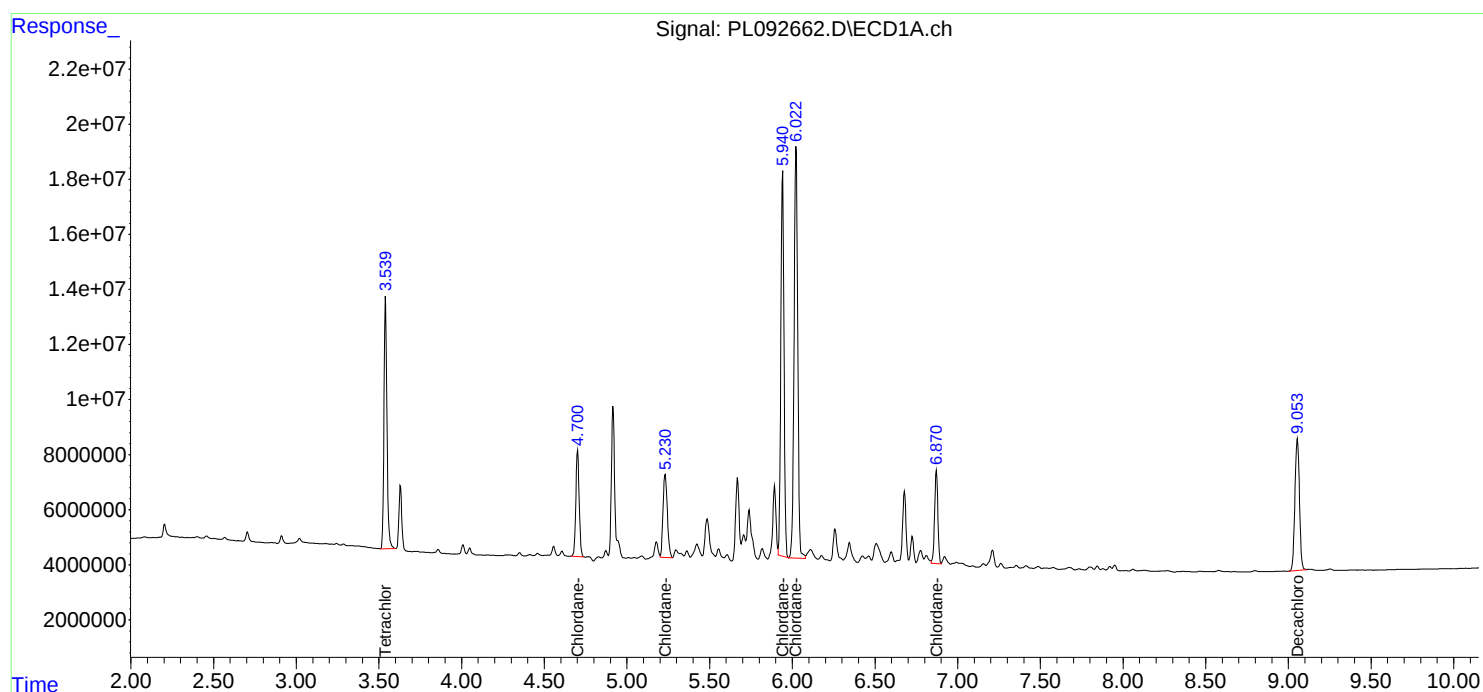
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092662.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 16:16
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 16:53:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 16:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092667.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 17:23
 Operator : AR\AJ
 Sample : PTOXICC500
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PTOXICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 17:35:54 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 17:35:39 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
 Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.540	2.778	120.2E6	137.2E6	50.000	50.000
7) SA Decachlor...	9.054	7.916	94872630	139.2E6	50.000	50.000
Target Compounds						
2) Toxaphene-1	6.237	5.007	11981208	9976373	500.000	500.000
3) Toxaphene-2	6.441	5.332	6911814	9874812	500.000	500.000
4) Toxaphene-3	7.058	6.605	39579915	35111261	500.000	500.000
5) Toxaphene-4	7.149	6.733	29901849	49168858	500.000	500.000
6) Toxaphene-5	7.934	7.045	22664593	32739853	500.000	500.000

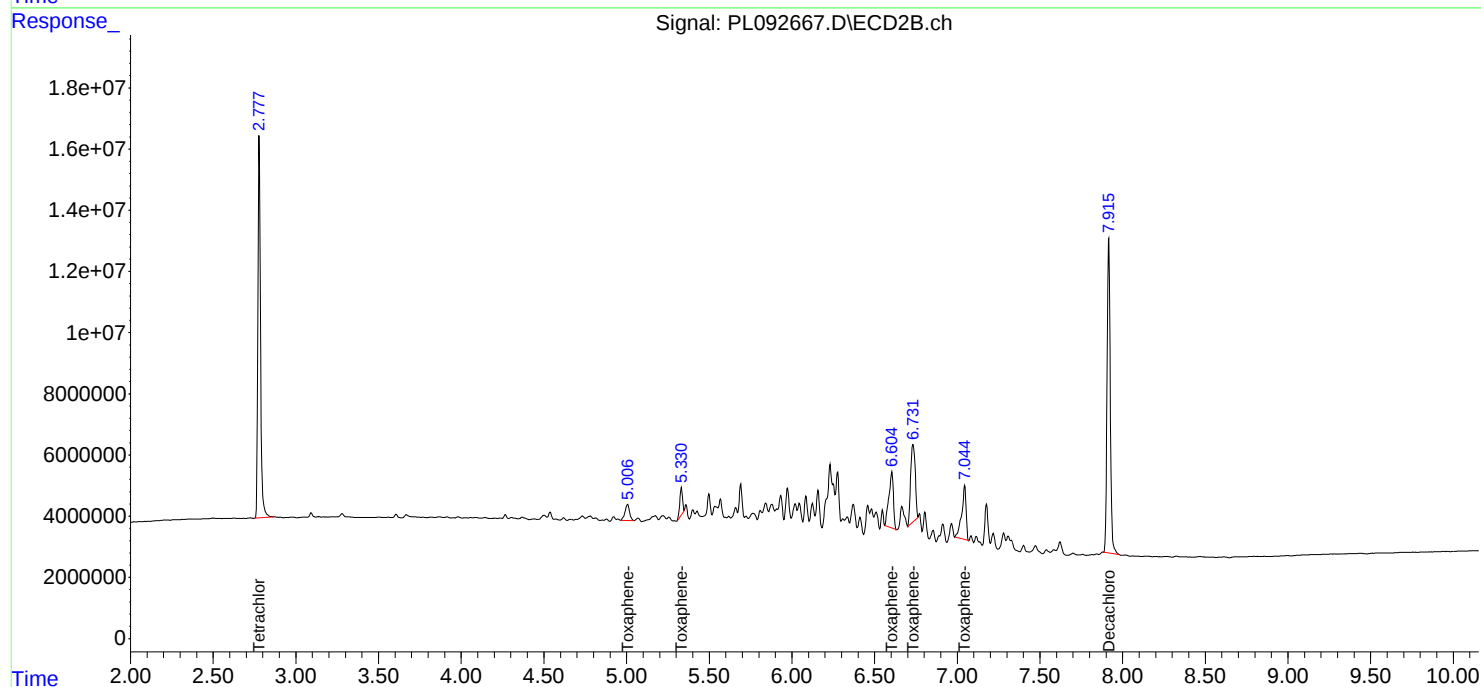
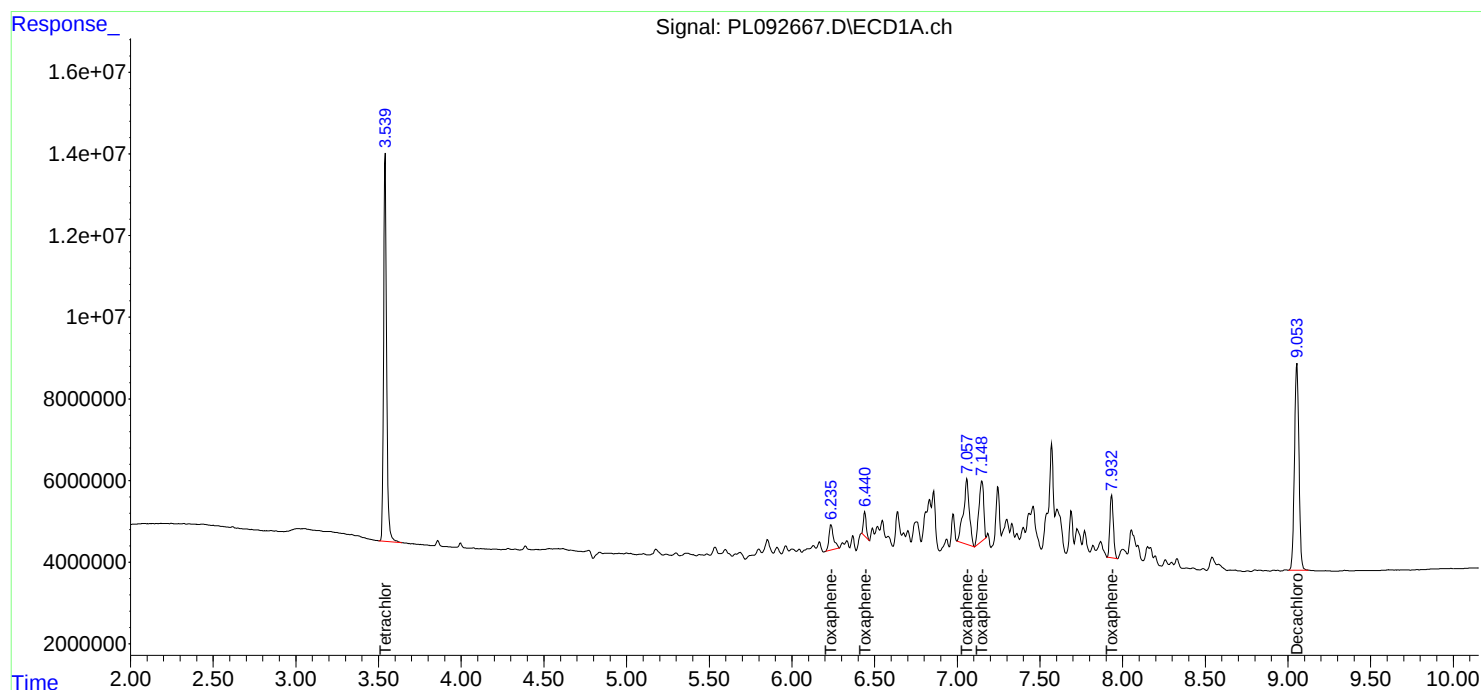
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092667.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:23
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PTOXICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:35:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:35:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x 0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092670.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 18:03
 Operator : AR\AJ
 Sample : PSTDICV050
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 ICVPL102824

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 18:20:57 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 17:19:58 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.540	2.778	119.9E6	136.6E6	48.932	50.204
28)	SA Decachlor...	9.054	7.916	94182239	139.9E6	48.937	51.259
Target Compounds							
2)	A alpha-BHC	3.996	3.281	167.5E6	204.0E6	49.379	51.127
3)	MA gamma-BHC...	4.328	3.611	160.1E6	197.4E6	49.125	51.136
4)	MA Heptachlor	4.916	3.950	147.0E6	192.1E6	48.942	50.906
5)	MB Aldrin	5.258	4.230	145.8E6	187.4E6	48.580	51.194
6)	B beta-BHC	4.526	3.911	70600682	82244973	48.843	49.959
7)	B delta-BHC	4.773	4.140	153.4E6	196.7E6	49.025	51.190
8)	B Heptachlo...	5.684	4.732	133.1E6	169.7E6	48.213	50.772
9)	A Endosulfan I	6.069	5.102	121.8E6	154.2E6	48.702	50.518
10)	B gamma-Chl...	5.941	4.982	129.8E6	169.3E6	48.769	50.359
11)	B alpha-Chl...	6.019	5.046	129.4E6	167.6E6	48.847	50.380
12)	B 4,4'-DDE	6.193	5.235	116.5E6	164.4E6	49.166	51.019
13)	MA Dieldrin	6.345	5.366	129.0E6	171.0E6	48.947	51.185
14)	MA Endrin	6.575	5.642	110.2E6	147.7E6	48.393	51.063
15)	B Endosulfa...	6.794	5.937	115.4E6	145.0E6	48.417	51.175
16)	A 4,4'-DDD	6.710	5.790	95447383	127.7E6	49.724	51.292
17)	MA 4,4'-DDT	7.024	6.040	102.8E6	137.5E6	49.676	51.253
18)	B Endrin al...	6.924	6.116	91870810	116.2E6	48.920	50.348
19)	B Endosulfa...	7.159	6.339	106.0E6	136.5E6	48.859	50.601
20)	A Methoxychlor	7.500	6.615	57010538	73335025	50.009	51.354
21)	B Endrin ke...	7.644	6.844	118.9E6	157.6E6	49.074	51.358
22)	Mirex	8.117	7.025	96541027	131.1E6	48.716	50.260

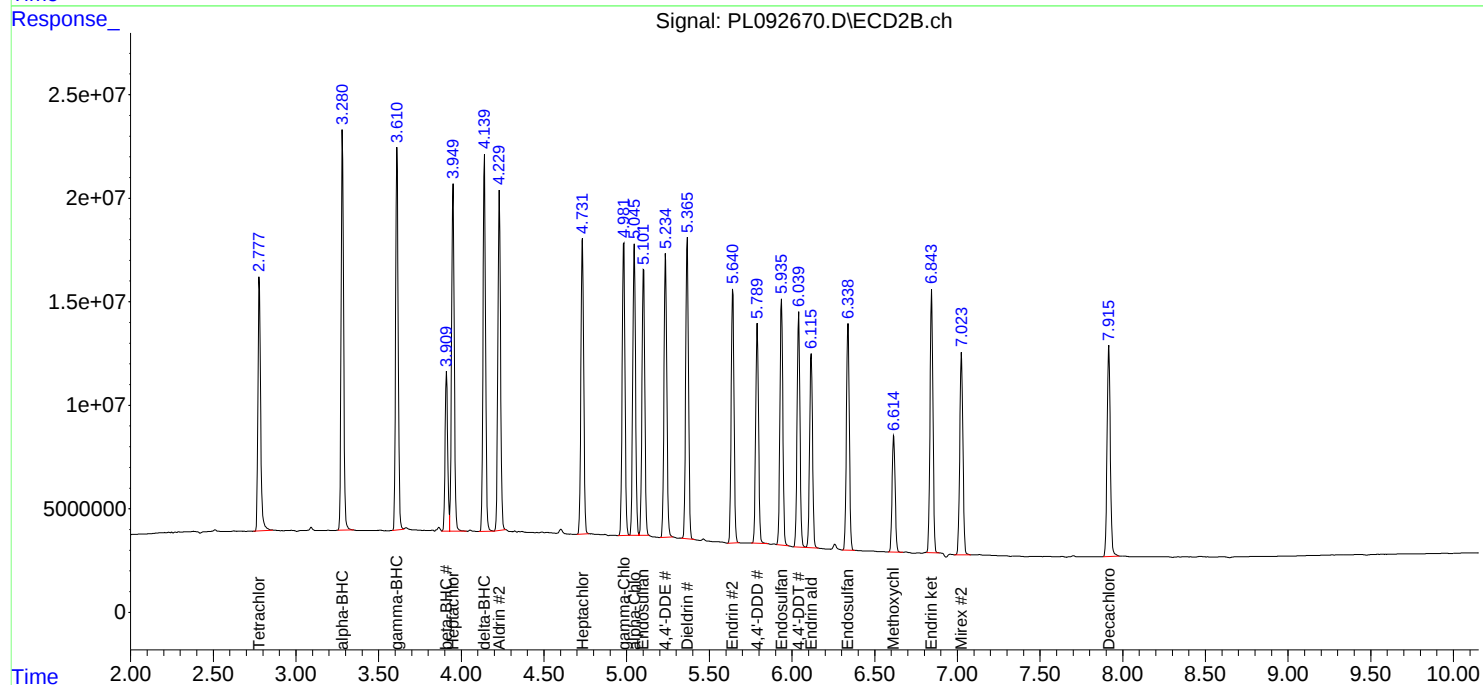
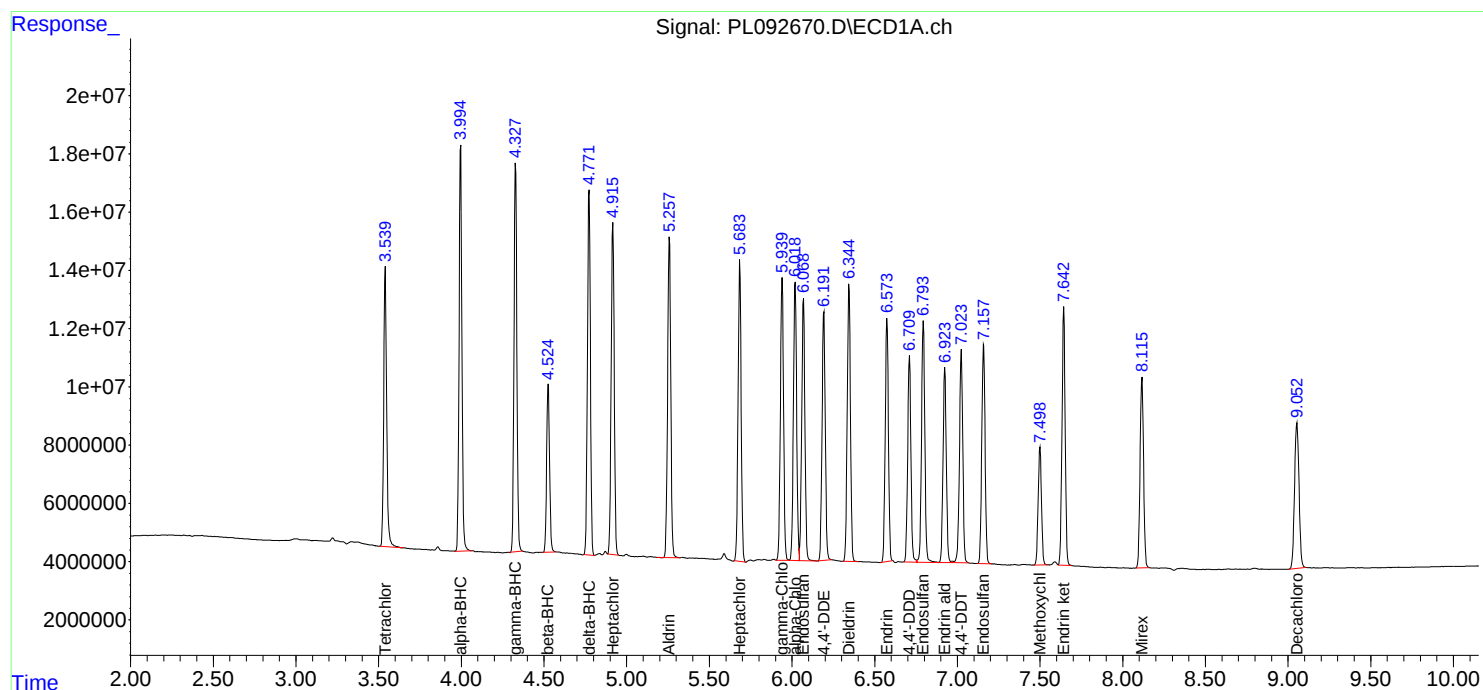
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092670.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 18:03
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL102824

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 18:20:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:19:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092671.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 18:30
 Operator : AR\AJ
 Sample : PCHLORICV500
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 ICVPL102824CHLOR

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 18:55:50 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 18:55:22 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.540	2.777	116.2E6	162.6E6	48.370	49.862
28) SA Decachlor...	9.053	7.915	91212958	135.8E6	48.151	49.359
Target Compounds						
23) Chlordane-1	4.701	3.775	53586597	53029458	487.196	499.551
24) Chlordane-2	5.231	4.352	54950332	60704270	479.439	490.132
25) Chlordane-3	5.941	4.982	186.4E6	180.0E6	477.568	496.319
26) Chlordane-4	6.022	5.045	229.4E6	173.9E6	479.933	497.043
27) Chlordane-5	6.872	5.940	46544927	61748302	491.706	486.943

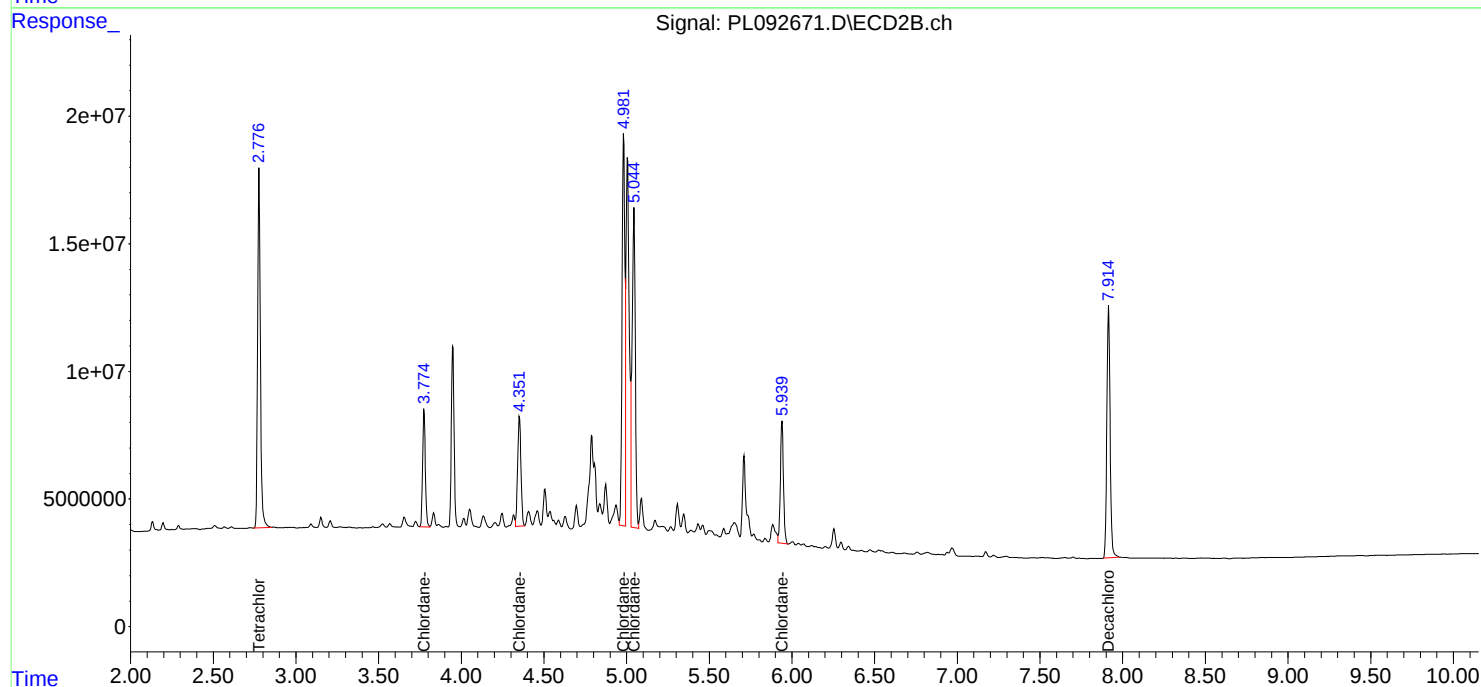
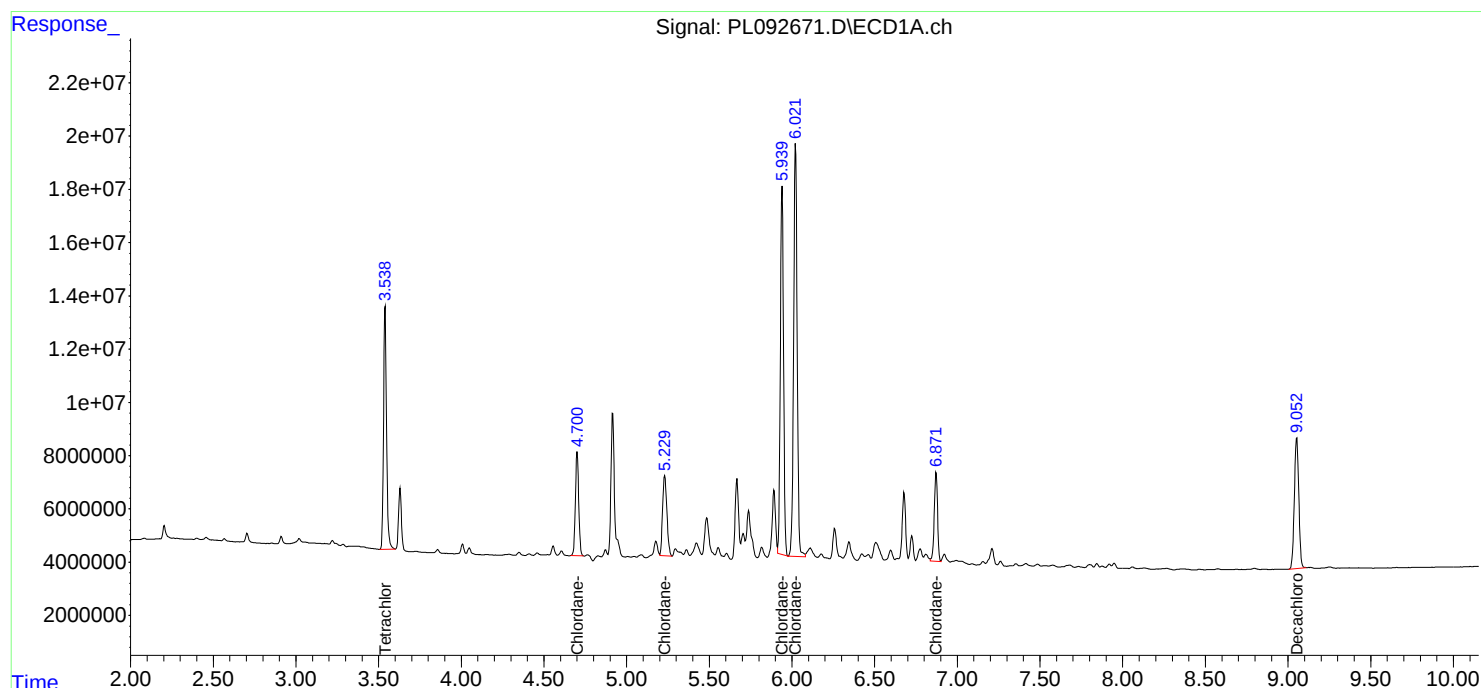
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092671.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 18:30
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL102824CHLOR

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 18:55:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:55:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092672.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 18:57
 Operator : AR\AJ
 Sample : PTOXICV500
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 ICVPL102824TOX

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 19:11:19 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 18:04:49 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
 Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.540	2.778	120.8E6	137.1E6	50.385	51.035
7) SA Decachlor...	9.053	7.916	95483844	139.1E6	50.356	50.519
Target Compounds						
2) Toxaphene-1	6.237	5.006	12257412	10058947	555.039	528.973
3) Toxaphene-2	6.441	5.331	6863785	9788249	506.186	497.458
4) Toxaphene-3	7.058	6.604	39909041	34565997	513.663	508.031
5) Toxaphene-4	7.149	6.732	29767251	48553437	501.141	526.978
6) Toxaphene-5	7.933	7.046	22590334	32781409	503.299	499.967

