

Cover Page

Order ID : Q1901

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number

Q1901-01
Q1901-02
Q1901-03
Q1901-04
Q1901-05
Q1901-06
Q1901-07
Q1901-08
Q1901-09
Q1901-10
Q1901-11

Client Sample Number

B-170-SB00
B-167-SB01
B-170-SB01
B-167-SB02
B-170-SB02
FB04262025
TB04262025
B-167-SB01
B-170-SB01
B-167-SB02
B-170-SB02

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: 5/6/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Portal Partners Tri-Venture

Project Name: Amtrak Sawtooth Bridges 2025

Project # N/A

Chemtech Project # Q1901

Test Name: TCLP Pesticide

A. Number of Samples and Date of Receipt:

9 Solid samples were received on 04/28/2025.

2 Water samples were received on 04/28/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Flash Point, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP FULL, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TPH GC, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP Pesticide.

C. Analytical Techniques:

The analysis was performed on instrument ECD_D. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df.; Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11. The analysis of TCLP Pesticides was based on method 8081B and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .



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

E. Additional Comments:

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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 #: Q1901

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: MAHESH PATEL

Date: 05/06/2025

LAB CHRONICLE

OrderID:	Q1901	OrderDate:	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	B-167-SB01	SOIL	TPH GC	8015D	04/26/25	04/29/25	04/29/25	04/28/25
Q1901-03	B-170-SB01	SOIL	TPH GC	8015D	04/26/25	04/29/25	04/29/25	04/28/25
Q1901-04	B-167-SB02	SOIL	TPH GC	8015D	04/26/25	04/29/25	04/29/25	04/28/25
Q1901-05	B-170-SB02	SOIL	TPH GC	8015D	04/26/25	04/29/25	04/29/25	04/28/25
Q1901-08	B-167-SB01	TCLP	TCLP Pesticide	8081B	04/26/25	05/01/25	05/01/25	04/28/25
Q1901-09	B-170-SB01	TCLP	TCLP Pesticide	8081B	04/26/25	05/01/25	05/01/25	04/28/25
Q1901-10	B-167-SB02	TCLP	TCLP Pesticide	8081B	04/26/25	05/01/25	05/01/25	04/28/25
Q1901-11	B-170-SB02	TCLP	TCLP Pesticide	8081B	04/26/25	05/01/25	05/01/25	04/28/25



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

Hit Summary Sheet
SW-846

SDG No.: Q1901

Order ID: Q1901

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2025

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

Client ID :

Total Concentration: 0.000



QC SUMMARY

Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PD088121.D	PIBLK-PD088121.D	Decachlorobiphenyl	1	20	22.9	115		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.1	101		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.7	113		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.9	104		30 (77)	150 (126)
I.BLK-PD088368.D	PIBLK-PD088368.D	Decachlorobiphenyl	1	20	20.7	103		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.4	102		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	18.9	94		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.8	99		30 (77)	150 (126)
PB167820BL	PB167820BL	Decachlorobiphenyl	1	20	18.6	93		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.0	90		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	16.8	84		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.5	92		30 (77)	150 (126)
PB167820BS	PB167820BS	Decachlorobiphenyl	1	20	20.5	102		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.0	100		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	18.7	93		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.5	103		30 (77)	150 (126)
PB167774TB	PB167774TB	Decachlorobiphenyl	1	20	19.1	96		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.4	92		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	17.2	86		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.9	94		30 (77)	150 (126)
Q1901-08	B-167-SB01	Decachlorobiphenyl	1	20	20.7	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.5	97		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	18.5	92		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.6	98		30 (77)	150 (126)
Q1901-08MS	B-167-SB01MS	Decachlorobiphenyl	1	20	20.8	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.4	92		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.0	95		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.8	94		30 (77)	150 (126)
Q1901-08MSD	B-167-SB01MSD	Decachlorobiphenyl	1	20	20.8	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.4	92		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.0	95		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.9	94		30 (77)	150 (126)
Q1901-09	B-170-SB01	Decachlorobiphenyl	1	20	19.9	100		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.9	95		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	18.1	91		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.1	95		30 (77)	150 (126)
Q1901-10	B-167-SB02	Decachlorobiphenyl	1	20	19.3	96		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.5	92		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	17.4	87		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	18.0	90		30 (77)	150 (126)
Q1901-11	B-170-SB02	Decachlorobiphenyl	1	20	17.7	89		30 (43)	150 (140)

() = LABORATORY INHOUSE LIMIT

Surrogate Summary

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
Q1901-11	B-170-SB02	Tetrachloro-m-xylene	1	20	18.1	91		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	16.2	81		30 (43)	150 (140)
I.BLK-PD088383.D	PIBLK-PD088383.D	Tetrachloro-m-xylene	2	20	17.9	89		30 (77)	150 (126)
		Decachlorobiphenyl	1	20	21.0	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.4	102		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.9	99		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.9	100		30 (77)	150 (126)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

DataFile : PD088377.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec Qual	RPD Qual	Low	Limits High	RPD
Client Sample ID:	B-167-SB01MS									
Q1901-08MS	gamma-BHC (Lindane)	5	0	5.50	ug/L	110		30 (60)	150 (152)	
	Heptachlor	5	0	5.40	ug/L	108		30 (56)	150 (147)	
	Heptachlor epoxide	5	0	5.60	ug/L	112		30 (77)	150 (143)	
	Endrin	5	0	5.50	ug/L	110		30 (76)	150 (144)	
	Methoxychlor	5	0	5.10	ug/L	102		30 (70)	150 (142)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

DataFile : PD088378.D

Lab Sample ID:	Parameter	Spike	Sample		Units	Rec	Rec		RPD		Limits	
			Result	Result			Qual	RPD	Qual	Low	High	RPD
Client Sample ID:	B-167-SB01MSD											
Q1901-08MSD	gamma-BHC (Lindane)	5	0	5.50	ug/L	110		0		30 (60)	150 (152)	20 (20)
	Heptachlor	5	0	5.40	ug/L	108		0		30 (56)	150 (147)	20 (20)
	Heptachlor epoxide	5	0	5.50	ug/L	110		2		30 (77)	150 (143)	20 (20)
	Endrin	5	0	5.50	ug/L	110		0		30 (76)	150 (144)	20 (20)
	Methoxychlor	5	0	5.00	ug/L	100		2		30 (70)	150 (142)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: **8081B** **Datafile :** PD088371.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB167820BS	gamma-BHC (Lindane)	0.5	0.52	ug/L	104				40 (82)	140 (129)	
	Heptachlor	0.5	0.52	ug/L	104				40 (79)	140 (127)	
	Heptachlor epoxide	0.5	0.53	ug/L	106				40 (81)	140 (124)	
	Endrin	0.5	0.51	ug/L	102				40 (81)	140 (128)	
	Methoxychlor	0.5	0.46	ug/L	93				40 (78)	140 (108)	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167820BL

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1901

SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: PB167820BL

Lab File ID: PD088370.D

Matrix: (soil/water) water

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 05/01/2025

Date Analyzed (1): 05/01/2025

Date Analyzed (2): 05/01/2025

Time Analyzed (1): 13:39

Time Analyzed (2): 13:39

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

GC Column (1): ZB-MR1 ID: 0.32 (mm)

GC Column (2): ZB-MR2 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
PB167820BS	PB167820BS	PD088371.D	05/01/2025	05/01/2025
PB167774TB	PB167774TB	PD088372.D	05/01/2025	05/01/2025
B-167-SB01	Q1901-08	PD088376.D	05/01/2025	05/01/2025
B-167-SB01MS	Q1901-08MS	PD088377.D	05/01/2025	05/01/2025
B-167-SB01MSD	Q1901-08MSD	PD088378.D	05/01/2025	05/01/2025
B-170-SB01	Q1901-09	PD088379.D	05/01/2025	05/01/2025
B-167-SB02	Q1901-10	PD088380.D	05/01/2025	05/01/2025
B-170-SB02	Q1901-11	PD088381.D	05/01/2025	05/01/2025

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/01/25
Client Sample ID:	PB167774TB	SDG No.:	Q1901
Lab Sample ID:	PB167774TB	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
PD088372.D	1	05/01/25 08:56	05/01/25 14:06	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.1		30 (43) - 150 (140)	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.9		30 (77) - 150 (126)	94%	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_D\Data\PD050125\
 Data File : PD088372.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 May 2025 14:06
 Operator : AR\AJ
 Sample : PB167774TB
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PB167774TB

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 02 01:31:36 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.550	2.881	36831889	275.8E6	18.440	18.865
28) SA Decachlor...	9.073	8.074	63249202	317.9E6	19.119	17.201

Target Compounds

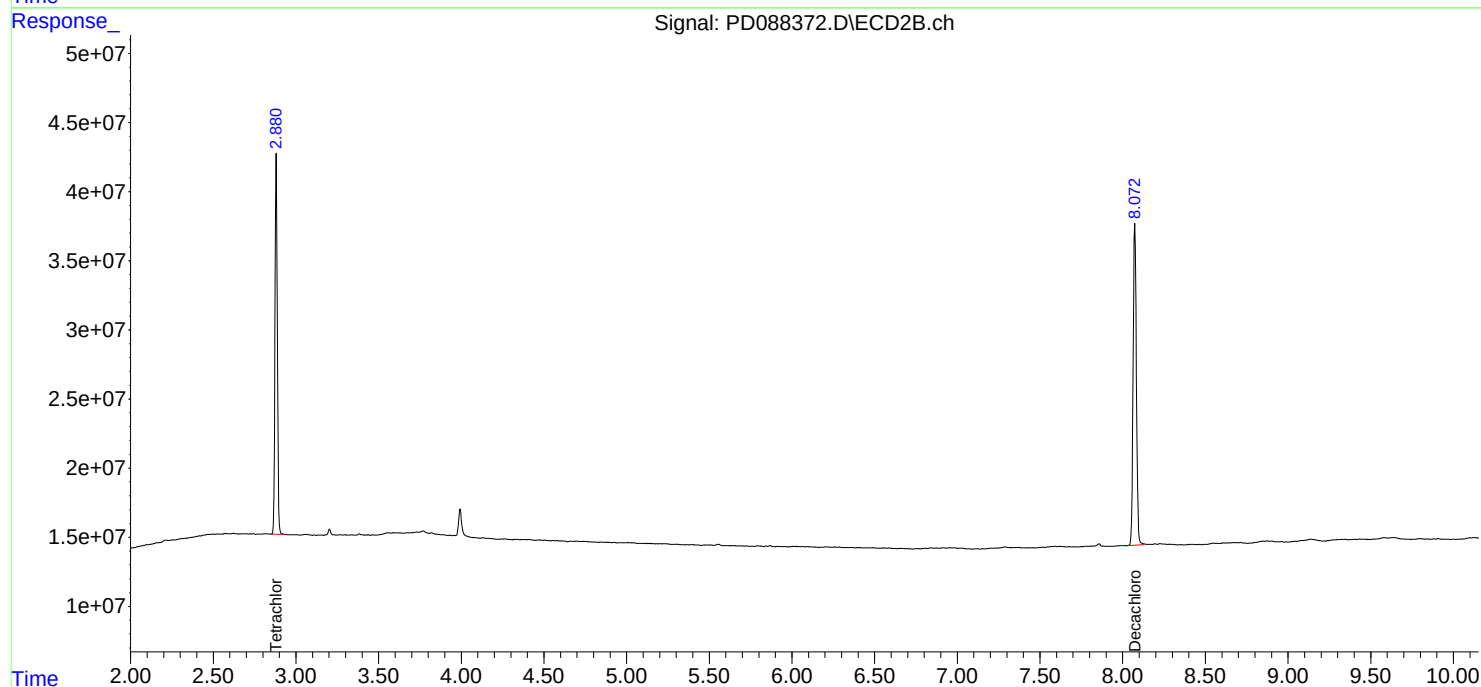
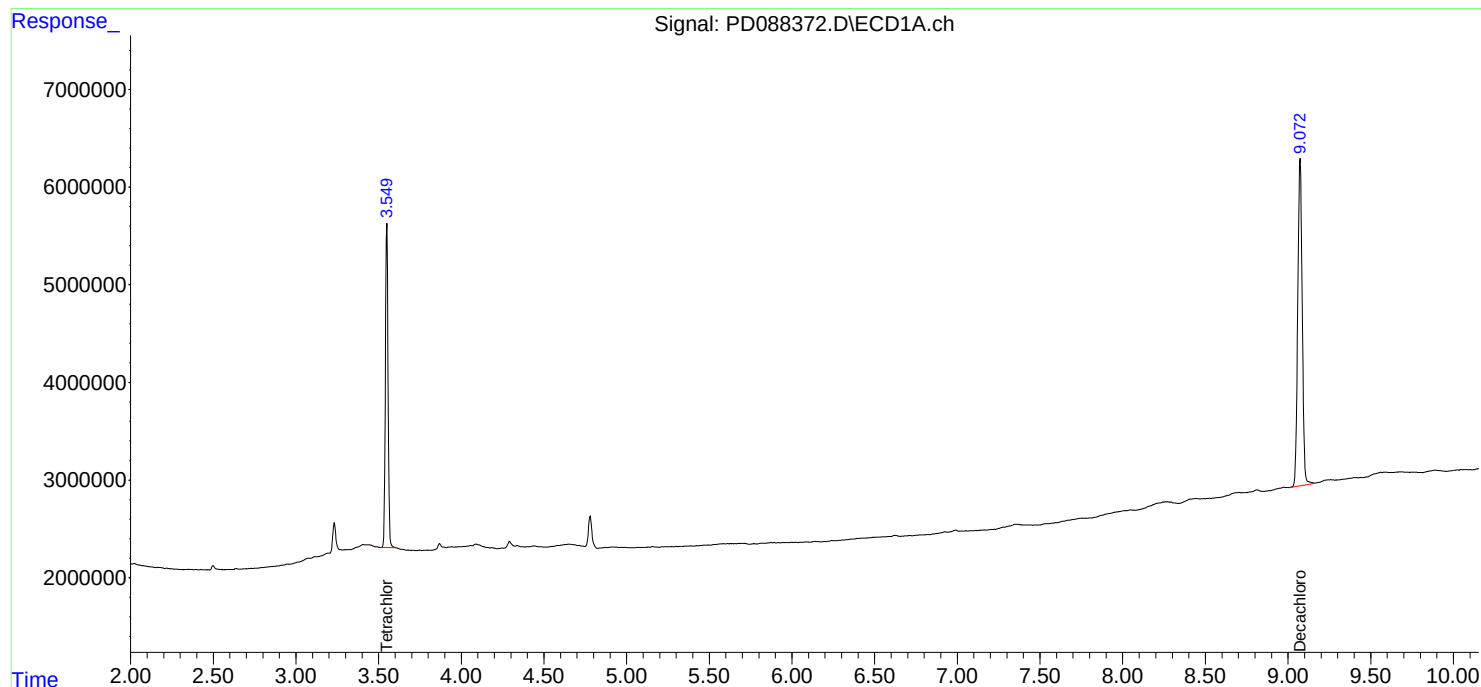
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

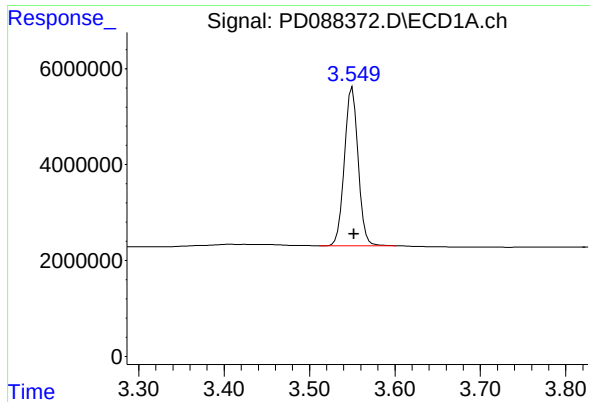
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088372.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 14:06
Operator : AR\AJ
Sample : PB167774TB
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB167774TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:31:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

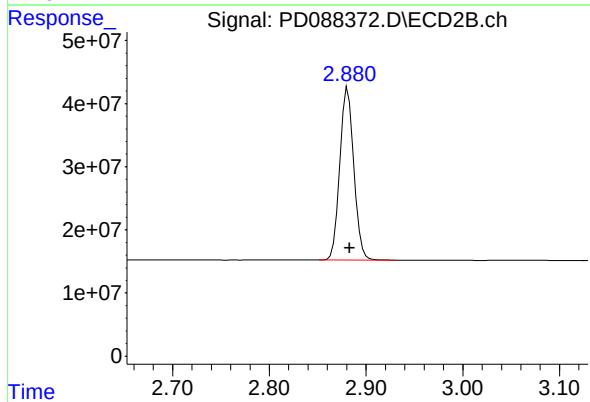




#1 Tetrachloro-m-xylene

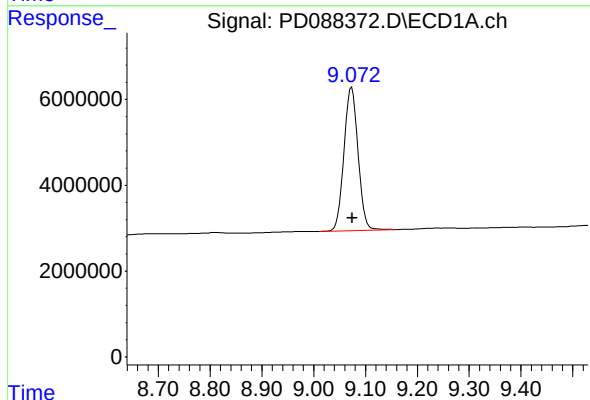
R.T.: 3.550 min
Delta R.T.: -0.002 min
Response: 36831889
Conc: 18.44 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167774TB



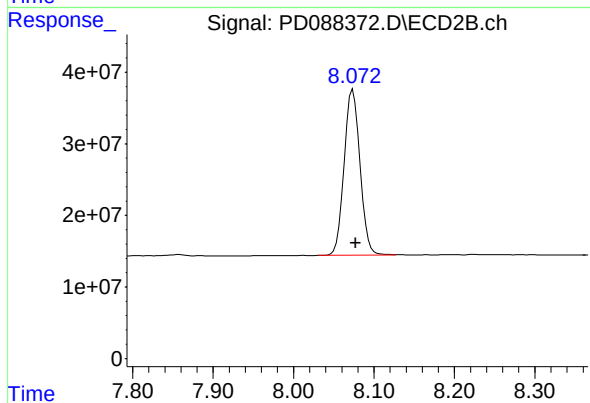
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: -0.002 min
Response: 275830853
Conc: 18.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.073 min
Delta R.T.: -0.002 min
Response: 63249202
Conc: 19.12 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 317876577
Conc: 17.20 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-08	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 :	SW3541B	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088376.D	1	05/01/25 08:56	05/01/25 15:01	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.7		30 (43) - 150 (140)	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.6		30 (77) - 150 (126)	98%	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_D\Data\PD050125\
 Data File : PD088376.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 May 2025 15:01
 Operator : AR\AJ
 Sample : Q1901-08
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 B-167-SB01

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 02 01:32:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.551	2.882	38920336	285.9E6	19.486	19.551
28) SA Decachlor...	9.075	8.076	68461731	341.7E6	20.695	18.492