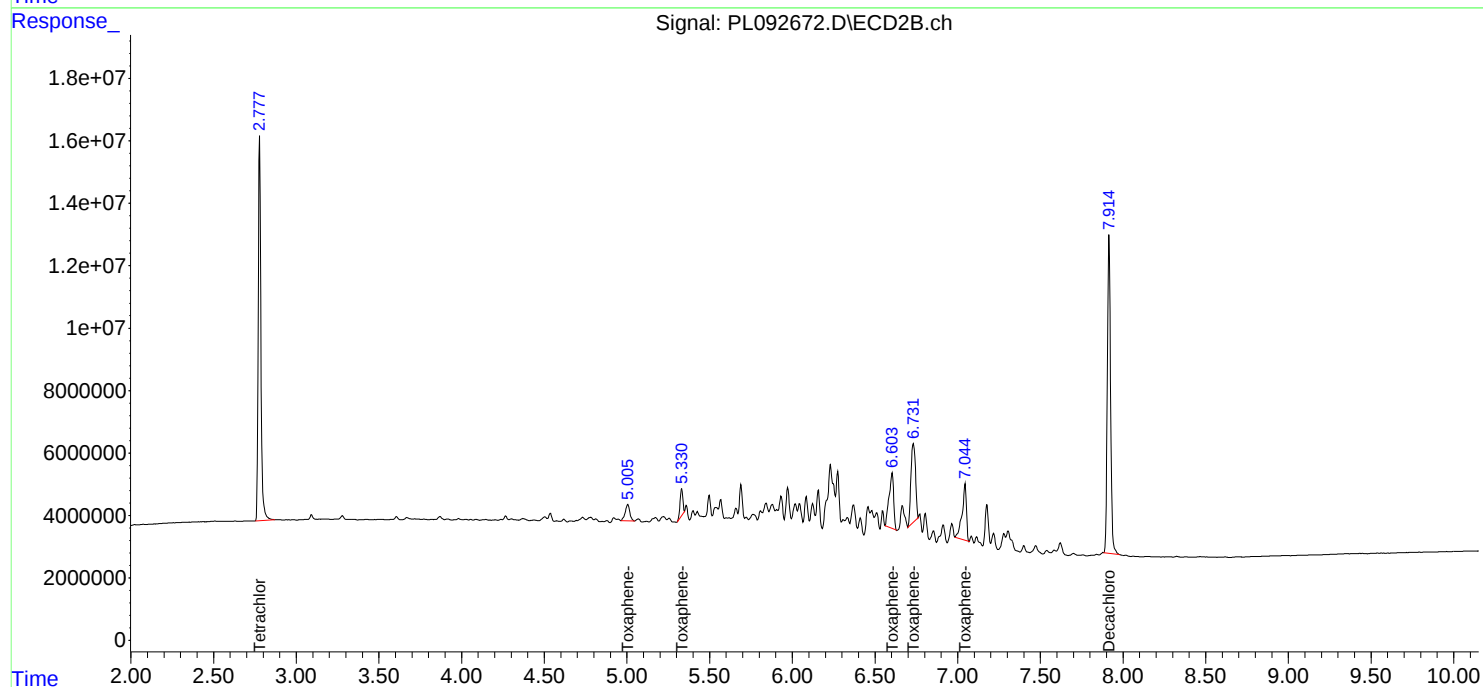
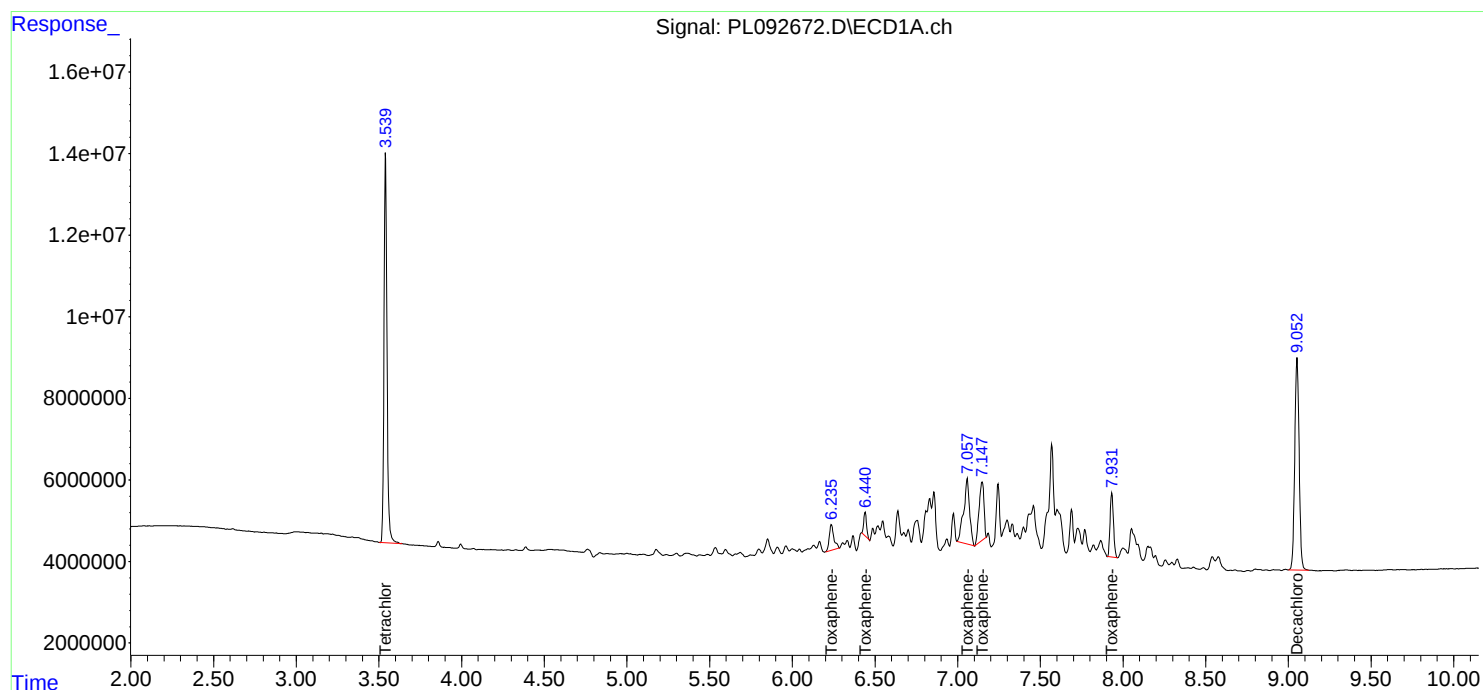
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092672.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 18:57
Operator : AR\AJ
Sample : PTOXICV500
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL102824TOX

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 19:11:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x 0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Continuing Calib Date: 11/21/2024 Initial Calibration Date(s): 10/28/2024 10/28/2024

Continuing Calib Time: 09:51 Initial Calibration Time(s): 14:43 15:36

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.91	4.92	4.82	5.02	0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Continuing Calib Date: 11/21/2024 Initial Calibration Date(s): 10/28/2024 10/28/2024

Continuing Calib Time: 09:51 Initial Calibration Time(s): 14:43 15:36

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.01
Tetrachloro-m-xylene	2.77	2.78	2.68	2.88	0.01
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Methoxychlor	6.61	6.62	6.52	6.72	0.01



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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No.: CCAL01 Date Analyzed: 11/21/2024

Lab Sample No.: PSTDCCC050 Data File : PL093193.D Time Analyzed: 09:51

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.057	8.954	9.154	45.380	50.000	-9.2
Endrin	6.572	6.474	6.674	43.030	50.000	-13.9
gamma-BHC (Lindane)	4.326	4.228	4.428	49.920	50.000	-0.2
Heptachlor	4.914	4.817	5.017	47.490	50.000	-5.0
Heptachlor epoxide	5.683	5.584	5.784	47.140	50.000	-5.7
Methoxychlor	7.500	7.399	7.599	41.800	50.000	-16.4
Tetrachloro-m-xylene	3.537	3.440	3.640	50.810	50.000	1.6



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CALIBRATION VERIFICATION SUMMARY
Contract: AECO02
Lab Code: CHEM **Case No.:** P4921 **SAS No.:** P4921 **SDG NO.:** P4921
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024
Client Sample No.: CCAL01 **Date Analyzed:** 11/21/2024
Lab Sample No.: PSTDCCC050 **Data File :** PL093193.D **Time Analyzed:** 09:51

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	7.915	7.816	8.016	50.970	50.000	1.9
Endrin	5.638	5.541	5.741	50.120	50.000	0.2
gamma-BHC (Lindane)	3.607	3.511	3.711	52.430	50.000	4.9
Heptachlor	3.946	3.849	4.049	50.860	50.000	1.7
Heptachlor epoxide	4.728	4.632	4.832	52.370	50.000	4.7
Methoxychlor	6.613	6.515	6.715	47.990	50.000	-4.0
Tetrachloro-m-xylene	2.774	2.678	2.878	51.270	50.000	2.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
 Data File : PL093193.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Nov 2024 09:51
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDCCC050

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 21 23:28:28 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 18:58:23 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.537	2.774	124.5E6	139.5E6	50.811	51.269
28)	SA Decachlor...	9.057	7.915	87337270	139.1E6	45.381	50.966
Target Compounds							
2)	A alpha-BHC	3.993	3.277	173.0E6	208.8E6	51.001	52.319
3)	MA gamma-BHC...	4.326	3.607	162.7E6	202.3E6	49.918	52.429
4)	MA Heptachlor	4.914	3.946	142.6E6	191.9E6	47.487	50.858
5)	MB Aldrin	5.255	4.225	143.3E6	193.2E6	47.750m	52.781
6)	B beta-BHC	4.524	3.907	70043021	84228266	48.457	51.164
7)	B delta-BHC	4.771	4.136	154.8E6	201.8E6	49.472	52.507
8)	B Heptachlo...	5.683	4.728	130.2E6	175.0E6	47.141	52.370
9)	A Endosulfan I	6.068	5.098	117.1E6	153.0E6	46.813	50.127
10)	B gamma-Chl...	5.939	4.979	123.1E6	177.3E6	46.263	52.755
11)	B alpha-Chl...	6.018	5.043	123.5E6	174.3E6	46.620	52.394
12)	B 4,4'-DDE	6.192	5.232	112.9E6	172.8E6	47.638	53.650
13)	MA Dieldrin	6.344	5.363	123.4E6	177.6E6	46.807	53.156
14)	MA Endrin	6.572	5.638	97954243	145.0E6	43.025m	50.121
15)	B Endosulfa...	6.794	5.932	106.3E6	151.6E6	44.601	53.492m
16)	A 4,4'-DDD	6.708	5.787	93005315	141.7E6	48.452m	56.922
17)	MA 4,4'-DDT	7.023	6.037	88722468	128.7E6	42.866	47.973
18)	B Endrin al...	6.923	6.113	88163169	122.1E6	46.946	52.913
19)	B Endosulfa...	7.158	6.336	98633851	142.3E6	45.446	52.751
20)	A Methoxychlor	7.500	6.613	47650399	68529624	41.799	47.989
21)	B Endrin ke...	7.644	6.842	112.6E6	166.4E6	46.462	54.229
22)	Mirex	8.118	7.022	87245595	133.7E6	44.026	51.259

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093193.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 09:51
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDCCC050

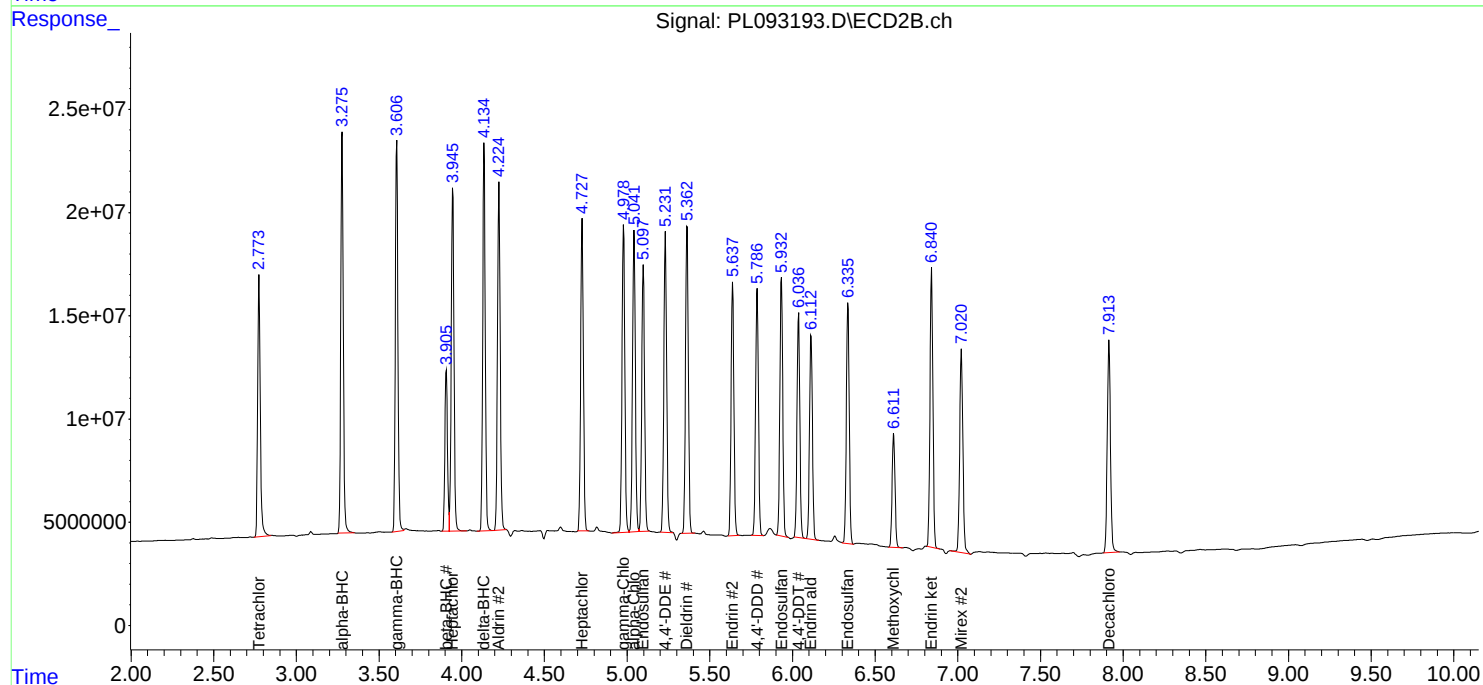
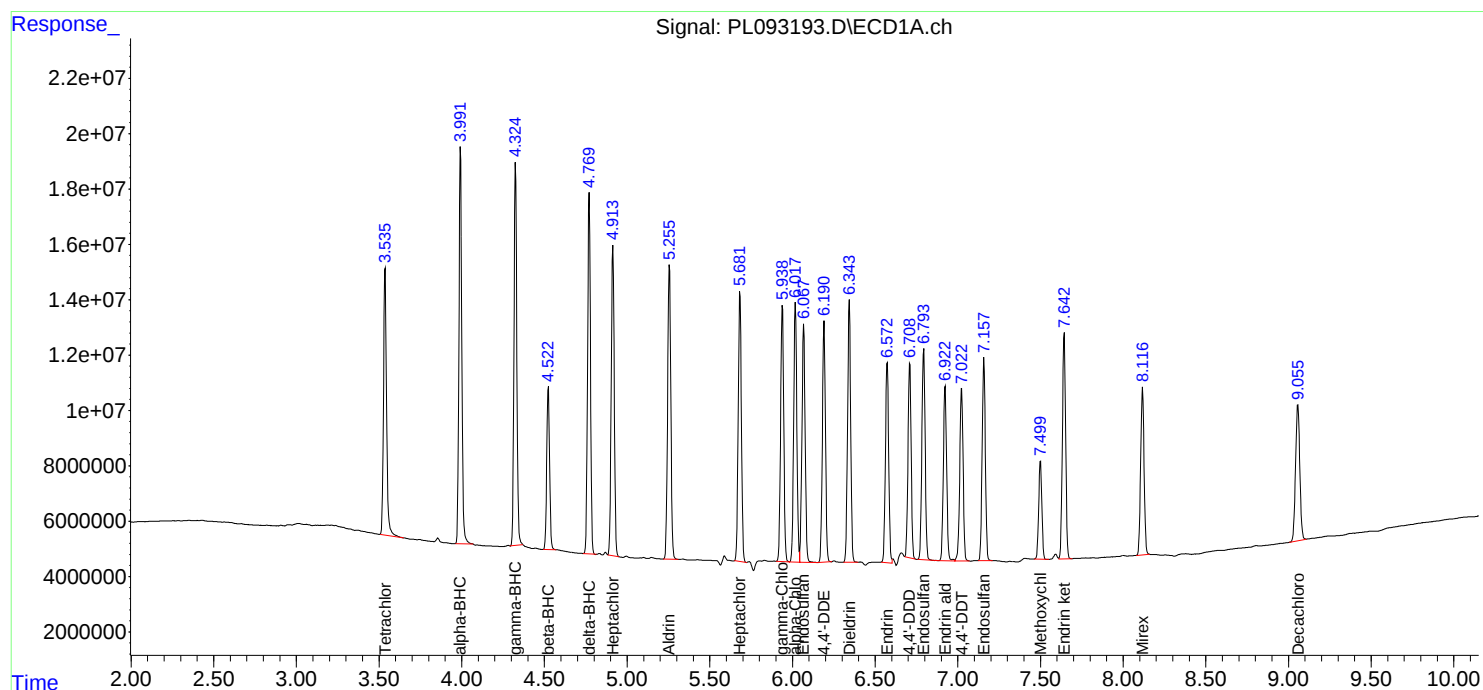
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:28:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Continuing Calib Date: 11/21/2024 Initial Calibration Date(s): 10/28/2024 10/28/2024

Continuing Calib Time: 15:07 Initial Calibration Time(s): 14:43 15:36

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.01
Heptachlor	4.91	4.92	4.82	5.02	0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

Continuing Calib Date: 11/21/2024 Initial Calibration Date(s): 10/28/2024 10/28/2024

Continuing Calib Time: 15:07 Initial Calibration Time(s): 14:43 15:36

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	7.91	7.92	7.82	8.02	0.01
Tetrachloro-m-xylene	2.77	2.78	2.68	2.88	0.01
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Methoxychlor	6.61	6.62	6.52	6.72	0.01



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CALIBRATION VERIFICATION SUMMARY
Contract: AECO02
Lab Code: CHEM **Case No.:** P4921 **SAS No.:** P4921 **SDG NO.:** P4921
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024
Client Sample No.: CCAL02 **Date Analyzed:** 11/21/2024
Lab Sample No.: PSTDCCC050 **Data File :** PL093211.D **Time Analyzed:** 15:07

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.058	8.954	9.154	46.110	50.000	-7.8
Endrin	6.572	6.474	6.674	44.290	50.000	-11.4
gamma-BHC (Lindane)	4.325	4.228	4.428	50.530	50.000	1.1
Heptachlor	4.914	4.817	5.017	47.570	50.000	-4.9
Heptachlor epoxide	5.682	5.584	5.784	47.490	50.000	-5.0
Methoxychlor	7.500	7.399	7.599	42.470	50.000	-15.1
Tetrachloro-m-xylene	3.536	3.440	3.640	51.100	50.000	2.2



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CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No.: CCAL02 Date Analyzed: 11/21/2024

Lab Sample No.: PSTDCCC050 Data File : PL093211.D Time Analyzed: 15:07

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	7.914	7.816	8.016	51.630	50.000	3.3
Endrin	5.638	5.541	5.741	50.460	50.000	0.9
gamma-BHC (Lindane)	3.607	3.511	3.711	52.440	50.000	4.9
Heptachlor	3.946	3.849	4.049	50.770	50.000	1.5
Heptachlor epoxide	4.728	4.632	4.832	52.850	50.000	5.7
Methoxychlor	6.612	6.515	6.715	48.280	50.000	-3.4
Tetrachloro-m-xylene	2.774	2.678	2.878	51.250	50.000	2.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
 Data File : PL093211.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Nov 2024 15:07
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDCCC050

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 21 23:46:25 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 18:58:23 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.536	2.774	125.2E6	139.5E6	51.102	51.253
28)	SA Decachlor...	9.058	7.914	88747417	140.9E6	46.113	51.630
Target Compounds							
2)	A alpha-BHC	3.992	3.277	174.5E6	209.6E6	51.450	52.523
3)	MA gamma-BHC...	4.325	3.607	164.7E6	202.4E6	50.532	52.437
4)	MA Heptachlor	4.914	3.946	142.9E6	191.6E6	47.569	50.768
5)	MB Aldrin	5.254	4.226	144.0E6	193.2E6	47.977m	52.774
6)	B beta-BHC	4.523	3.907	71587081	85019075	49.525	51.644
7)	B delta-BHC	4.771	4.136	157.3E6	203.9E6	50.259	53.051
8)	B Heptachlo...	5.682	4.728	131.1E6	176.6E6	47.489	52.845
9)	A Endosulfan I	6.068	5.098	117.7E6	154.0E6	47.064	50.432
10)	B gamma-Chl...	5.939	4.979	124.3E6	177.5E6	46.705	52.796
11)	B alpha-Chl...	6.018	5.042	124.6E6	174.5E6	47.037	52.458
12)	B 4,4'-DDE	6.191	5.231	113.7E6	174.2E6	48.006	54.068
13)	MA Dieldrin	6.344	5.363	124.5E6	178.3E6	47.253	53.385
14)	MA Endrin	6.572	5.638	100.8E6	146.0E6	44.289m	50.462
15)	B Endosulfa...	6.792	5.933	106.4E6	152.0E6	44.633m	53.662
16)	A 4,4'-DDD	6.708	5.786	94159483	143.3E6	49.054m	57.549
17)	MA 4,4'-DDT	7.023	6.036	88509385	127.7E6	42.763	47.614m
18)	B Endrin al...	6.924	6.113	88469904	122.0E6	47.109	52.871
19)	B Endosulfa...	7.158	6.336	100.1E6	143.5E6	46.100	53.209
20)	A Methoxychlor	7.500	6.612	48410700	68941873	42.466	48.278
21)	B Endrin ke...	7.644	6.841	116.1E6	167.8E6	47.921	54.695
22)	Mirex	8.117	7.022	87695569	131.7E6	44.253	50.471

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093211.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 15:07
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

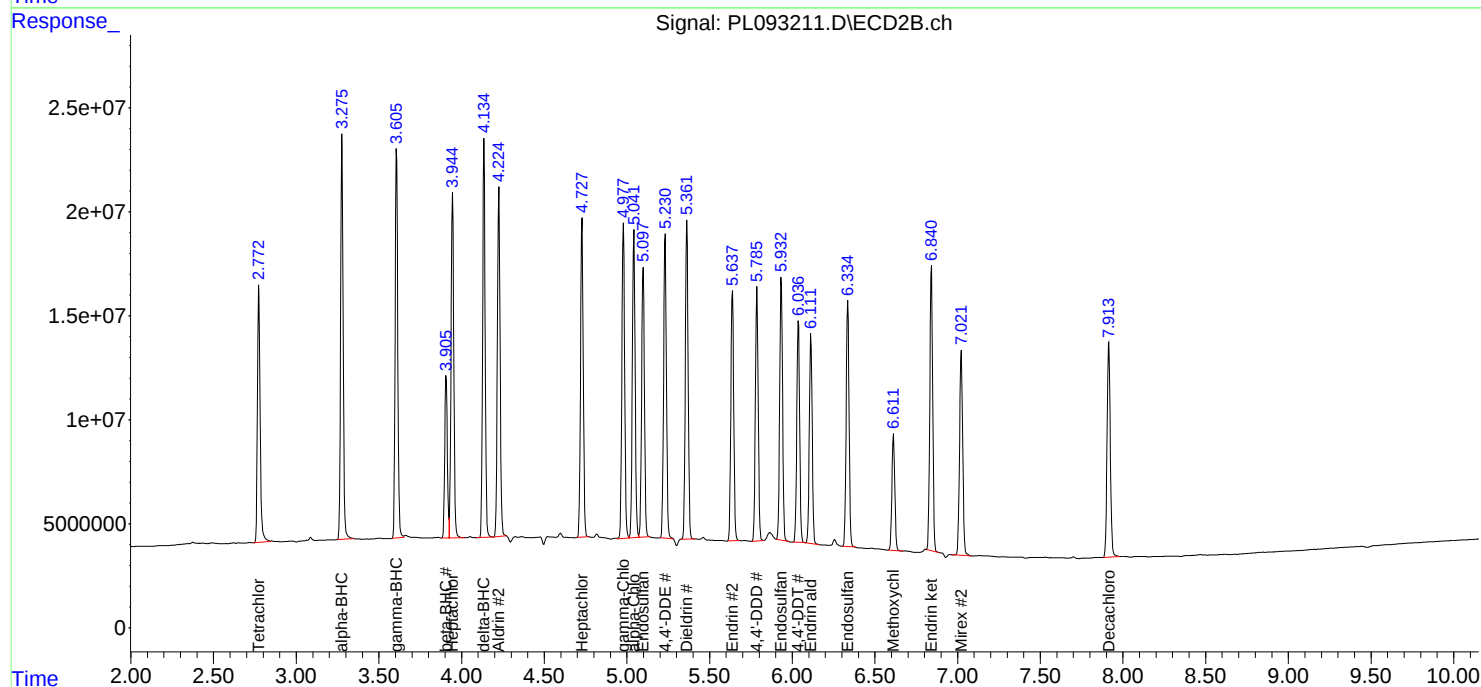
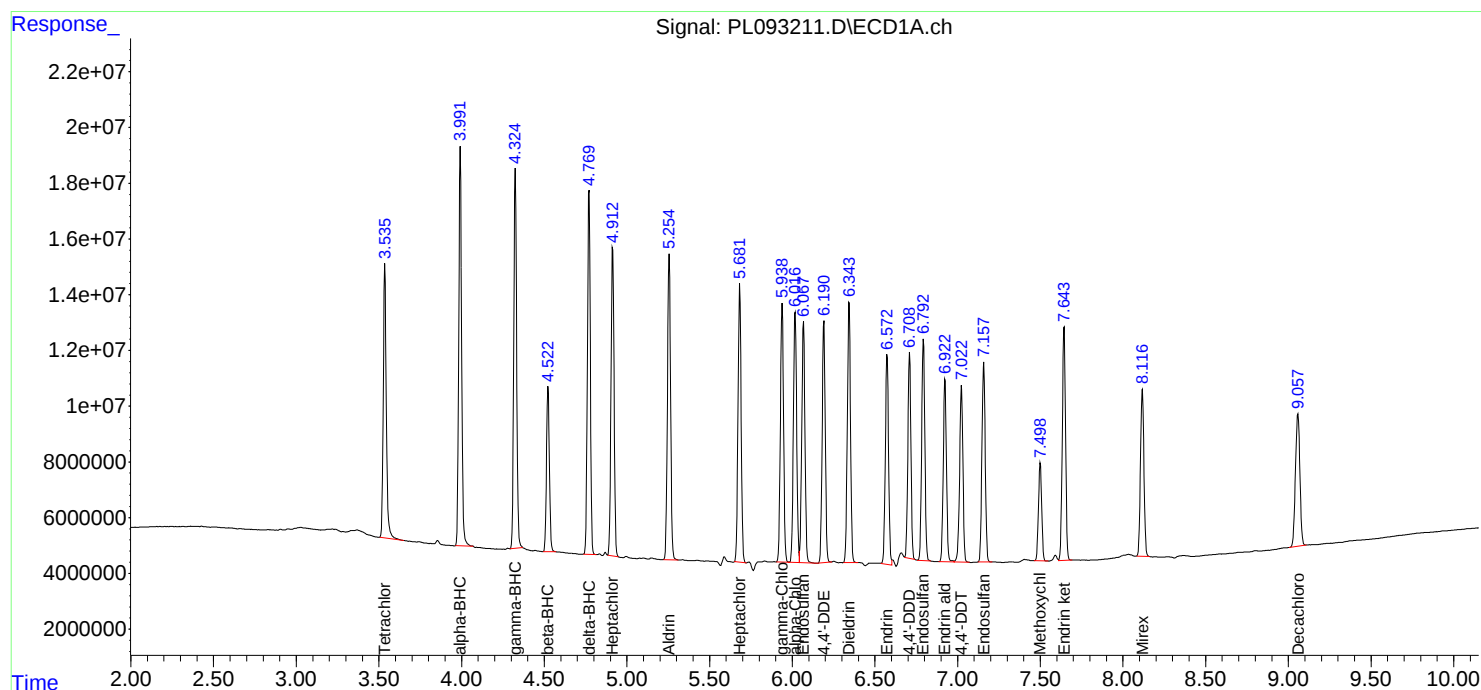
Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