Target Compounds

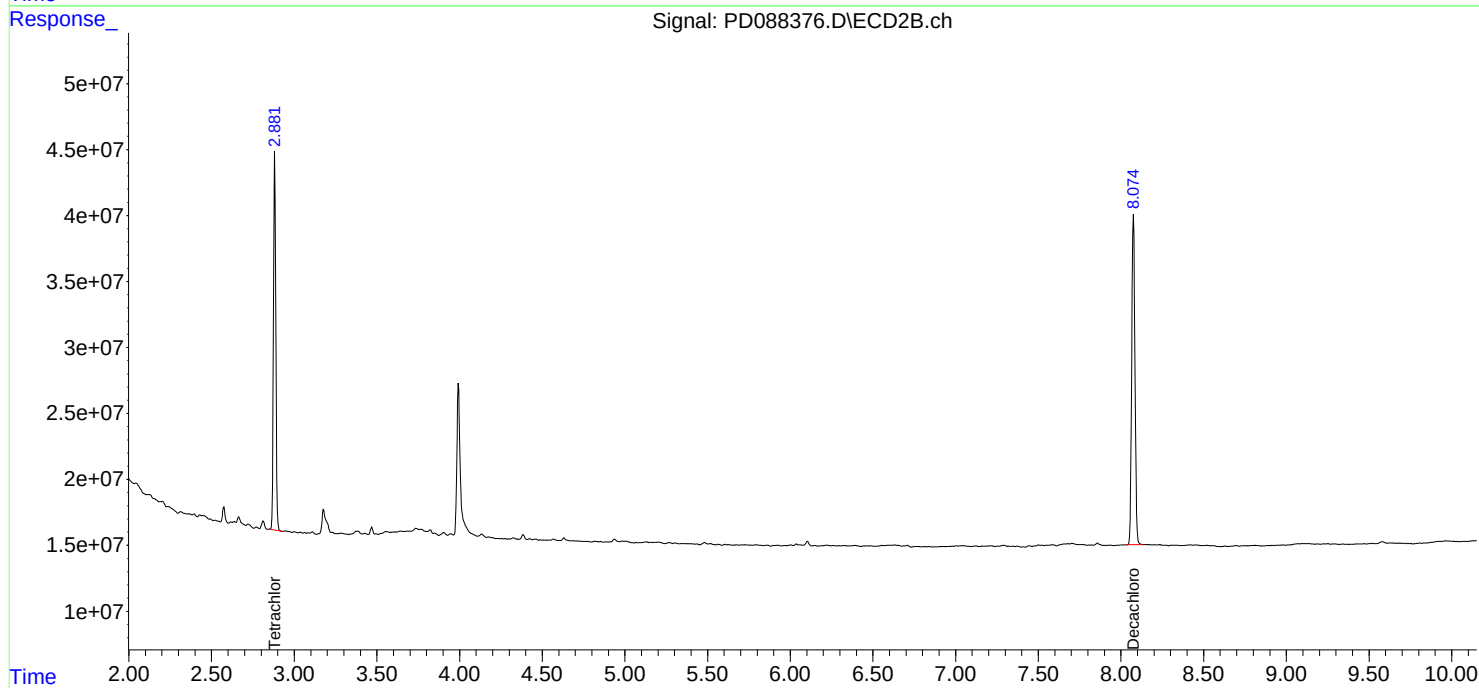
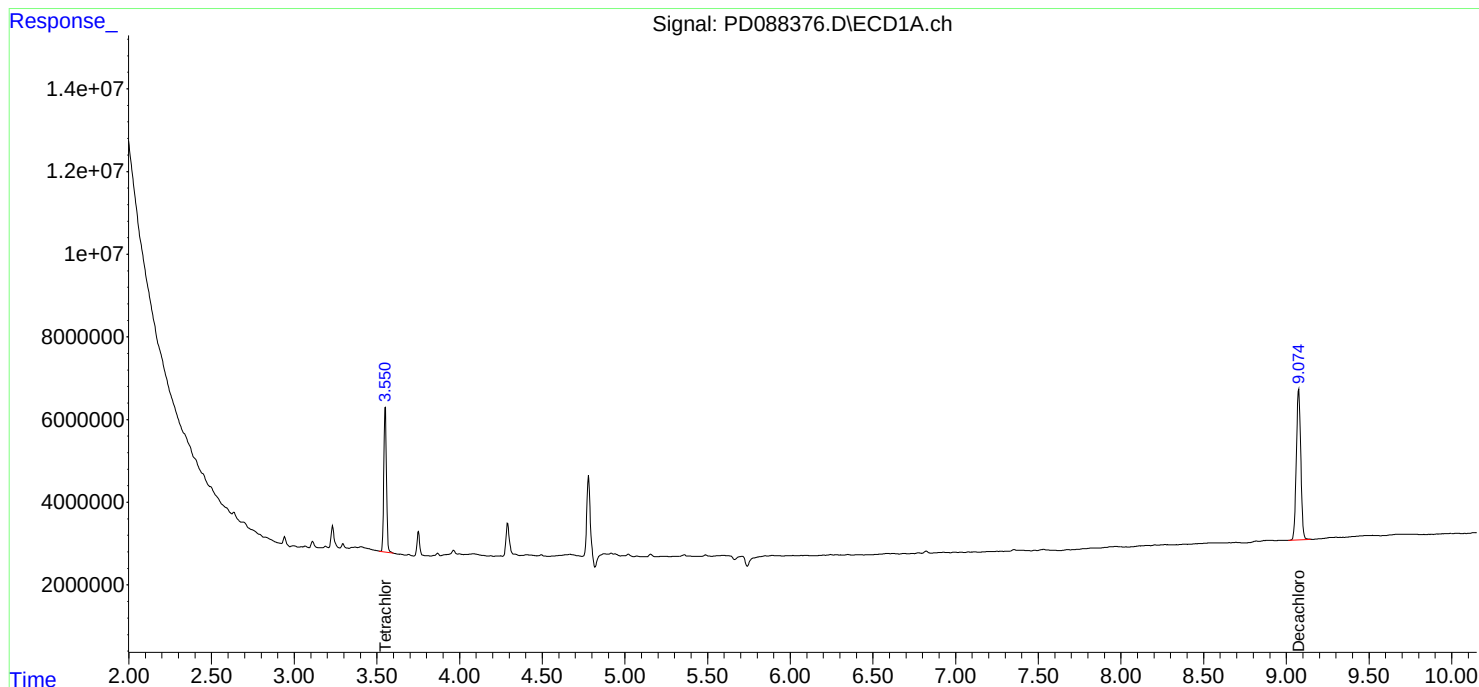
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

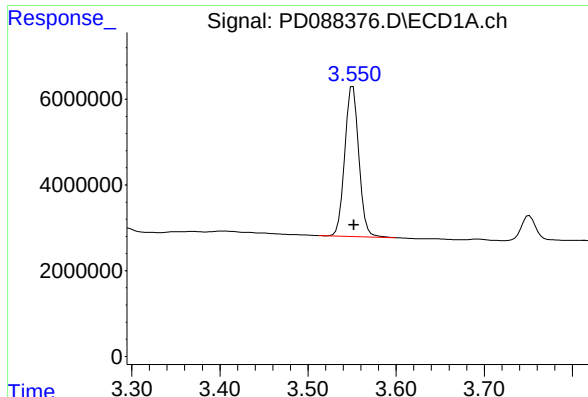
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088376.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:01
Operator : AR\AJ
Sample : Q1901-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-167-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

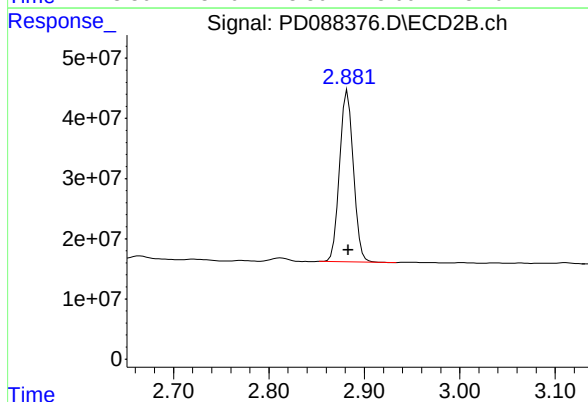




#1 Tetrachloro-m-xylene

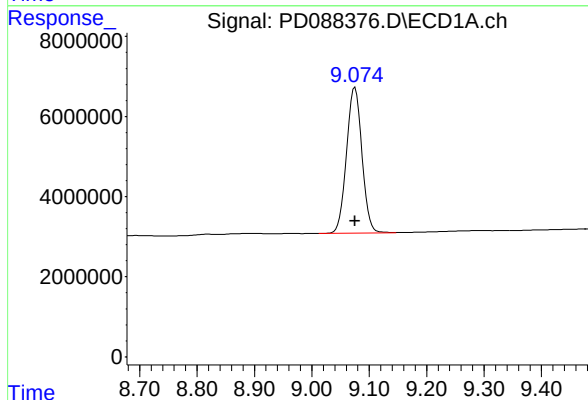
R.T.: 3.551 min
Delta R.T.: -0.001 min
Response: 38920336
Conc: 19.49 ng/ml

Instrument :
ECD_D
ClientSampleId :
B-167-SB01



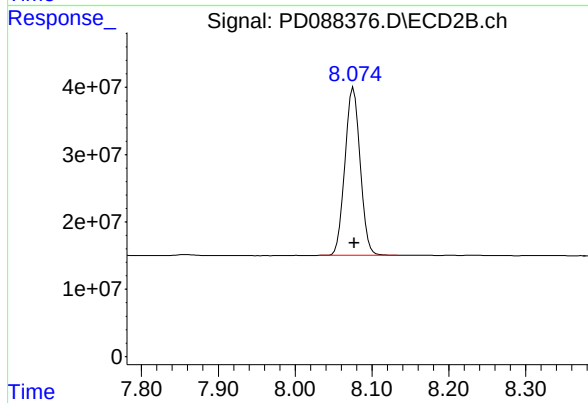
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 285868038
Conc: 19.55 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 68461731
Conc: 20.70 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: -0.001 min
Response: 341722367
Conc: 18.49 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-09	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 :	SW3541B	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088379.D	1	05/01/25 08:56	05/01/25 15:42	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.9		30 (43) - 150 (140)	100%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.1		30 (77) - 150 (126)	95%	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_D\Data\PD050125\
Data File : PD088379.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:42
Operator : AR\AJ
Sample : Q1901-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-170-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 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...	3.551	2.882	37826834	278.7E6	18.938	19.063
28) SA Decachlor...	9.074	8.075	65897934	335.1E6	19.920	18.131

Target Compounds

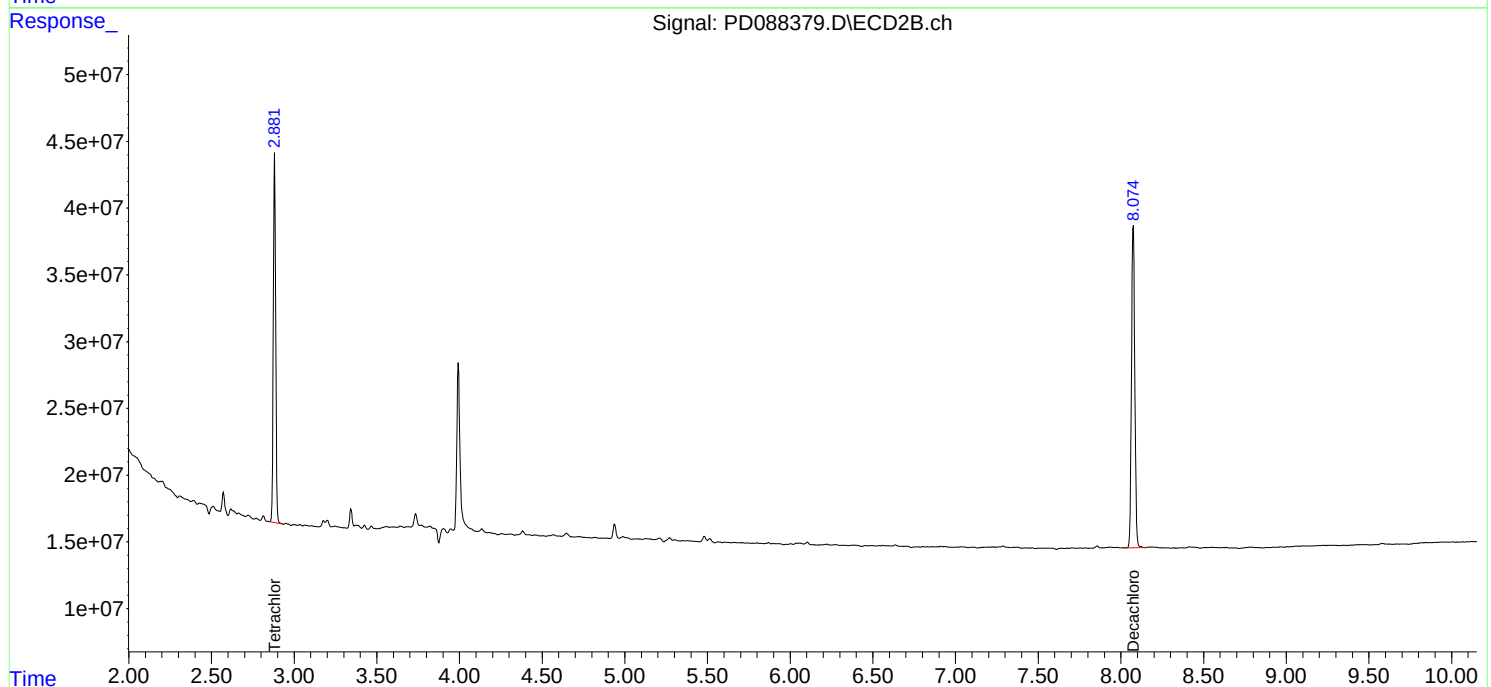
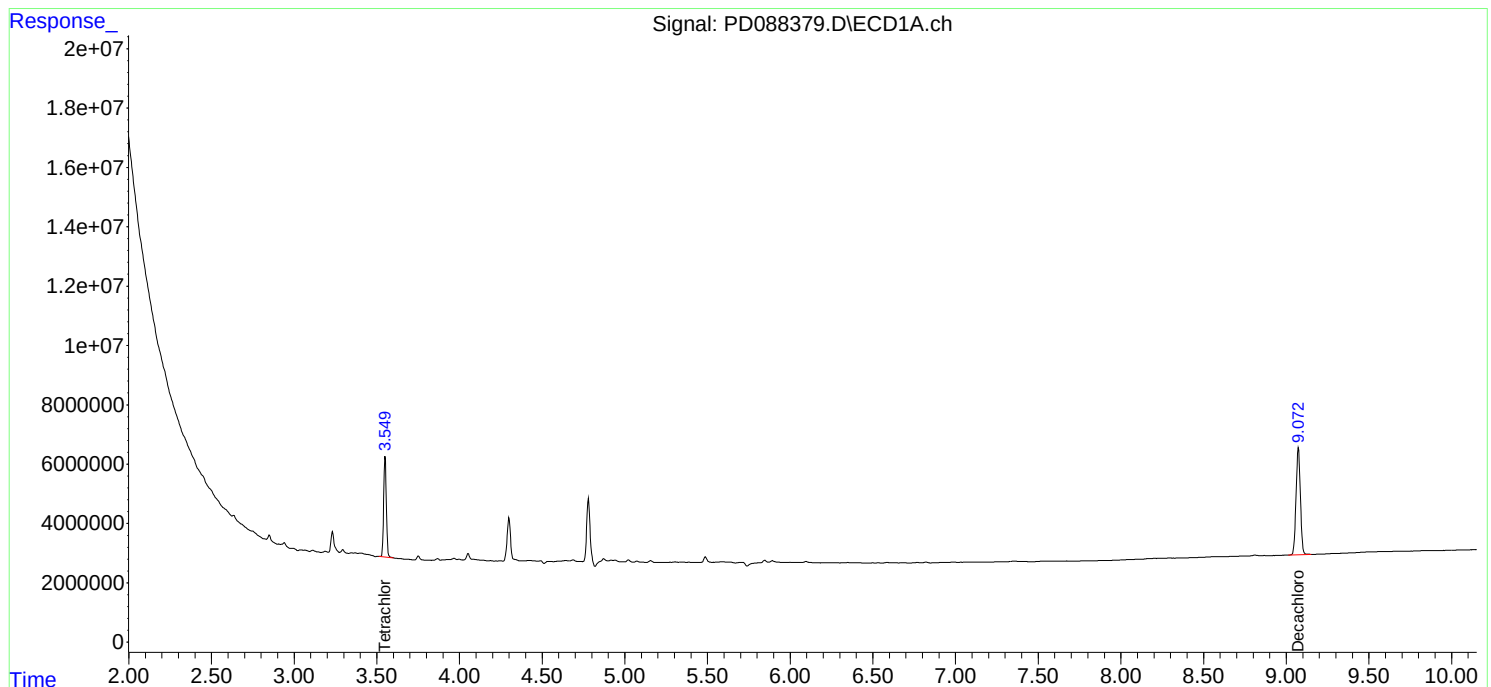
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

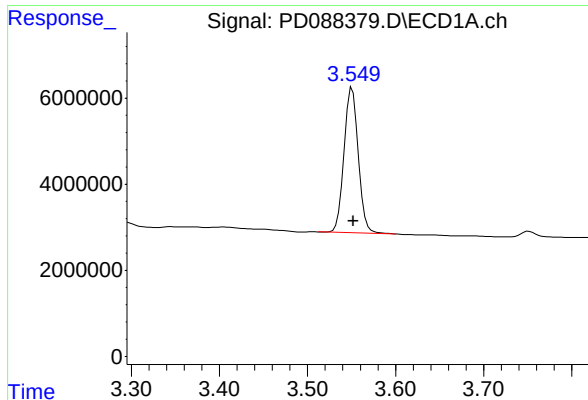
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088379.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:42
Operator : AR\AJ
Sample : Q1901-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-170-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

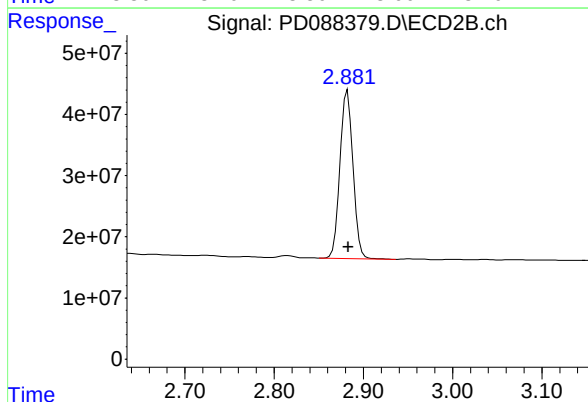




#1 Tetrachloro-m-xylene

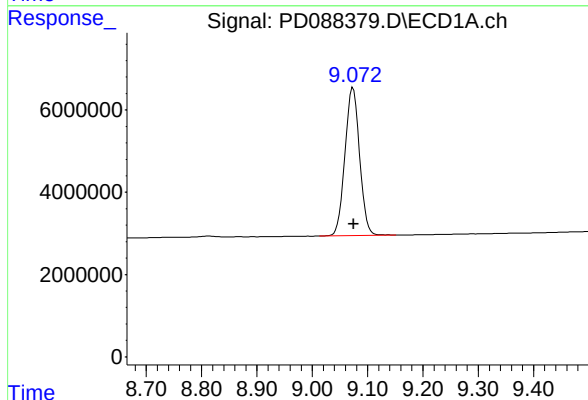
R.T.: 3.551 min
Delta R.T.: -0.001 min
Response: 37826834
Conc: 18.94 ng/ml

Instrument :
ECD_D
ClientSampleId :
B-170-SB01



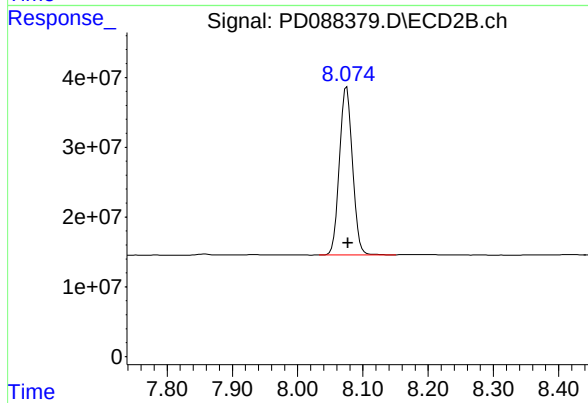
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 278728559
Conc: 19.06 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: -0.001 min
Response: 65897934
Conc: 19.92 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 335062220
Conc: 18.13 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-10	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 :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088380.D	1	05/01/25 08:56	05/01/25 15:56	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.3		30 (43) - 150 (140)	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.5		30 (77) - 150 (126)	92%	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_D\Data\PD050125\
Data File : PD088380.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:56
Operator : AR\AJ
Sample : Q1901-10
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-167-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:33:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 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...	3.551	2.883	36913185	262.7E6	18.481	17.966
28) SA Decachlor...	9.073	8.075	63730197	321.6E6	19.265	17.403

Target Compounds

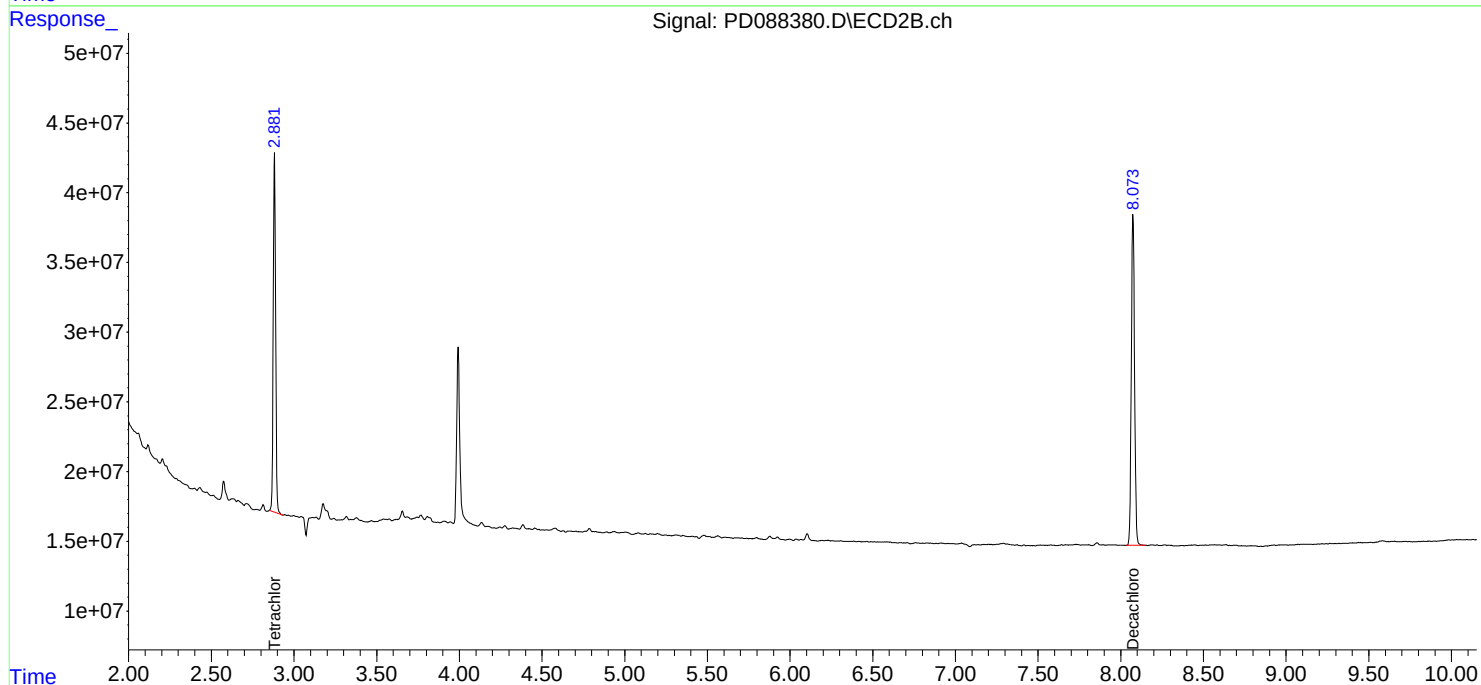
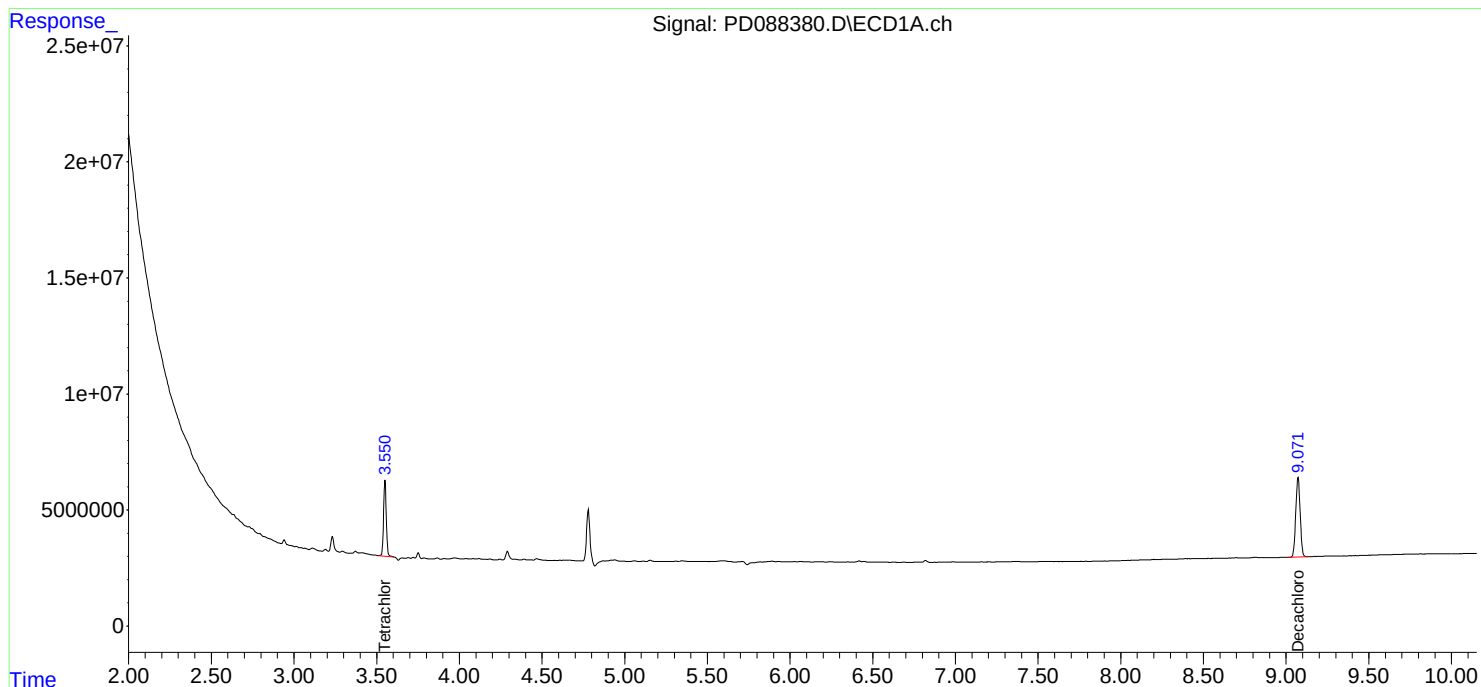
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

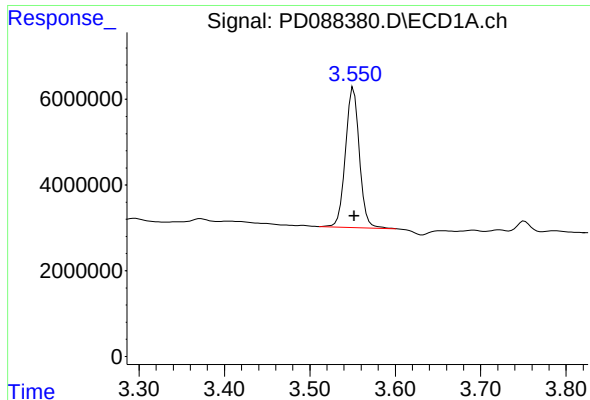
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088380.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:56
Operator : AR\AJ
Sample : Q1901-10
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-167-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:33:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

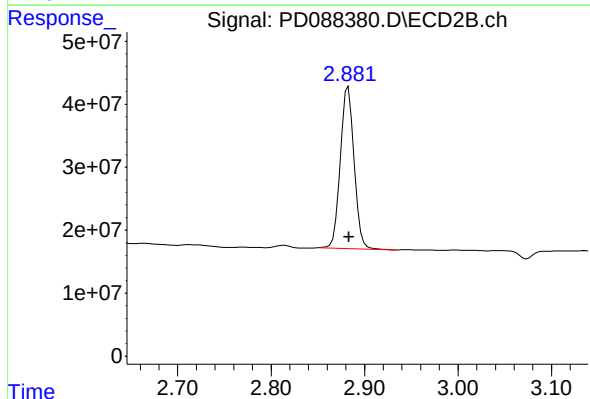




#1 Tetrachloro-m-xylene

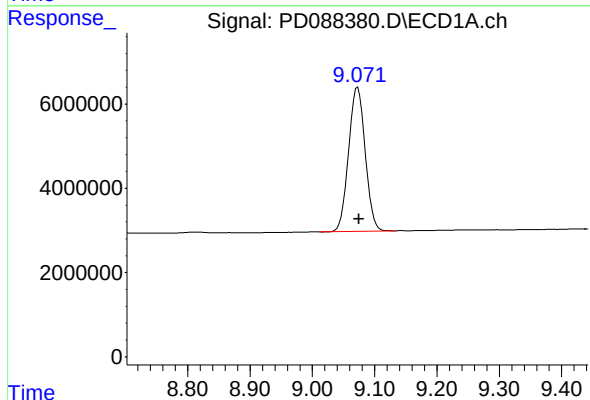
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 36913185
Conc: 18.48 ng/ml

Instrument :
ECD_D
ClientSampleId :
B-167-SB02



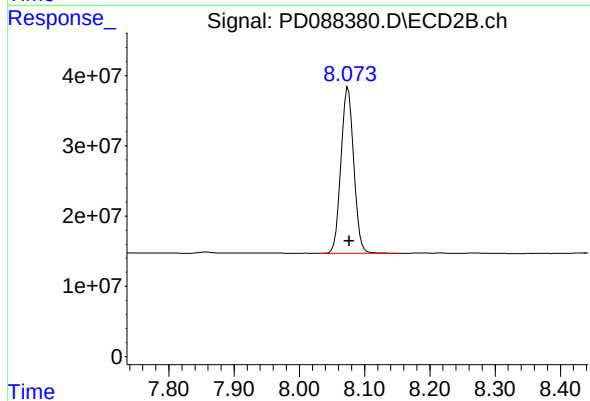
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 262693661
Conc: 17.97 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.073 min
Delta R.T.: -0.002 min
Response: 63730197
Conc: 19.26 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 321607992
Conc: 17.40 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-11	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 :	SW3541B	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088381.D	1	05/01/25 08:56	05/01/25 16:10	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.7		30 (43) - 150 (140)	89%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.1		30 (77) - 150 (126)	91%	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_D\Data\PD050125\
 Data File : PD088381.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 May 2025 16:10
 Operator : AR\AJ
 Sample : Q1901-11
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 B-170-SB02

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 02 01:33:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.551	2.882	36221576	261.2E6	18.134	17.861
28) SA Decachlor...	9.074	8.075	58572360	299.6E6	17.706	16.214

Target Compounds

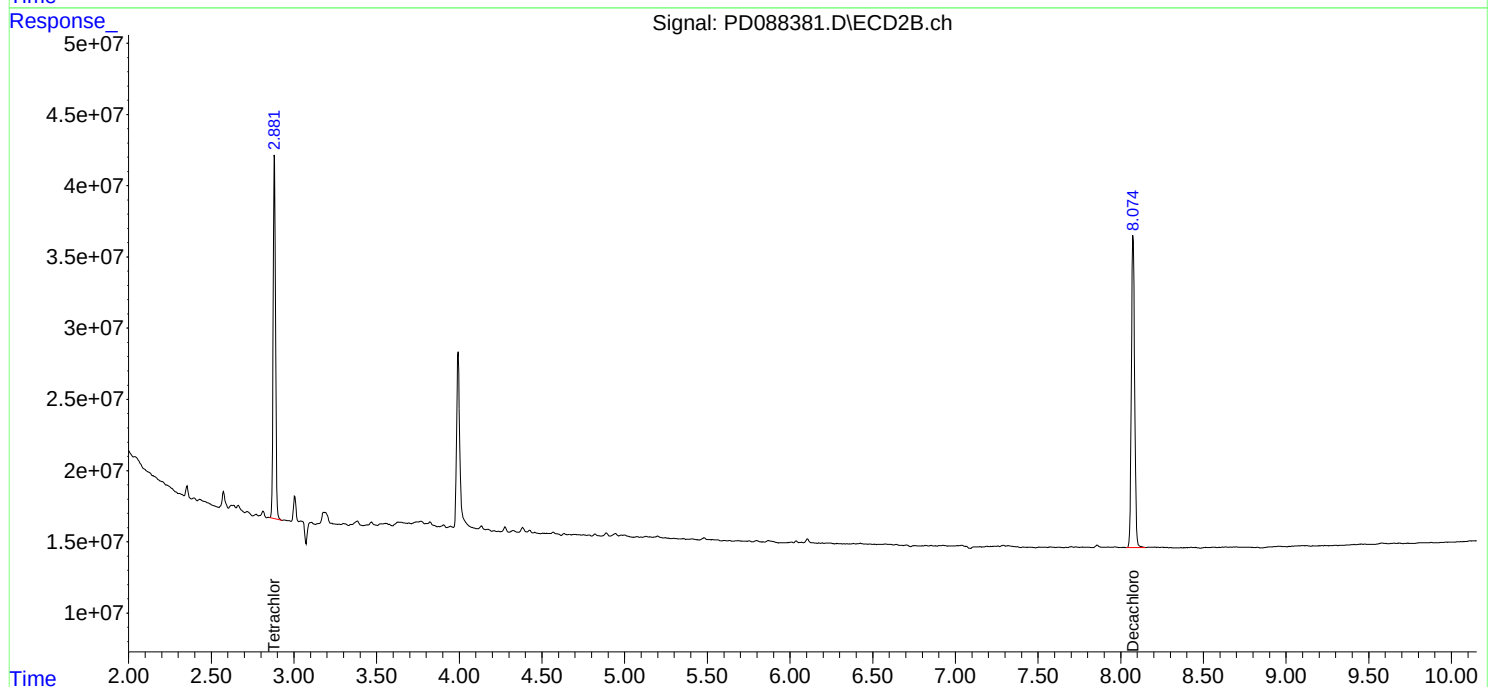
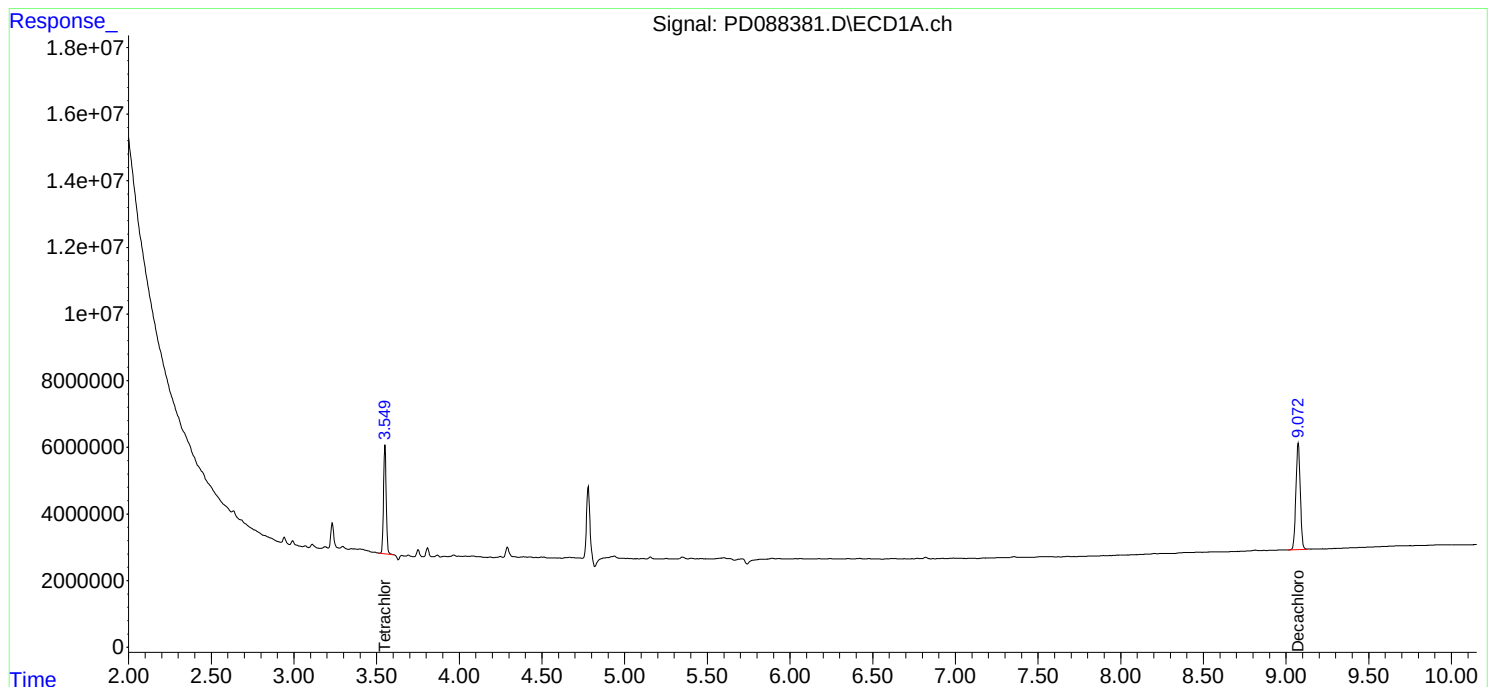
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

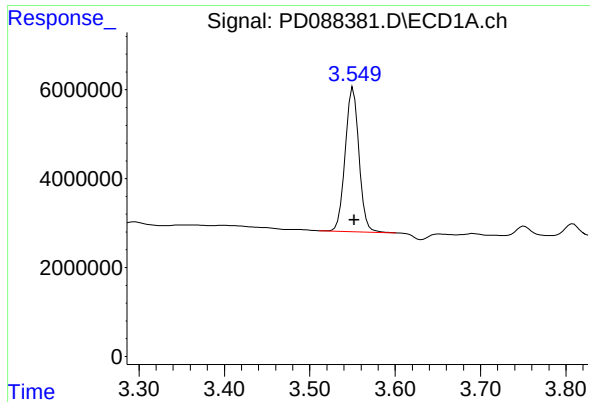
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088381.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 16:10
Operator : AR\AJ
Sample : Q1901-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-170-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:33:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

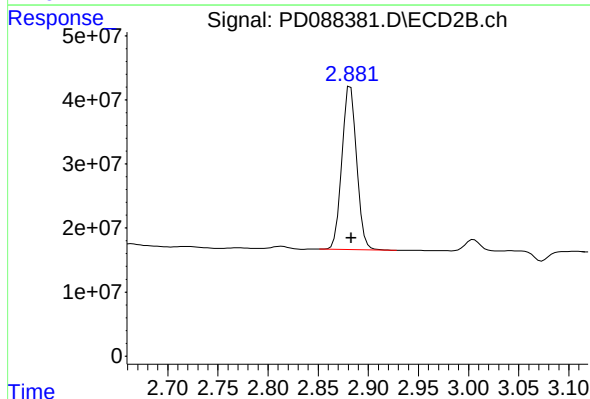




#1 Tetrachloro-m-xylene

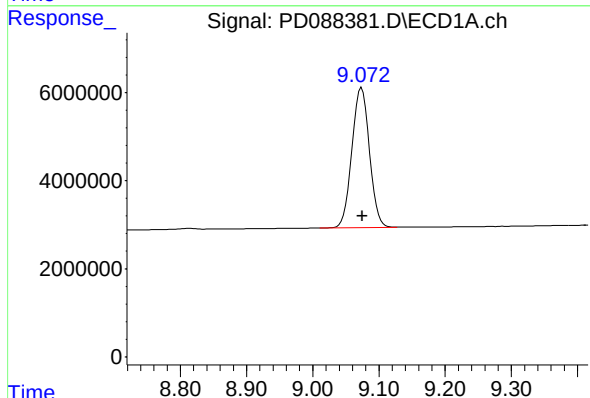
R.T.: 3.551 min
Delta R.T.: -0.001 min
Response: 36221576
Conc: 18.13 ng/ml

Instrument :
ECD_D
ClientSampleId :
B-170-SB02



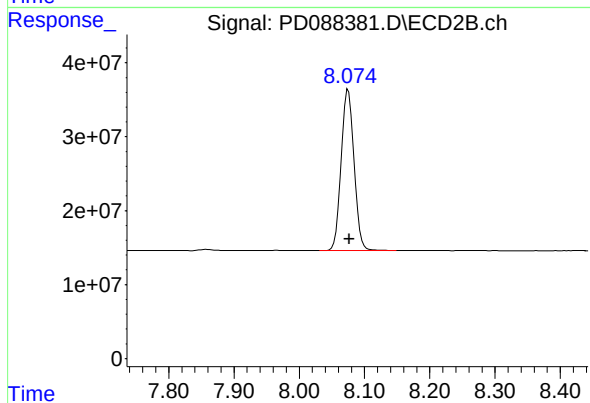
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 261153881
Conc: 17.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: -0.001 min
Response: 58572360
Conc: 17.71 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 299625668
Conc: 16.21 ng/ml



CALIBRATION SUMMARY

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

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06
Lab Code: CHEM **Case No.:** Q1901 **SAS No.:** Q1901 **SDG NO.:** Q1901
Instrument ID: ECD_D **Calibration Date(s):** 04/18/2025 04/18/2025
Calibration Times: 13:56 14:51

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

LAB FILE ID:	RT 100 = <u>PD088124.D</u>	RT 075 = <u>PD088125.D</u>
RT 050 = <u>PD088126.D</u>	RT 025 = <u>PD088127.D</u>	RT 005 = <u>PD088128.D</u>

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW	
							FROM	TO
Decachlorobiphenyl	8.09	8.08	8.08	8.08	8.08	8.08	7.98	8.18
Endrin	5.81	5.79	5.79	5.79	5.79	5.80	5.70	5.90
gamma-BHC (Lindane)	3.75	3.73	3.73	3.73	3.73	3.74	3.64	3.84
Heptachlor	4.10	4.09	4.09	4.09	4.09	4.09	3.99	4.19
Heptachlor epoxide	4.89	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Methoxychlor	6.77	6.76	6.76	6.76	6.76	6.76	6.66	6.86
Tetrachloro-m-xylene	2.90	2.88	2.88	2.88	2.88	2.89	2.79	2.99



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Instrument ID: ECD_D

Calibration Date(s): 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

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

LAB FILE ID:		CF 100 =	<u>PD088124.D</u>	CF 075 =	<u>PD088125.D</u>		
CF 050 =		<u>PD088126.D</u>	CF 025 =	<u>PD088127.D</u>	CF 005 =	<u>PD088128.D</u>	
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	3080820000	3141130000	3178140000	3290360000	3850090000	3308110000	9
Endrin	3128180000	3077300000	2935450000	2806460000	2965440000	2982570000	4
gamma-BHC (Lindane)	4507210000	4365130000	4155030000	3887470000	4022700000	4187510000	6
Heptachlor	4264490000	4159110000	3978190000	3781390000	4011590000	4038950000	5
Heptachlor epoxide	3670910000	3598060000	3486330000	3389810000	3724620000	3573950000	4
Methoxychlor	1461300000	1466360000	1467850000	1483290000	1618930000	1499540000	4
Tetrachloro-m-xylene	1982340000	2006790000	1938680000	1923660000	2135510000	1997400000	4