Manual Integrations

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:46:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D Date Analyzed: 10/28/2024

Lab Sample No.(PEM): PEM Time Analyzed: 14:16

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.059	8.960	9.160	19.970	20.000	-0.2
Tetrachloro-m-xylene	3.546	3.500	3.600	19.290	20.000	-3.6
alpha-BHC	4.001	3.950	4.050	9.920	10.000	-0.8
beta-BHC	4.531	4.480	4.580	10.060	10.000	0.6
gamma-BHC (Lindane)	4.334	4.280	4.380	9.660	10.000	-3.4
Endrin	6.580	6.510	6.650	41.060	50.000	-17.9
4,4'-DDT	7.030	6.960	7.100	88.060	100.000	-11.9
Methoxychlor	7.505	7.430	7.580	204.090	250.000	-18.4

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D Date Analyzed: 10/28/2024

Lab Sample No.(PEM): PEM Time Analyzed: 14:16

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	7.918	7.820	8.020	19.080	20.000	-4.6
Tetrachloro-m-xylene	2.778	2.730	2.830	18.500	20.000	-7.5
alpha-BHC	3.281	3.230	3.330	8.630	10.000	-13.7
beta-BHC	3.911	3.860	3.960	9.760	10.000	-2.4
gamma-BHC (Lindane)	3.611	3.560	3.660	8.390	10.000	-16.1
Endrin	5.643	5.570	5.710	44.130	50.000	-11.7
4,4'-DDT	6.042	5.970	6.110	98.070	100.000	-1.9
Methoxychlor	6.616	6.550	6.690	225.800	250.000	-9.7

PEM
Data File: PL092653.D Date Acquired 10/28/2024 14:16
Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin	6.58	93472858.4	100627495.1	7154636.74	7.11
Endrin aldehyde	6.93	2255618.869			
Endrin ketone	7.65	4899017.868			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.64	127670048.1	136276212.4	8606164.28	6.32
Endrin aldehyde #2	6.12	3697589.438			
Endrin ketone #2	6.84	4908574.846			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.03	182263263.3	183689930.4	1426667.08	0.78
4,4'-DDE	0.00	0			
4,4'-DDD	6.72	1426667.076			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.04	263061944.1	264286032.2	1224088.02	0.46
4,4'-DDE #2	0.00	0			
4,4'-DDD #2	5.79	1224088.016			

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092653.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 14:16
 Operator : AR\AJ
 Sample : PEM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PEM

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 10/29/2024
 Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 17:21:12 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 17:19:58 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.546	2.778	47253047	50346316	19.285	18.502
28)	SA Decachlor...	9.059	7.918	38436874	52072459	19.972	19.079
Target Compounds							
2)	A alpha-BHC	4.001	3.281	33636067	34444224	9.918	8.632
3)	MA gamma-BHC...	4.334	3.611	31492360	32364466	9.662	8.386
6)	B beta-BHC	4.531	3.911	14540729	16063325	10.060	9.758
14)	MA Endrin	6.580	5.643	93472858	127.7E6	41.057	44.131
16)	A 4,4'-DDD	6.718	5.791	1426667	1224088	0.743m	0.492m#
17)	MA 4,4'-DDT	7.030	6.042	182.3E6	263.1E6	88.060	98.075
18)	B Endrin al...	6.930	6.117	2255619	3697589	1.201	1.603 #
20)	A Methoxychlor	7.505	6.616	232.7E6	322.5E6	204.088	225.801
21)	B Endrin ke...	7.648	6.845	4899018	4908575	2.022	1.600

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092653.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 14:16
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

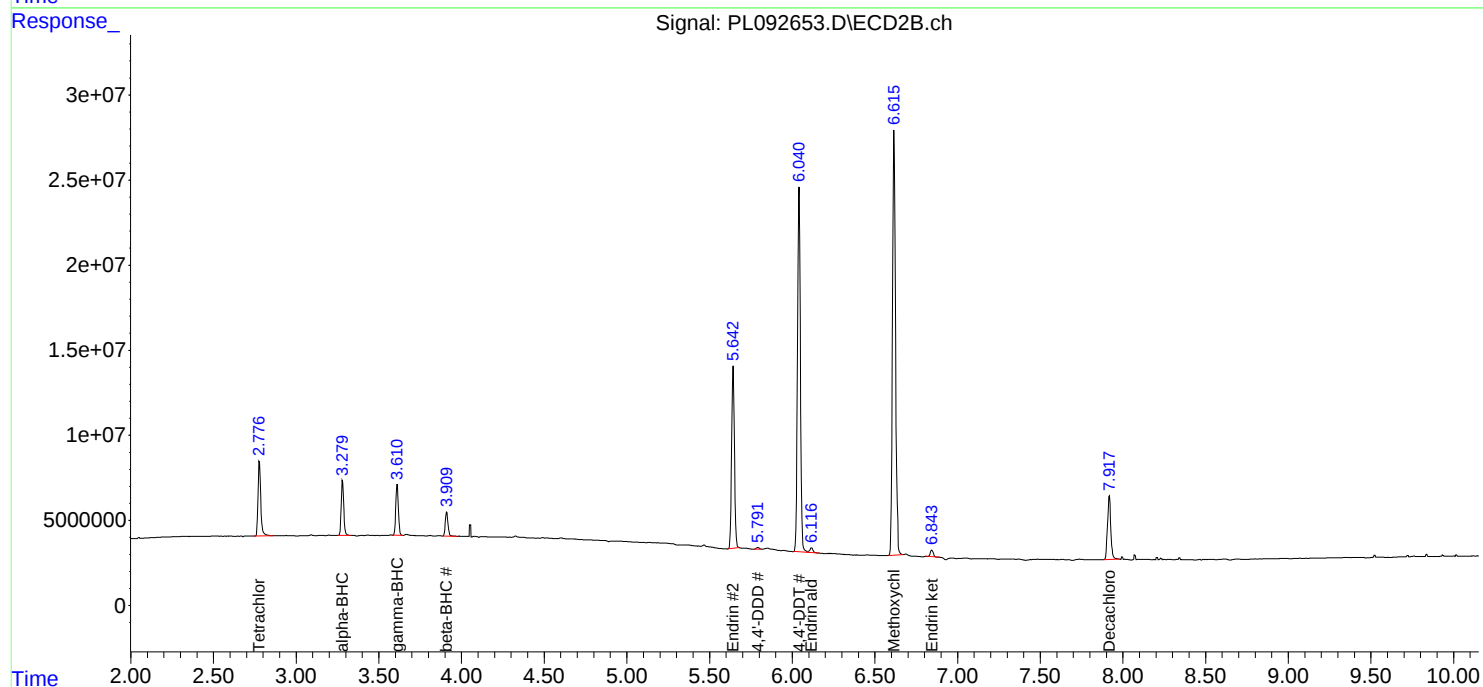
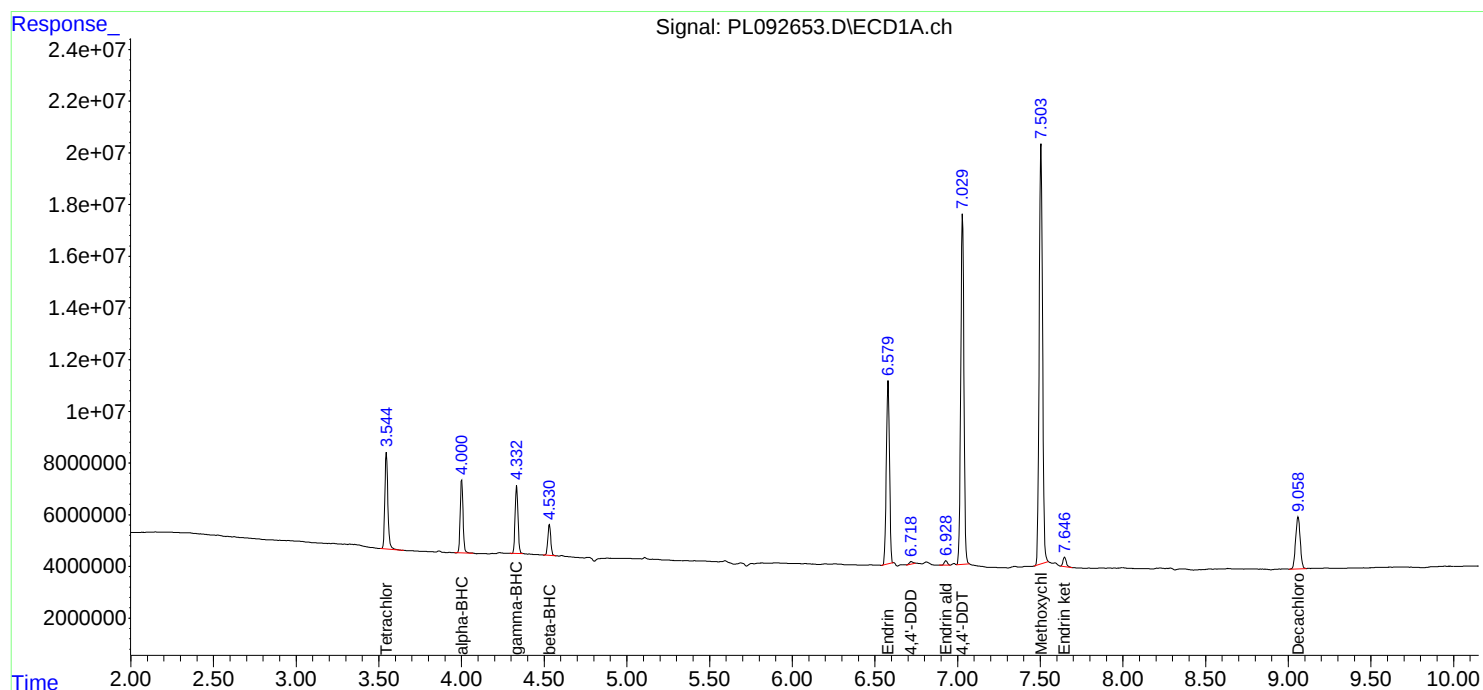
Instrument :
ECD_L
ClientSampleId :
PEM

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 10/29/2024
Supervised By : Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:21:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:19:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: AECO02

Lab Code: CHEM Case No.: P4921 SAS No.: P4921 SDG NO.: P4921

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL093192.D Date Analyzed: 11/21/2024

Lab Sample No.(PEM): PEM Time Analyzed: 09:38

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	9.059	8.960	9.160	19.070	20.000	-4.7
Tetrachloro-m-xylene	3.537	3.490	3.590	22.160	20.000	10.8
alpha-BHC	3.993	3.940	4.040	11.320	10.000	13.2
beta-BHC	4.524	4.470	4.570	11.310	10.000	13.1
gamma-BHC (Lindane)	4.325	4.270	4.380	11.050	10.000	10.5
Endrin	6.574	6.500	6.640	42.510	50.000	-15.0
4,4'-DDT	7.024	6.950	7.090	86.170	100.000	-13.8
Methoxychlor	7.501	7.430	7.570	198.410	250.000	-20.6

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL093192.D Date Analyzed: 11/21/2024

Lab Sample No.(PEM): PEM Time Analyzed: 09:38

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	7.915	7.810	8.020	21.550	20.000	7.8
Tetrachloro-m-xylene	2.774	2.720	2.820	21.310	20.000	6.6
alpha-BHC	3.277	3.230	3.330	10.230	10.000	2.3
beta-BHC	3.907	3.860	3.960	11.220	10.000	12.2
gamma-BHC (Lindane)	3.607	3.560	3.660	9.850	10.000	-1.5
Endrin	5.639	5.570	5.710	49.050	50.000	-1.9
4,4'-DDT	6.038	5.970	6.110	105.860	100.000	5.9
Methoxychlor	6.613	6.540	6.680	241.900	250.000	-3.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
 Data File : PL093192.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Nov 2024 09:38
 Operator : AR\AJ
 Sample : PEM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PEM

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 21 23:27:26 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 18:58:23 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.537	2.774	54289131	57999896	22.157	21.314
28) SA Decachlor...	9.059	7.915	36700568	58801566	19.070	21.545
Target Compounds						
2) A alpha-BHC	3.993	3.277	38382980	40828139	11.317	10.232
3) MA gamma-BHC...	4.325	3.607	36028185	38033474	11.053m	9.855
6) B beta-BHC	4.524	3.907	16353660	18467367	11.314	11.218
12) B 4,4'-DDE	6.188	5.234	483707	1054661	0.204m	0.327 #
14) MA Endrin	6.574	5.639	96791653	141.9E6	42.515	49.047
16) A 4,4'-DDD	6.709	5.787	7782051	10789078	4.054m	4.333
17) MA 4,4'-DDT	7.024	6.038	178.3E6	284.0E6	86.168	105.863
18) B Endrin al...	6.923	6.112	5384536	7274108	2.867m	3.153m
20) A Methoxychlor	7.501	6.613	226.2E6	345.4E6	198.411	241.899
21) B Endrin ke...	7.644	6.842	8476752	13581987	3.499	4.426 #

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093192.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 09:38
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

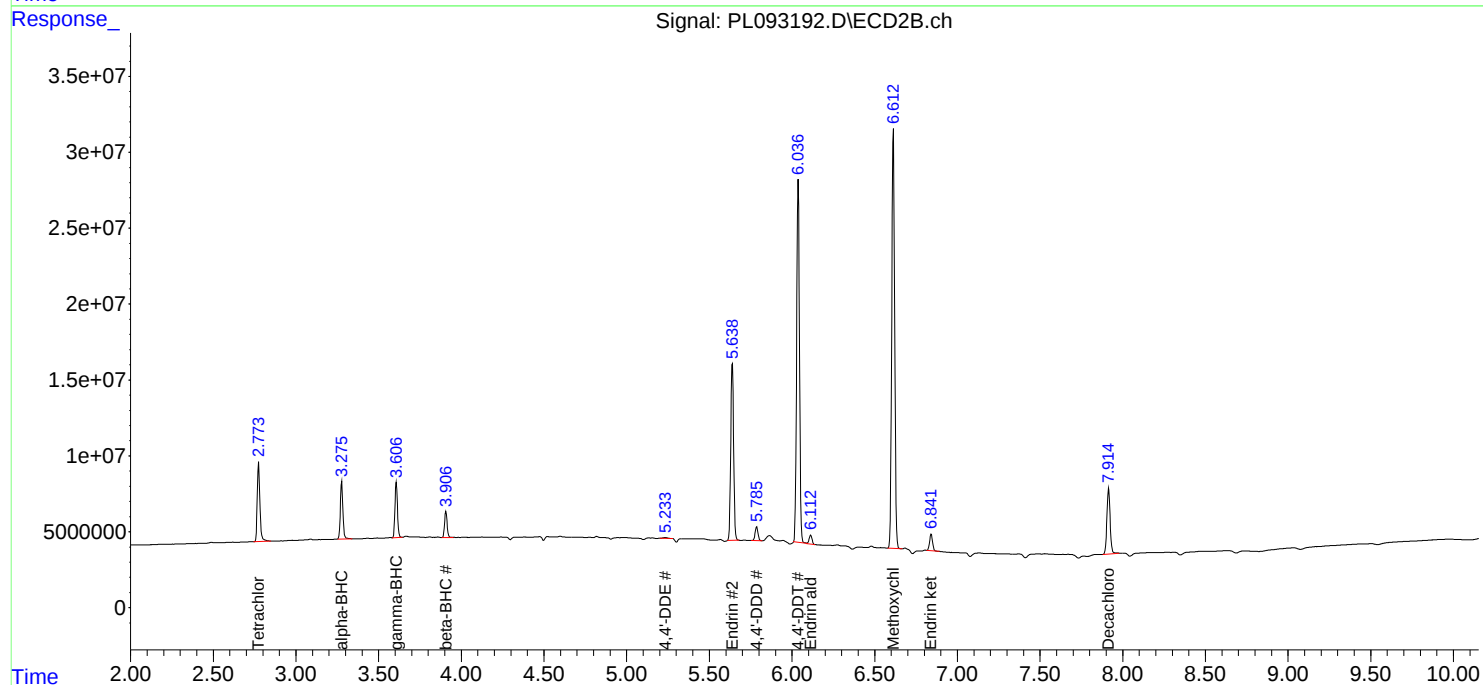
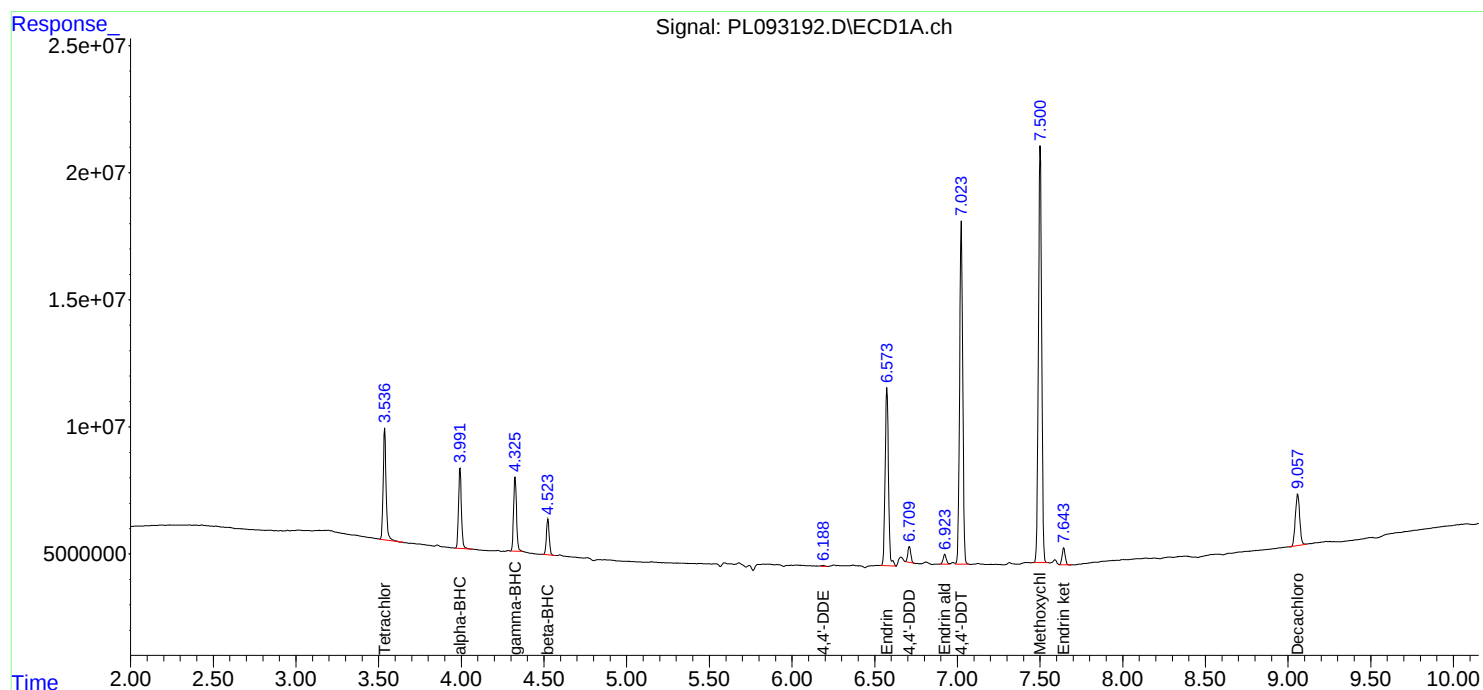
Instrument :
ECD_L
ClientSampleId :
PEM

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:27:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092654.D
Acq On : 28 Oct 2024 14:29
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Title : GC Extractables
Last Update : Mon Oct 28 18:58:23 2024
Integrator: ChemStation

RT#1	RT#2	Resolution
3.540	5.940	100.00%
5.940	6.070	100.00%
6.070	6.193	100.00%
6.193	6.345	100.00%
6.345	7.158	100.00%
7.158	7.499	100.00%
7.499	7.643	100.00%
7.643	9.054	100.00%

Signal #2

2.778	4.982	100.00%
4.982	5.102	100.00%
5.102	5.235	100.00%
5.235	5.366	100.00%
5.366	6.338	100.00%
6.338	6.615	100.00%
6.615	6.844	100.00%
6.844	7.916	100.00%

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092654.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 14:29
 Operator : AR\AJ
 Sample : RESCHK
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 RESCHK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 17:21:40 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 17:19:58 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.540	2.778	48587926	52085719	19.830	19.141
28)	SA Decachlor...	9.054	7.916	38629596	53476121	20.072	19.594
Target Compounds							
9)	A Endosulfan I	6.070	5.102	26602716	28047383	10.635	9.186
10)	B gamma-Chl...	5.940	4.982	28607831	32626788	10.752	9.705
12)	B 4,4'-DDE	6.193	5.235	47717989	61582025	20.141	19.115
13)	MA Dieldrin	6.345	5.366	51856039	61668549	19.676	18.462
19)	B Endosulfa...	7.158	6.338	40592527	50485467	18.703	18.720
20)	A Methoxychlor	7.499	6.615	100.3E6	134.2E6	87.976	93.949
21)	B Endrin ke...	7.643	6.844	47240044	57600618	19.498	18.770

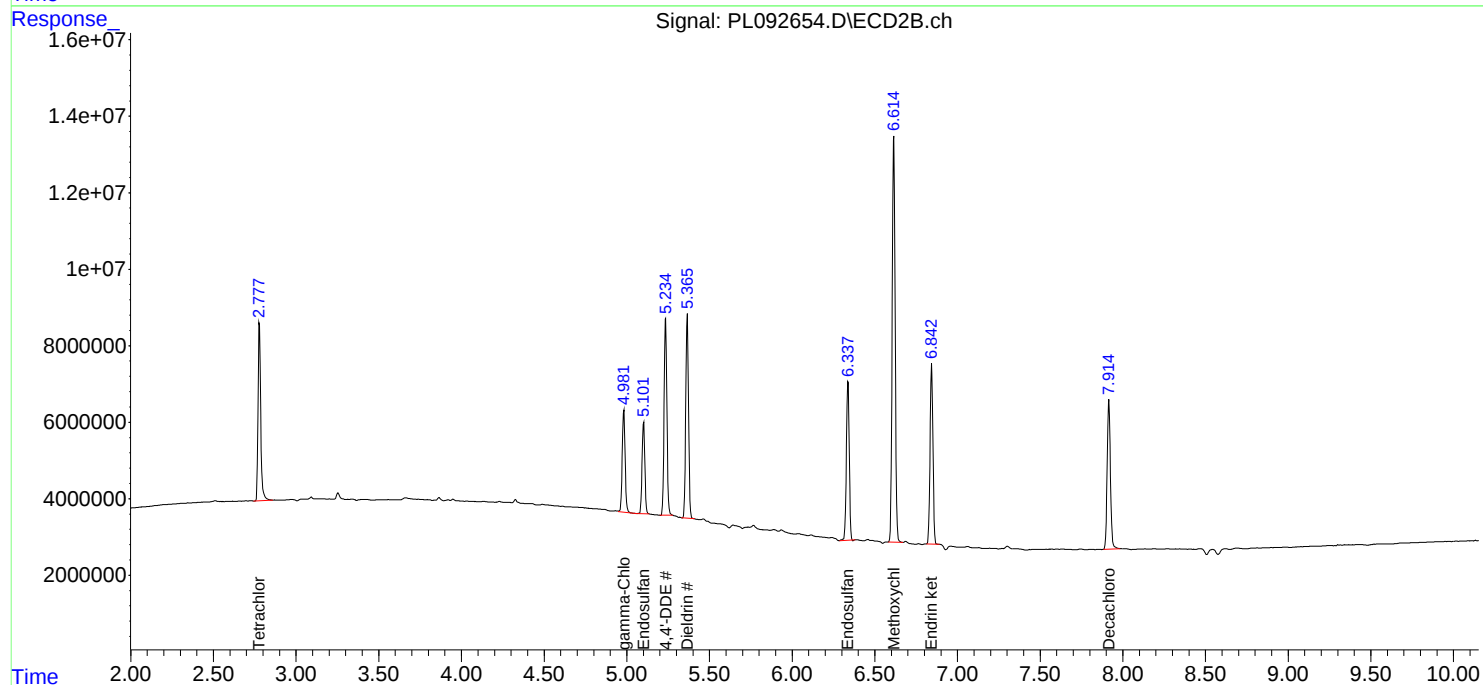
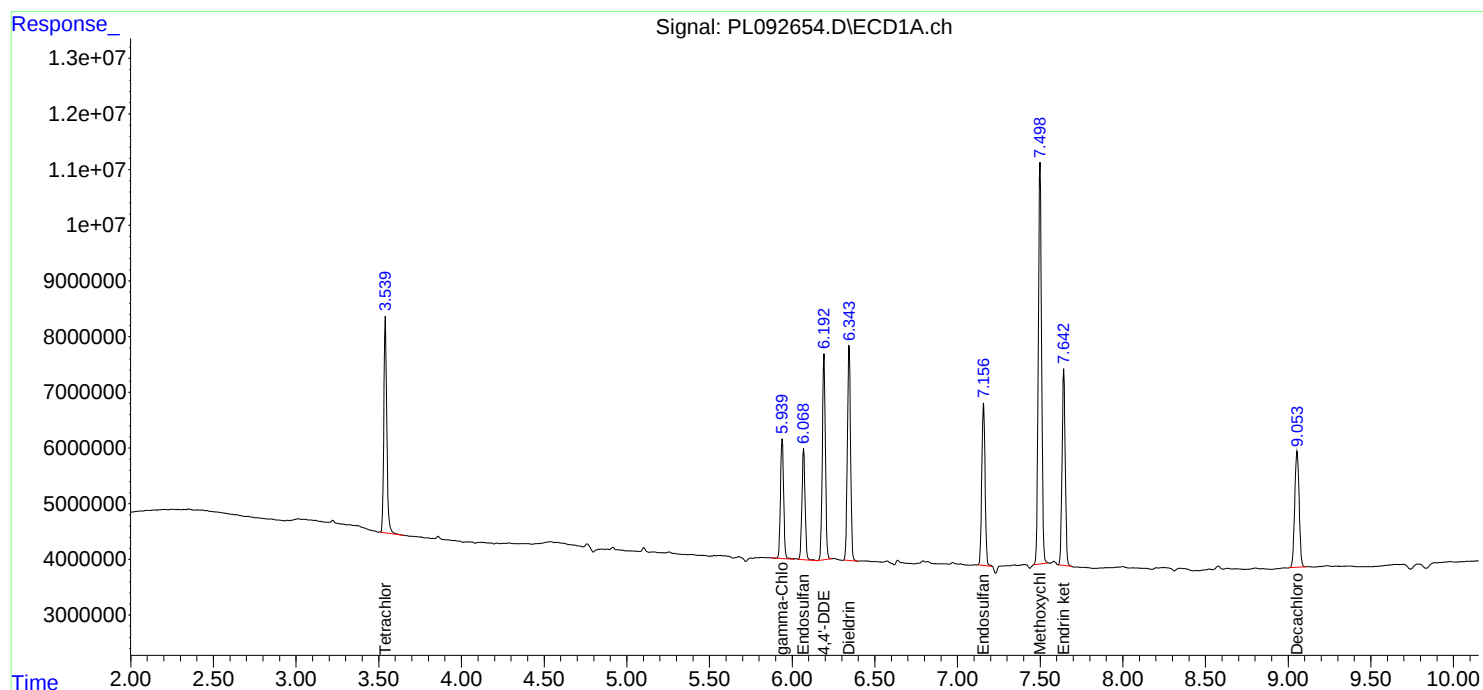
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092654.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 14:29
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
RESCHK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:21:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:19:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Analytical Sequence