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Instrument ID: ECD_D

Calibration Date(s): 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

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

LAB FILE ID:		CF 100 =	<u>PD088124.D</u>	CF 075 =	<u>PD088125.D</u>		
CF 050 =		<u>PD088126.D</u>	CF 025 =	<u>PD088127.D</u>	CF 005 =	<u>PD088128.D</u>	
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	16767000000	17098200000	17470300000	18387600000	22674800000	18479600000	13
Endrin	16756200000	17001500000	17464500000	18215500000	21574100000	18202300000	11
gamma-BHC (Lindane)	20140800000	20226900000	20558100000	21137200000	25630400000	21538700000	11
Heptachlor	19826900000	20021500000	20522700000	21298800000	25320700000	21398100000	11
Heptachlor epoxide	17359900000	17576100000	18079700000	18879200000	22576700000	18894300000	11
Methoxychlor	8272330000	8467510000	8839240000	9290490000	10735700000	9121060000	11
Tetrachloro-m-xylene	13615300000	13685800000	14010800000	14551200000	17245000000	14621600000	10



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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Instrument ID: ECD_D Date(s) Analyzed: 04/18/2025 04/18/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Chlordane	500	1	4.72	4.62	4.82	161995000
		2	5.24	5.14	5.34	160780000
		3	5.95	5.85	6.05	666185000
		4	6.03	5.93	6.13	797101000
		5	6.87	6.77	6.97	133051000
Toxaphene	500	1	6.24	6.14	6.34	23597900
		2	6.44	6.34	6.54	34064600
		3	7.15	7.05	7.25	65326300
		4	7.57	7.47	7.67	82045400
		5	7.93	7.83	8.03	47715200



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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Instrument ID: ECD_D Date(s) Analyzed: 04/18/2025 04/18/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Chlordane	500	1	3.91	3.81	4.01	767527000
		2	4.49	4.39	4.59	783082000
		3	5.13	5.03	5.23	2396830000
		4	5.19	5.09	5.29	2031740000
		5	6.09	5.99	6.19	931551000
Toxaphene	500	1	5.48	5.38	5.58	130682000
		2	5.65	5.55	5.75	89513500
		3	6.76	6.66	6.86	417352000
		4	7.20	7.10	7.30	302911000
		5	7.33	7.23	7.43	207761000

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
 Data File : PD088124.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 13:56
 Operator : AR\AJ
 Sample : PSTDICC100
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PSTDICC100

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 04/19/2025

Supervised By :mohammad ahmed 04/22/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 19 04:25:25 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 04:25:16 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.551	2.900	198.2E6	1361.5E6	101.114	98.568
28) SA Decachlor...	9.075	8.093	308.1E6	1676.7E6	98.445	97.946
Target Compounds						
2) A alpha-BHC	4.001	3.413	478.3E6	2191.3E6	104.846	99.598
3) MA gamma-BHC...	4.332	3.749	450.7E6	2014.1E6	104.066	98.975
4) MA Heptachlor	4.931	4.103	426.4E6	1982.7E6	103.473	98.276
5) MB Aldrin	5.273	4.389	419.1E6	1944.0E6	103.451	98.579
6) B beta-BHC	4.516	4.045	160.4E6	847.4E6	100.801	97.843
7) B delta-BHC	4.765	4.282	444.5E6	2017.9E6	104.335	99.275
8) B Heptachlo...	5.693	4.892	367.1E6	1736.0E6	102.579	98.354m
9) A Endosulfan I	6.076	5.268	345.0E6	1644.8E6	102.166	97.631
10) B gamma-Chl...	5.947	5.146	375.8E6	1896.0E6	103.034	98.757
11) B alpha-Chl...	6.029	5.211	371.0E6	1819.3E6	102.498	98.477
12) B 4,4'-DDE	6.197	5.396	346.7E6	1834.5E6	103.381	98.584
13) MA Dieldrin	6.349	5.533	375.0E6	1853.7E6	103.019	98.382
14) MA Endrin	6.576	5.810	312.8E6	1675.6E6	103.179	97.930
15) B Endosulfa...	6.787	6.101	310.4E6	1601.0E6	101.581	97.777
16) A 4,4'-DDD	6.706	5.950	265.8E6	1515.5E6	103.156	97.940
17) MA 4,4'-DDT	7.023	6.204	292.3E6	1643.2E6	102.967	99.053
18) B Endrin al...	6.917	6.279	229.5E6	1206.4E6	101.060	97.405
19) B Endosulfa...	7.151	6.502	289.7E6	1562.9E6	101.567	97.534
20) A Methoxychlor	7.494	6.774	146.1E6	827.2E6	99.776	96.687
21) B Endrin ke...	7.631	7.011	312.9E6	1699.7E6	101.477	97.396
22) Mirex	8.115	7.205	219.9E6	1333.1E6	98.857	97.475

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088124.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:56
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PSTDICC100

Manual Integrations

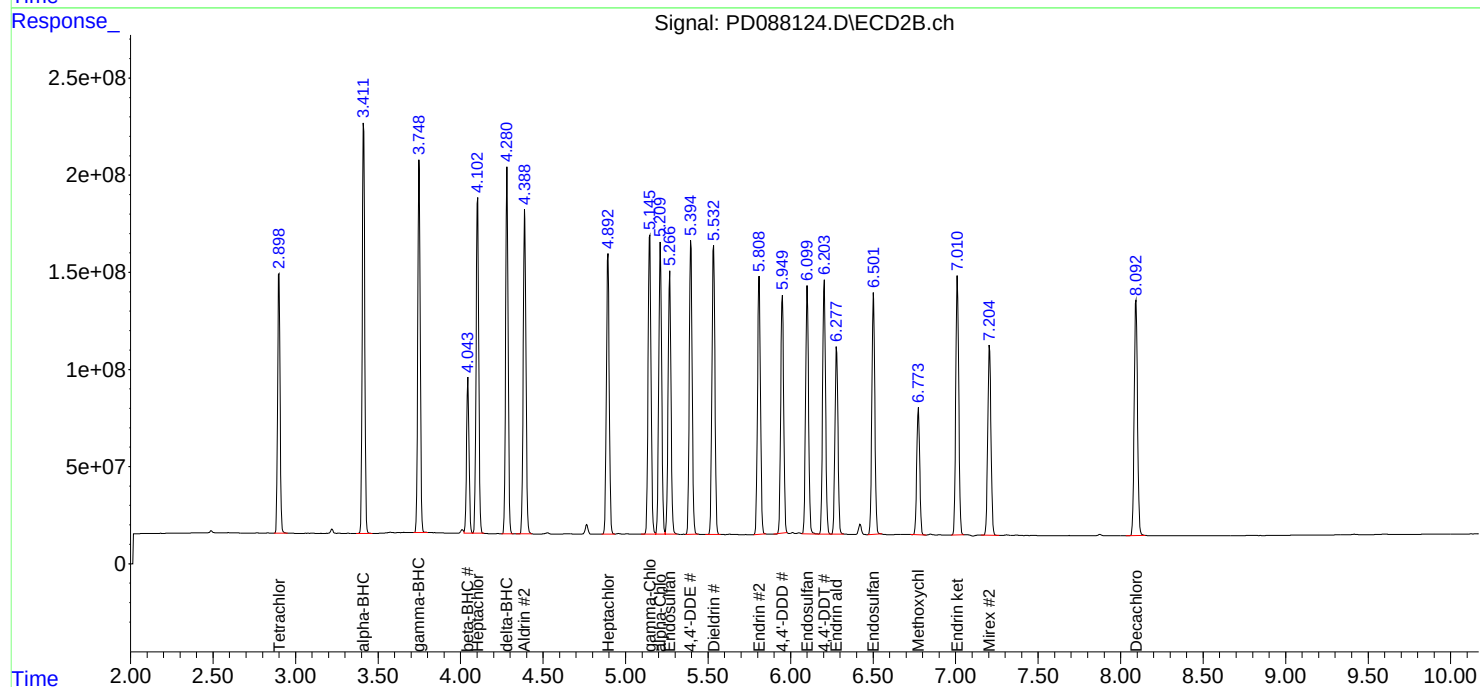
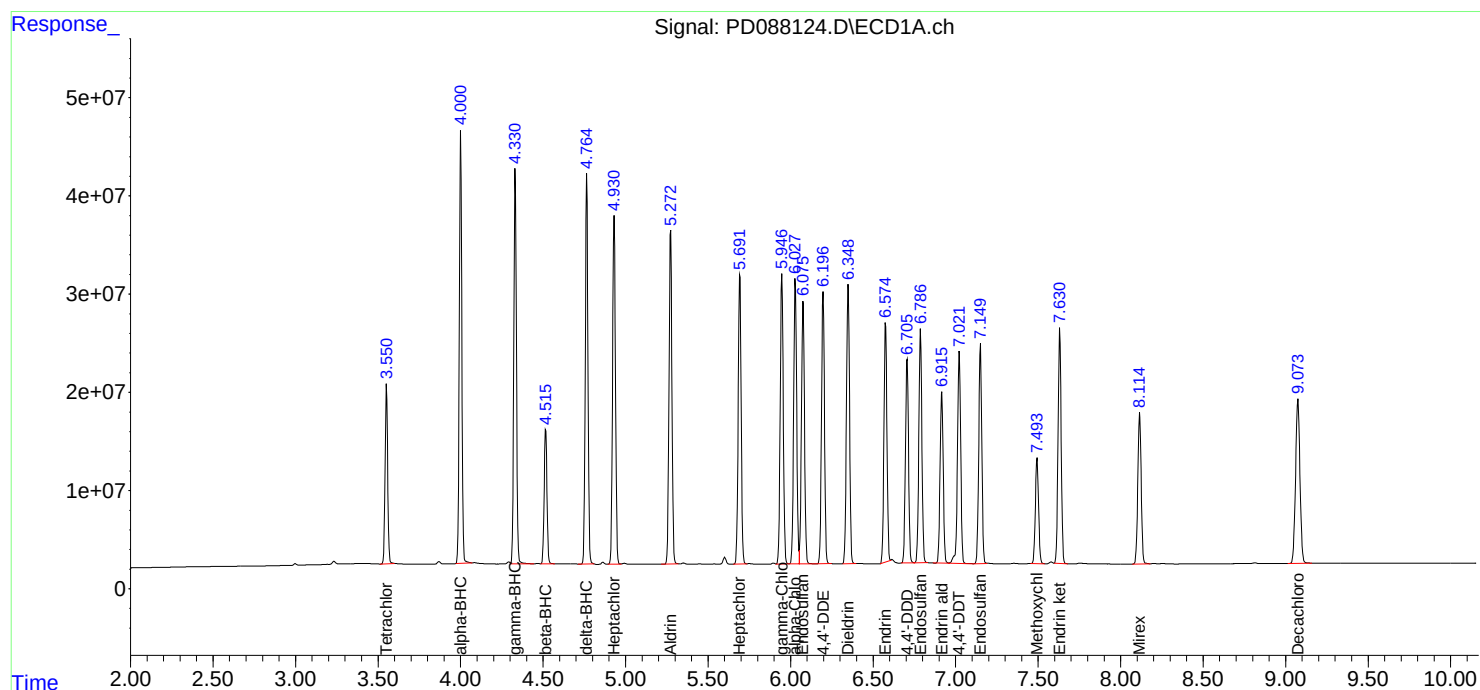
APPROVED

Reviewed By :Abdul Mirza 04/19/2025

Supervised By :mohammad ahmed 04/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 04:25:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 04:25:16 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
 Data File : PD088125.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 14:10
 Operator : AR\AJ
 Sample : PSTDICC075
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PSTDICC075

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 19 04:38:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 04:38:06 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.552	2.883	150.5E6	1026.4E6	76.770	74.309
28)	SA Decachlor...	9.074	8.076	235.6E6	1282.4E6	75.279	74.910
Target Compounds							
2)	A alpha-BHC	4.001	3.396	344.5E6	1637.3E6	75.524	74.417
3)	MA gamma-BHC...	4.332	3.732	327.4E6	1517.0E6	75.589	74.548
4)	MA Heptachlor	4.931	4.086	311.9E6	1501.6E6	75.687	74.430
5)	MB Aldrin	5.273	4.372	305.2E6	1470.4E6	75.338	74.562
6)	B beta-BHC	4.516	4.028	119.2E6	643.1E6	74.880	74.260
7)	B delta-BHC	4.765	4.265	321.2E6	1514.3E6	75.391	74.502
8)	B Heptachlo...	5.693	4.876	269.9E6	1318.2E6	75.407	74.392
9)	A Endosulfan I	6.076	5.251	254.8E6	1255.1E6	75.455	74.495
10)	B gamma-Chl...	5.948	5.130	277.4E6	1429.7E6	76.052	74.470
11)	B alpha-Chl...	6.029	5.195	271.9E6	1376.2E6	75.106	74.493
12)	B 4,4'-DDE	6.197	5.379	264.5E6	1393.5E6	78.883	74.883
13)	MA Dieldrin	6.349	5.517	274.2E6	1403.5E6	75.327	74.488
14)	MA Endrin	6.576	5.793	230.8E6	1275.1E6	76.125	74.523
15)	B Endosulfa...	6.788	6.084	229.6E6	1217.8E6	75.122	74.374
16)	A 4,4'-DDD	6.706	5.934	194.0E6	1155.3E6	75.311	74.663
17)	MA 4,4'-DDT	7.022	6.188	215.1E6	1237.2E6	75.763	74.584
18)	B Endrin al...	6.916	6.263	170.1E6	920.9E6	74.896	74.348
19)	B Endosulfa...	7.151	6.486	213.5E6	1192.6E6	74.839	74.424
20)	A Methoxychlor	7.494	6.759	110.0E6	635.1E6	75.092	74.226
21)	B Endrin ke...	7.631	6.995	230.5E6	1294.9E6	74.768	74.201
22)	Mirex	8.115	7.189	164.0E6	1014.9E6	73.732	74.208

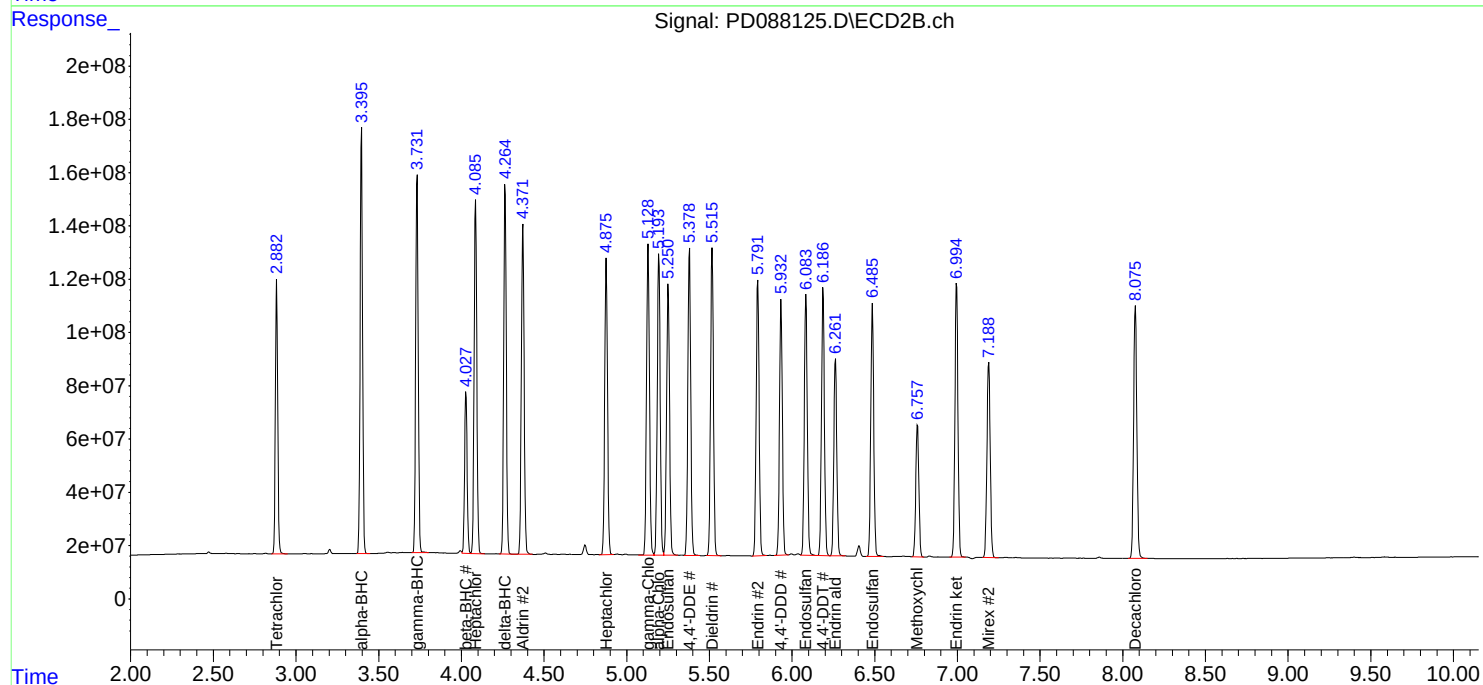
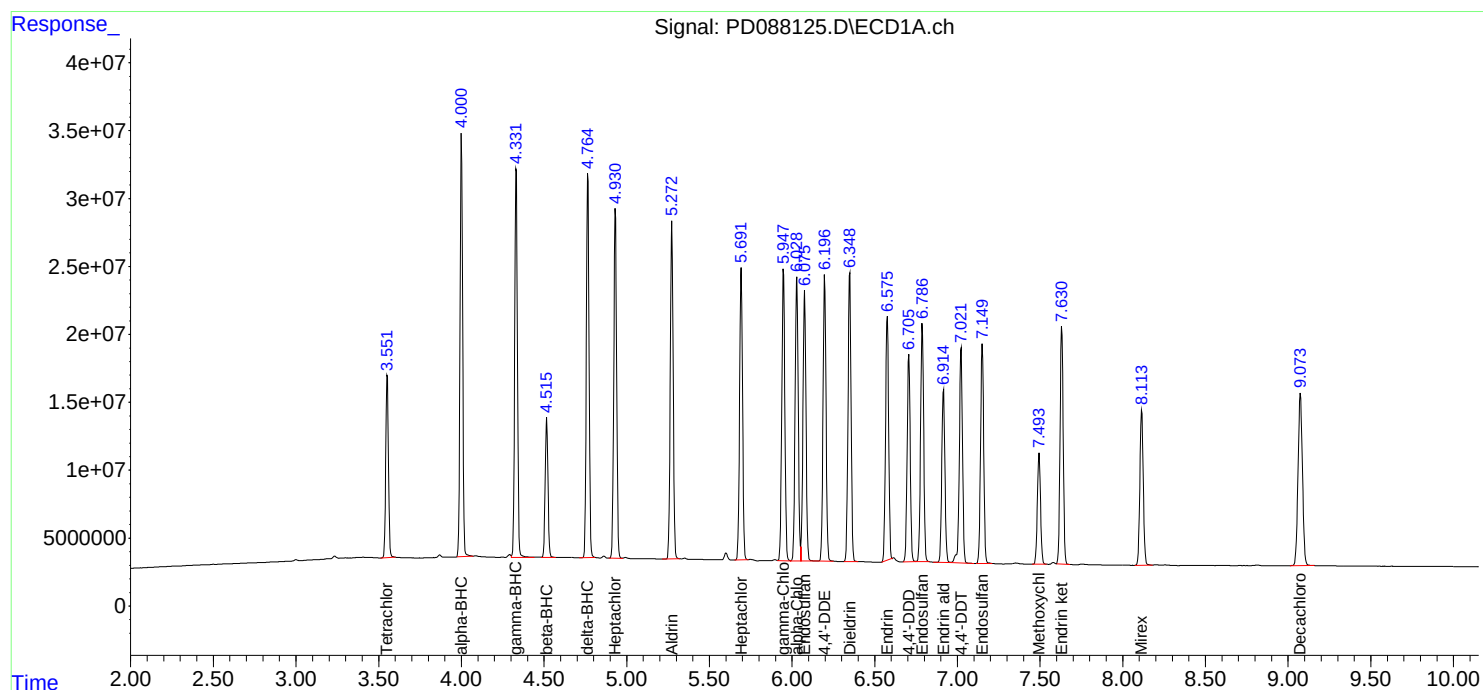
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088125.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:10
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 04:38:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 04:38:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
 Data File : PD088126.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 14:24
 Operator : AR\AJ
 Sample : PSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PSTDICC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 19 03:52:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 03:51:59 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.552	2.883	96933779	700.5E6	50.000	50.000
28) SA Decachlor...	9.075	8.077	158.9E6	873.5E6	50.000	50.000
Target Compounds						
2) A alpha-BHC	4.001	3.396	217.0E6	1104.5E6	50.000	50.000
3) MA gamma-BHC...	4.332	3.733	207.8E6	1027.9E6	50.000	50.000
4) MA Heptachlor	4.931	4.086	198.9E6	1026.1E6	50.000	50.000
5) MB Aldrin	5.273	4.373	195.6E6	1000.0E6	50.000	50.000
6) B beta-BHC	4.516	4.028	78949582	442.4E6	50.000	50.000
7) B delta-BHC	4.765	4.265	203.8E6	1023.7E6	50.000	50.000
8) B Heptachlo...	5.692	4.877	174.3E6	904.0E6	50.000	50.000
9) A Endosulfan I	6.076	5.251	165.2E6	862.3E6	50.000	50.000
10) B gamma-Chl...	5.947	5.130	176.8E6	971.9E6	50.000	50.000
11) B alpha-Chl...	6.029	5.194	176.5E6	937.8E6	50.000	50.000
12) B 4,4'-DDE	6.197	5.380	162.0E6	943.6E6	50.000	50.000
13) MA Dieldrin	6.349	5.517	176.5E6	957.3E6	50.000	50.000
14) MA Endrin	6.576	5.793	146.8E6	873.2E6	50.000	50.000
15) B Endosulfa...	6.787	6.084	150.4E6	836.9E6	50.000	50.000
16) A 4,4'-DDD	6.706	5.934	124.8E6	789.6E6	50.000	50.000
17) MA 4,4'-DDT	7.022	6.188	137.8E6	837.3E6	50.000	50.000
18) B Endrin al...	6.916	6.263	112.3E6	635.4E6	50.000	50.000
19) B Endosulfa...	7.150	6.486	140.4E6	821.0E6	50.000	50.000
20) A Methoxychlor	7.495	6.759	73392410	442.0E6	50.000	50.000
21) B Endrin ke...	7.631	6.995	151.9E6	895.3E6	50.000	50.000
22) Mirex	8.115	7.190	112.5E6	701.1E6	50.000	50.000

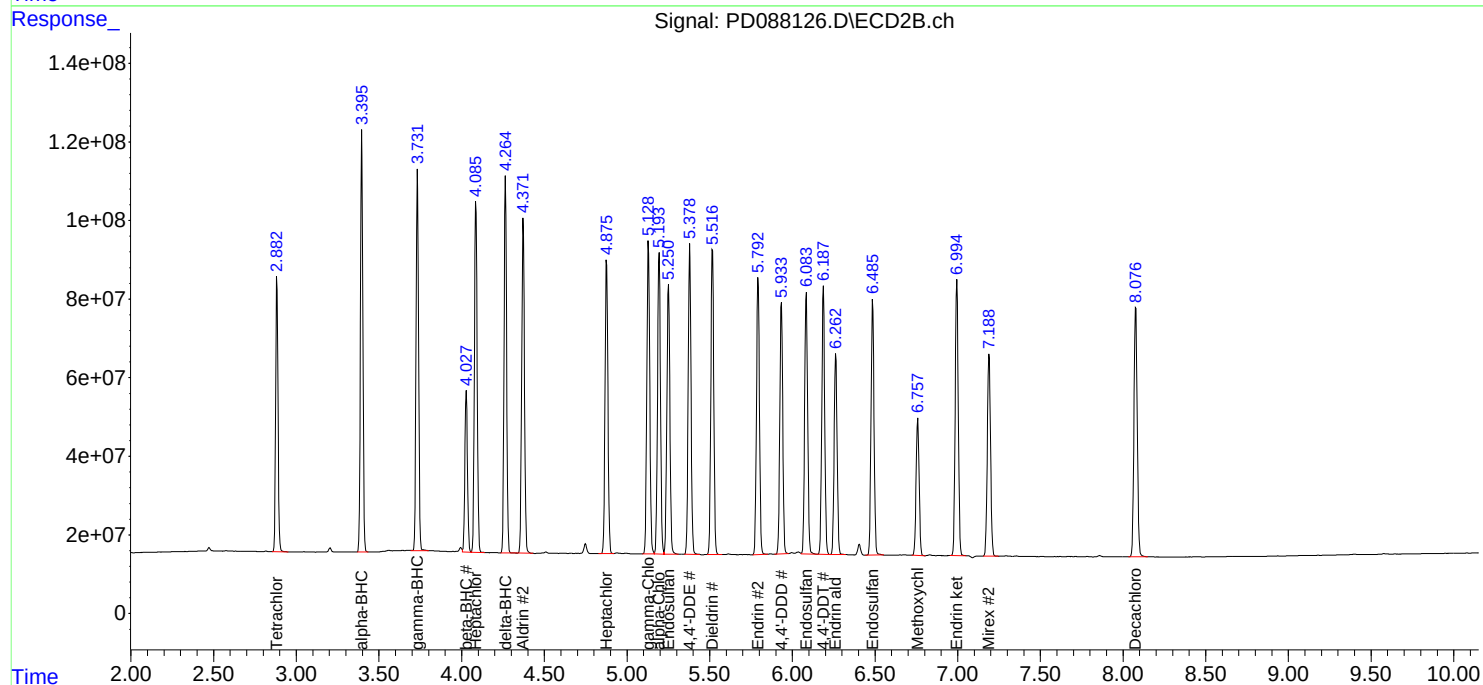
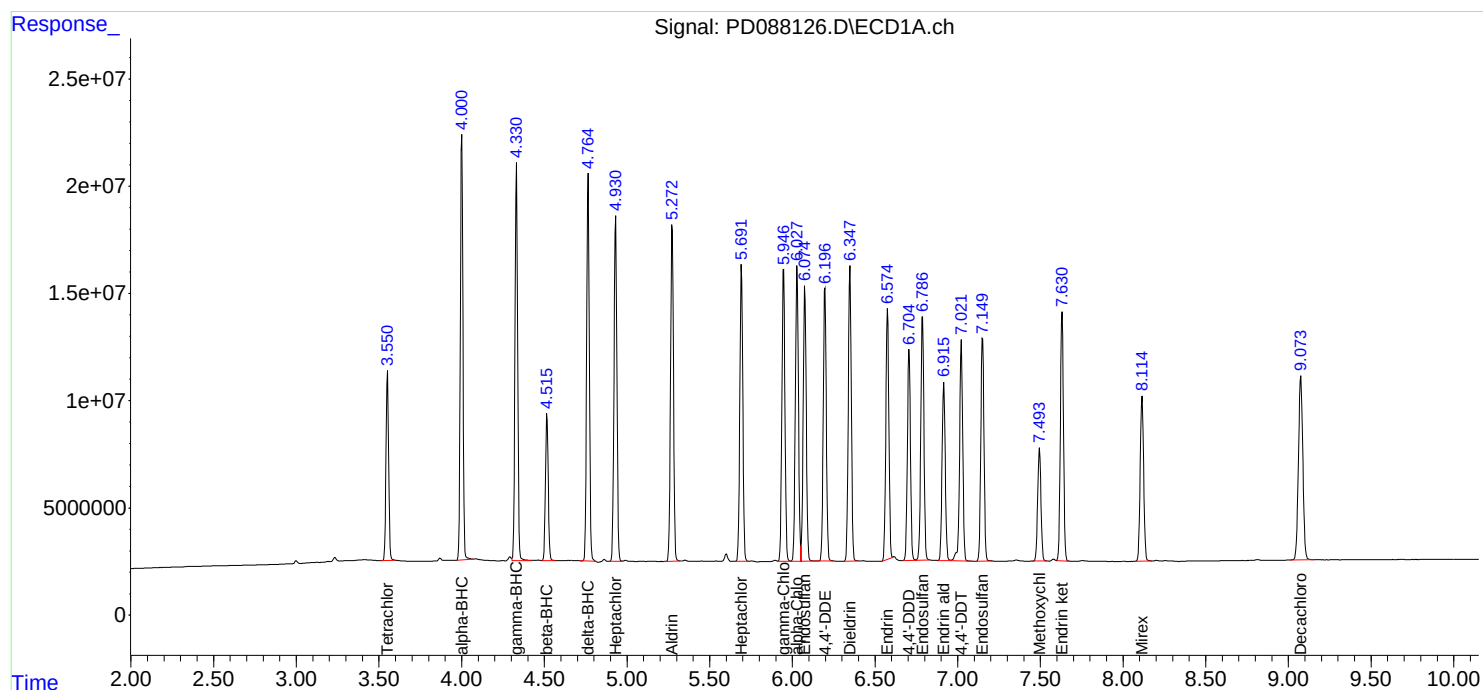
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088126.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:24
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:52:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
 Data File : PD088127.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 14:37
 Operator : AR\AJ
 Sample : PSTDICC025
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PSTDICC025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 19 03:53:10 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 03:51:59 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.551	2.883	48091567	363.8E6	24.806	25.964
28)	SA Decachlor...	9.075	8.076	82258935	459.7E6	25.883	26.313
Target Compounds							
2)	A alpha-BHC	4.001	3.396	99341615	563.0E6	22.886	25.485
3)	MA gamma-BHC...	4.332	3.733	97186739	528.4E6	23.390	25.704
4)	MA Heptachlor	4.932	4.087	94534629	532.5E6	23.763	25.945
5)	MB Aldrin	5.273	4.373	92978704	517.9E6	23.769	25.894
6)	B beta-BHC	4.516	4.028	39603540	232.3E6	25.082	26.257
7)	B delta-BHC	4.765	4.265	96272367	525.8E6	23.621	25.682
8)	B Heptachlo...	5.693	4.877	84745348	472.0E6	24.308	26.106
9)	A Endosulfan I	6.076	5.251	80453509	451.6E6	24.350	26.184
10)	B gamma-Chl...	5.948	5.130	85075416	502.2E6	24.058	25.835
11)	B alpha-Chl...	6.029	5.194	85660342	486.4E6	24.270	25.934
12)	B 4,4'-DDE	6.198	5.380	76777577	489.5E6	23.696	25.940
13)	MA Dieldrin	6.349	5.517	84286018	497.2E6	23.874	25.966
14)	MA Endrin	6.576	5.793	70161483	455.4E6	23.901	26.075
15)	B Endosulfa...	6.788	6.085	74367338	438.3E6	24.727	26.186
16)	A 4,4'-DDD	6.707	5.934	59400090	409.0E6	23.808	25.900
17)	MA 4,4'-DDT	7.023	6.188	65746503	426.6E6	23.864	25.475
18)	B Endrin al...	6.917	6.263	55861887	333.7E6	24.862	26.261
19)	B Endosulfa...	7.151	6.487	69350501	430.0E6	24.701	26.189
20)	A Methoxychlor	7.495	6.759	37082247	232.3E6	25.263	26.276
21)	B Endrin ke...	7.632	6.995	74459471	469.5E6	24.513	26.222
22)	Mirex	8.116	7.190	58667661	372.6E6	26.079	26.570

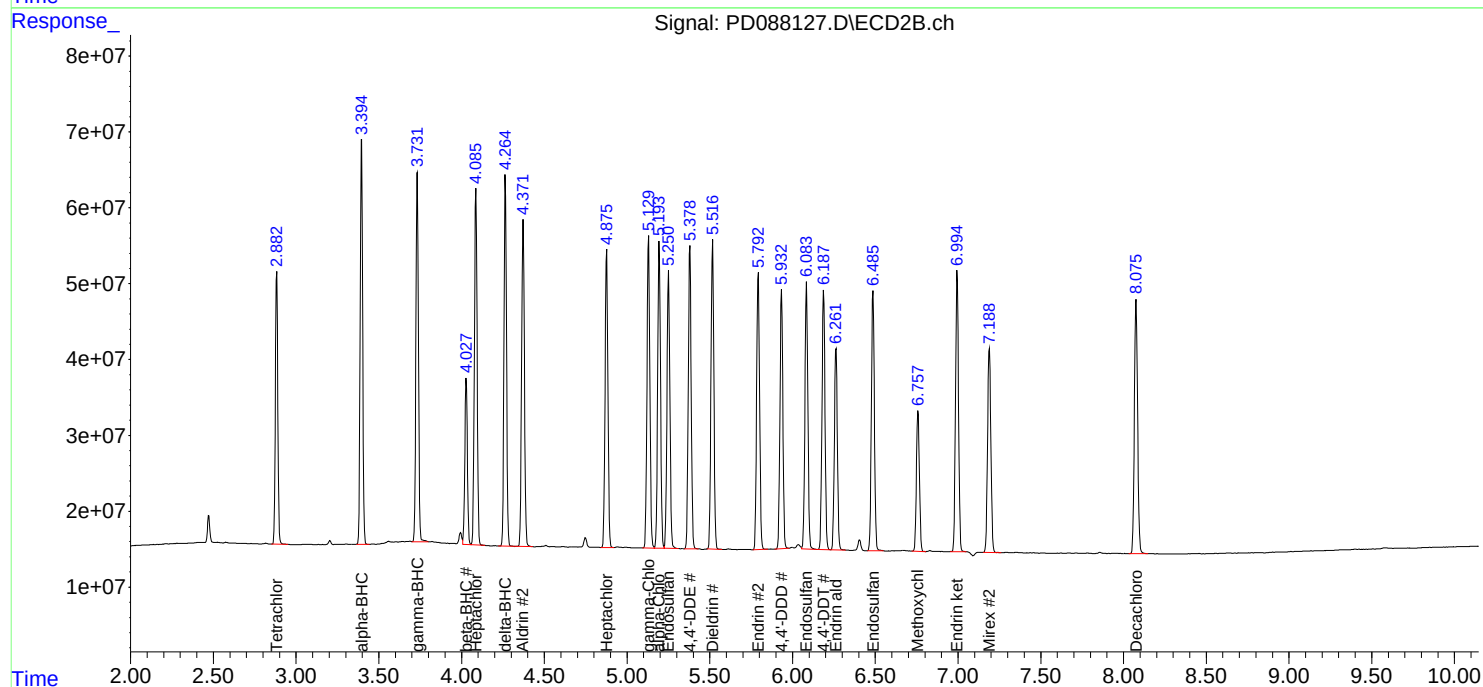
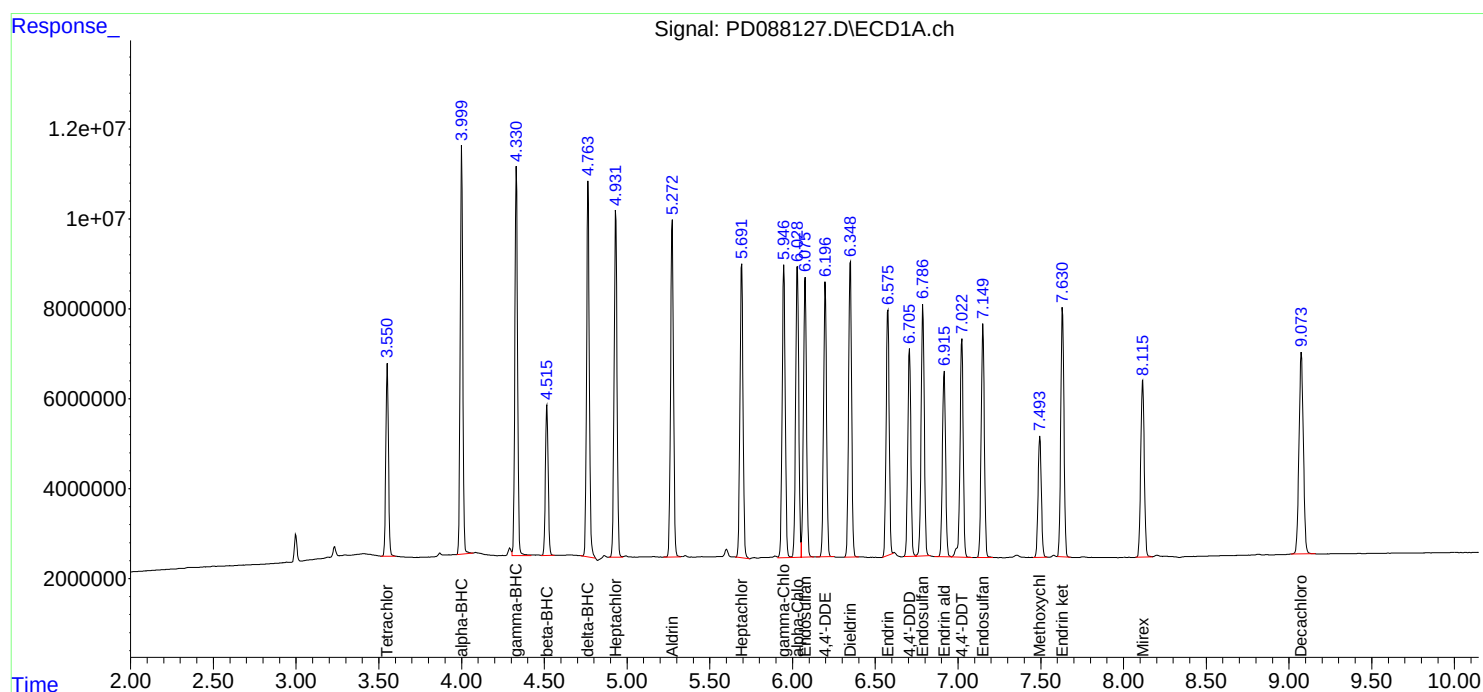
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088127.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:37
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:53:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
 Data File : PD088128.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 14:51
 Operator : AR\AJ
 Sample : PSTDICC005
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PSTDICC005

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 04/19/2025

Supervised By :mohammad ahmed 04/22/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 19 03:53:24 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 03:51:59 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.552	2.883	10677571	86225193	5.508	6.154
28) SA Decachlor...	9.075	8.076	19250443	113.4E6	6.057	6.490
Target Compounds						
2) A alpha-BHC	4.001	3.396	19344032	129.8E6	4.456	5.874 #
3) MA gamma-BHC...	4.332	3.733	20113508	128.2E6	4.841	6.234 #
4) MA Heptachlor	4.931	4.086	20057945	126.6E6	5.042	6.169
5) MB Aldrin	5.273	4.372	19278191	121.3E6	4.928	6.063
6) B beta-BHC	4.516	4.028	8800396	55407278	5.573	6.262
7) B delta-BHC	4.764	4.265	19851779	122.2E6	4.871m	5.967
8) B Heptachlo...	5.693	4.876	18623118	112.9E6	5.342	6.244
9) A Endosulfan I	6.076	5.251	17577772	107.8E6	5.320	6.253
10) B gamma-Chl...	5.948	5.130	18576714	119.7E6	5.253	6.157
11) B alpha-Chl...	6.029	5.194	18782686	116.3E6	5.322	6.201
12) B 4,4'-DDE	6.197	5.379	15929607	115.5E6	4.916	6.117
13) MA Dieldrin	6.349	5.517	17671896	116.9E6	5.006	6.106
14) MA Endrin	6.576	5.793	14827210	107.9E6	5.051	6.177
15) B Endosulfa...	6.787	6.084	17419714	105.5E6	5.792	6.301
16) A 4,4'-DDD	6.706	5.933	12295875	96096151	4.928	6.085
17) MA 4,4'-DDT	7.022	6.188	13556042	91724476	4.921	5.478
18) B Endrin al...	6.916	6.262	12478868	80534454	5.554	6.338
19) B Endosulfa...	7.151	6.486	15272374	102.6E6	5.440	6.248
20) A Methoxychlor	7.495	6.758	8094629	53678604	5.515	6.073
21) B Endrin ke...	7.631	6.995	16074498	112.9E6	5.292	6.304
22) Mirex	8.116	7.189	13799458	91589011	6.134	6.532

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088128.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:51
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PSTDICC005