Client: AECOM	SDG No.: P4921
Project: Meeker Ave Plumes Superfund Site RI FS	Instrument ID: ECD_L
GC Column: ZB-MR2	ID: 0.32 (mm) Inst. Calib. Date(s): 10/28/2024 10/28/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
LBLK	LBLK	10/28/2024	13:55	PL092652.D	9.05	3.54
PEM	PEM	10/28/2024	14:16	PL092653.D	9.06	3.55
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	9.05	3.54
PSTDICCC100	PSTDICCC100	10/28/2024	14:43	PL092655.D	9.05	3.54
PSTDICCC075	PSTDICCC075	10/28/2024	14:56	PL092656.D	9.05	3.54
PSTDICCC050	PSTDICCC050	10/28/2024	15:09	PL092657.D	9.05	3.54
PSTDICCC025	PSTDICCC025	10/28/2024	15:23	PL092658.D	9.05	3.54
PSTDICCC005	PSTDICCC005	10/28/2024	15:36	PL092659.D	9.05	3.54
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	9.06	3.54
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	9.05	3.54
LBLK	LBLK	11/21/2024	09:25	PL093191.D	9.06	3.54
PEM	PEM	11/21/2024	09:38	PL093192.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/21/2024	09:51	PL093193.D	9.06	3.54
PB165164BL	PB165164BL	11/21/2024	10:35	PL093195.D	9.06	3.54
PB165164BS	PB165164BS	11/21/2024	10:48	PL093196.D	9.06	3.54
PB165123TB	PB165123TB	11/21/2024	11:15	PL093198.D	9.06	3.54
WB-310-BOTMS	P4892-03MS	11/21/2024	11:41	PL093200.D	9.06	3.54
WB-310-BOTMSD	P4892-03MSD	11/21/2024	11:54	PL093201.D	9.06	3.54
WC-11-A-202411	P4921-01	11/21/2024	12:08	PL093202.D	9.06	3.54
LBLK	LBLK	11/21/2024	14:53	PL093210.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/21/2024	15:07	PL093211.D	9.06	3.54

Analytical Sequence

Client: AECOM	SDG No.: P4921
Project: Meeker Ave Plumes Superfund Site RI FS	Instrument ID: ECD_L
GC Column: ZB-MR1	ID: 0.32 (mm) Inst. Calib. Date(s): 10/28/2024 10/28/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
LBLK	LBLK	10/28/2024	13:55	PL092652.D	7.92	2.78
PEM	PEM	10/28/2024	14:16	PL092653.D	7.92	2.78
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	7.92	2.78
PSTDICCC100	PSTDICCC100	10/28/2024	14:43	PL092655.D	7.92	2.78
PSTDICCC075	PSTDICCC075	10/28/2024	14:56	PL092656.D	7.92	2.78
PSTDICCC050	PSTDICCC050	10/28/2024	15:09	PL092657.D	7.92	2.78
PSTDICCC025	PSTDICCC025	10/28/2024	15:23	PL092658.D	7.92	2.78
PSTDICCC005	PSTDICCC005	10/28/2024	15:36	PL092659.D	7.92	2.78
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	7.92	2.78
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	7.92	2.78
LBLK	LBLK	11/21/2024	09:25	PL093191.D	7.92	2.78
PEM	PEM	11/21/2024	09:38	PL093192.D	7.92	2.77
PSTDCCC050	PSTDCCC050	11/21/2024	09:51	PL093193.D	7.92	2.77
PB165164BL	PB165164BL	11/21/2024	10:35	PL093195.D	7.92	2.77
PB165164BS	PB165164BS	11/21/2024	10:48	PL093196.D	7.92	2.77
PB165123TB	PB165123TB	11/21/2024	11:15	PL093198.D	7.92	2.77
WB-310-BOTMS	P4892-03MS	11/21/2024	11:41	PL093200.D	7.91	2.77
WB-310-BOTMSD	P4892-03MSD	11/21/2024	11:54	PL093201.D	7.91	2.77
WC-11-A-202411	P4921-01	11/21/2024	12:08	PL093202.D	7.91	2.77
LBLK	LBLK	11/21/2024	14:53	PL093210.D	7.92	2.77
PSTDCCC050	PSTDCCC050	11/21/2024	15:07	PL093211.D	7.91	2.77

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165164BS

Contract: AECO02

Lab Code: CHEM

Case No.: P4921

SAS No.: P4921

SDG NO.: P4921

Lab Sample ID: PB165164BS

Date(s) Analyzed: 11/21/2024

11/21/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2

ID: 0.32 (mm)

GC Column: (2): ZB-MR1

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Methoxychlor	1	7.50	7.45	7.55	0.43	14
	2	6.61	6.56	6.66	0.50	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.48	4.1
	2	3.61	3.56	3.66	0.50	
Heptachlor	1	4.91	4.86	4.96	0.49	6.3
	2	3.95	3.90	4.00	0.52	
Heptachlor epoxide	1	5.68	5.63	5.73	0.47	11.6
	2	4.73	4.68	4.78	0.53	
Endrin	1	6.57	6.52	6.62	0.42	16.5
	2	5.64	5.59	5.69	0.49	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-310-BOTMS

Contract: AECO02

Lab Code: CHEM

Case No.: P4921

SAS No.: P4921

SDG NO.: P4921

Lab Sample ID: P4892-03MS

Date(s) Analyzed: 11/21/2024

11/21/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2

ID: 0.32 (mm)

GC Column: (2): ZB-MR1

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Methoxychlor	1	7.50	7.45	7.55	4.70	13.9
	2	6.61	6.56	6.66	5.40	
gamma-BHC (Lindane)	1	4.32	4.27	4.37	5.00	7.7
	2	3.61	3.56	3.66	5.40	
Heptachlor	1	4.91	4.86	4.96	5.10	7.5
	2	3.95	3.90	4.00	5.50	
Heptachlor epoxide	1	5.68	5.63	5.73	5.00	11.3
	2	4.73	4.68	4.78	5.60	
Endrin	1	6.57	6.52	6.62	4.80	17.1
	2	5.64	5.59	5.69	5.70	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-310-BOTMSD

Contract: AECO02

Lab Code: CHEM

Case No.: P4921

SAS No.: P4921

SDG NO.: P4921

Lab Sample ID: P4892-03MSD

Date(s) Analyzed: 11/21/2024

11/21/2024

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2

ID: 0.32 (mm)

GC Column: (2): ZB-MR1

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Methoxychlor	1	7.50	7.45	7.55	4.60	14.1
	2	6.61	6.56	6.66	5.30	
gamma-BHC (Lindane)	1	4.32	4.27	4.37	5.00	5.8
	2	3.61	3.56	3.66	5.30	
Heptachlor	1	4.91	4.86	4.96	5.10	5.7
	2	3.95	3.90	4.00	5.40	
Heptachlor epoxide	1	5.68	5.63	5.73	5.00	9.5
	2	4.73	4.68	4.78	5.50	
Endrin	1	6.57	6.52	6.62	4.80	17.1
	2	5.64	5.59	5.69	5.70	



QC SAMPLE DATA

Report of Analysis

Client:	AECOM		Date Collected:		
Project:	Meeker Ave Plumes Superfund Site RI FS		Date Received:		
Client Sample ID:	PB165164BL		SDG No.:	P4921	
Lab Sample ID:	PB165164BL		Matrix:	TCLP	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093195.D	1	11/20/24 12:00	11/21/24 10:35	PB165164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.9		43 - 140	110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		77 - 126	103%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
 Data File : PL093195.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Nov 2024 10:35
 Operator : AR\AJ
 Sample : PB165164BL
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PB165164BL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 21 23:30:27 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 18:58:23 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.537	2.774	50580812	53181223	20.643	19.544
28) SA Decachlor...	9.058	7.915	37017425	59811418	19.234	21.915

Target Compounds

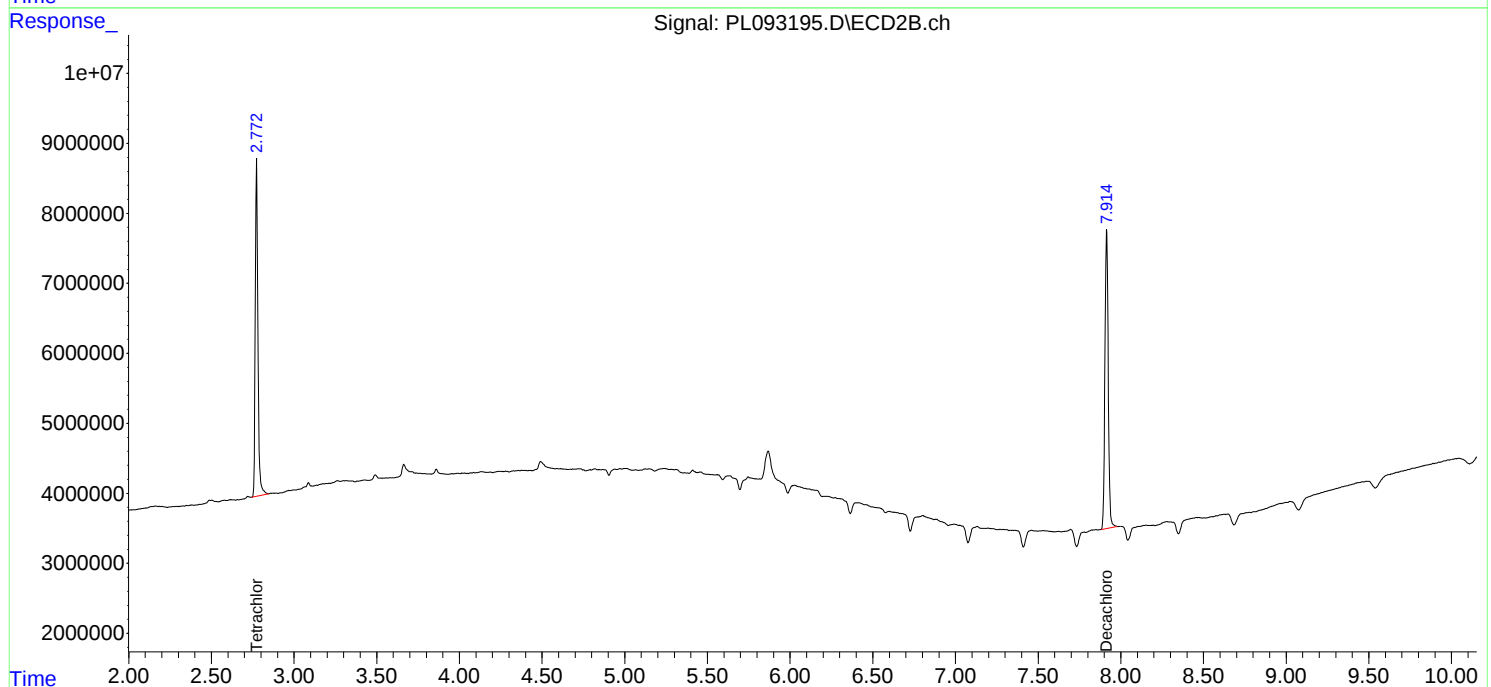
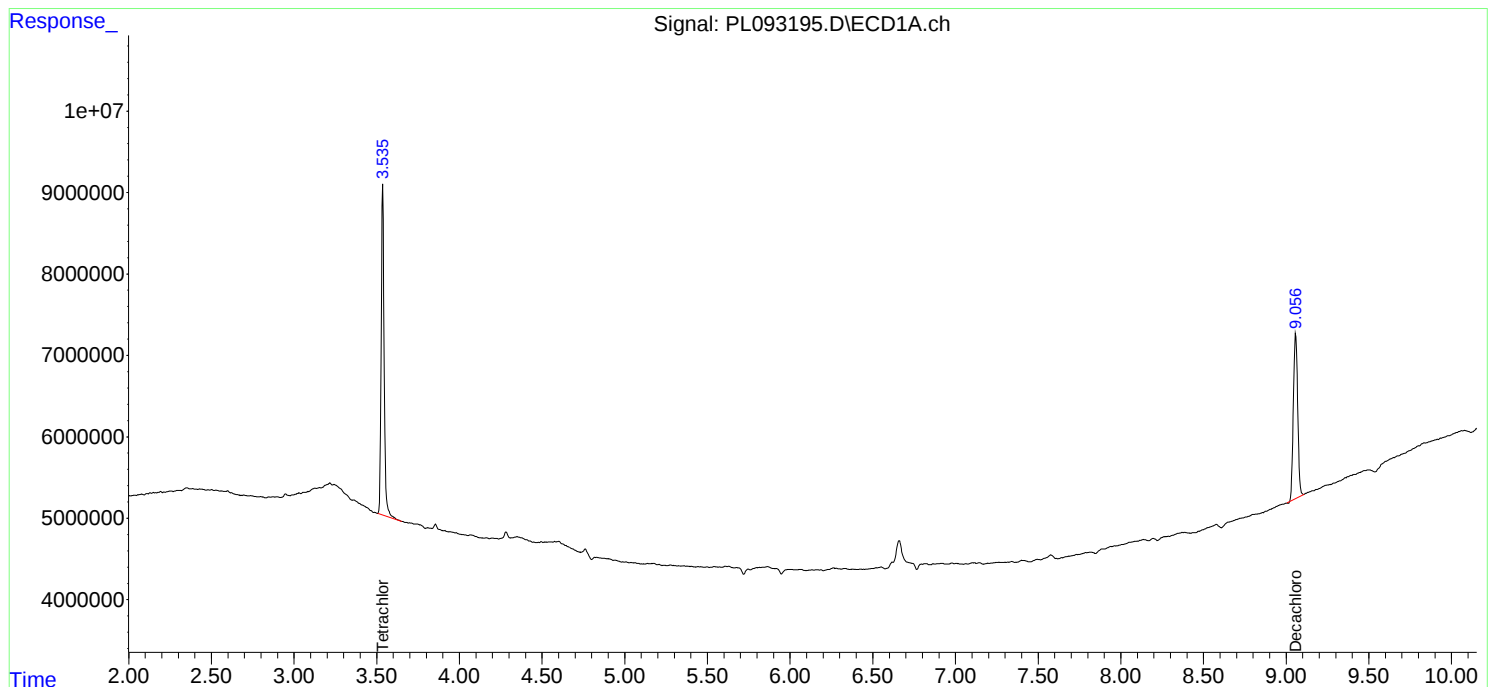
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

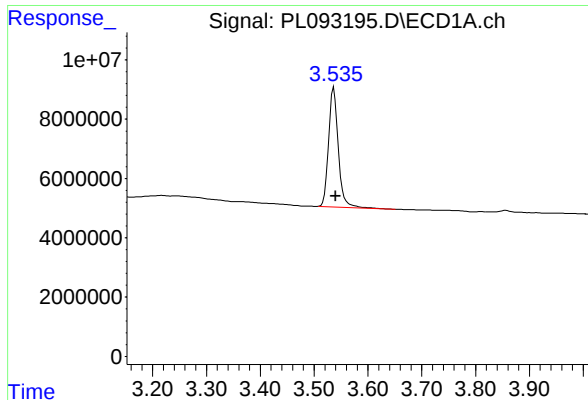
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093195.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 10:35
Operator : AR\AJ
Sample : PB165164BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB165164BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:30:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

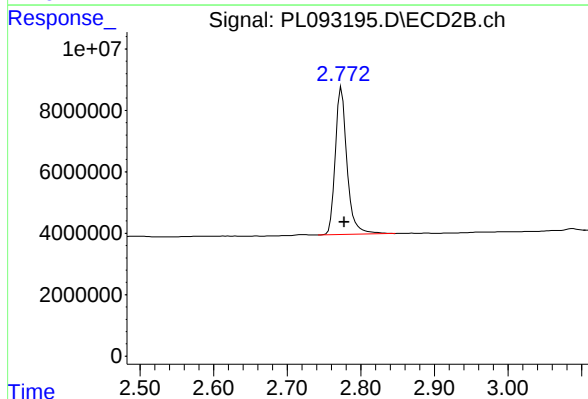




#1 Tetrachloro-m-xylene

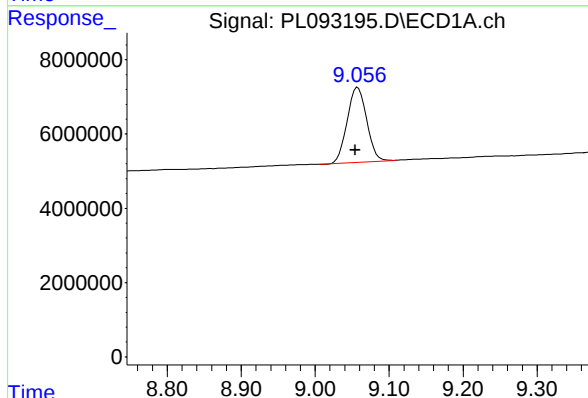
R.T.: 3.537 min
Delta R.T.: -0.003 min
Response: 50580812
Conc: 20.64 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB165164BL



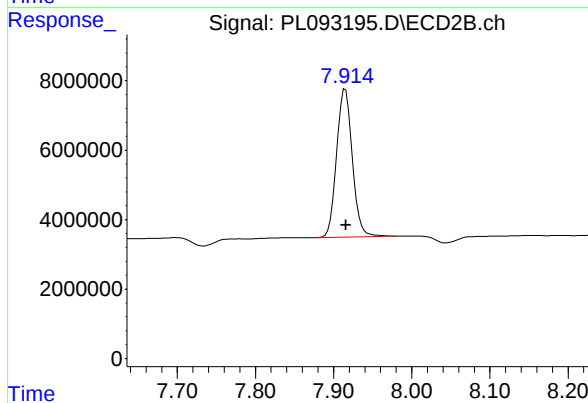
#1 Tetrachloro-m-xylene

R.T.: 2.774 min
Delta R.T.: -0.004 min
Response: 53181223
Conc: 19.54 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.058 min
Delta R.T.: 0.004 min
Response: 37017425
Conc: 19.23 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: 0.000 min
Response: 59811418
Conc: 21.92 ng/ml

Report of Analysis

Client:	AECOM	Date Collected:	10/28/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	10/28/24
Client Sample ID:	PIBLK-PL092652.D	SDG No.:	P4921
Lab Sample ID:	I.BLK-PL092652.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092652.D	1		10/28/24	PL102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.7		43 - 140	114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		77 - 126	108%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
 Data File : PL092652.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Oct 2024 13:55
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 28 17:20:49 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 17:19:58 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.539	2.777	52846066	55504223	21.568	20.397
28) SA Decachlor...	9.052	7.915	43705517	59287776	22.709	21.723

Target Compounds

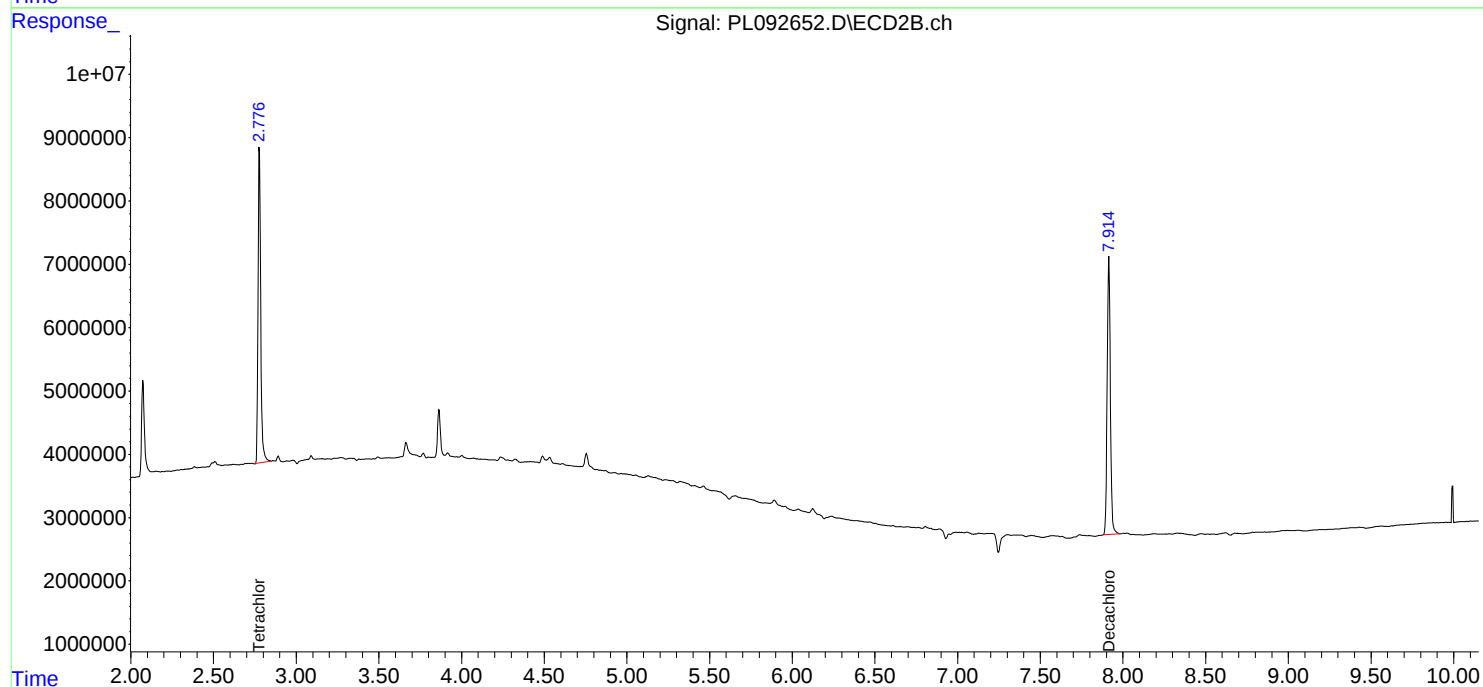
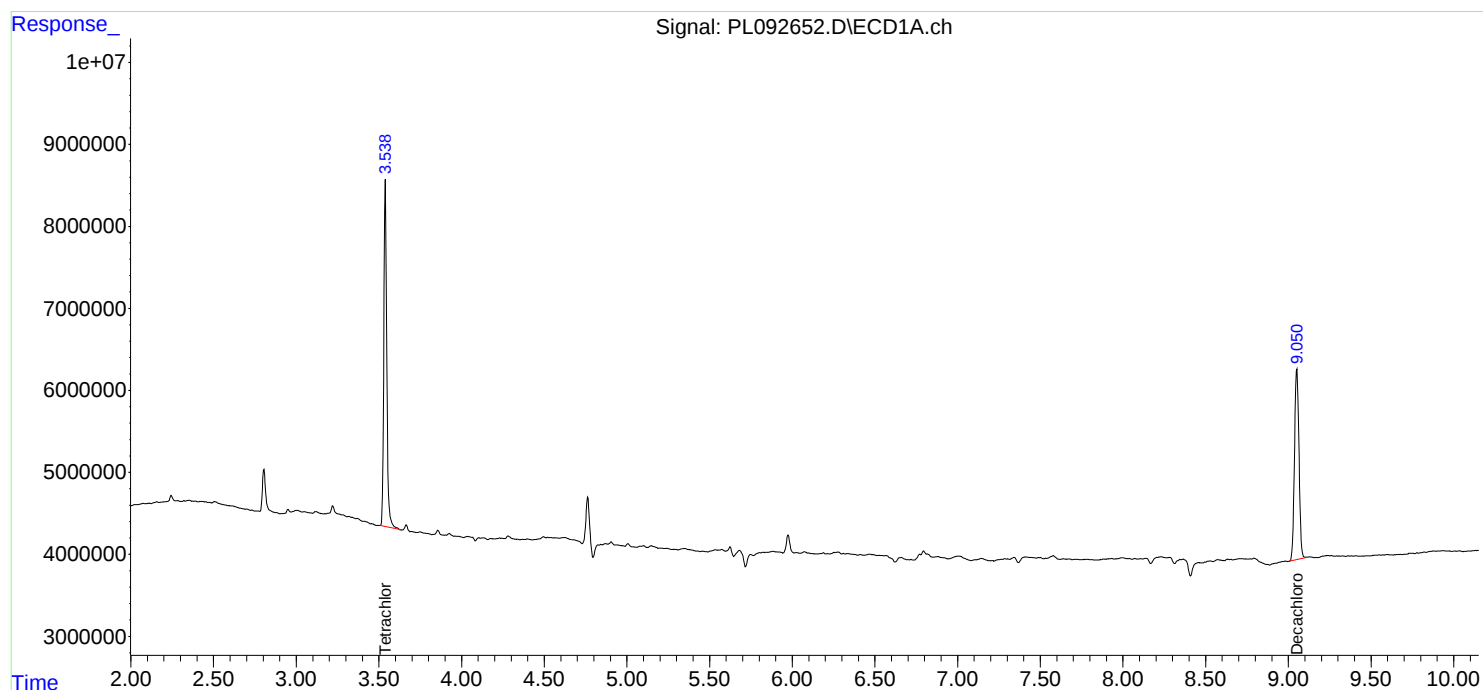
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

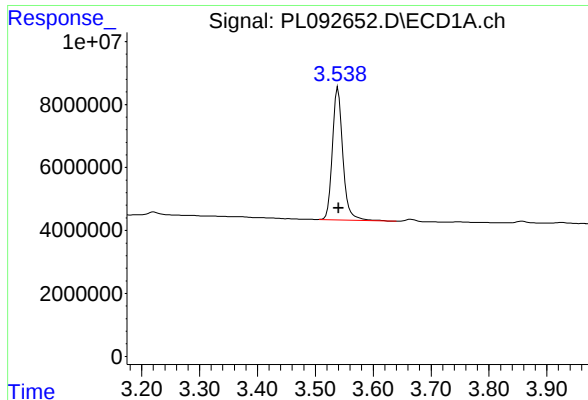
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092652.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 13:55
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:20:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:19:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