Manual Integrations

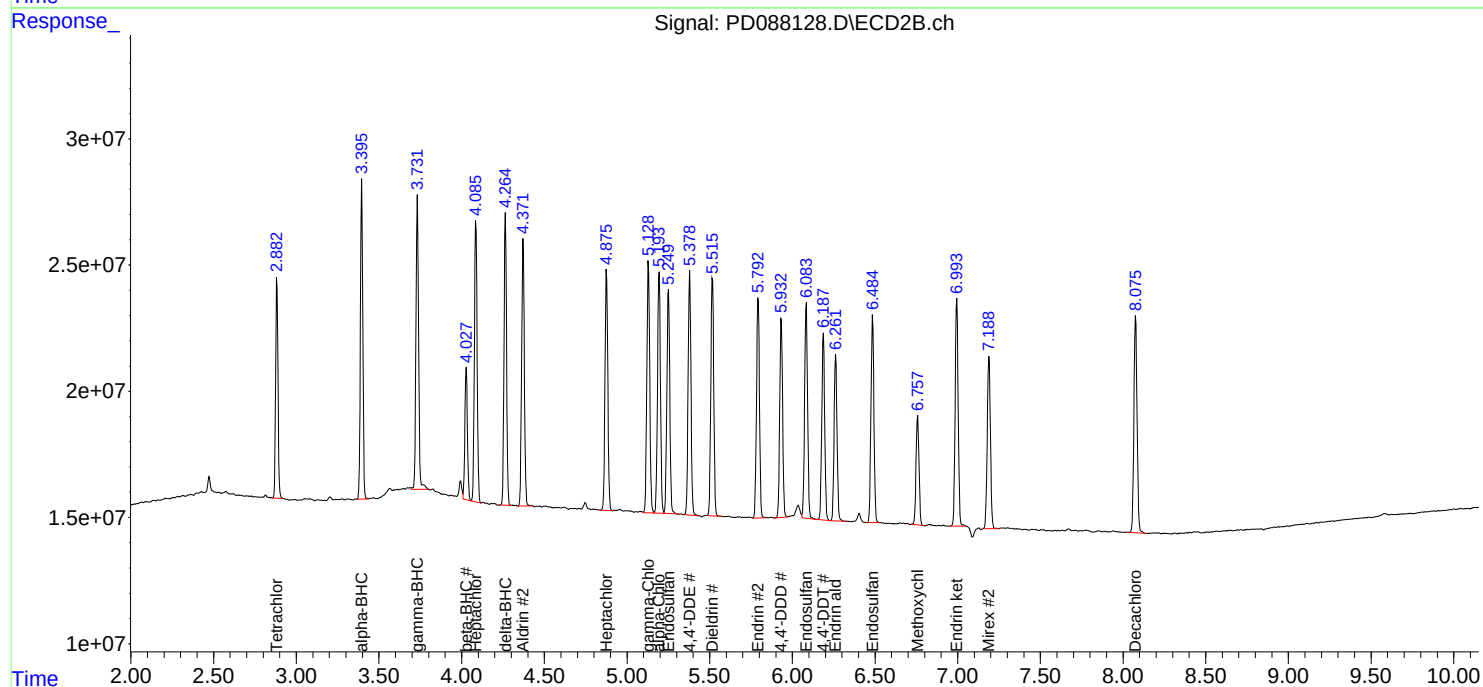
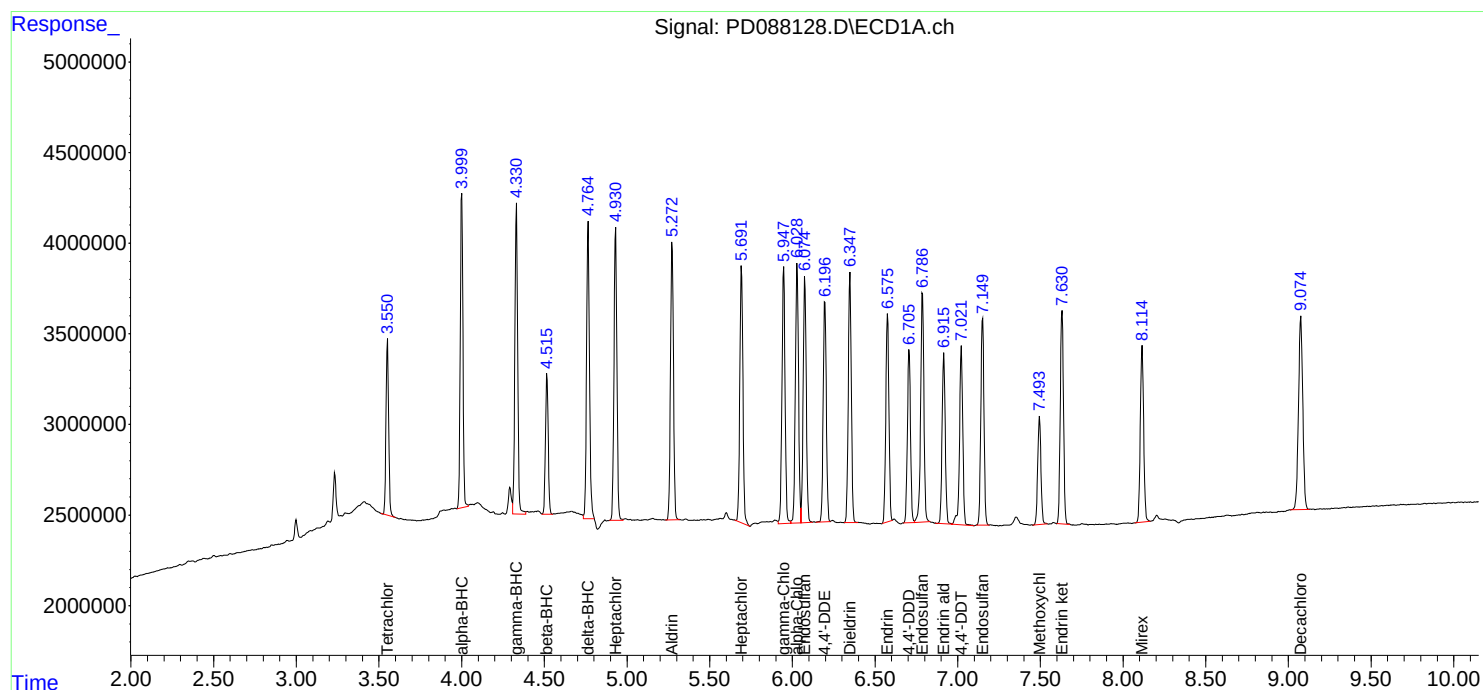
APPROVED

Reviewed By :Abdul Mirza 04/19/2025

Supervised By :mohammad ahmed 04/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:53:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
 Data File : PD088131.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 15:32
 Operator : AR\AJ
 Sample : PCHLORICC500
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PCHLORICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 19 05:48:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 05:47:09 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.552	2.883	96235160	865.8E6	50.000	50.000
28)	SA Decachlor...	9.074	8.077	154.6E6	878.3E6	50.000	50.000
Target Compounds							
23)	Chlordane-1	4.717	3.909	80997430	383.8E6	500.000	500.000
24)	Chlordane-2	5.243	4.491	80390039	391.5E6	500.000	500.000
25)	Chlordane-3	5.948	5.130	333.1E6	1198.4E6	500.000	500.000
26)	Chlordane-4	6.034	5.194	398.6E6	1015.9E6	500.000	500.000
27)	Chlordane-5	6.873	6.094	66525644	465.8E6	500.000	500.000

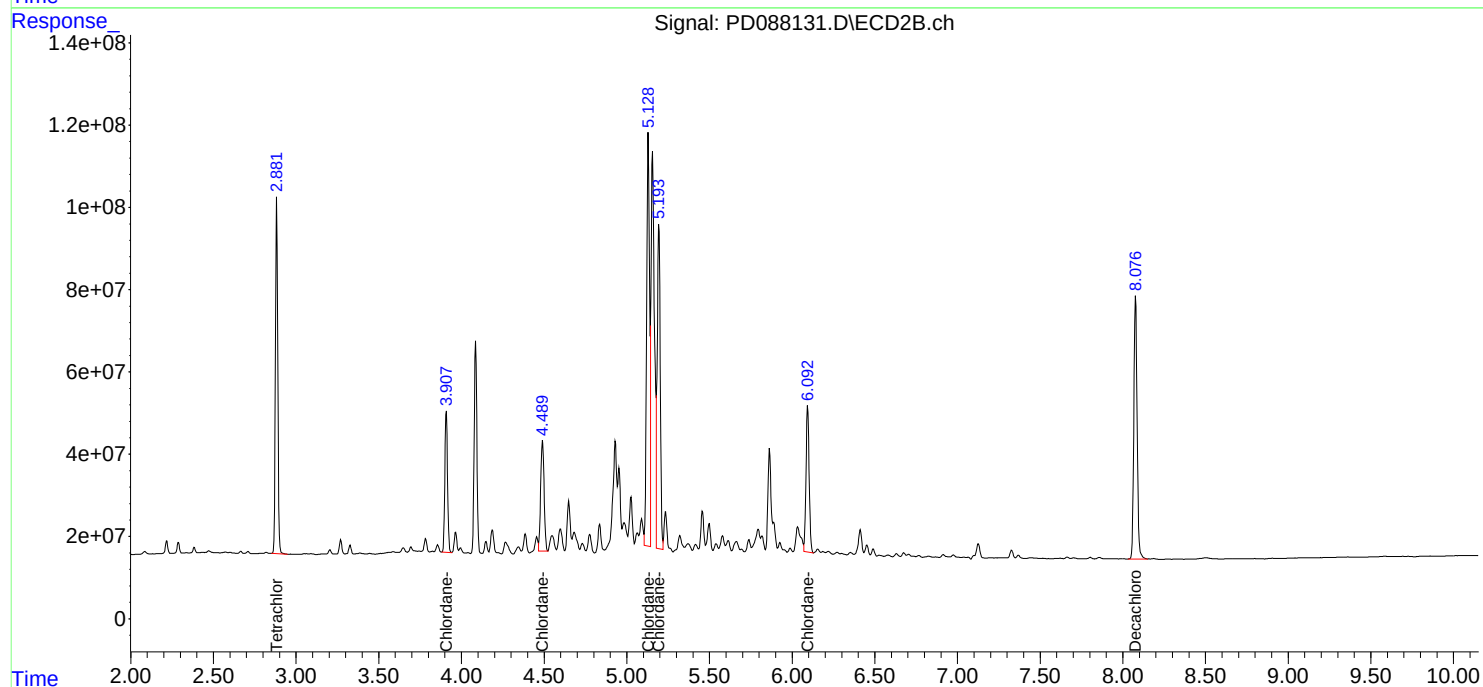
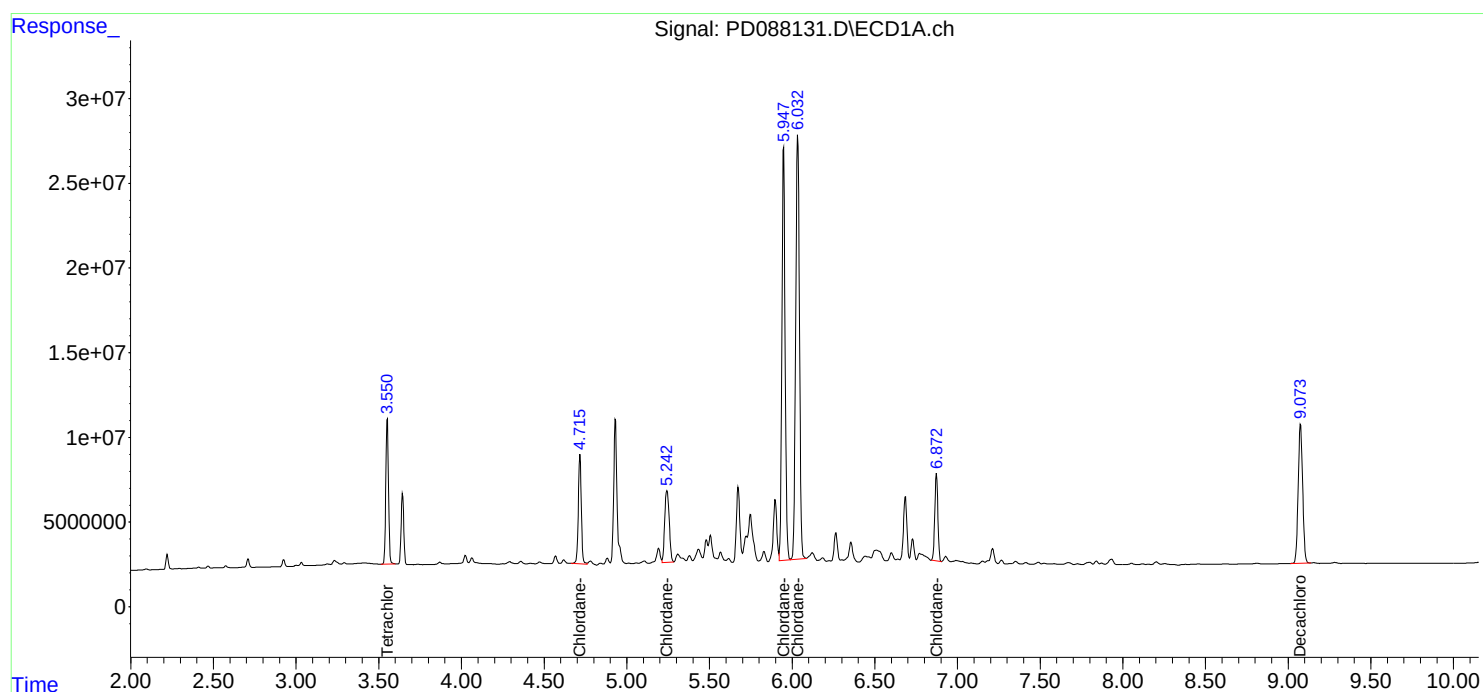
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088131.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 15:32
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 05:48:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 05:47:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
 Data File : PD088136.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 16:40
 Operator : AR\AJ
 Sample : PTOXICC500
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PTOXICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 19 06:17:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:16:20 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x 0. Signal #2 Info : 30M x 0.32mm x 0.25µm

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

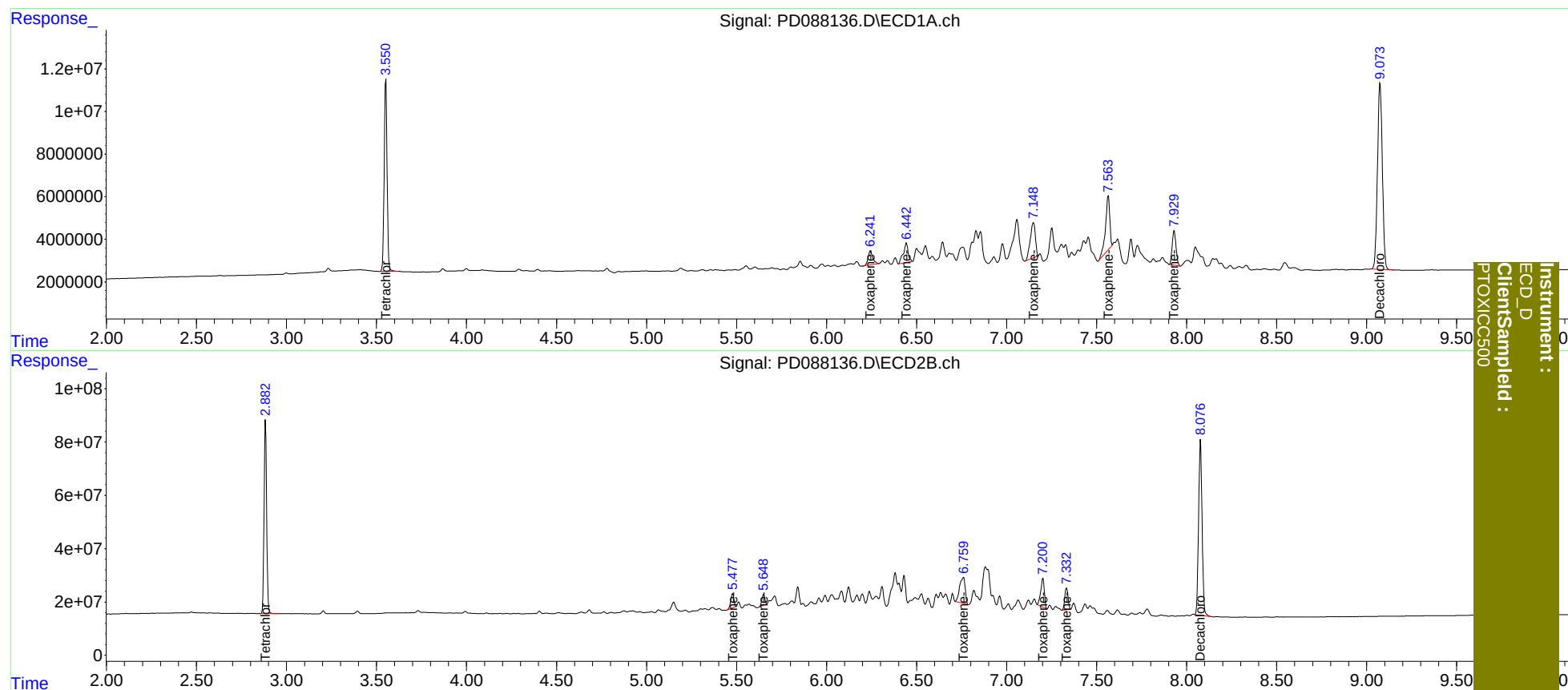
System Monitoring Compounds						
1) SA Tetrachlo...	3.552	2.883	101.0E6	721.8E6	50.000	50.000
7) SA Decachlor...	9.074	8.077	164.9E6	890.5E6	50.000	50.000
Target Compounds						
2) Toxaphene-1	6.243	5.479	11798963	65341019	500.000	500.000
3) Toxaphene-2	6.443	5.650	17032300	44756730	500.000	500.000
4) Toxaphene-3	7.149	6.760	32663151	208.7E6	500.000	500.000
5) Toxaphene-4	7.565	7.202	41022693	151.5E6	500.000	500.000
6) Toxaphene-5	7.931	7.333	23857581	103.9E6	500.000	500.000

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088136.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 16:40
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 06:17:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:16:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0. Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
 Data File : PD088139.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 17:21
 Operator : AR\AJ
 Sample : PSTDICV050
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 ICVPD041825

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 19 03:53:37 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 03:51:59 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.552	2.883	98011498	705.8E6	50.556	50.375
28)	SA Decachlor...	9.074	8.076	156.5E6	873.1E6	49.237	49.975
Target Compounds							
2)	A alpha-BHC	4.001	3.396	221.4E6	1115.2E6	51.003	50.483
3)	MA gamma-BHC...	4.332	3.732	211.2E6	1037.4E6	50.823	50.460
4)	MA Heptachlor	4.931	4.086	202.0E6	1034.4E6	50.784	50.400
5)	MB Aldrin	5.273	4.372	199.5E6	1010.7E6	50.990	50.536
6)	B beta-BHC	4.516	4.028	80388581	446.0E6	50.911	50.415
7)	B delta-BHC	4.765	4.265	207.4E6	1030.8E6	50.892	50.347
8)	B Heptachlo...	5.693	4.876	177.5E6	911.0E6	50.911	50.388
9)	A Endosulfan I	6.076	5.250	167.8E6	870.5E6	50.788	50.475
10)	B gamma-Chl...	5.947	5.129	179.7E6	979.0E6	50.819	50.365
11)	B alpha-Chl...	6.028	5.194	179.5E6	945.1E6	50.851	50.389
12)	B 4,4'-DDE	6.197	5.379	162.4E6	948.3E6	50.132	50.246
13)	MA Dieldrin	6.349	5.516	179.4E6	966.1E6	50.821	50.456
14)	MA Endrin	6.576	5.792	148.1E6	879.3E6	50.462	50.348
15)	B Endosulfa...	6.787	6.084	151.1E6	841.2E6	50.228	50.256
16)	A 4,4'-DDD	6.706	5.933	124.5E6	794.4E6	49.895	50.303
17)	MA 4,4'-DDT	7.022	6.187	137.1E6	844.1E6	49.781	50.406
18)	B Endrin al...	6.916	6.262	112.7E6	640.6E6	50.151	50.415
19)	B Endosulfa...	7.150	6.486	140.8E6	824.1E6	50.153	50.192
20)	A Methoxychlor	7.494	6.758	73171542	444.8E6	49.850	50.322
21)	B Endrin ke...	7.631	6.994	151.9E6	901.7E6	50.003	50.358
22)	Mirex	8.115	7.189	112.8E6	707.4E6	50.149	50.451

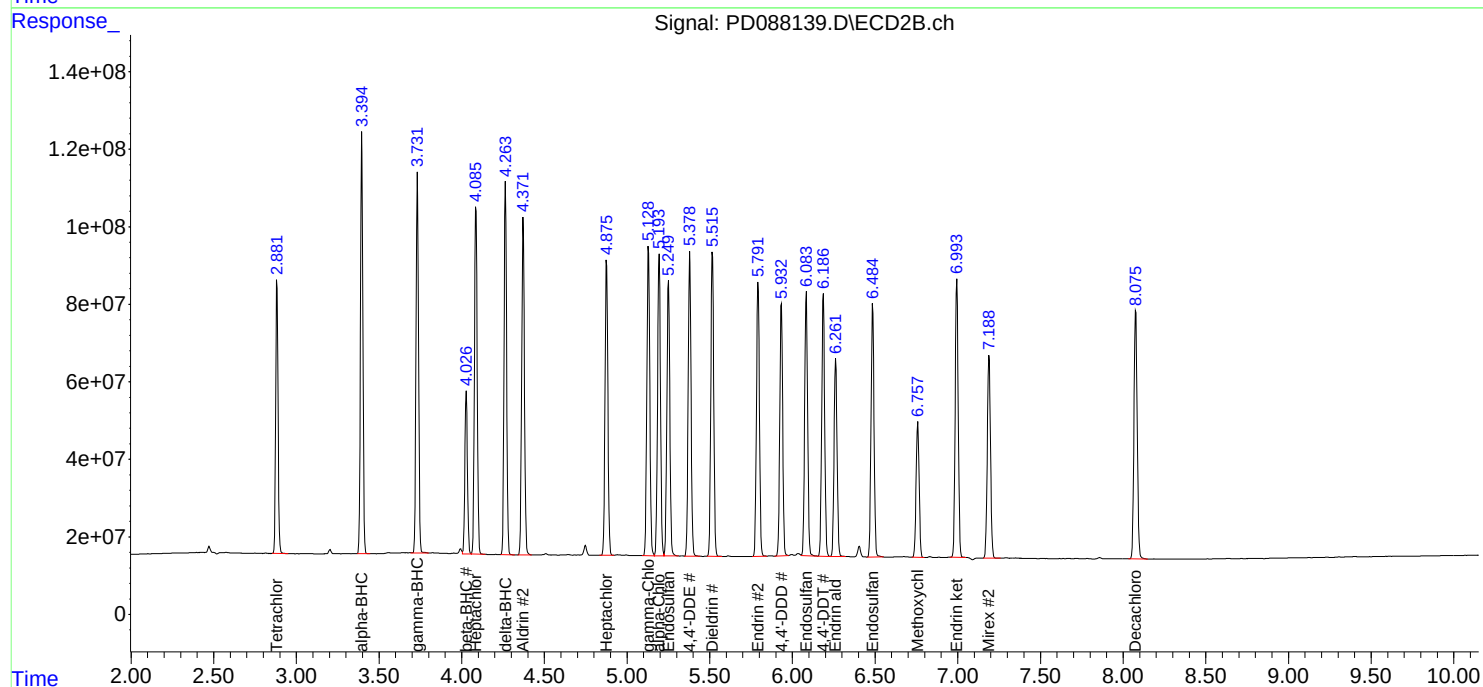
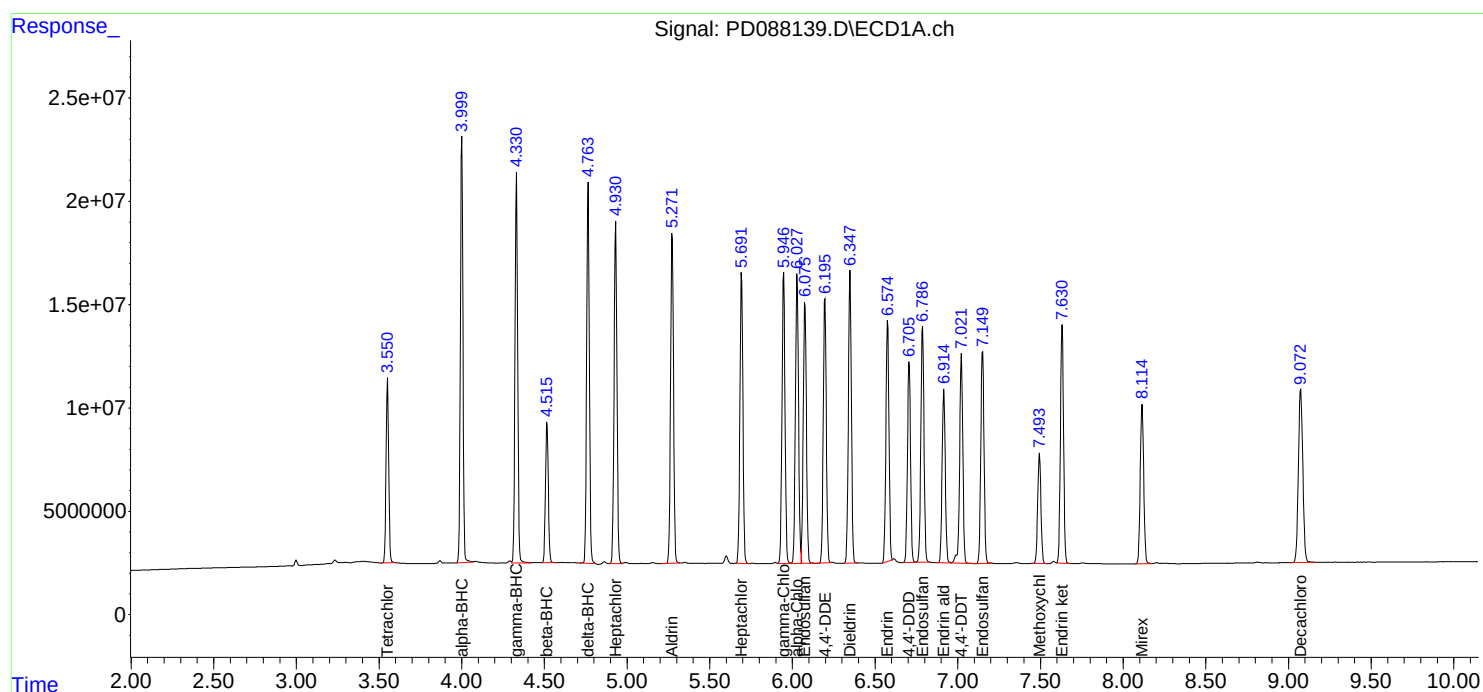
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088139.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 17:21
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
ICVPD041825

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:53:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
 Data File : PD088140.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 17:35
 Operator : AR\AJ
 Sample : PCHLORICV500
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 ICVPD041825CHLOR

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 19 05:48:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 05:47:09 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.552	2.883	98326390	875.4E6	51.087	50.557
28) SA Decachlor...	9.073	8.076	155.6E6	883.8E6	50.337	50.312
Target Compounds						
23) Chlordane-1	4.716	3.908	83912348	391.8E6	517.994	510.427
24) Chlordane-2	5.243	4.490	83436128	397.6E6	518.946	507.710
25) Chlordane-3	5.948	5.129	344.9E6	1215.6E6	517.682	507.183
26) Chlordane-4	6.034	5.193	413.5E6	1029.1E6	518.799	506.534
27) Chlordane-5	6.872	6.093	67686335	471.4E6	508.724	506.043

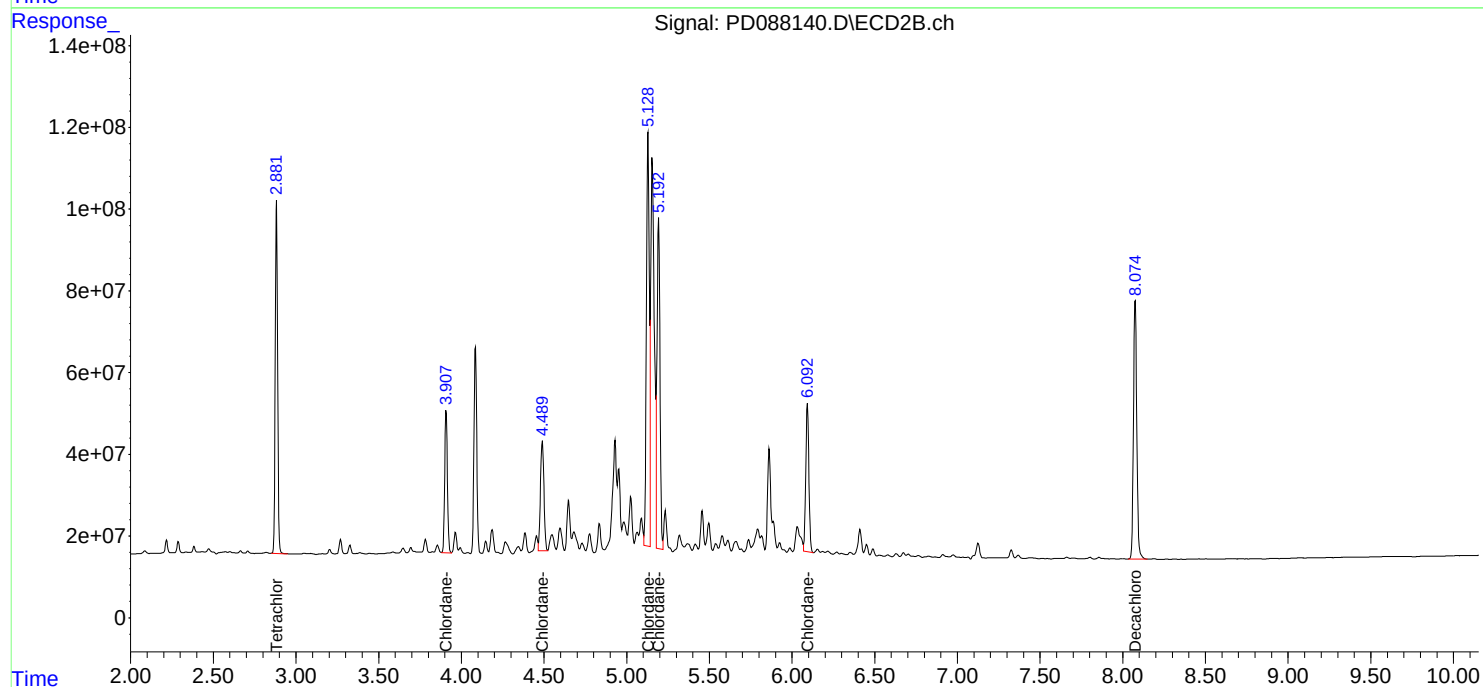
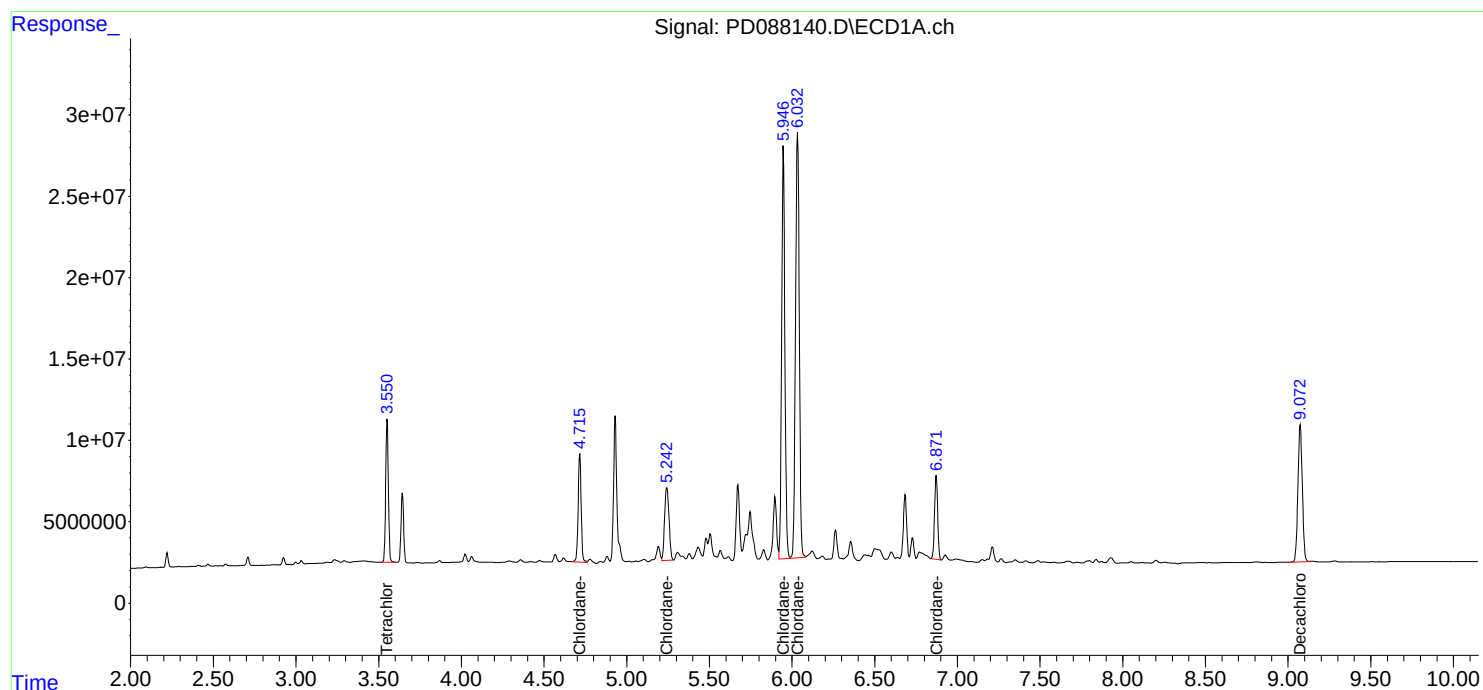
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088140.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 17:35
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
ICVPD041825CHLOR

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 05:48:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 05:47:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
 Data File : PD088141.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 17:49
 Operator : AR\AJ
 Sample : PTOXICV500
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 ICVPD041825TOX

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 19 06:18:16 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:16:20 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x 0. Signal #2 Info : 30M x 0.32mm x 0.25µm

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

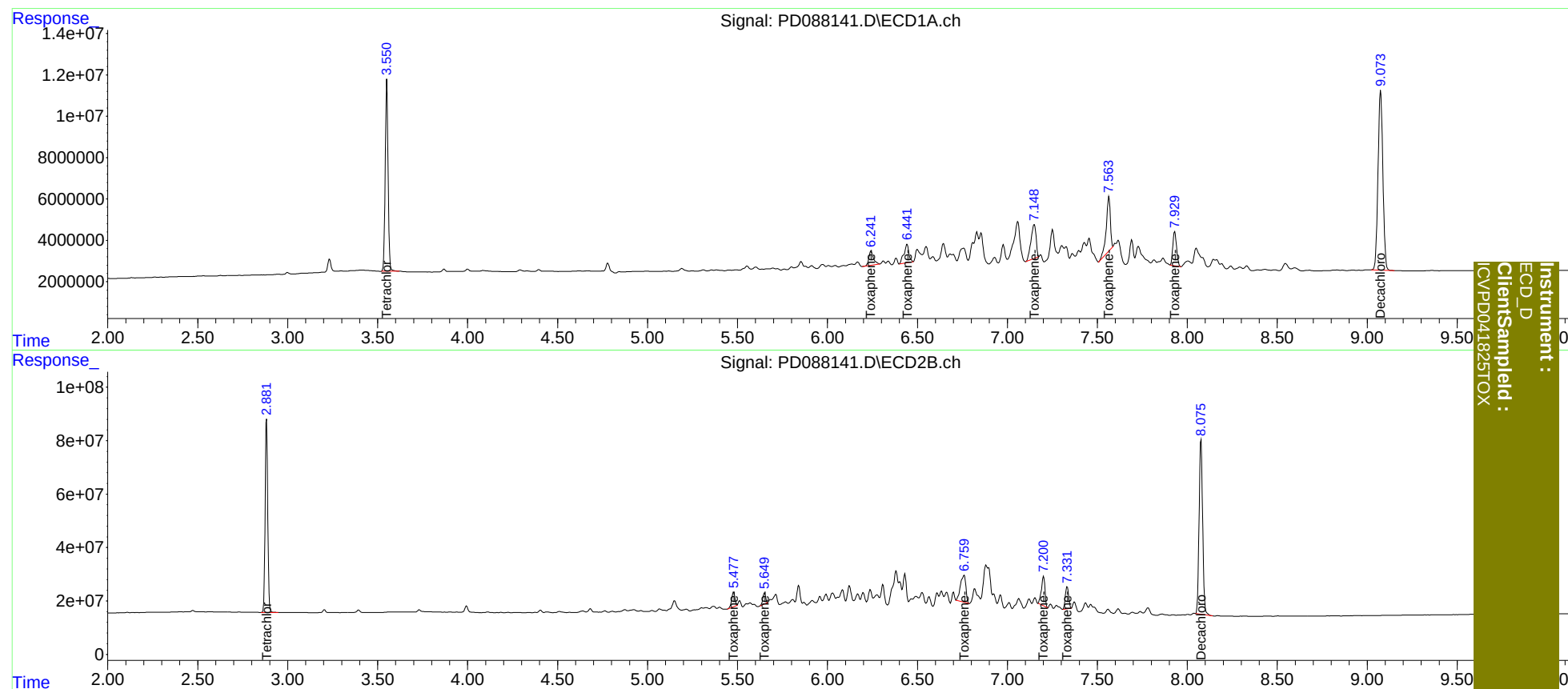
System Monitoring Compounds						
1) SA Tetrachlo...	3.551	2.883	102.5E6	730.7E6	50.719	50.617
7) SA Decachlor...	9.075	8.076	162.9E6	900.9E6	49.398	50.583
Target Compounds						
2) Toxaphene-1	6.242	5.479	11935495	66985324	505.786	512.582
3) Toxaphene-2	6.442	5.650	17155801	45180209	503.625	504.731
4) Toxaphene-3	7.149	6.760	32633182	210.1E6	499.541	503.358
5) Toxaphene-4	7.564	7.201	41575512	152.0E6	506.738	501.932
6) Toxaphene-5	7.930	7.332	23954033	105.1E6	502.021	505.684

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088141.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 17:49
Operator : AR\AJ
Sample : PTOXICV500
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 06:18:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:16:20 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0. 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: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Continuing Calib Date: 05/01/2025 Initial Calibration Date(s): 04/18/2025 04/18/2025

Continuing Calib Time: 12:09 Initial Calibration Time(s): 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.07	9.08	8.98	9.18	0.01
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endrin	6.58	6.58	6.48	6.68	0.01
Methoxychlor	7.49	7.50	7.40	7.60	0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Continuing Calib Date: 05/01/2025 Initial Calibration Date(s): 04/18/2025 04/18/2025

Continuing Calib Time: 12:09 Initial Calibration Time(s): 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.01
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.09	3.99	4.19	0.01
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 04/18/2025 04/18/2025

Client Sample No.: CCAL01 Date Analyzed: 05/01/2025

Lab Sample No.: PSTDCCC050 Data File : PD088369.D Time Analyzed: 12:09

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.073	8.975	9.175	46.430	50.000	-7.1
Endrin	6.575	6.476	6.676	52.080	50.000	4.2
gamma-BHC (Lindane)	4.331	4.232	4.432	54.230	50.000	8.5
Heptachlor	4.930	4.831	5.031	53.020	50.000	6.0
Heptachlor epoxide	5.691	5.592	5.792	53.870	50.000	7.7
Methoxychlor	7.494	7.395	7.595	45.160	50.000	-9.7
Tetrachloro-m-xylene	3.551	3.452	3.652	52.750	50.000	5.5



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

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 04/18/2025 04/18/2025

Client Sample No.: CCAL01 Date Analyzed: 05/01/2025

Lab Sample No.: PSTDCCC050 Data File : PD088369.D Time Analyzed: 12:09

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.075	7.977	8.177	41.500	50.000	-17.0
Endrin	5.791	5.693	5.893	46.350	50.000	-7.3
gamma-BHC (Lindane)	3.731	3.633	3.833	48.020	50.000	-4.0
Heptachlor	4.084	3.986	4.186	46.300	50.000	-7.4
Heptachlor epoxide	4.875	4.777	4.977	48.240	50.000	-3.5
Methoxychlor	6.756	6.659	6.859	41.540	50.000	-16.9
Tetrachloro-m-xylene	2.882	2.783	2.983	48.750	50.000	-2.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
 Data File : PD088369.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 May 2025 12:09
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PSTDCCC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 02 01:30:55 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.551	2.882	105.4E6	712.9E6	52.751	48.755
28) SA Decachlor...	9.073	8.075	153.6E6	766.9E6	46.434	41.498
Target Compounds						
2) A alpha-BHC	4.000	3.394	238.2E6	1123.3E6	55.242	49.134
3) MA gamma-BHC...	4.331	3.731	227.1E6	1034.3E6	54.228	48.020
4) MA Heptachlor	4.930	4.084	214.2E6	990.7E6	53.024	46.298
5) MB Aldrin	5.272	4.371	217.6E6	1014.9E6	55.098	48.789
6) B beta-BHC	4.516	4.026	87593152	449.9E6	53.957	48.620
7) B delta-BHC	4.764	4.263	225.1E6	1035.5E6	54.566	48.701
8) B Heptachlo...	5.691	4.875	192.5E6	911.5E6	53.869	48.240
9) A Endosulfan I	6.075	5.249	182.3E6	864.9E6	53.988	48.017
10) B gamma-Chl...	5.946	5.128	196.0E6	981.7E6	54.104	48.370
11) B alpha-Chl...	6.028	5.192	195.0E6	940.2E6	54.013	47.963
12) B 4,4'-DDE	6.196	5.377	175.1E6	949.3E6	53.096	48.203
13) MA Dieldrin	6.348	5.515	195.4E6	959.3E6	54.763	48.128
14) MA Endrin	6.575	5.791	155.3E6	843.7E6	52.075	46.349
15) B Endosulfa...	6.787	6.082	162.8E6	828.8E6	52.087	47.304
16) A 4,4'-DDD	6.705	5.931	139.8E6	810.7E6	55.601	49.473
17) MA 4,4'-DDT	7.021	6.185	131.2E6	731.6E6	47.236	42.993
18) B Endrin al...	6.915	6.260	118.5E6	608.5E6	51.338	45.745
19) B Endosulfa...	7.149	6.484	151.2E6	789.7E6	52.565	46.091
20) A Methoxychlor	7.494	6.756	67718035	378.9E6	45.159	41.538
21) B Endrin ke...	7.631	6.993	159.4E6	857.6E6	51.651	45.850
22) Mirex	8.114	7.187	118.2E6	660.1E6	50.352	44.541