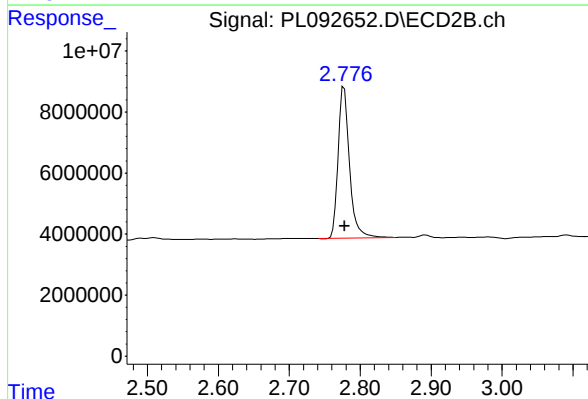




#1 Tetrachloro-m-xylene

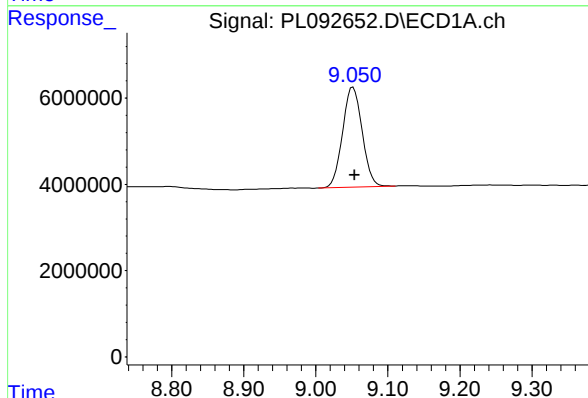
R.T.: 3.539 min
Delta R.T.: 0.000 min
Response: 52846066
Conc: 21.57 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



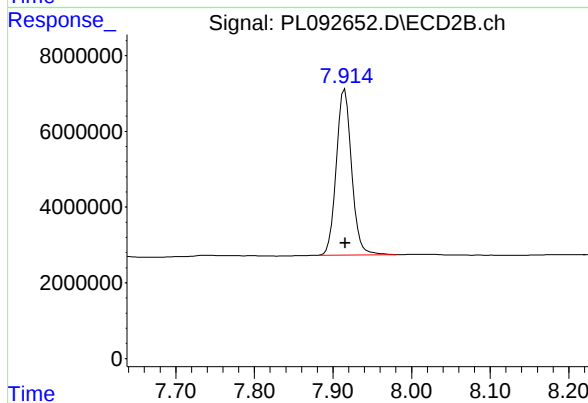
#1 Tetrachloro-m-xylene

R.T.: 2.777 min
Delta R.T.: 0.000 min
Response: 55504223
Conc: 20.40 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.052 min
Delta R.T.: -0.002 min
Response: 43705517
Conc: 22.71 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: 0.000 min
Response: 59287776
Conc: 21.72 ng/ml

Report of Analysis

Client:	AECOM	Date Collected:	11/21/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/21/24
Client Sample ID:	PIBLK-PL093191.D	SDG No.:	P4921
Lab Sample ID:	I.BLK-PL093191.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Pesticide
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093191.D	1		11/21/24	PL112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.3		43 - 140	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.9		77 - 126	110%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
 Data File : PL093191.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Nov 2024 09:25
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 21 23:26:19 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 18:58:23 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.538	2.775	53710546	57227876	21.921	21.031
28) SA Decachlor...	9.060	7.916	37777672	57992267	19.629	21.248

Target Compounds

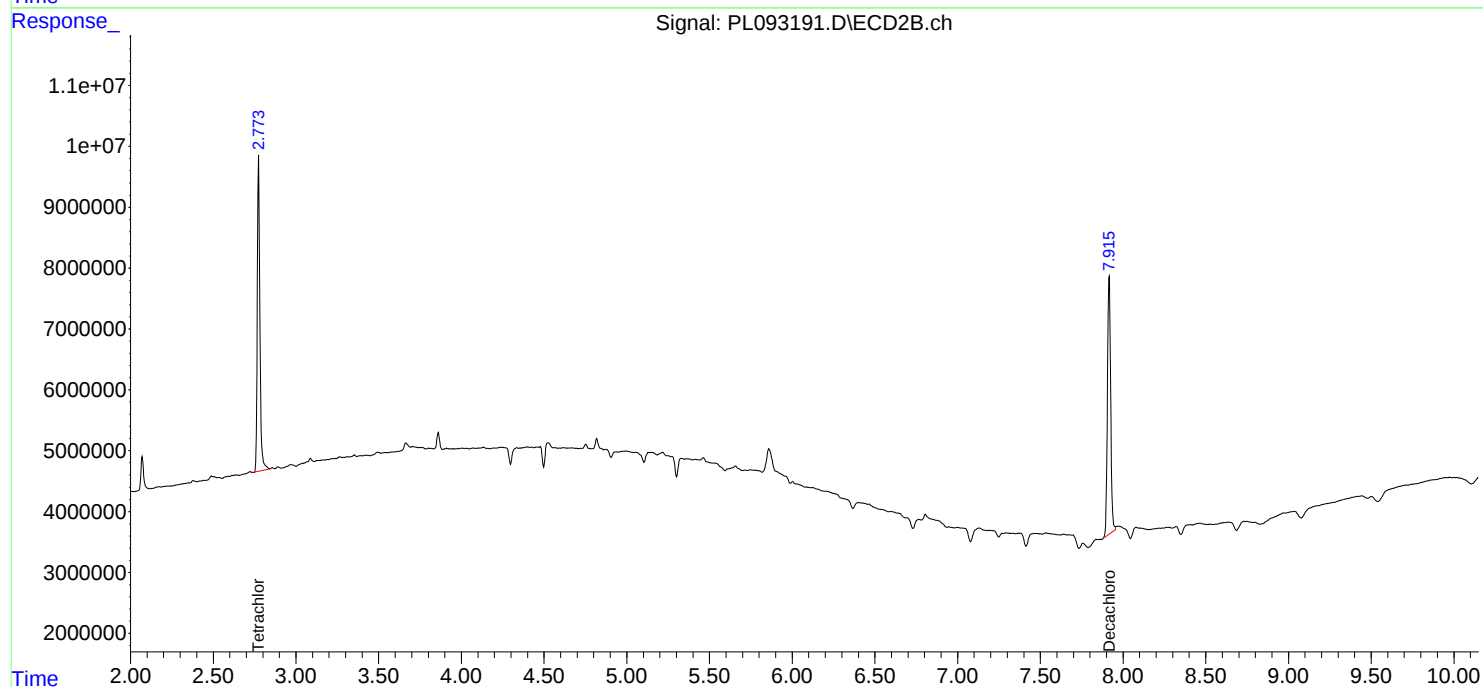
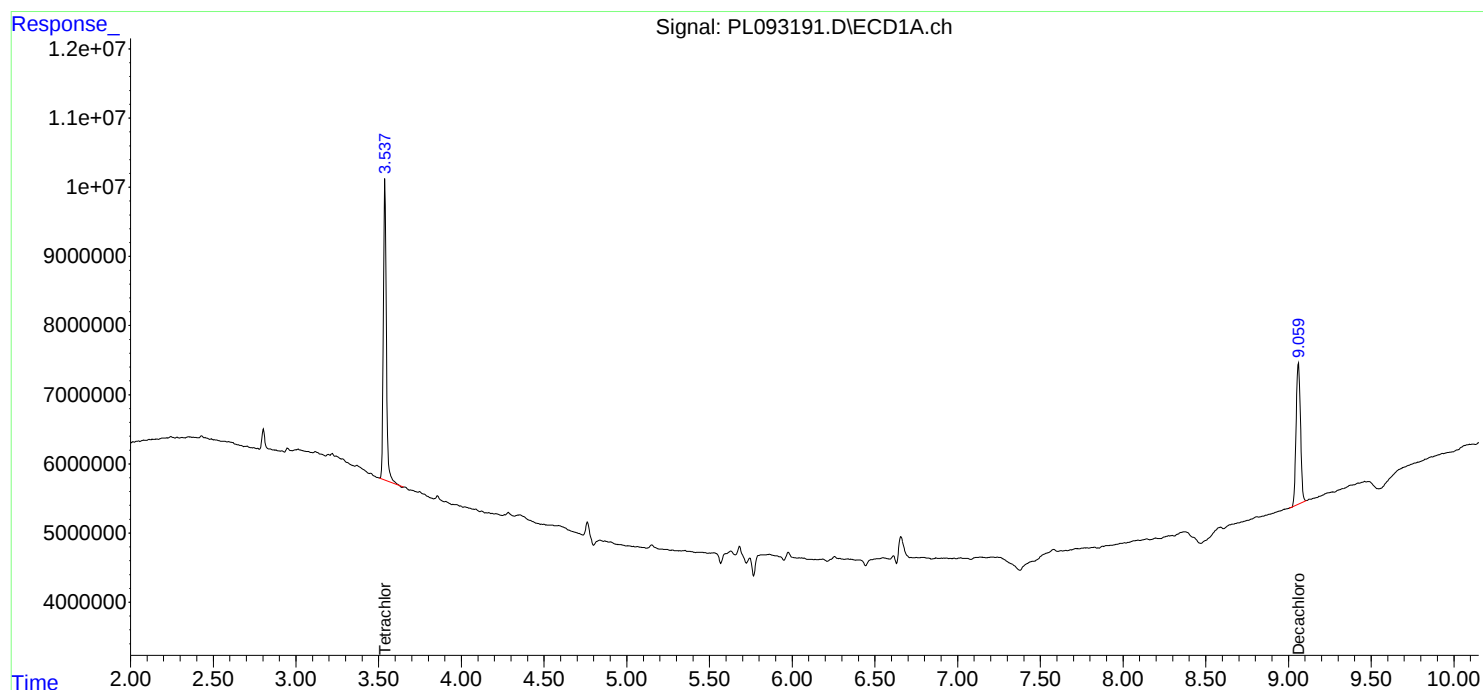
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

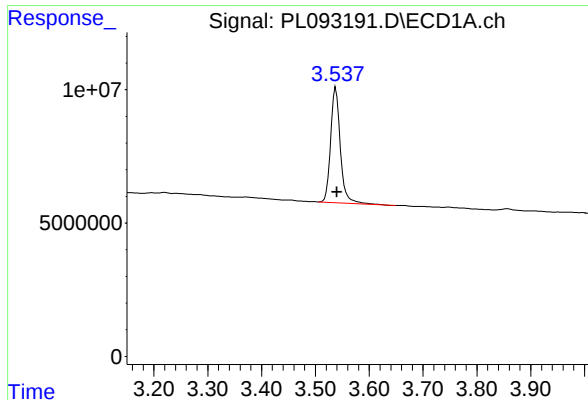
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093191.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 09:25
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:26:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

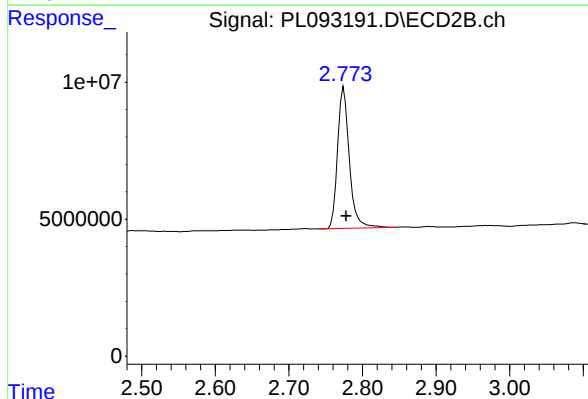




#1 Tetrachloro-m-xylene

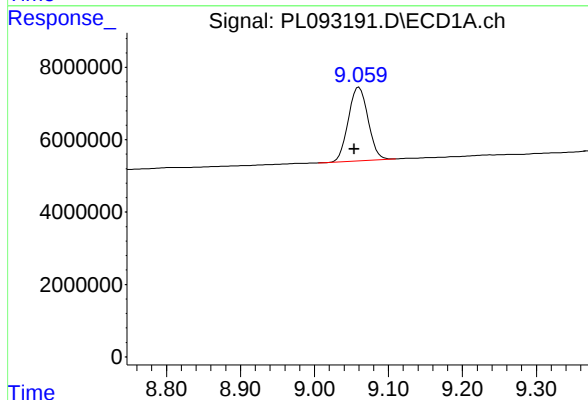
R.T.: 3.538 min
Delta R.T.: -0.002 min
Response: 53710546
Conc: 21.92 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



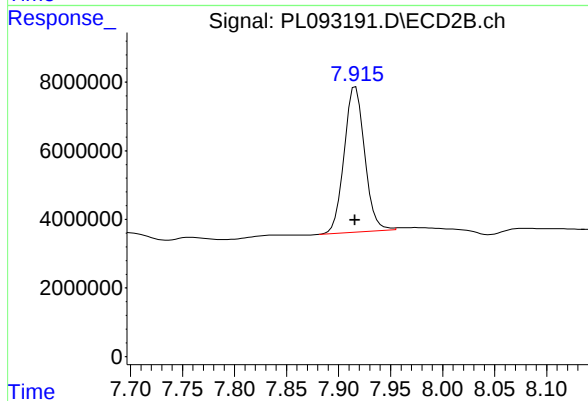
#1 Tetrachloro-m-xylene

R.T.: 2.775 min
Delta R.T.: -0.003 min
Response: 57227876
Conc: 21.03 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.006 min
Response: 37777672
Conc: 19.63 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.916 min
Delta R.T.: 0.000 min
Response: 57992267
Conc: 21.25 ng/ml

Report of Analysis

Client:	AECOM			Date Collected:	11/21/24		
Project:	Meeker Ave Plumes Superfund Site RI FS			Date Received:	11/21/24		
Client Sample ID:	PIBLK-PL093210.D			SDG No.:	P4921		
Lab Sample ID:	I.BLK-PL093210.D			Matrix:	TCLP		
Analytical Method:	SW8081			% Solid:	0		Decanted:
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	10000		uL
Soil Aliquot Vol:	uL			Test:	TCLP Pesticide		
Extraction Type:				Injection Volume :			
GPC Factor :	1.0	PH :					
Prep Method :	3510C						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093210.D	1		11/21/24	PL112124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.8		43 - 140	114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.9		77 - 126	109%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of OC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093210.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 14:53
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:45:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.536	2.773	53601072	57206095	21.876	21.023
28) SA Decachlor...	9.056	7.915	39492909	62304696	20.521	22.829

Target Compounds

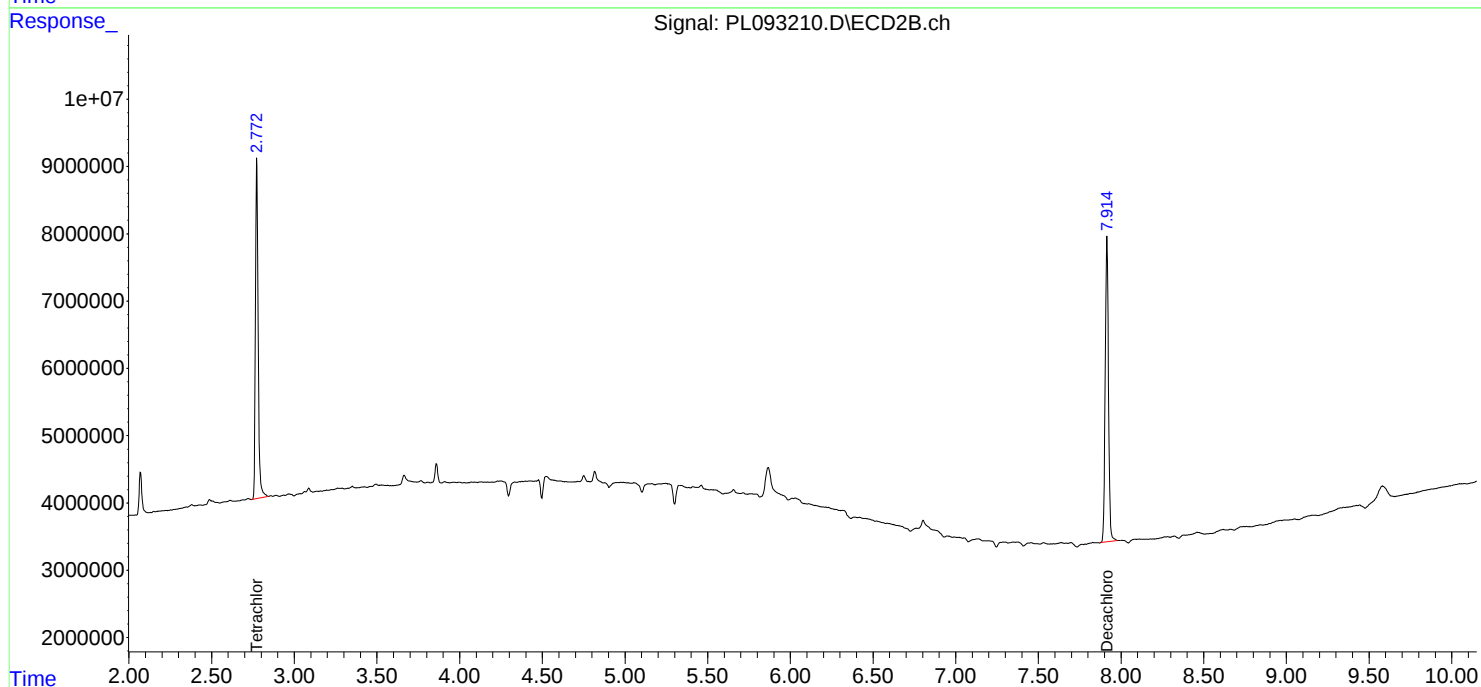
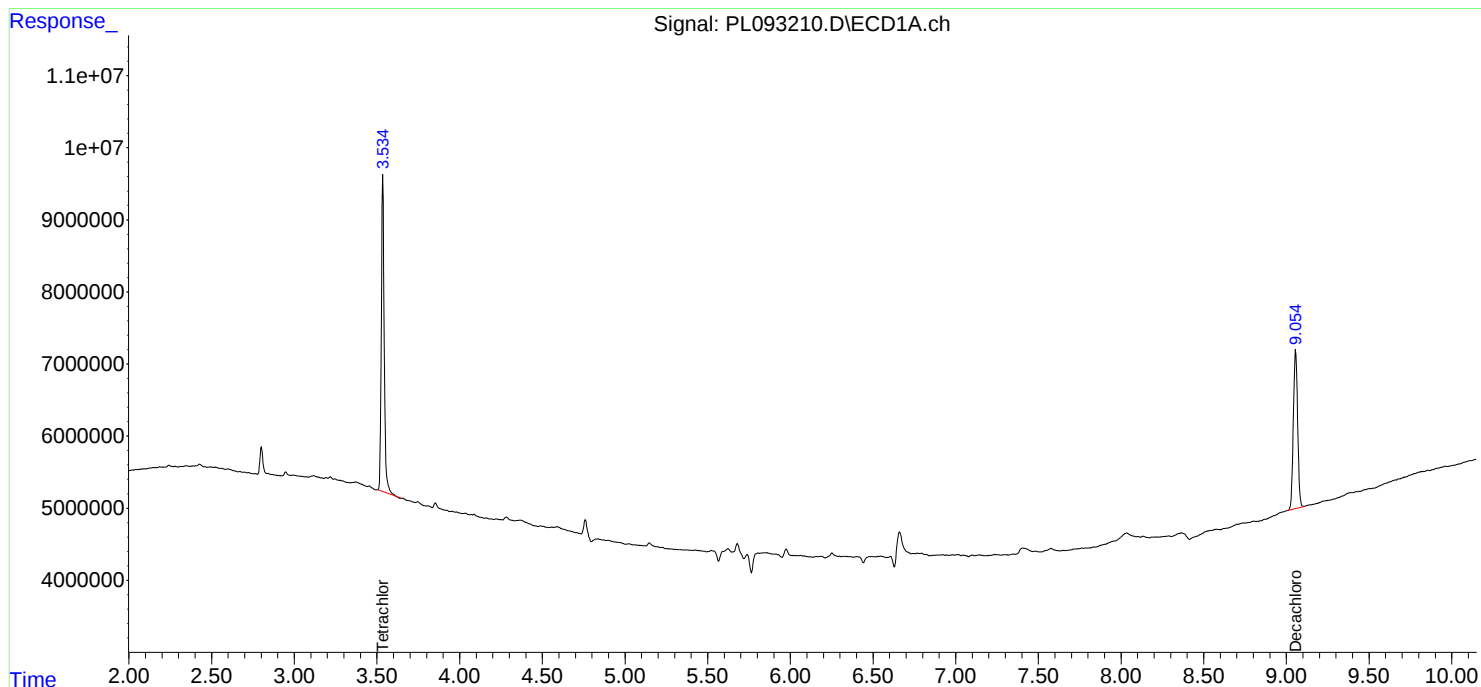
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

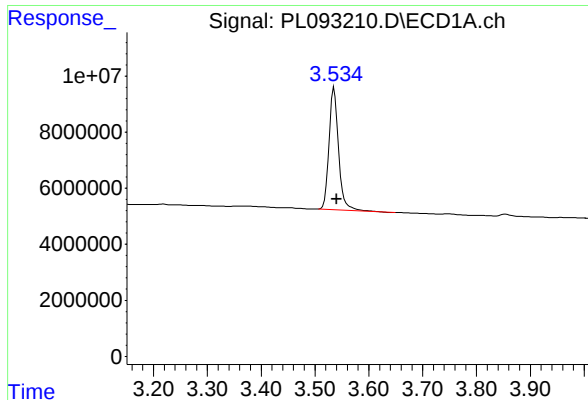
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093210.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 14:53
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:45:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

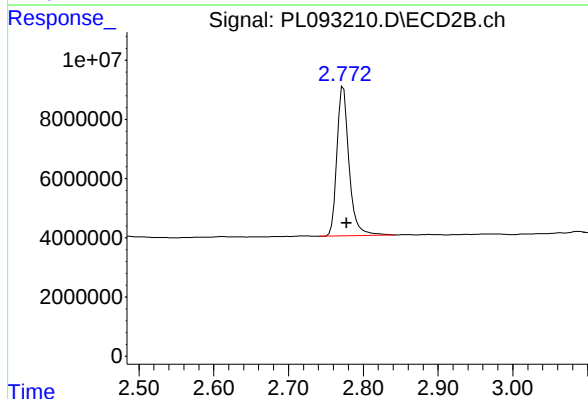




#1 Tetrachloro-m-xylene

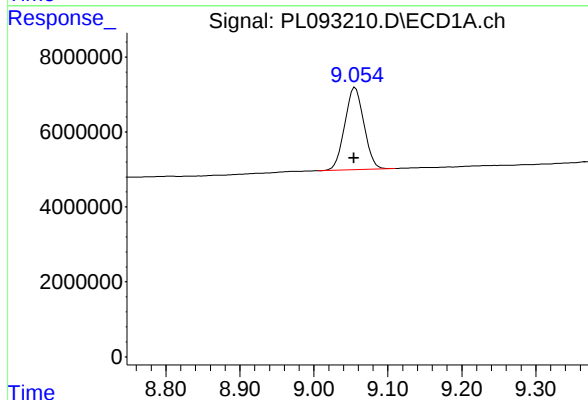
R.T.: 3.536 min
Delta R.T.: -0.004 min
Response: 53601072
Conc: 21.88 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



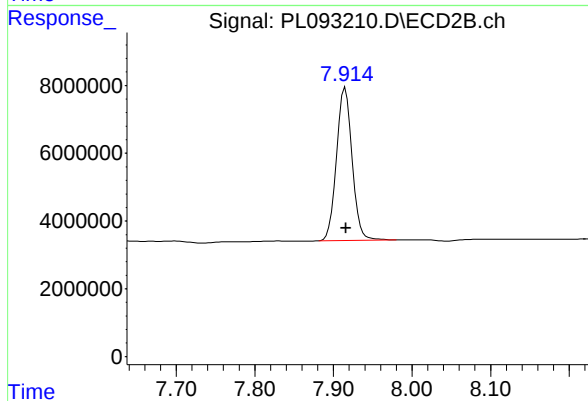
#1 Tetrachloro-m-xylene

R.T.: 2.773 min
Delta R.T.: -0.005 min
Response: 57206095
Conc: 21.02 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.056 min
Delta R.T.: 0.002 min
Response: 39492909
Conc: 20.52 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: 0.000 min
Response: 62304696
Conc: 22.83 ng/ml

Report of Analysis

Client:	AECOM		Date Collected:		
Project:	Meeker Ave Plumes Superfund Site RI FS		Date Received:		
Client Sample ID:	PB165164BS		SDG No.:	P4921	
Lab Sample ID:	PB165164BS		Matrix:	TCLP	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	TCLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093196.D	1	11/20/24 12:00	11/21/24 10:48	PB165164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.50		0.0049	0.050	ug/L
76-44-8	Heptachlor	0.52		0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.53		0.0090	0.050	ug/L
72-20-8	Endrin	0.49		0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.50		0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.7		43 - 140	109%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.0		77 - 126	105%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
 Data File : PL093196.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Nov 2024 10:48
 Operator : AR\AJ
 Sample : PB165164BS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PB165164BS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 21 23:31:16 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 18:58:23 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.536	2.774	51536957	52101821	21.033	19.147
28)	SA Decachlor...	9.056	7.915	38265125	59341842	19.883	21.743
Target Compounds							
2)	A alpha-BHC	3.993	3.277	167.3E6	201.3E6	49.321	50.453
3)	MA gamma-BHC...	4.326	3.607	156.7E6	193.3E6	48.084	50.090
4)	MA Heptachlor	4.914	3.946	146.6E6	196.3E6	48.811	52.014
5)	MB Aldrin	5.255	4.226	140.7E6	188.6E6	46.891m	51.526
6)	B beta-BHC	4.524	3.907	71956913	85705144	49.781	52.061
7)	B delta-BHC	4.771	4.136	126.8E6	162.0E6	40.508	42.149
8)	B Heptachlo...	5.683	4.728	130.6E6	177.4E6	47.278	53.105
9)	A Endosulfan I	6.069	5.099	121.2E6	168.3E6	48.461	55.132
10)	B gamma-Chl...	5.939	4.979	130.1E6	185.3E6	48.902	55.109
11)	B alpha-Chl...	6.018	5.043	129.3E6	181.7E6	48.843	54.636
12)	B 4,4'-DDE	6.192	5.231	118.7E6	181.1E6	50.112	56.208
13)	MA Dieldrin	6.344	5.363	128.4E6	184.7E6	48.713	55.297
14)	MA Endrin	6.574	5.639	95140246	142.7E6	41.789	49.317
15)	B Endosulfa...	6.794	5.934	113.0E6	162.0E6	47.420	57.184
16)	A 4,4'-DDD	6.710	5.787	97876341	149.7E6	50.990	60.102
17)	MA 4,4'-DDT	7.024	6.037	95634392	135.0E6	46.206	50.335
18)	B Endrin al...	6.924	6.113	93811467	131.2E6	49.954	56.883
19)	B Endosulfa...	7.159	6.337	100.8E6	144.9E6	46.429	53.719
20)	A Methoxychlor	7.500	6.613	49326996	71054973	43.269	49.757
21)	B Endrin ke...	7.644	6.842	121.8E6	182.5E6	50.259	59.485
22)	Mirex	8.118	7.023	86775468	129.7E6	43.788	49.715

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093196.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 10:48
Operator : AR\AJ
Sample : PB165164BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PB165164BS

Manual Integrations

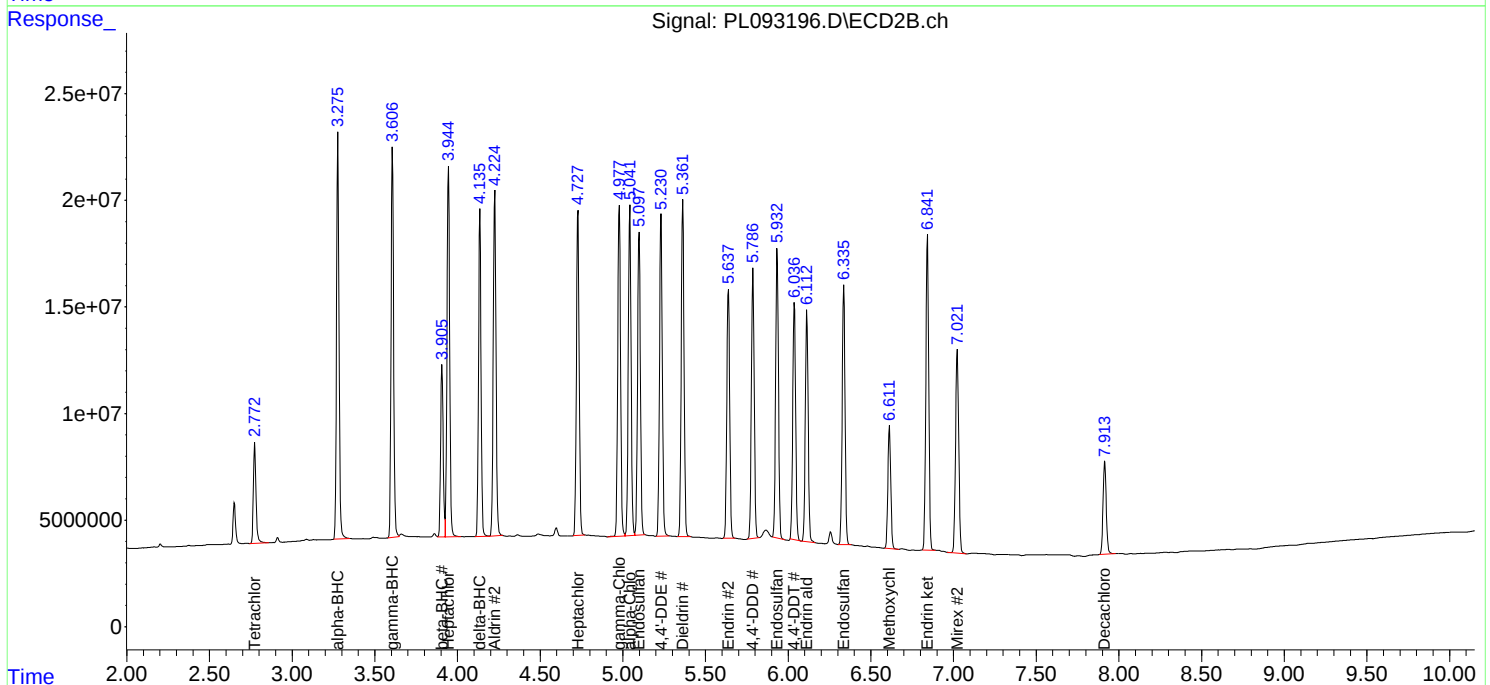
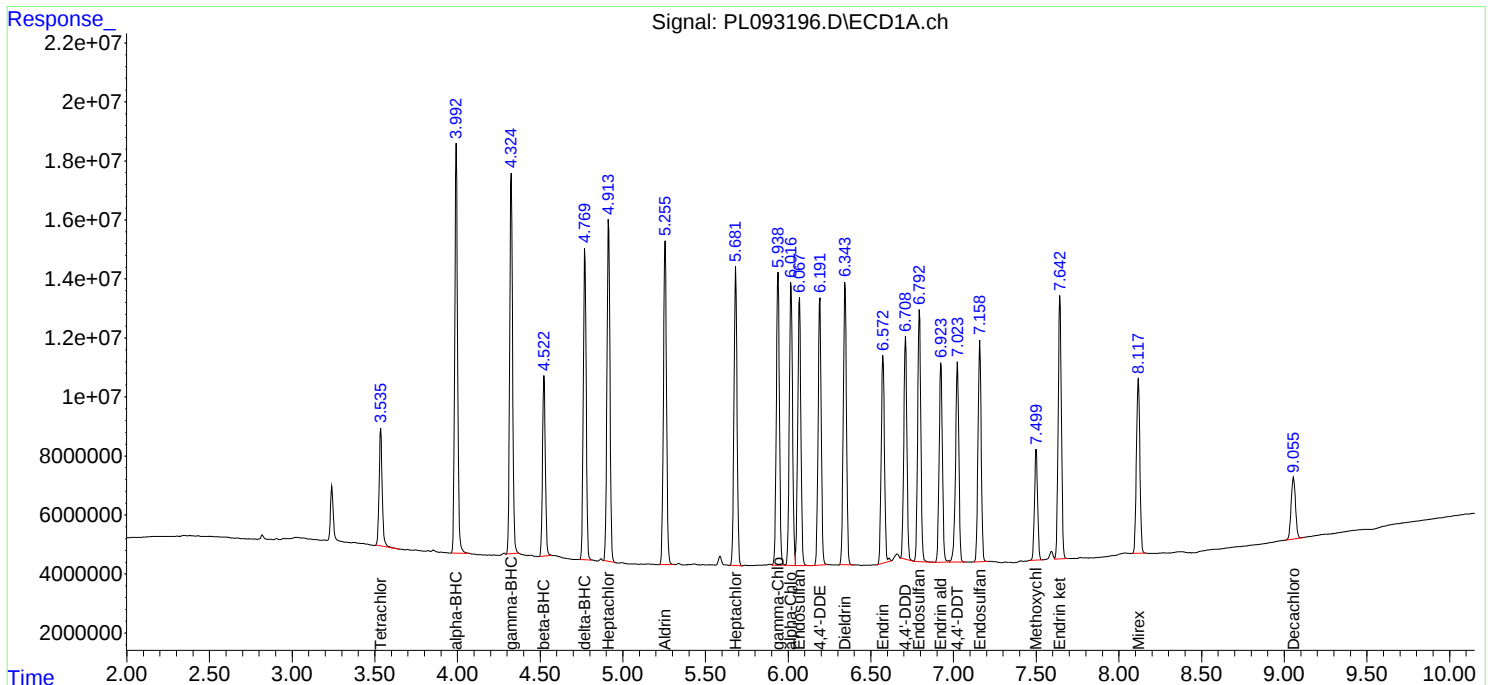
APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:31:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Report of Analysis

Client:	AECOM	Date Collected:	11/15/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4921
Lab Sample ID:	P4892-03MS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Pesticide
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093200.D	1	11/20/24 12:00	11/21/24 11:41	PB165164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.40		0.049	0.50	ug/L
76-44-8	Heptachlor	5.50		0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.60		0.090	0.50	ug/L
72-20-8	Endrin	5.70		0.043	0.50	ug/L
72-43-5	Methoxychlor	5.40		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.6		43 - 140	103%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.3		77 - 126	102%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
 Data File : PL093200.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Nov 2024 11:41
 Operator : AR\AJ
 Sample : P4892-03MS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 WB-310-BOTMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 21 23:35:02 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 18:58:23 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.536	2.773	49750651	49942483	20.304	18.353m
28) SA Decachlor...	9.055	7.914	35238679	56205113	18.310	20.594
Target Compounds						
2) A alpha-BHC	3.993	3.277	177.1E6	215.7E6	52.211	54.055
3) MA gamma-BHC...	4.324	3.607	162.6E6	207.2E6	49.869m	53.679
4) MA Heptachlor	4.914	3.946	152.2E6	206.3E6	50.680	54.672
5) MB Aldrin	5.255	4.225	144.6E6	197.9E6	48.173m	54.080
6) B beta-BHC	4.523	3.907	73919864	90623219	51.139	55.048
7) B delta-BHC	4.770	4.136	148.3E6	172.4E6	47.391	44.869
8) B Heptachlo...	5.682	4.728	138.3E6	185.7E6	50.081	55.578
9) A Endosulfan I	6.068	5.098	127.4E6	177.7E6	50.924	58.217
10) B gamma-Chl...	5.938	4.979	134.6E6	201.8E6	50.608	60.018
11) B alpha-Chl...	6.017	5.042	135.6E6	193.1E6	51.206	58.059
12) B 4,4'-DDE	6.191	5.231	125.2E6	190.6E6	52.834	59.150
13) MA Dieldrin	6.343	5.363	135.9E6	194.2E6	51.577	58.132
14) MA Endrin	6.573	5.638	108.5E6	165.5E6	47.653	57.214
15) B Endosulfa...	6.793	5.933	119.9E6	171.9E6	50.303	60.671
16) A 4,4'-DDD	6.709	5.787	103.0E6	155.8E6	53.639	62.561
17) MA 4,4'-DDT	7.023	6.037	104.8E6	149.0E6	50.627	55.540
18) B Endrin al...	6.923	6.112	95294159	131.3E6	50.743	56.928
19) B Endosulfa...	7.158	6.335	106.2E6	154.4E6	48.934	57.259
20) A Methoxychlor	7.500	6.612	54129506	76928367	47.482	53.870
21) B Endrin ke...	7.643	6.841	126.5E6	185.4E6	52.198	60.424
22) Mirex	8.117	7.022	90981032	139.1E6	45.911	53.323

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093200.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 11:41
Operator : AR\AJ
Sample : P4892-03MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

WB-310-BOTMS

Manual Integrations

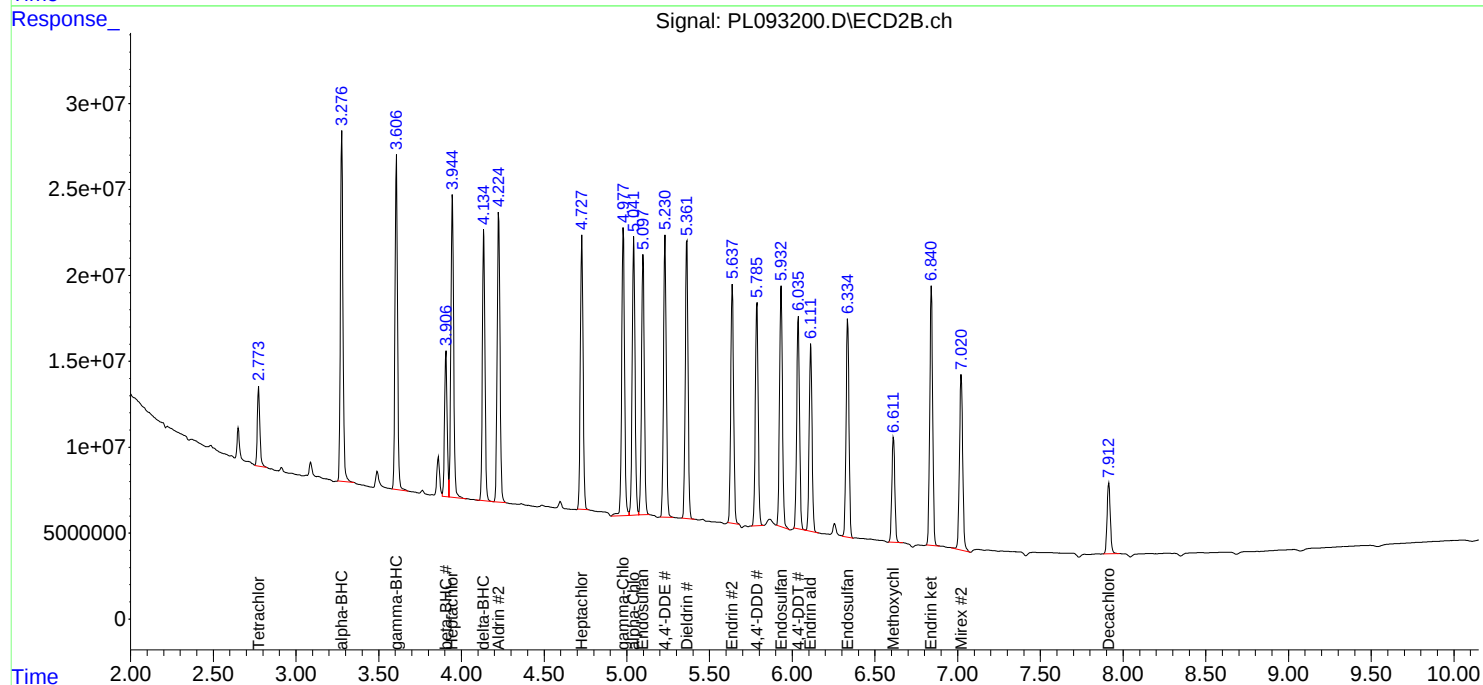
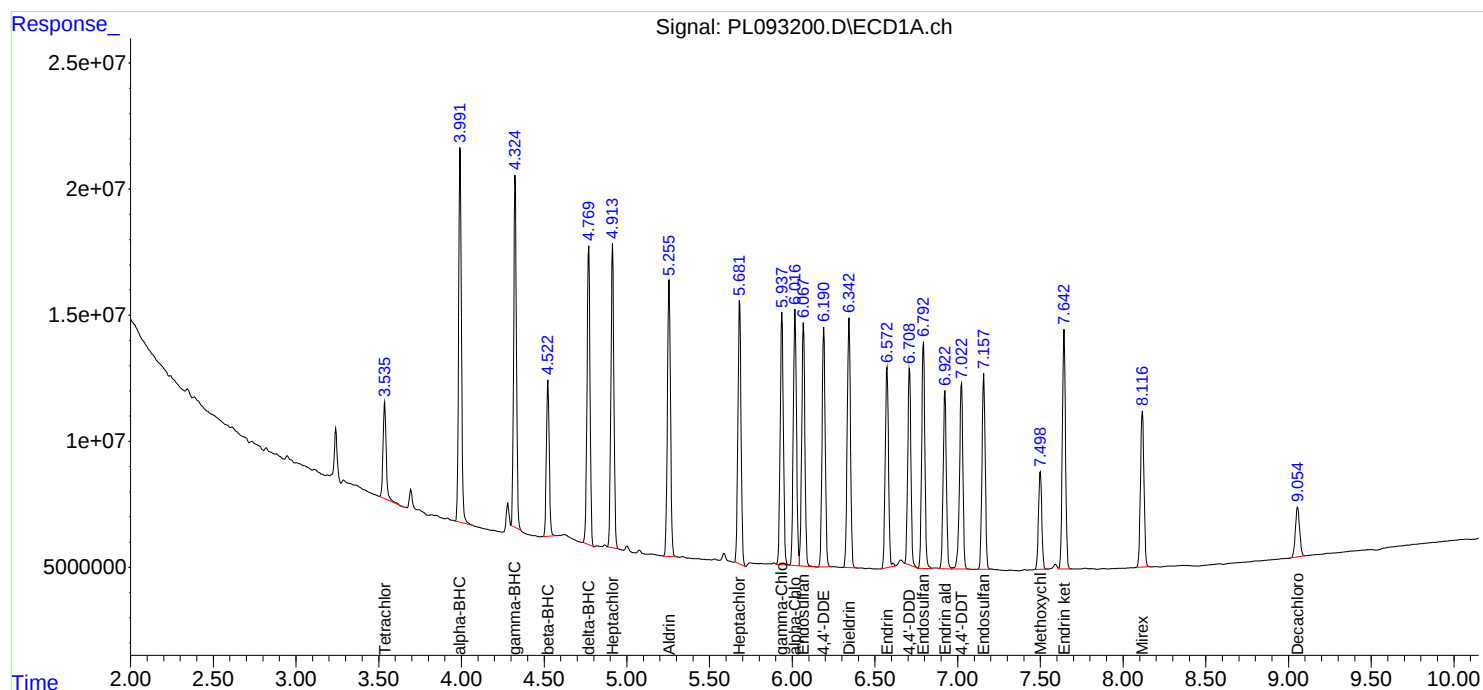
APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:35:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Report of Analysis

Client:	AECOM	Date Collected:	11/15/24
Project:	Meeker Ave Plumes Superfund Site RI FS	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4921
Lab Sample ID:	P4892-03MSD	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Pesticide
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093201.D	1	11/20/24 12:00	11/21/24 11:54	PB165164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.30		0.049	0.50	ug/L
76-44-8	Heptachlor	5.40		0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.50		0.090	0.50	ug/L
72-20-8	Endrin	5.70		0.043	0.50	ug/L
72-43-5	Methoxychlor	5.30		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.4		43 - 140	102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.8		77 - 126	99%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
 Data File : PL093201.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Nov 2024 11:54
 Operator : AR\AJ
 Sample : P4892-03MSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 WB-310-BOTMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 21 23:36:04 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 28 18:58:23 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.536	2.774	48585163	49229769	19.829	18.091
28)	SA Decachlor...	9.056	7.914	35516318	55620315	18.454	20.379
Target Compounds							
2)	A alpha-BHC	3.992	3.277	177.8E6	213.4E6	52.424	53.476
3)	MA gamma-BHC...	4.323	3.607	163.8E6	205.6E6	50.240m	53.276
4)	MA Heptachlor	4.913	3.945	152.6E6	203.6E6	50.818	53.937
5)	MB Aldrin	5.254	4.225	145.0E6	196.5E6	48.308m	53.697
6)	B beta-BHC	4.523	3.907	74086122	89185379	51.254	54.175
7)	B delta-BHC	4.770	4.135	147.8E6	172.3E6	47.227	44.836
8)	B Heptachlo...	5.682	4.728	137.9E6	184.6E6	49.933	55.249
9)	A Endosulfan I	6.068	5.098	126.8E6	175.9E6	50.709	57.614
10)	B gamma-Chl...	5.938	4.978	135.3E6	195.4E6	50.835	58.112
11)	B alpha-Chl...	6.018	5.042	135.1E6	190.8E6	51.004	57.373
12)	B 4,4'-DDE	6.191	5.231	124.3E6	189.0E6	52.462	58.659
13)	MA Dieldrin	6.343	5.363	135.2E6	193.7E6	51.299	57.983
14)	MA Endrin	6.573	5.638	108.3E6	163.6E6	47.565	56.552
15)	B Endosulfa...	6.793	5.933	118.7E6	170.1E6	49.779	60.037
16)	A 4,4'-DDD	6.709	5.786	101.8E6	154.8E6	53.050	62.159
17)	MA 4,4'-DDT	7.023	6.037	103.3E6	147.0E6	49.923	54.794
18)	B Endrin al...	6.923	6.113	94313867	131.6E6	50.221	57.048
19)	B Endosulfa...	7.158	6.336	105.6E6	151.5E6	48.662	56.192
20)	A Methoxychlor	7.500	6.612	52925633	75375961	46.426	52.783
21)	B Endrin ke...	7.643	6.841	125.2E6	184.7E6	51.679	60.195
22)	Mirex	8.117	7.022	90240941	134.5E6	45.537	51.565

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL112124\
Data File : PL093201.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Nov 2024 11:54
Operator : AR\AJ
Sample : P4892-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

WB-310-BOTMSD

Manual Integrations

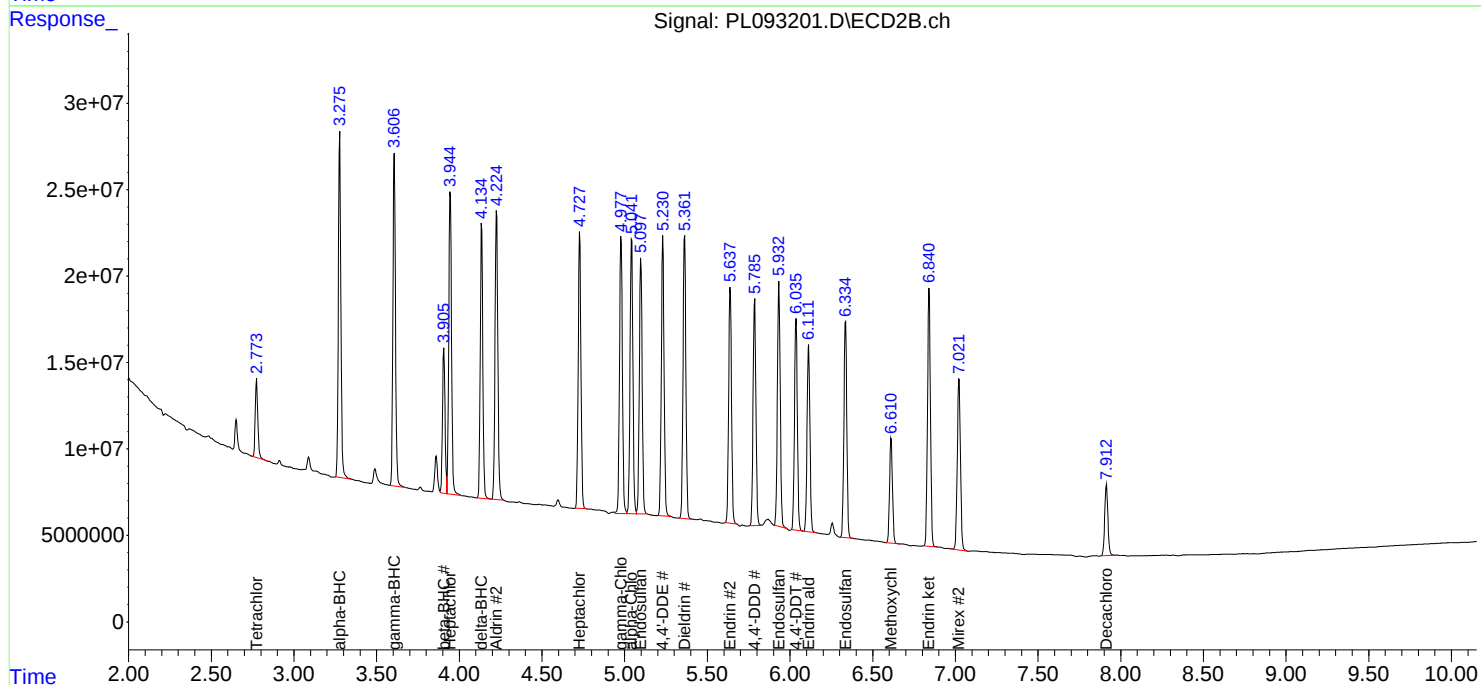
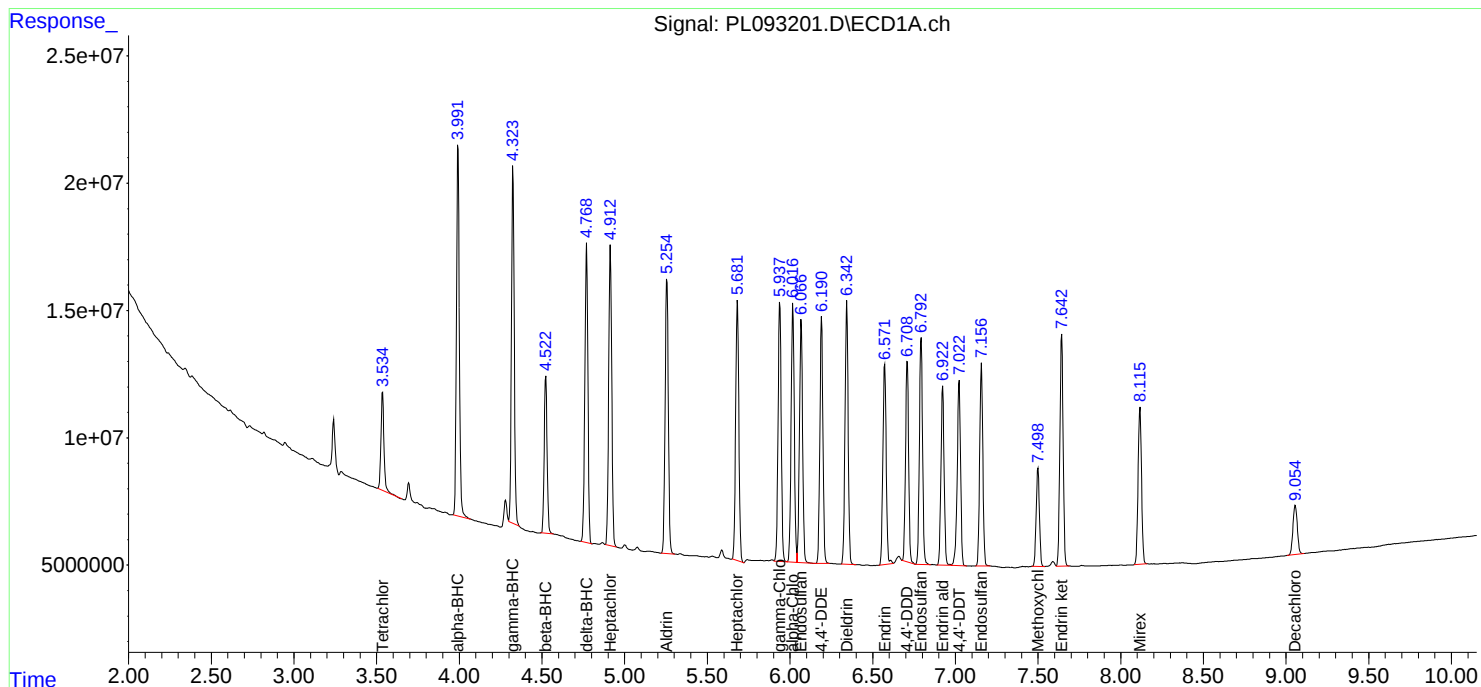
APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :Ankita Jodhani 11/22/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 21 23:36:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



Manual Integration Report

Sequence:	PL102824	Instrument	ECD_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL092653.D	4,4"-DDD	Abdul	10/29/2024 9:08:09 AM	Ankita	10/29/2024 10:01:26	Peak Integrated by Software
PEM	PL092653.D	4,4"-DDD #2	Abdul	10/29/2024 9:08:09 AM	Ankita	10/29/2024 10:01:26	Peak Integrated by Software
PSTDICC005	PL092659.D	delta-BHC	Abdul	10/29/2024 9:08:13 AM	Ankita	10/29/2024 10:01:28	Peak Integrated by Software
PSTDICC005	PL092659.D	Heptachlor epoxide	Abdul	10/29/2024 9:08:13 AM	Ankita	10/29/2024 10:01:28	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDD #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDE	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDE #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	Endrin ketone #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PSTDCCC050	PL092675.D	Aldrin	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	Dieldrin #2	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	gamma-BHC (Lindane)	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	Tetrachloro-m-xylene #2	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
I.BLK	PL092690.D	Tetrachloro-m-xylene #2	Abdul	10/29/2024 9:09:28 AM	Ankita	10/29/2024 10:02:09	Peak Integrated by Software

Manual Integration Report

Sequence:	PL102824	Instrument	ECD_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL092691.D	Endosulfan II #2	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	gamma-Chlordane	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	Heptachlor epoxide	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	Mirex #2	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software

Manual Integration Report

Sequence:

PL112124

Instrument

ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL093192.D	4,4"-DDD	yogesh	11/22/2024 8:47:46 AM	Ankita	11/22/2024 11:29:15	Peak Integrated by Software
PEM	PL093192.D	4,4"-DDE	yogesh	11/22/2024 8:47:46 AM	Ankita	11/22/2024 11:29:15	Peak Integrated by Software
PEM	PL093192.D	Endrin aldehyde	yogesh	11/22/2024 8:47:46 AM	Ankita	11/22/2024 11:29:15	Peak Integrated by Software
PEM	PL093192.D	Endrin aldehyde #2	yogesh	11/22/2024 8:47:46 AM	Ankita	11/22/2024 11:29:15	Peak Integrated by Software
PEM	PL093192.D	gamma-BHC (Lindane)	yogesh	11/22/2024 8:47:46 AM	Ankita	11/22/2024 11:29:15	Peak Integrated by Software
PSTDCCC050	PL093193.D	4,4"-DDD	yogesh	11/22/2024 8:47:49 AM	Ankita	11/22/2024 11:29:16	Peak Integrated by Software
PSTDCCC050	PL093193.D	Aldrin	yogesh	11/22/2024 8:47:49 AM	Ankita	11/22/2024 11:29:16	Peak Integrated by Software
PSTDCCC050	PL093193.D	Endosulfan II #2	yogesh	11/22/2024 8:47:49 AM	Ankita	11/22/2024 11:29:16	Peak Integrated by Software
PSTDCCC050	PL093193.D	Endrin	yogesh	11/22/2024 8:47:49 AM	Ankita	11/22/2024 11:29:16	Peak Integrated by Software
PB165164BS	PL093196.D	Aldrin	yogesh	11/22/2024 8:47:53 AM	Ankita	11/22/2024 11:29:20	Peak Integrated by Software
P4892-03MS	PL093200.D	Aldrin	yogesh	11/22/2024 8:47:58 AM	Ankita	11/22/2024 11:29:23	Peak Integrated by Software
P4892-03MS	PL093200.D	gamma-BHC (Lindane)	yogesh	11/22/2024 8:47:58 AM	Ankita	11/22/2024 11:29:23	Peak Integrated by Software
P4892-03MS	PL093200.D	Tetrachloro-m-xylene #2	yogesh	11/22/2024 8:47:58 AM	Ankita	11/22/2024 11:29:23	Peak Integrated by Software

Manual Integration Report

Sequence:

PL112124

Instrument

ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4892-03MSD	PL093201.D	Aldrin	yogesh	11/22/2024 8:48:01 AM	Ankita	11/22/2024 11:29:25	Peak Integrated by Software
P4892-03MSD	PL093201.D	gamma-BHC (Lindane)	yogesh	11/22/2024 8:48:01 AM	Ankita	11/22/2024 11:29:25	Peak Integrated by Software
P4921-01	PL093202.D	Tetrachloro-m-xylene #2	yogesh	11/22/2024 8:48:02 AM	Ankita	11/22/2024 11:29:26	Peak Integrated by Software
PSTDCCC050	PL093211.D	4,4"-DDD	yogesh	11/22/2024 12:39:33 PM	 	 	Peak Integrated by Software
PSTDCCC050	PL093211.D	4,4"-DDT #2	yogesh	11/22/2024 12:39:33 PM	 	 	Peak Integrated by Software
PSTDCCC050	PL093211.D	Aldrin	yogesh	11/22/2024 12:39:33 PM	 	 	Peak Integrated by Software
PSTDCCC050	PL093211.D	Endosulfan II	yogesh	11/22/2024 12:39:33 PM	 	 	Peak Integrated by Software
PSTDCCC050	PL093211.D	Endrin	yogesh	11/22/2024 12:39:33 PM	 	 	Peak Integrated by Software

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM
SubDirectory	PL102824	HP Acquire Method	HP Processing Method pl102824 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP23517		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL092651.D	28 Oct 2024 13:41	AR\AJ	Ok
2	I.BLK	PL092652.D	28 Oct 2024 13:55	AR\AJ	Ok
3	PEM	PL092653.D	28 Oct 2024 14:16	AR\AJ	Ok,M
4	RESCHK	PL092654.D	28 Oct 2024 14:29	AR\AJ	Ok
5	PSTDICC100	PL092655.D	28 Oct 2024 14:43	AR\AJ	Ok
6	PSTDICC075	PL092656.D	28 Oct 2024 14:56	AR\AJ	Ok
7	PSTDICC050	PL092657.D	28 Oct 2024 15:09	AR\AJ	Ok
8	PSTDICC025	PL092658.D	28 Oct 2024 15:23	AR\AJ	Ok
9	PSTDICC005	PL092659.D	28 Oct 2024 15:36	AR\AJ	Ok,M
10	PCHLORICC1000	PL092660.D	28 Oct 2024 15:49	AR\AJ	Ok
11	PCHLORICC750	PL092661.D	28 Oct 2024 16:03	AR\AJ	Ok
12	PCHLORICC500	PL092662.D	28 Oct 2024 16:16	AR\AJ	Ok
13	PCHLORICC250	PL092663.D	28 Oct 2024 16:30	AR\AJ	Ok
14	PCHLORICC050	PL092664.D	28 Oct 2024 16:43	AR\AJ	Ok
15	PTOXICC1000	PL092665.D	28 Oct 2024 16:56	AR\AJ	Ok
16	PTOXICC750	PL092666.D	28 Oct 2024 17:10	AR\AJ	Ok
17	PTOXICC500	PL092667.D	28 Oct 2024 17:23	AR\AJ	Ok
18	PTOXICC250	PL092668.D	28 Oct 2024 17:37	AR\AJ	Ok
19	PTOXICC100	PL092669.D	28 Oct 2024 17:50	AR\AJ	Ok,M
20	PSTDICV050	PL092670.D	28 Oct 2024 18:03	AR\AJ	Ok
21	PCHLORICV500	PL092671.D	28 Oct 2024 18:30	AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM
SubDirectory	PL102824	HP Acquire Method	HP Processing Method pl102824 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP23517		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PTOXICV500	PL092672.D	28 Oct 2024 18:57	AR\AJ	Ok
23	I.BLK	PL092673.D	28 Oct 2024 19:24	AR\AJ	Ok
24	PEM	PL092674.D	28 Oct 2024 19:37	AR\AJ	Ok,M
25	PSTDCCC050	PL092675.D	28 Oct 2024 19:51	AR\AJ	Ok,M
26	PB164460BL	PL092676.D	28 Oct 2024 20:04	AR\AJ	Ok,M
27	PB164460BS	PL092677.D	28 Oct 2024 20:17	AR\AJ	Ok,M
28	P4575-01	PL092678.D	28 Oct 2024 20:31	AR\AJ	Ok,M
29	P4566-01	PL092679.D	28 Oct 2024 20:44	AR\AJ	Ok,M
30	P4567-01	PL092680.D	28 Oct 2024 20:57	AR\AJ	Ok,M
31	P4567-05	PL092681.D	28 Oct 2024 21:11	AR\AJ	Ok
32	P4567-09	PL092682.D	28 Oct 2024 21:24	AR\AJ	Ok,M
33	P4574-01	PL092683.D	28 Oct 2024 21:38	AR\AJ	Ok,M
34	P4574-04	PL092684.D	28 Oct 2024 21:51	AR\AJ	Ok,M
35	P4577-01	PL092685.D	28 Oct 2024 22:04	AR\AJ	Ok,M
36	P4561-01	PL092686.D	28 Oct 2024 22:18	AR\AJ	Ok,M
37	P4561-01MS	PL092687.D	28 Oct 2024 22:31	AR\AJ	Ok,M
38	P4561-01MSD	PL092688.D	28 Oct 2024 22:44	AR\AJ	Ok,M
39	P4561-05	PL092689.D	28 Oct 2024 22:58	AR\AJ	Ok,M
40	I.BLK	PL092690.D	28 Oct 2024 23:11	AR\AJ	Ok,M
41	PSTDCCC050	PL092691.D	29 Oct 2024 00:32	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL112124

Review By	yogesh	Review On	11/22/2024 8:48:31 AM
Supervise By	Ankita	Supervise On	11/22/2024 11:29:44 AM
SubDirectory	PL112124	HP Acquire Method	HP Processing Method PL102824
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP23517		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL093190.D	21 Nov 2024 09:12	AR\AJ	Ok
2	I.BLK	PL093191.D	21 Nov 2024 09:25	AR\AJ	Ok
3	PEM	PL093192.D	21 Nov 2024 09:38	AR\AJ	Ok,M
4	PSTDCCC050	PL093193.D	21 Nov 2024 09:51	AR\AJ	Ok,M
5	P4925-01RE	PL093194.D	21 Nov 2024 10:05	AR\AJ	Confirms
6	PB165164BL	PL093195.D	21 Nov 2024 10:35	AR\AJ	Ok
7	PB165164BS	PL093196.D	21 Nov 2024 10:48	AR\AJ	Ok,M
8	PB165060TB	PL093197.D	21 Nov 2024 11:02	AR\AJ	Ok
9	PB165123TB	PL093198.D	21 Nov 2024 11:15	AR\AJ	Ok
10	P4892-03	PL093199.D	21 Nov 2024 11:28	AR\AJ	Not Ok
11	P4892-03MS	PL093200.D	21 Nov 2024 11:41	AR\AJ	Ok,M
12	P4892-03MSD	PL093201.D	21 Nov 2024 11:54	AR\AJ	Ok,M
13	P4921-01	PL093202.D	21 Nov 2024 12:08	AR\AJ	Ok,M
14	PB165154BL	PL093203.D	21 Nov 2024 12:21	AR\AJ	Ok
15	PB165154BS	PL093204.D	21 Nov 2024 12:34	AR\AJ	Ok,NS
16	P4938-05	PL093205.D	21 Nov 2024 12:47	AR\AJ	Ok,NS
17	P4936-01	PL093206.D	21 Nov 2024 13:00	AR\AJ	Ok,M
18	P4938-01	PL093207.D	21 Nov 2024 14:14	AR\AJ	Ok,M
19	P4938-01MS	PL093208.D	21 Nov 2024 14:27	AR\AJ	Ok,NS
20	P4938-01MSD	PL093209.D	21 Nov 2024 14:40	AR\AJ	Ok,NS
21	I.BLK	PL093210.D	21 Nov 2024 14:53	AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL112124

Review By	yogesh	Review On	11/22/2024 8:48:31 AM
Supervise By	Ankita	Supervise On	11/22/2024 11:29:44 AM
SubDirectory	PL112124	HP Acquire Method	HP Processing Method PL102824
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP23517		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PSTDCCC050	PL093211.D	21 Nov 2024 15:07	AR\AJ	Ok,NS
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M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM
SubDirectory	PL102824	HP Acquire Method	HP Processing Method pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL092651.D	28 Oct 2024 13:41		AR\AJ	Ok
2	I.BLK	I.BLK	PL092652.D	28 Oct 2024 13:55		AR\AJ	Ok
3	PEM	PEM	PL092653.D	28 Oct 2024 14:16		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL092654.D	28 Oct 2024 14:29		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PL092655.D	28 Oct 2024 14:43		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PL092656.D	28 Oct 2024 14:56		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL092657.D	28 Oct 2024 15:09		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL092658.D	28 Oct 2024 15:23		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PL092659.D	28 Oct 2024 15:36		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL092660.D	28 Oct 2024 15:49		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL092661.D	28 Oct 2024 16:03		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL092662.D	28 Oct 2024 16:16		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL092663.D	28 Oct 2024 16:30		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL092664.D	28 Oct 2024 16:43		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PL092665.D	28 Oct 2024 16:56		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL092666.D	28 Oct 2024 17:10		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL092667.D	28 Oct 2024 17:23		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL092668.D	28 Oct 2024 17:37		AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM
SubDirectory	PL102824	HP Acquire Method	HP Processing Method pl102824 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP23517		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	PTOXICC100	PTOXICC100	PL092669.D	28 Oct 2024 17:50		AR\AJ	Ok,M
20	PSTDICV050	ICVPL102824	PL092670.D	28 Oct 2024 18:03		AR\AJ	Ok
21	PCHLORICV500	ICVPL102824CHLOR	PL092671.D	28 Oct 2024 18:30		AR\AJ	Ok
22	PTOXICV500	ICVPL102824TOX	PL092672.D	28 Oct 2024 18:57		AR\AJ	Ok
23	I.BLK	I.BLK	PL092673.D	28 Oct 2024 19:24		AR\AJ	Ok
24	PEM	PEM	PL092674.D	28 Oct 2024 19:37		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PL092675.D	28 Oct 2024 19:51		AR\AJ	Ok,M
26	PB164460BL	PB164460BL	PL092676.D	28 Oct 2024 20:04		AR\AJ	Ok,M
27	PB164460BS	PB164460BS	PL092677.D	28 Oct 2024 20:17		AR\AJ	Ok,M
28	P4575-01	PL-02-102424	PL092678.D	28 Oct 2024 20:31		AR\AJ	Ok,M
29	P4566-01	HD-01-102524	PL092679.D	28 Oct 2024 20:44		AR\AJ	Ok,M
30	P4567-01	WC-1	PL092680.D	28 Oct 2024 20:57		AR\AJ	Ok,M
31	P4567-05	WC-2	PL092681.D	28 Oct 2024 21:11		AR\AJ	Ok
32	P4567-09	WC-3	PL092682.D	28 Oct 2024 21:24		AR\AJ	Ok,M
33	P4574-01	GRAVEL-1	PL092683.D	28 Oct 2024 21:38		AR\AJ	Ok,M
34	P4574-04	GRAVEL-2	PL092684.D	28 Oct 2024 21:51		AR\AJ	Ok,M
35	P4577-01	TR-05-102524	PL092685.D	28 Oct 2024 22:04		AR\AJ	Ok,M
36	P4561-01	BP-F-19	PL092686.D	28 Oct 2024 22:18		AR\AJ	Ok,M
37	P4561-01MS	BP-F-19MS	PL092687.D	28 Oct 2024 22:31		AR\AJ	Ok,M

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM
SubDirectory	PL102824	HP Acquire Method	HP Processing Method pl102824 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP23517		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

38	P4561-01MSD	BP-F-19MSD	PL092688.D	28 Oct 2024 22:44		AR\AJ	Ok,M
39	P4561-05	BP-F-18	PL092689.D	28 Oct 2024 22:58		AR\AJ	Ok,M
40	I.BLK	I.BLK	PL092690.D	28 Oct 2024 23:11		AR\AJ	Ok,M
41	PSTDCCC050	PSTDCCC050	PL092691.D	29 Oct 2024 00:32		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL112124

Review By	yogesh	Review On	11/22/2024 8:48:31 AM
Supervise By	Ankita	Supervise On	11/22/2024 11:29:44 AM
SubDirectory	PL112124	HP Acquire Method	HP Processing Method PL102824

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL093190.D	21 Nov 2024 09:12		AR\AJ	Ok
2	I.BLK	I.BLK	PL093191.D	21 Nov 2024 09:25		AR\AJ	Ok
3	PEM	PEM	PL093192.D	21 Nov 2024 09:38		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL093193.D	21 Nov 2024 09:51		AR\AJ	Ok,M
5	P4925-01RE	MH-741RE	PL093194.D	21 Nov 2024 10:05	TCMX HIGH in both column	AR\AJ	Confirms
6	PB165164BL	PB165164BL	PL093195.D	21 Nov 2024 10:35		AR\AJ	Ok
7	PB165164BS	PB165164BS	PL093196.D	21 Nov 2024 10:48		AR\AJ	Ok,M
8	PB165060TB	PB165060TB	PL093197.D	21 Nov 2024 11:02		AR\AJ	Ok
9	PB165123TB	PB165123TB	PL093198.D	21 Nov 2024 11:15		AR\AJ	Ok
10	P4892-03	WB-310-BOT	PL093199.D	21 Nov 2024 11:28	contamination	AR\AJ	Not Ok
11	P4892-03MS	WB-310-BOTMS	PL093200.D	21 Nov 2024 11:41		AR\AJ	Ok,M
12	P4892-03MSD	WB-310-BOTMSD	PL093201.D	21 Nov 2024 11:54		AR\AJ	Ok,M
13	P4921-01	WC-11-A-202411	PL093202.D	21 Nov 2024 12:08		AR\AJ	Ok,M
14	PB165154BL	PB165154BL	PL093203.D	21 Nov 2024 12:21		AR\AJ	Ok
15	PB165154BS	PB165154BS	PL093204.D	21 Nov 2024 12:34		AR\AJ	Ok,NS
16	P4938-05	MH-734	PL093205.D	21 Nov 2024 12:47		AR\AJ	Ok,NS
17	P4936-01	PL-01-11202024	PL093206.D	21 Nov 2024 13:00		AR\AJ	Ok,M
18	P4938-01	MH-732	PL093207.D	21 Nov 2024 14:14		AR\AJ	Ok,M

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL112124

Review By	yogesh	Review On	11/22/2024 8:48:31 AM
Supervise By	Ankita	Supervise On	11/22/2024 11:29:44 AM
SubDirectory	PL112124	HP Acquire Method	HP Processing Method PL102824
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP23517		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4938-01MS	MH-732MS	PL093208.D	21 Nov 2024 14:27		AR\AJ	Ok,NS
20	P4938-01MSD	MH-732MSD	PL093209.D	21 Nov 2024 14:40		AR\AJ	Ok,NS
21	I.BLK	I.BLK	PL093210.D	21 Nov 2024 14:53		AR\AJ	Ok
22	PSTDCCC050	PSTDCCC050	PL093211.D	21 Nov 2024 15:07		AR\AJ	Ok,NS

M : Manual Integration

SOP ID : M1311-TCLP-15
SDG No : N/A
Weigh By : N/A
Balance ID : N/A
pH Meter ID : WC PH METER-1
Extraction By : N/A
Filter By : JP
Pipette ID : N/A
Tumbler ID : N/A
TCLP Filter ID : 114771

Start Prep Date : N/A Time : N/A
End Prep Date : N/A Time : N/A
Combination Ratio : N/A
ZHE Cleaning Batch : N/A
Initial Room Temperature : N/A
Final Room Temperature : N/A
TCLP Technician Signature : *JP*
Supervisor By : *12*

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
N/A	N/A	N/A
N/A	N/A	N/A
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	N/A	MP83122

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. p4921-01 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/20/22 11:00	<i>JP</i> / TCLP Room	<i>JP</i> / 104014
	Preparation Group	Analysis Group / EXT

TCLP EXTRACTION LOGPAGE

PB165123

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4921-01	WC-11-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	7.0	1.5	N/A
PB165123TB	LEB123	N/A	N/A	N/A	N/A	N/A	N/A	4.93	1.0	N/A

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4921-01	WC-11-A-202411	N/A	N/A	N/A	N/A	<0.5	N/A
PB165123TB	LEB123	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP WATER P4921

WorkList ID : 185591

Department : TCLP Extraction

Date : 11-20-2024 07:53:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4921-01	WC-11-A-202411	Water	TCLP Extraction	Cool 4 deg C	AECO02	L61	11/19/2024	1311

Date/Time 11-20-22 08:00
Raw Sample Received by: JP WC1
Raw Sample Relinquished by: AP SM

Date/Time 11-20-22 11:00
Raw Sample Received by: CP SM
Raw Sample Relinquished by: JP WC1

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Water

Weigh By: RJ

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 11/20/2024

Extraction Start Time : 12:00

Extraction End Date : 11/20/2024

Extraction End Time : 17:00

Concentration By: EH

Supervisor By : rajesh

Extraction Method: ☒ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP23928
Surrogate	1.0ML	200 PPB	PP23985
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3829
Baked Na2SO4	N/A	EP2562
Hexane	N/A	E3826
N/A	N/A	N/A
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID: Water bath -01

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/20/24	RP (Set 1 cu)	Y-P-PRJ/PCR
17:05	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/20/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165060TB	PB165060TB	TCLP Pesticide	100	6	RUPESEH	ritesh	10			SEP-01
PB165123TB	PB165123TB	TCLP Pesticide	100	6	RUPESEH	ritesh	10			2
PB165164BL	PBLK164	TCLP Pesticide	1000	6	RUPESEH	ritesh	10			3
PB165164BS	PLCS164	TCLP Pesticide	1000	6	RUPESEH	ritesh	10			4
P4892-03	WB-310-BOT	TCLP Pesticide	100	6	RUPESEH	ritesh	10	A		5
P4892-03MS	WB-310-BOTMS	TCLP Pesticide	100	6	RUPESEH	ritesh	10	A		6
P4892-03MS D	WB-310-BOTMSD	TCLP Pesticide	100	6	RUPESEH	ritesh	10	A		7
P4921-01	WC-11-A-202411	TCLP Pesticide	100	6	RUPESEH	ritesh	10	A		8

* Extracts relinquished on the same date as received.

2
11/20/24

TCLP EXTRACTION LOGPAGE

PB165123

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4921-01	WC-11-A-202411	N/A	N/A	N/A	N/A	N/A	N/A	7.0	1.5	N/A
PB165123TB	LEB123	N/A	N/A	N/A	N/A	N/A	N/A	4.93	1.0	N/A

11/20/24
11:00

TCLP EXTRACTION LOGPAGE

PB16506

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Pr
P4890-06	D3721	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-
P4892-03	WB-310-BOT	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4893-04	MH-763	03	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
P4893-08	MH-762	04	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4910-04	MH-COTTAGE	05	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4910-08	MH-759	06	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
PB165060TB	LEB060	07	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1

11/19/2024
10:30

Prep Standard - Chemical Standard Summary

Order ID : P4921

Test : TCLP Pesticide

Prepbatch ID : PB165164,

Sequence ID/Qc Batch ID: PL112124,

Standard ID :

EP2562,PP23517,PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,P
P23683,PP23686,PP23687,PP23690,PP23693,PP23695,PP23698,PP23733,PP23793,PP23928,PP23985,

Chemical ID :

E3551,E3770,E3792,E3805,E3806,E3818,E3826,E3827,E3829,P11146,P11896,P13036,P13039,P13244,P13349,P133
50,P13352,P13359,P13402,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2562	11/14/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024
<u>FROM</u> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4027	Pesticide resolution Check Mixture 8081	PP23517	07/12/2024	01/12/2025	Abdul Mirza	None	None	Ankita Jodhani 07/16/2024
<u>FROM</u> 1.00000ml of E3770 + 99.00000ml of P13244 = Final Quantity: 100.000 ml								

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
84	Pest/PCB Surrogate Stock 20 PPM	PP23673	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 1.00000ml of P13349 + 9.00000ml of E3792 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3629	20 PPM PEST stock Solution 1st source(RESTEK)	PP23674	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 1.00000ml of P13036 + 9.00000ml of E3792 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1472	20 PPM Pest Stock Solution 2nd Source	PP23675	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 1.00000ml of P13039 + 9.00000ml of E3792 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1273	20 PPM Mirex Stock (Primary Source)	PP23676	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.20000ml of P11146 + 9.80000ml of E3792 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3663	20 PPM MIREX Stock STD (Secondary source)	PP23677	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.20000ml of P11146 + 9.80000ml of E3792 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3630	100/100 PPB PEST Working std.1st Source(RESTEK)	PP23678	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 98.50000ml of E3792 + 0.50000ml of PP23673 + 0.50000ml of PP23674 + 0.50000ml of PP23676 = Final Quantity: 100.000 ml

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
386	1000/100 PPB Chlordane STD (Restek)	PP23680	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024
<u>FROM</u>	0.10000ml of P11896 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml							

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3746	1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE	PP23681	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.10000ml of P11896 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
383	1000/100 PPB Toxaphene STD (Restek)	PP23682	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.10000ml of P13359 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3669	1000/100 PPB TOXAPHENE STD 2nd source (RESTEK)	PP23683	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.10000ml of P13402 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3632	50 PPB ICAL PEST STD(RESTEK)	PP23686	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.50000ml of E3792 + 0.50000ml of PP23678 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3988	50 PPB PEST ICV STD(RESTEK)	PP23687	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.50000ml of E3792 + 0.50000ml of PP23679 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
529	CHLOR 500 PPB STD	PP23690	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.50000ml of E3792 + 0.50000ml of PP23680 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
532	CHLOR 500 PPB ICV STD	PP23693	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.50000ml of E3792 + 0.50000ml of PP23681 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
534	TOX 500 PPB STD	PP23695	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.50000ml of E3792 + 0.50000ml of PP23682 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3670	TOX 500 PPB ICV std (RESTEK)	PP23698	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.50000ml of E3792 + 0.50000ml of PP23683 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
84	Pest/PCB Surrogate Stock 20 PPM	PP23733	10/03/2024	03/30/2025	Ankita Jodhani	None	None	Yogesh Patel
								10/03/2024

FROM 1.00000ml of P13350 + 9.00000ml of E3805 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
518	Pest/PCB I.BLK 20 PPB	PP23793	10/03/2024	03/30/2025	Ankita Jodhani	None	None	Yogesh Patel
								10/03/2024

FROM 99.90000ml of E3805 + 0.10000ml of PP23733 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
79	500 PPB Pesticide Spike Solution	PP23928	10/30/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/30/2024

FROM 95.00000ml of E3818 + 2.50000ml of PP23675 + 2.50000ml of PP23677 = Final Quantity: 100.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
465	200 PPB Pest/PCB Surrogate Spike	PP23985	11/15/2024	05/08/2025	Ankita Jodhani	None	None	Yogesh Patel
<u>FROM</u> 1.00000ml of P13352 + 999.00000ml of E3827 = Final Quantity: 1000.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	05/09/2025	07/12/2024 / Rajesh	07/02/2024 / Rajesh	E3770

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3792

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	03/30/2025	09/30/2024 / Rajesh	09/25/2024 / Rajesh	E3805

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agela Technologies Inc.	FS0006 / Cleanert Florisil cartridge	M06518	03/25/2025	10/01/2024 / Rajesh	09/25/2024 / Rajesh	E3806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	05/09/2025	11/09/2024 / Rajesh	11/07/2024 / Rajesh	E3826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/08/2025	11/08/2024 / Rajesh	11/07/2024 / Rajesh	E3827

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24J0862003	05/18/2025	11/18/2024 / Rajesh	11/04/2024 / Rajesh	E3829

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	102821	03/21/2025	09/21/2024 / Abdul	10/29/2021 / Abdul	P11146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0181737	03/21/2025	09/21/2024 / Abdul	06/17/2022 / Abdul	P11896

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0200423	03/21/2025	09/21/2024 / Abdul	12/26/2023 / Abdul	P13036

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0199099	03/21/2025	09/21/2024 / Abdul	12/26/2023 / Abdul	P13039

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	19161 / 8081 pesticide resolution check mixture	013124	01/12/2025	07/12/2024 / Abdul	02/09/2024 / Abdul	P13244

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	03/21/2025	09/21/2024 / Abdul	04/22/2024 / Abdul	P13349

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	04/03/2025	10/03/2024 / Ankita	04/22/2024 / Abdul	P13350

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	05/15/2025	11/15/2024 / Ankita	04/22/2024 / Abdul	P13352

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203830	03/21/2025	09/21/2024 / Abdul	05/03/2024 / Abdul	P13359

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203038	03/21/2025	09/21/2024 / Abdul	05/15/2024 / Abdul	P13402



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 23H1462005

Manufactured Date: 2023-07-26

Expiration Date: 2026-07-25

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 7/21/24

E 3769

Ken Koehnlein
Sr. Manager, Quality Assurance

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 09/11/24

E 3192

Jamie Croak
Director Quality Operations, Bioscience Production

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 9/25/24

E 3805

Jamie Croak
Director Quality Operations, Bioscience Production

Cleanert Florisil

1g/6ml 30/pkg

固相萃取产品

LOT#: M06518

MFG#: F04074



Made in China

CAT# FS0006

 Agela Technologies

E 3806



Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP on 10/9/24

E 3818

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3827

Rec'd by RS on ~~11/8/24~~ 11/7/24
RS
11/7

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

11/6/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

 **avantors™**

Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3829



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32021 **Lot No.:** A0181737

Description : Chlordane Standard

Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Chlordane	1,006.0 µg/mL	+/- 5.9753 µg/mL Gravimetric
	CAS # 57-74-9 (Lot 978545)		+/- 31.8975 µg/mL Unstressed
	Purity ----%		+/- 41.6615 µg/mL Stressed

Solvent: Hexane

CAS # 110-54-3

Purity 99%

Tech Tips:

CAS #57-74-9 nomenclature is based on EPA method 8081B.

P 11892 } (5)
↓
P 11896 }
|

06/17/2022

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

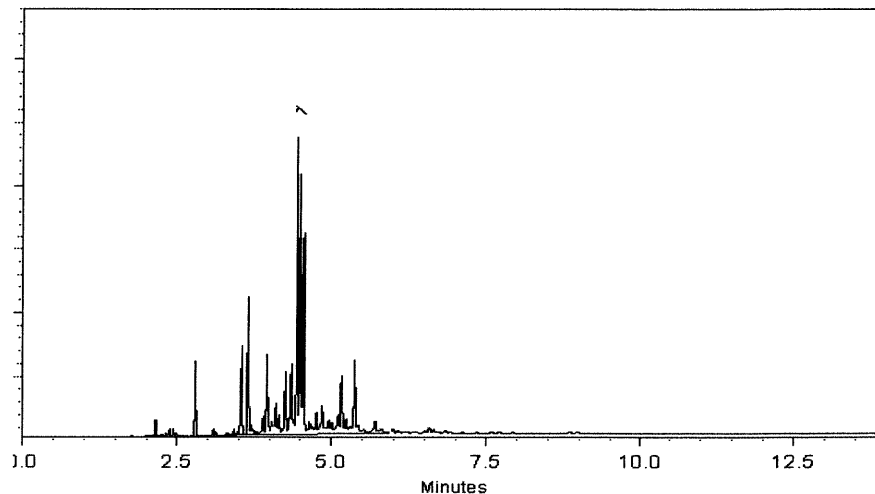
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

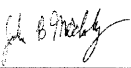
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

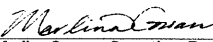


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Josh McCloskey - Operations Technician I

Date Mixed: 11-Feb-2022

Balance: B442140311


Marlene Cowan - Operations Tech I

Date Passed: 24-Feb-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

P 11892 / (5)
P 11896 /


06/17/2022



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32291 **Lot No.:** A0199099

Description : Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

P130397 5
↓
P13043 1
✓
12-26-2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	alpha-BHC	319-84-6	14434500	99%	200.0 µg/mL	+/- 8.9732
2	gamma-BHC (Lindane)	58-89-9	14184400	98%	200.1 µg/mL	+/- 8.9762
3	beta-BHC	319-85-7	BCCC6425	99%	200.3 µg/mL	+/- 8.9844
4	delta-BHC	319-86-8	14450800	98%	200.0 µg/mL	+/- 8.9740
5	Heptachlor	76-44-8	813251	99%	200.1 µg/mL	+/- 8.9754
6	Aldrin	309-00-2	14389400	98%	200.0 µg/mL	+/- 8.9718
7	Heptachlor epoxide (isomer B)	1024-57-3	14448800	99%	200.1 µg/mL	+/- 8.9754
8	trans-Chlordane	5103-74-2	32943	98%	199.9 µg/mL	+/- 8.9696
9	cis-Chlordane	5103-71-9	31766	98%	200.1 µg/mL	+/- 8.9762
10	Endosulfan I	959-98-8	BCCF4060	99%	200.1 µg/mL	+/- 8.9754
11	4,4'-DDE	72-55-9	GHYQG	99%	200.1 µg/mL	+/- 8.9777
12	Dieldrin	60-57-1	11129900	98%	200.0 µg/mL	+/- 8.9718
13	Endrin	72-20-8	14123200	98%	199.9 µg/mL	+/- 8.9696
14	4,4'-DDD	72-54-8	HAN02	99%	200.1 µg/mL	+/- 8.9777
15	Endosulfan II	33213-65-9	14374700	99%	200.0 µg/mL	+/- 8.9732
16	4,4'-DDT	50-29-3	230410JLMA	98%	200.0 µg/mL	+/- 8.9718

17	Endrin aldehyde	7421-93-4	30720	98%	200.1 µg/mL	+/- 8.9784
18	Endosulfan sulfate	1031-07-8	BCCH9010	99%	200.0 µg/mL	+/- 8.9732
19	Methoxychlor	72-43-5	13668200	99%	200.1 µg/mL	+/- 8.9777
20	Endrin ketone	53494-70-5	1-ABS-16-7	98%	200.0 µg/mL	+/- 8.9740

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

P13039
 ↓
 P13043
 5
 1
 JAW
 12/26/23

Quality Confirmation Test

Column:
 30m x .25mm x .2um
 Rtx-CLP II (cat.# 11323)

Carrier Gas:
 helium-constant pressure 20 psi.

Temp. Program:
 150°C to 300°C
 @ 4°C/min. (hold 5 min.)

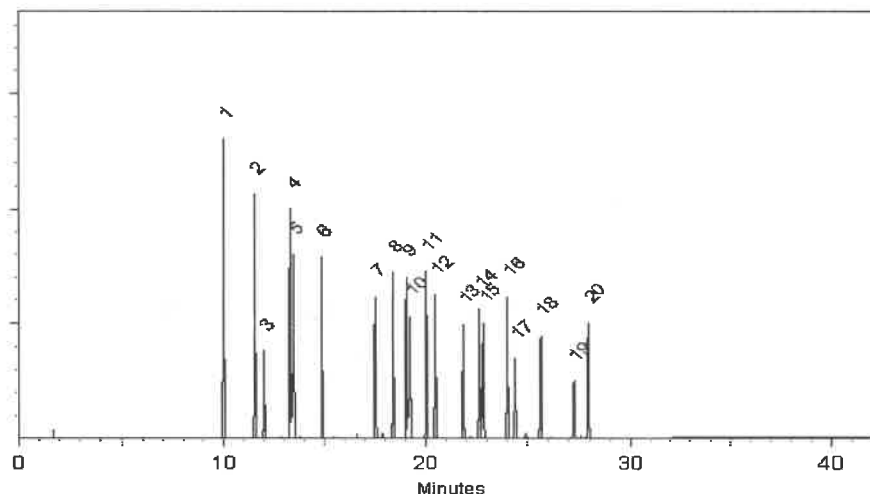
Inj. Temp:
 200°C

Det. Temp:
 300°C

Det. Type:
 ECD

Split Vent:
 Split ratio 50:1

Inj. Vol
 1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey
 Josh McCloskey - Operations Technician I

Date Mixed: 19-Jun-2023

Balance Serial # 1128360905

Jennifer Pollino
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Jun-2023

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

79136
102821
Mirex

Solvent(s):
Lot#
Acetone
81025

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

102826
Refrigerate (4 °C)
1000
6UTB

5E-05 Balance Uncertainty
0.006 Flask Uncertainty

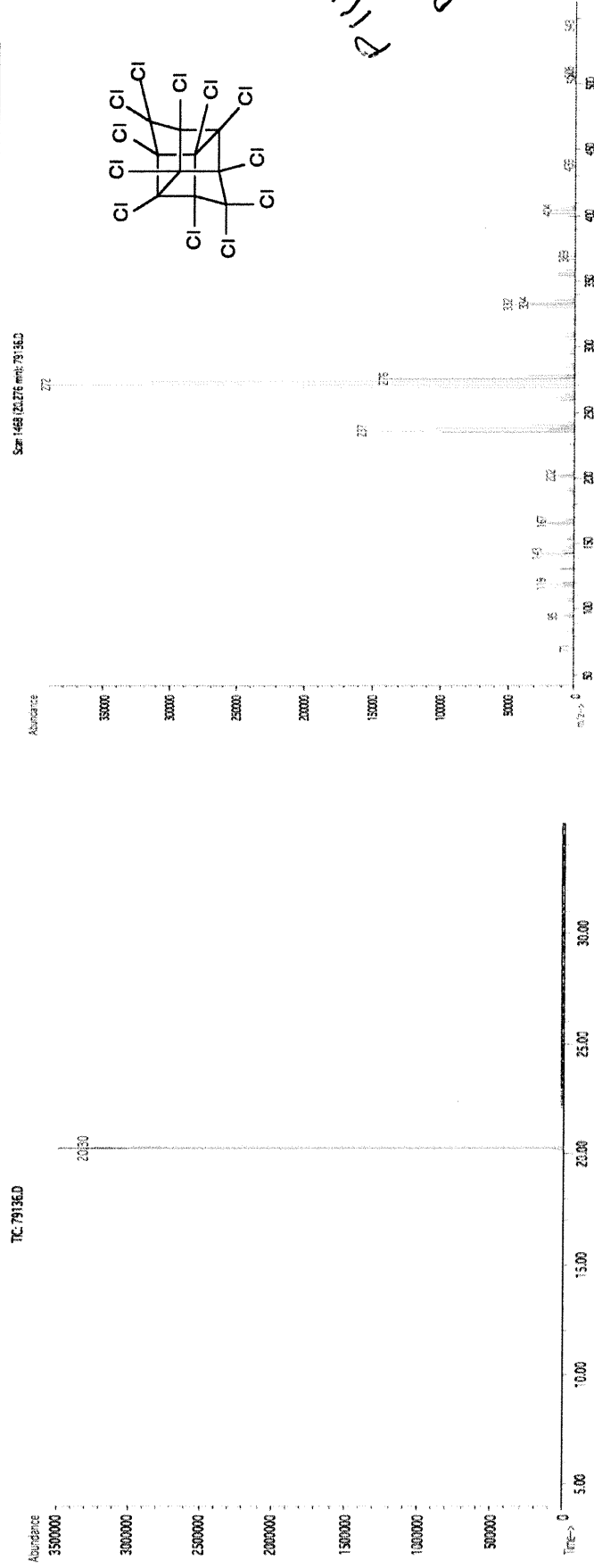
Weight(s) shown below were combined and diluted to (mL):

50.0

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	(SHA PEL (TWA) LD50)

1. Mirex	437	9492400	1000	99.4	0.5	0.05034	0.05039	1000.9	10.3	2385-85-5	N/A	orl-rat 306mg/kg
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Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B = 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32291 **Lot No.:** A0200423

Description : Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 10°C or colder

Ship: Ambient

P 13034
↓
P 13038
12.26.2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	alpha-BHC	319-84-6	14434500	99%	200.5 µg/mL	+/- 8.9956
2	gamma-BHC (Lindane)	58-89-9	14184400	98%	199.9 µg/mL	+/- 8.9696
3	beta-BHC	319-85-7	BCCC6425	99%	200.0 µg/mL	+/- 8.9732
4	delta-BHC	319-86-8	14450800	98%	199.9 µg/mL	+/- 8.9696
5	Heptachlor	76-44-8	813251	99%	202.0 µg/mL	+/- 9.0629
6	Aldrin	309-00-2	14389400	98%	200.9 µg/mL	+/- 9.0136
7	Heptachlor epoxide (isomer B)	1024-57-3	14448800	99%	200.0 µg/mL	+/- 8.9732
8	trans-Chlordane	5103-74-2	34616	99%	200.5 µg/mL	+/- 8.9956
9	cis-Chlordane	5103-71-9	31766	98%	201.4 µg/mL	+/- 9.0356
10	Endosulfan I	959-98-8	BCCF4060	99%	200.0 µg/mL	+/- 8.9732
11	4,4'-DDE	72-55-9	GHYQG	99%	201.5 µg/mL	+/- 9.0405
12	Dieldrin	60-57-1	14515000	98%	199.9 µg/mL	+/- 8.9696
13	Endrin	72-20-8	14485300	98%	200.4 µg/mL	+/- 8.9916
14	4,4'-DDD	72-54-8	HAN02	99%	200.5 µg/mL	+/- 8.9956
15	Endosulfan II	33213-65-9	14374700	99%	200.0 µg/mL	+/- 8.9732
16	4,4'-DDT	50-29-3	230410JLMA	98%	201.9 µg/mL	+/- 9.0575

17	Endrin aldehyde	7421-93-4	30720	98%	201.4 µg/mL	+/- 9.0356
18	Endosulfan sulfate	1031-07-8	BCCH9010	99%	200.5 µg/mL	+/- 8.9956
19	Methoxychlor	72-43-5	14563200	98%	200.9 µg/mL	+/- 9.0136
20	Endrin ketone	53494-70-5	14537700	98%	199.9 µg/mL	+/- 8.9696

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

P13034
P13038
1
5
12/26/2023

Quality Confirmation Test

Column:
30m x .25mm x .2µm
Rtx-CLP II (cat.# 11323)

Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

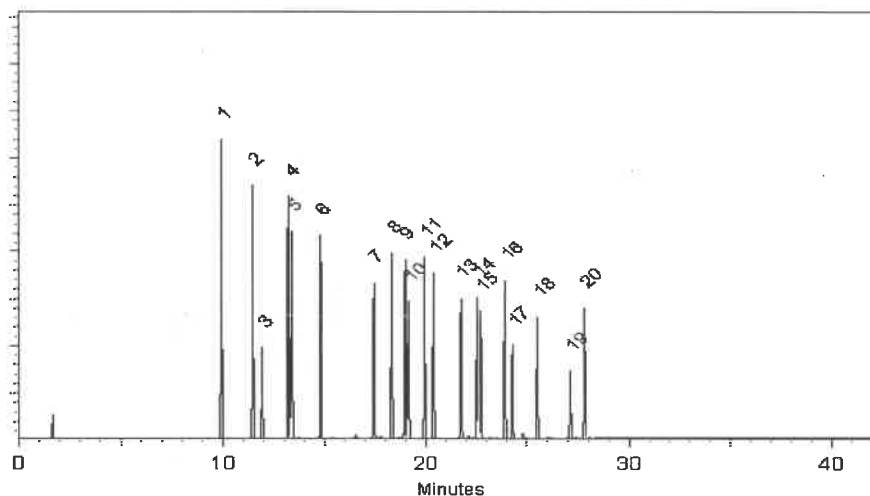
Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
Split ratio 50:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 31-Jul-2023

Balance Serial # B442140311

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

19161
013124
CLP Pesticides & PCBs Resolution Check Standard

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):

9 components
013129
Refrigerate (4 °C)
Varied

Solvent(s):
Hexane
Toluene
Lot#
273615
(50%)
28508
(50%)

NIST Test ID#:

6UTB

Volume(s) shown below were combined and diluted to (mL):

5E-05
Balance Uncertainty
0.021
Pipet Uncertainty

<i>Lawrence Barry</i>	
Formulated By:	Lawrence Barry
DATE	013124
<i>Pedro L. Rentes</i>	
Reviewed By:	Pedro L. Rentes
DATE	013124

Compound

1. trans-Chlordane	19361	013124	0.010	1.00	0.004	101.3	1.0	0.02	5103-74-2	0.5mg/m3 (skin)	or-rat 500mg/kg
2. Endosulfan I	19361	013124	0.010	1.00	0.004	101.3	1.0	0.02	959-98-8	0.1mg/m3 (skin)	or-rat 18mg/kg
3. 4,4'-DDE	19361	013124	0.010	1.00	0.004	201.6	2.0	0.03	72-55-9	N/A	or-rat 880mg/kg
4. Dieldrin	19361	013124	0.010	1.00	0.004	202.8	2.0	0.03	60-57-1	0.25mg/m3 (skin)	or-rat 36300ug/kg
5. Endosulfan sulfate	19361	013124	0.010	1.00	0.004	204.2	2.0	0.03	1031-07-8	N/A	or-rat 18mg/kg
6. Endrin ketone	19361	013124	0.010	1.00	0.004	202.6	2.0	0.03	53494-70-5	N/A	N/A
7. 4,4-Methoxychlor	19361	013124	0.010	1.00	0.004	1000.7	10.0	0.09	72-43-5	10mg/m3	or-rat 6000mg/kg
8. 2,4,5,6-Tetrachloro-m-xylene	19361	013124	0.010	1.00	0.004	202.6	2.0	0.03	877-09-8	N/A	N/A
9. Decachlorobiphenyl (209)	19361	013124	0.010	1.00	0.004	202.0	2.0	0.03	2051-24-3	N/A	N/A

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0206810

Description : Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

P13348
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P13357
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BAUF
04/25/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 µg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Quality Confirmation Test

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

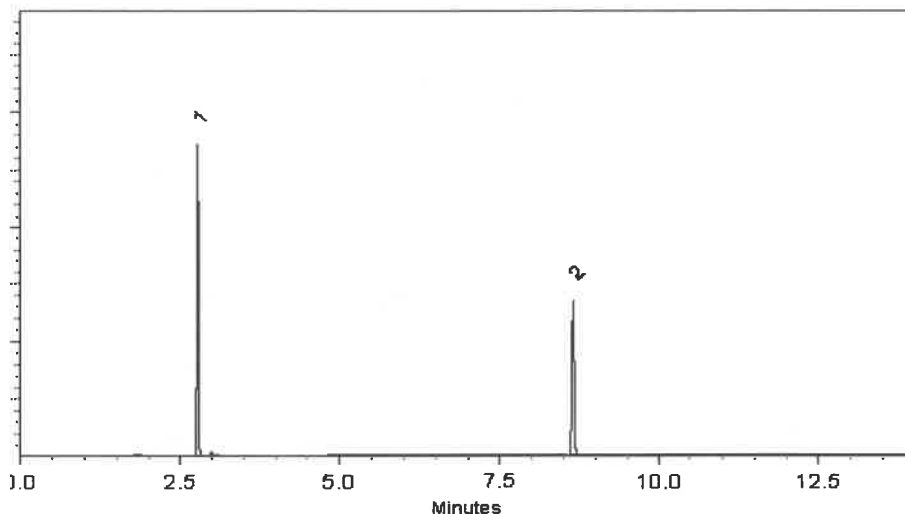
ECD

Split Vent:

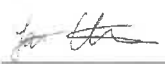
10 ml/min.

Inj. Vol

1µl

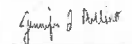


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

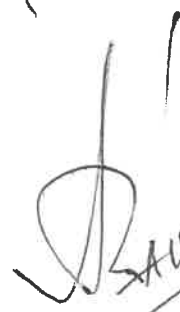
Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

P 13348
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P 13357
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SAUF
04/25/2025



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0206810

Description : Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

P13348
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P13357
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DAUF
04/25/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 µg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Quality Confirmation Test

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

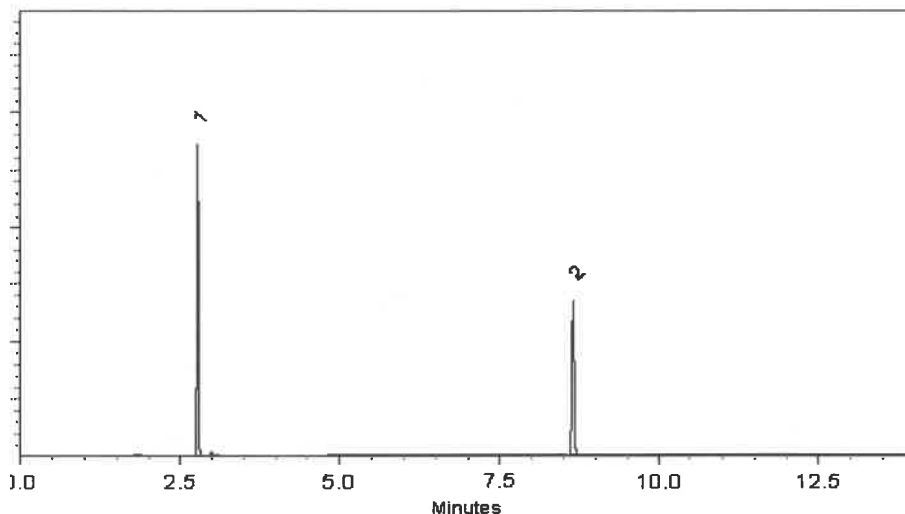
ECD

Split Vent:

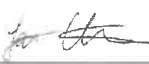
10 ml/min.

Inj. Vol

1µl

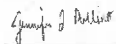


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

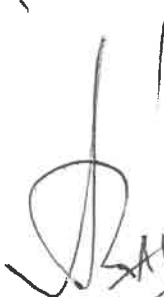
Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

P 13348
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P 13357
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04/25/2025



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32000 **Lot No.:** A0206810

Description : Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

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04/25/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 µg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Quality Confirmation Test

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

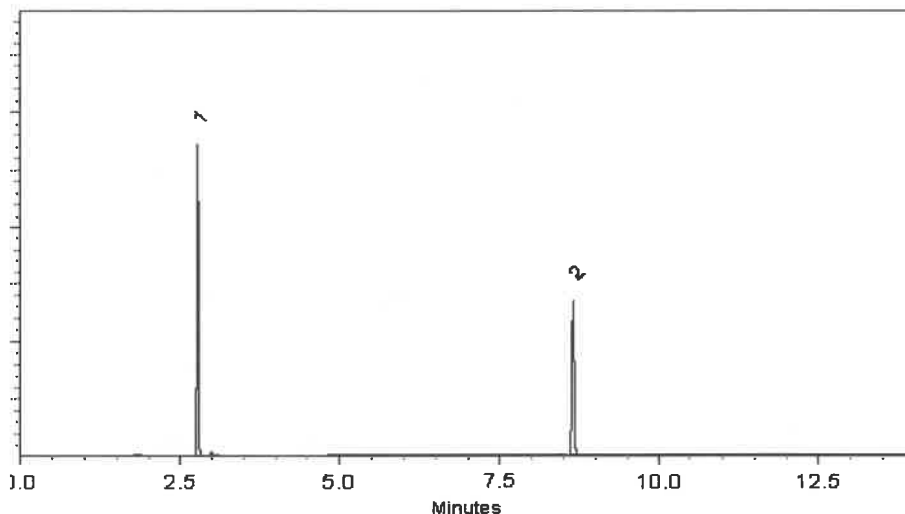
ECD

Split Vent:

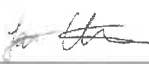
10 ml/min.

Inj. Vol

1µl

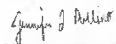


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Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

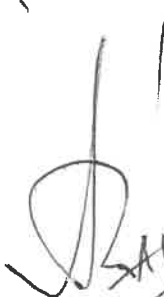
Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397

P 13348
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P 13357
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32005 **Lot No.:** A0203038

Description : Toxaphene Standard

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	----%	1,009.0 µg/mL	+/- 55.9920

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P 13358
↓
P 13369
(12)

✓
05-06-2024

Quality Confirmation Test

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

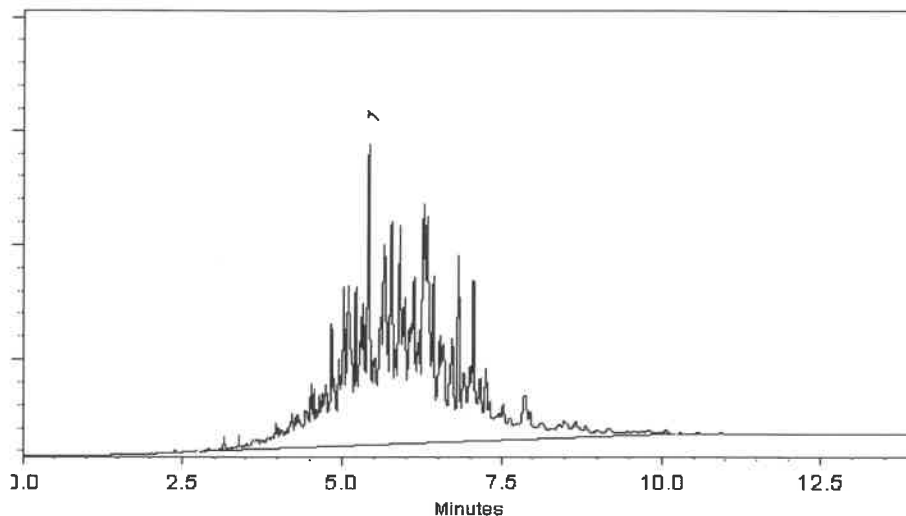
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 10-Oct-2023

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

P13358
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P13369
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(12)


05-06-2024



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32005 **Lot No.:** A0203038

Description : Toxaphene Standard
Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2028 **Storage:** 10°C or colder
Ship: Ambient

P13402
P13406
5/22/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	---%	1,009.0 µg/mL	+/- 55.9920

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

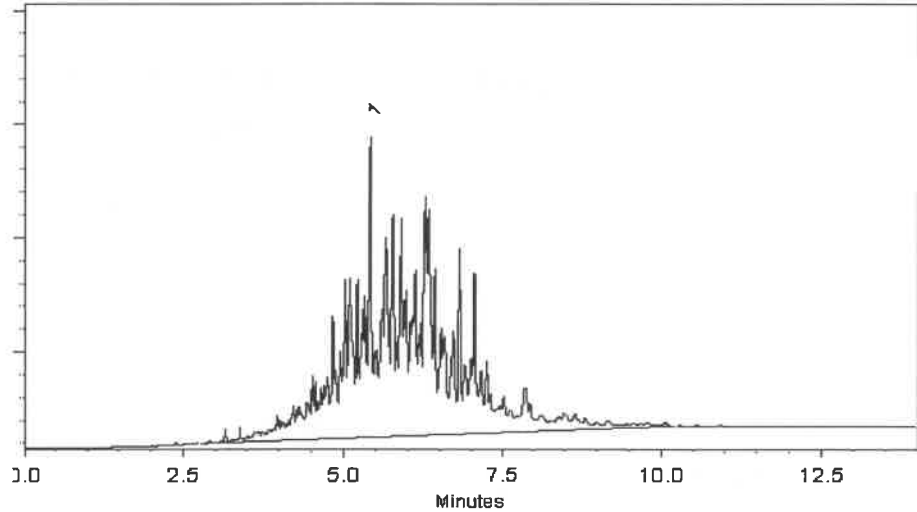
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl

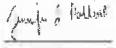


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

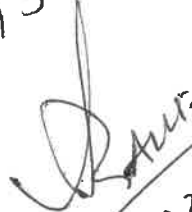
Date Mixed: 10-Oct-2023

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

P13402
↓
P13406 } (5)

5/22/2024



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: AECOM

ADDRESS: 605 3rd Ave

CITY: New York STATE: NY ZIP: 10158

ATTENTION: Amit Haryani

PHONE:

FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Meeker Ave Superfund

PROJECT NO.: 6070586 LOCATION: Brooklyn

PROJECT MANAGER: Amit Haryani

e-mail: amit.haryani@aecom.com

PHONE:

FAX:

CLIENT BILLING INFORMATION

BILL TO:

PO#:

ADDRESS:

CITY:

STATE:

ZIP:

ATTENTION:

PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 3 day DAYS*

HARDCOPY (DATA PACKAGE): DAYS*

EDD: DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
☐ + Raw Data ☐ Other _____
☐ EDD FORMAT _____

1. TCLP VOA
 2. TCLP BNA PCB
 3. TCLP PCBs
 4. TCLP Metals
 5. Lead, Cadmium
 6. Rock. Cyanide
 7. pH
 8. Flash Point
 9. 20:1 Filter

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	WC-11-A-202411	GW	X		11/19/24	0700	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: 2.4°C
1. [Signature]	11/19/24	1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. [Signature]		2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1450	RECEIVED BY:	
3. [Signature]	11-19-24	3. [Signature]	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete

☐ YES ☐ NO



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

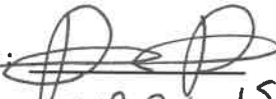
LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4921	AE CO02	Order Date : 11/19/2024 12:44:00 PM	Project Mgr :
Client Name : AECOM		Project Name : Meeker Ave Plumes Superfi	Report Type : Results+QC
Client Contact : Amit Haryani		Receive DateTime : 11/19/2024 12:00:00 AM	EDD Type : Excel NY
Invoice Name : AECOM		Purchase Order : 14:50	Hard Copy Date :
Invoice Contact : Amit Haryani			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4921-01	WC-11-A-202411	Water	11/19/2024	07:00	TCLP VOA		8260D		3 Bus. Days

Relinquished By :

Date / Time :


11-19-24 1530

Received By :

Date / Time :


11-19-24 1530

Storage Area : VOA Refridgerator Room