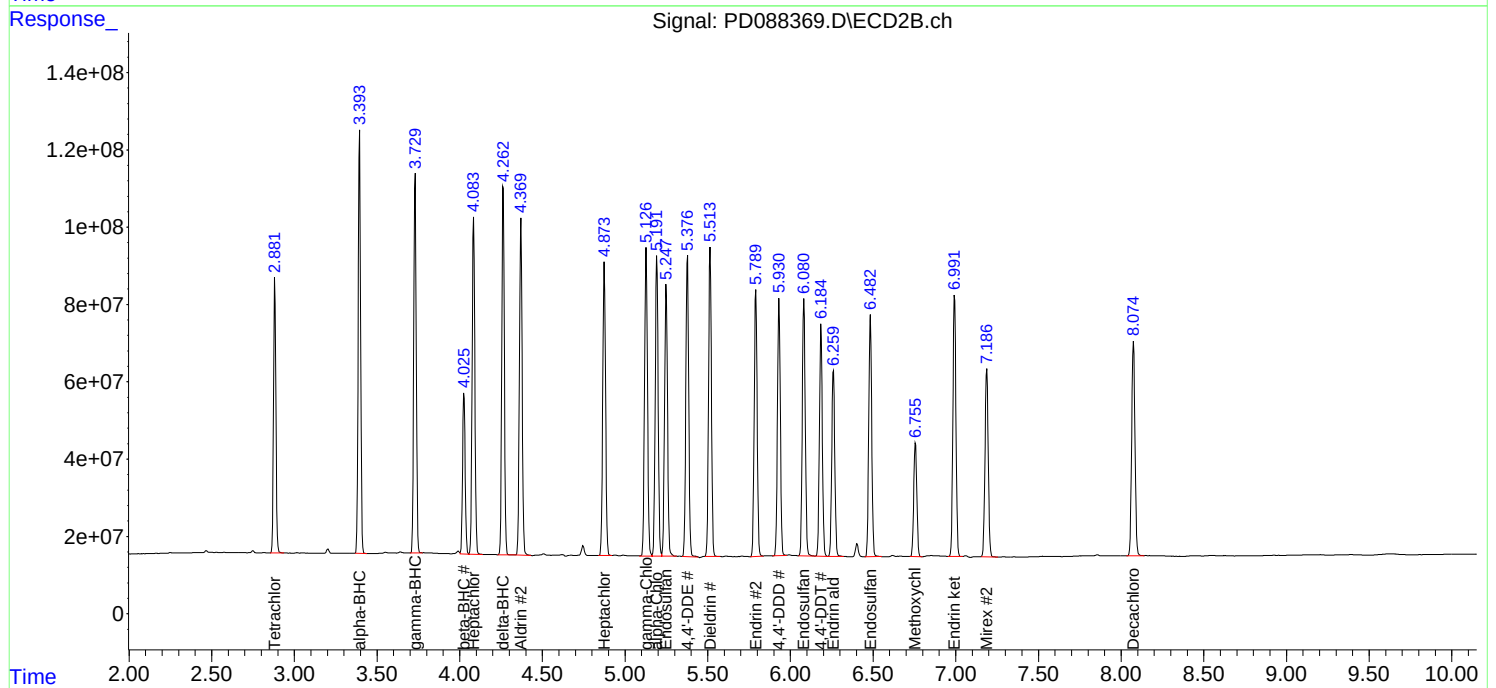
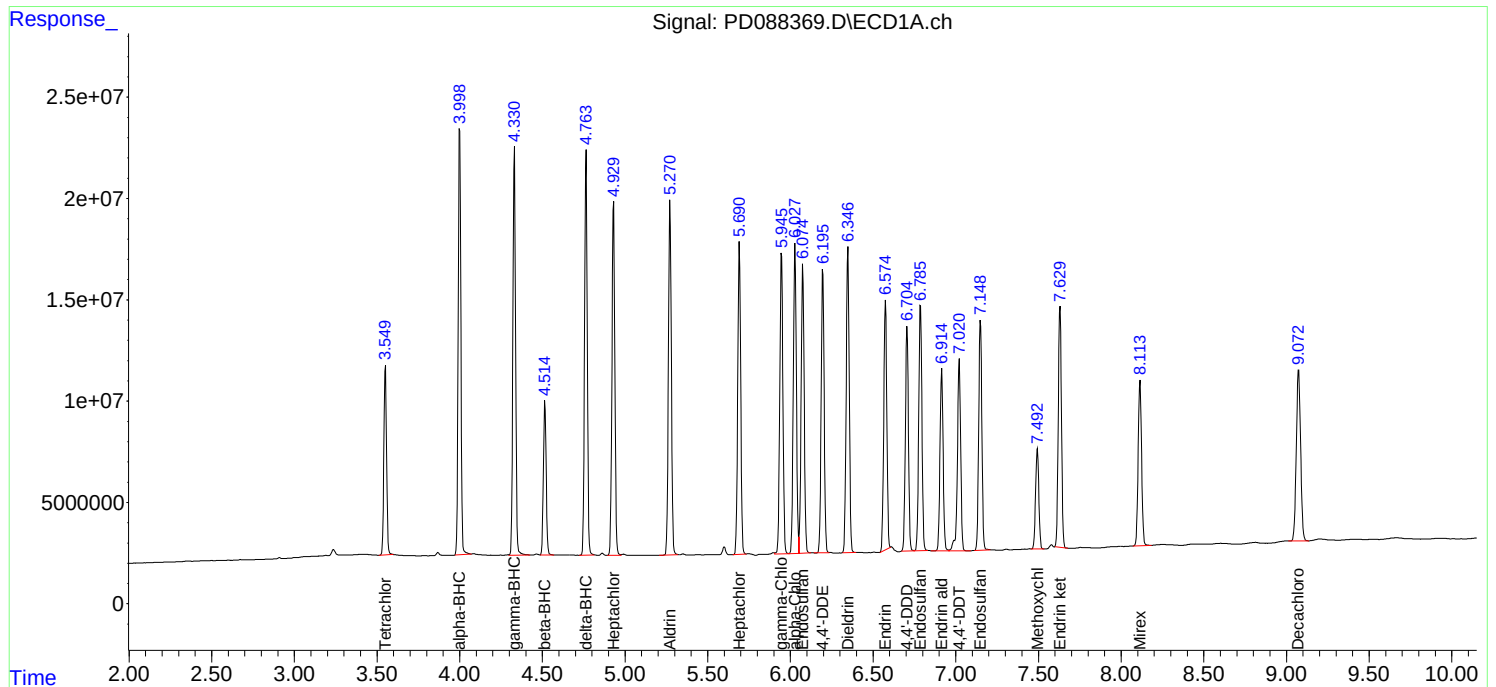
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088369.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 12:09
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:30:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 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: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Continuing Calib Date: 05/01/2025 Initial Calibration Date(s): 04/18/2025 04/18/2025

Continuing Calib Time: 17:19 Initial Calibration Time(s): 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.08	9.08	8.98	9.18	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endrin	6.58	6.58	6.48	6.68	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Continuing Calib Date: 05/01/2025 Initial Calibration Date(s): 04/18/2025 04/18/2025

Continuing Calib Time: 17:19 Initial Calibration Time(s): 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.09	4.09	3.99	4.19	0.00
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 04/18/2025 04/18/2025

Client Sample No.: CCAL02 Date Analyzed: 05/01/2025

Lab Sample No.: PSTDCCC050 Data File : PD088384.D Time Analyzed: 17:19

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.077	8.975	9.175	47.420	50.000	-5.2
Endrin	6.577	6.476	6.676	52.460	50.000	4.9
gamma-BHC (Lindane)	4.333	4.232	4.432	53.820	50.000	7.6
Heptachlor	4.933	4.831	5.031	53.190	50.000	6.4
Heptachlor epoxide	5.694	5.592	5.792	53.690	50.000	7.4
Methoxychlor	7.496	7.395	7.595	47.380	50.000	-5.2
Tetrachloro-m-xylene	3.553	3.452	3.652	52.240	50.000	4.5



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

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 04/18/2025 04/18/2025

Client Sample No.: CCAL02 Date Analyzed: 05/01/2025

Lab Sample No.: PSTDCCC050 Data File : PD088384.D Time Analyzed: 17:19

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.977	8.177	43.900	50.000	-12.2
Endrin	5.791	5.693	5.893	47.310	50.000	-5.4
gamma-BHC (Lindane)	3.731	3.633	3.833	48.110	50.000	-3.8
Heptachlor	4.085	3.986	4.186	46.890	50.000	-6.2
Heptachlor epoxide	4.875	4.777	4.977	48.060	50.000	-3.9
Methoxychlor	6.757	6.659	6.859	44.580	50.000	-10.8
Tetrachloro-m-xylene	2.882	2.783	2.983	48.420	50.000	-3.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
 Data File : PD088384.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 May 2025 17:19
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 05/02/2025

Supervised By :mohammad ahmed 05/05/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 02 01:33:59 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.553	2.882	104.3E6	707.9E6	52.239	48.417
28)	SA Decachlor...	9.077	8.076	156.9E6	811.3E6	47.421	43.902
Target Compounds							
2)	A alpha-BHC	4.002	3.395	236.1E6	1115.0E6	54.756	48.770
3)	MA gamma-BHC...	4.333	3.731	225.4E6	1036.3E6	53.820	48.113
4)	MA Heptachlor	4.933	4.085	214.8E6	1003.4E6	53.192	46.891
5)	MB Aldrin	5.274	4.371	216.1E6	1033.9E6	54.724	49.700
6)	B beta-BHC	4.518	4.027	86695638	445.6E6	53.404	48.157
7)	B delta-BHC	4.767	4.264	222.3E6	1032.8E6	53.891	48.575
8)	B Heptachlo...	5.694	4.875	191.9E6	908.0E6	53.691	48.058
9)	A Endosulfan I	6.077	5.249	183.1E6	801.6E6	54.205	44.502
10)	B gamma-Chl...	5.949	5.128	198.2E6	978.0E6	54.709	48.187
11)	B alpha-Chl...	6.030	5.193	195.9E6	938.8E6	54.273	47.889
12)	B 4,4'-DDE	6.199	5.376	172.8E6	947.9E6	52.405	48.132m
13)	MA Dieldrin	6.350	5.515	195.2E6	961.6E6	54.706	48.242
14)	MA Endrin	6.577	5.791	156.5E6	861.2E6	52.459	47.311
15)	B Endosulfa...	6.789	6.083	164.7E6	843.1E6	52.671	48.115
16)	A 4,4'-DDD	6.708	5.932	142.6E6	816.2E6	56.696	49.808
17)	MA 4,4'-DDT	7.024	6.186	135.6E6	763.9E6	48.817	44.891
18)	B Endrin al...	6.917	6.261	119.6E6	616.6E6	51.804	46.357
19)	B Endosulfa...	7.152	6.484	153.0E6	808.5E6	53.194	47.192
20)	A Methoxychlor	7.496	6.757	71044631	406.6E6	47.377	44.580
21)	B Endrin ke...	7.633	6.994	164.6E6	894.1E6	53.340	47.802
22)	Mirex	8.117	7.188	120.5E6	687.9E6	51.326	46.411

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088384.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 17:19
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PSTDCCC050

Manual Integrations

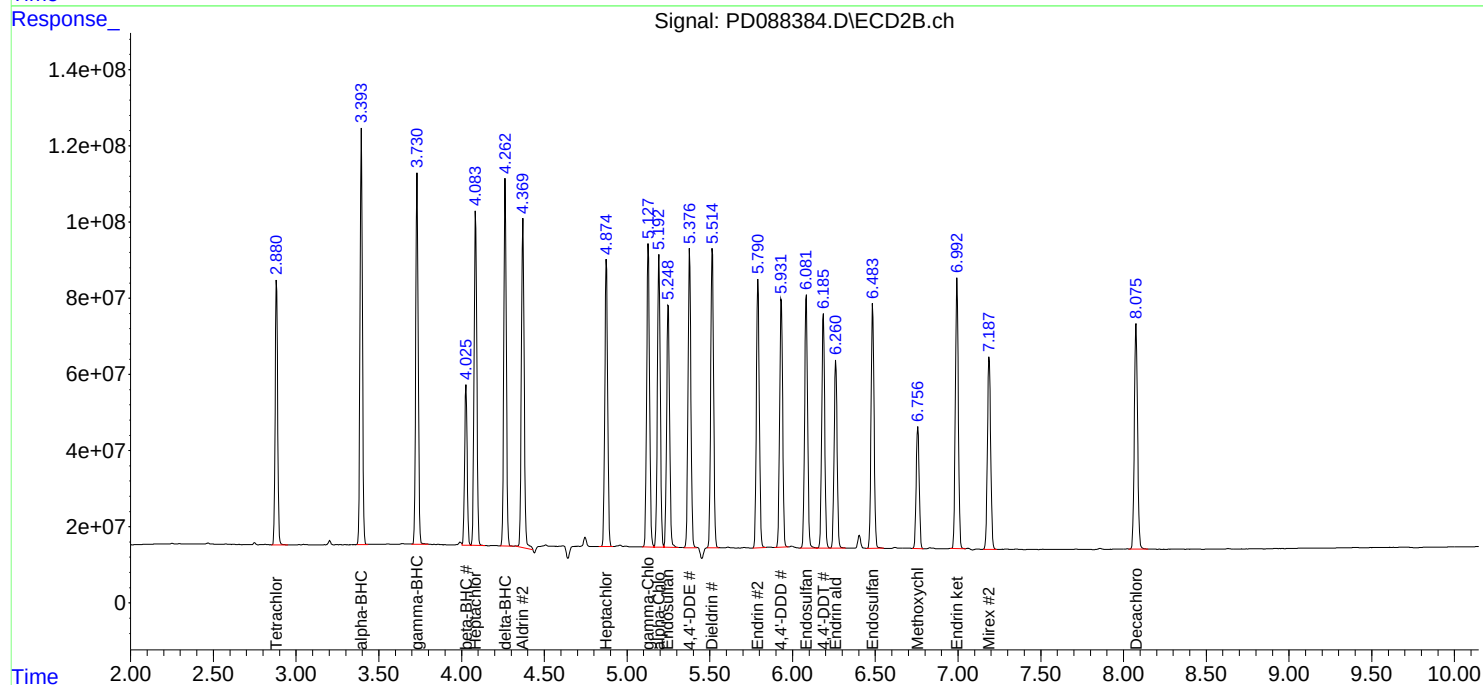
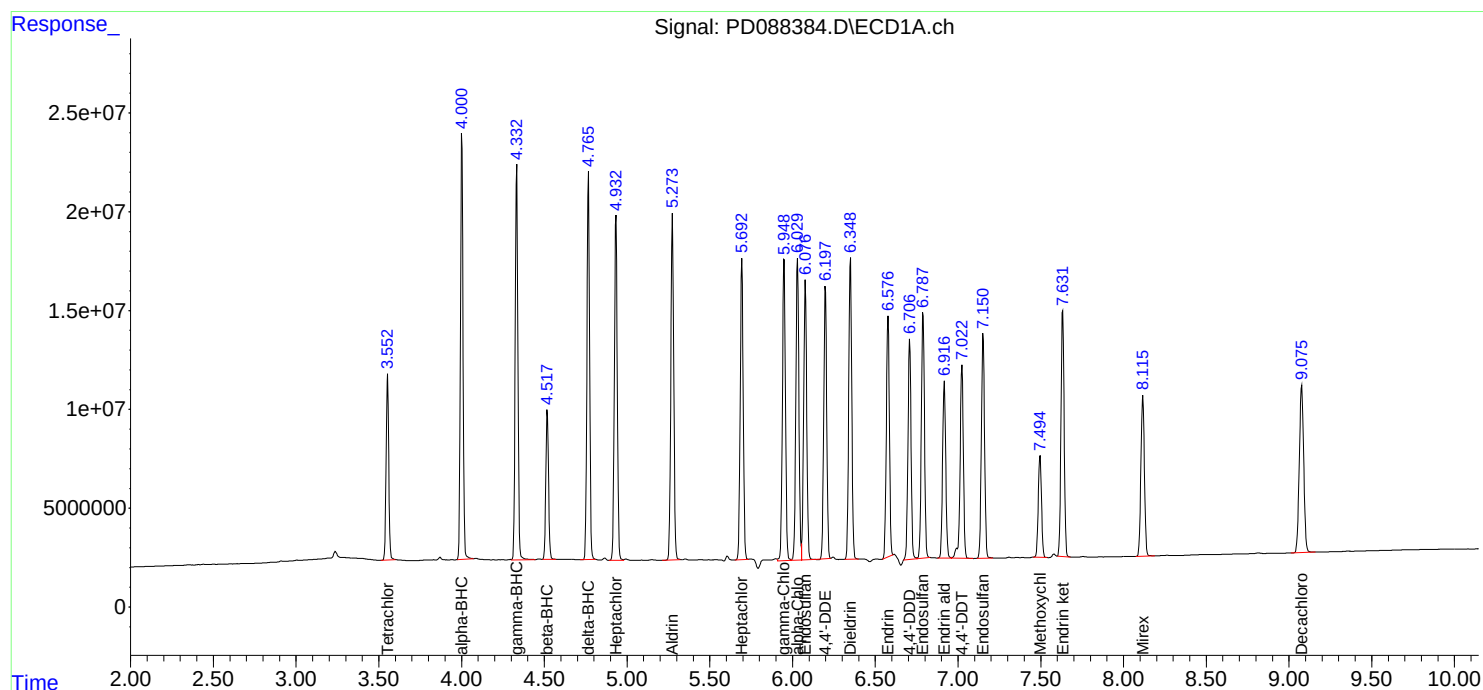
APPROVED

Reviewed By :Abdul Mirza 05/02/2025

Supervised By :mohammad ahmed 05/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:33:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: **PORT06**

Lab Code: **CHEM** Case No.: **Q1901** SAS No.: **Q1901** SDG NO.: **Q1901**

GC Column: **ZB-MR1** ID: **0.32** (mm) Initi. Calib. Date(s): **04/18/2025** **04/18/2025**

Client Sample No. (PEM): **PEM - PD088122.D** Date Analyzed: **04/18/2025**

Lab Sample No.(PEM): **PEM** Time Analyzed: **13:29**

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	9.075	8.970	9.180	23.220	20.000	16.1
Tetrachloro-m-xylene	3.551	3.500	3.600	21.610	20.000	8.1
alpha-BHC	4.000	3.950	4.050	9.950	10.000	-0.5
beta-BHC	4.516	4.470	4.570	11.360	10.000	13.6
gamma-BHC (Lindane)	4.331	4.280	4.380	10.480	10.000	4.8
Endrin	6.576	6.510	6.650	51.530	50.000	3.1
4,4'-DDT	7.023	6.950	7.090	110.510	100.000	10.5
Methoxychlor	7.494	7.420	7.560	265.100	250.000	6.0

GC Column: **ZB-MR2** ID: **0.32** (mm) Initi. Calib. Date(s): **04/18/2025** **04/18/2025**

Client Sample No. (PEM): **PEM - PD088122.D** Date Analyzed: **04/18/2025**

Lab Sample No.(PEM): **PEM** Time Analyzed: **13:29**

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	8.076	7.980	8.180	22.950	20.000	14.8
Tetrachloro-m-xylene	2.883	2.830	2.930	22.200	20.000	11.0
alpha-BHC	3.396	3.350	3.450	11.720	10.000	17.2
beta-BHC	4.028	3.980	4.080	12.460	10.000	24.6
gamma-BHC (Lindane)	3.732	3.680	3.780	11.580	10.000	15.8
Endrin	5.793	5.720	5.860	49.780	50.000	-0.4
4,4'-DDT	6.187	6.120	6.260	102.610	100.000	2.6
Methoxychlor	6.758	6.690	6.830	215.580	250.000	-13.8

Data File: PEM
 PD088122.D Date Acquired 4/18/2025 13:29
 Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin	6.58	153680370.7	162192230.2	8511859.47	5.25
Endrin aldehyde	6.92	3420195.012			
Endrin ketone	7.63	5091664.461			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.79	906106216.2	976124672.3	70018456.1	7.17
Endrin aldehyde #2	6.26	27341767.91			
Endrin ketone #2	6.99	42676688.15			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	306944307.8	307584368.9	640061.113	0.21
4,4'-DDE	0.00	0			
4,4'-DDD	6.71	640061.113			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.19	1746026847	1755776541	9749694.14	0.56
4,4'-DDE #2	0.00	0			
4,4'-DDD #2	5.94	9749694.138			

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
 Data File : PD088122.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 13:29
 Operator : AR\AJ
 Sample : PEM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PEM

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 04/19/2025
 Supervised By :mohammad ahmed 04/22/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 19 06:41:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.551	2.883	43154195	324.6E6	21.605	22.198
28)	SA Decachlor...	9.075	8.076	76807188	424.1E6	23.218	22.951
Target Compounds							
2)	A alpha-BHC	4.000	3.396	42909357	267.8E6	9.951	11.716
3)	MA gamma-BHC...	4.331	3.732	43874391	249.5E6	10.477	11.583
6)	B beta-BHC	4.516	4.028	18444986	115.3E6	11.362	12.462
14)	MA Endrin	6.576	5.793	153.7E6	906.1E6	51.526	49.780
16)	A 4,4'-DDD	6.708	5.936	640061	9749694	0.255	0.595m#
17)	MA 4,4'-DDT	7.023	6.187	306.9E6	1746.0E6	110.509	102.608
18)	B Endrin al...	6.915	6.262	3420195	27341768	1.482	2.056 #
20)	A Methoxychlor	7.494	6.758	397.5E6	1966.3E6	265.100	215.579
21)	B Endrin ke...	7.630	6.994	5091664	42676688	1.650	2.282 #

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088122.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:29
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

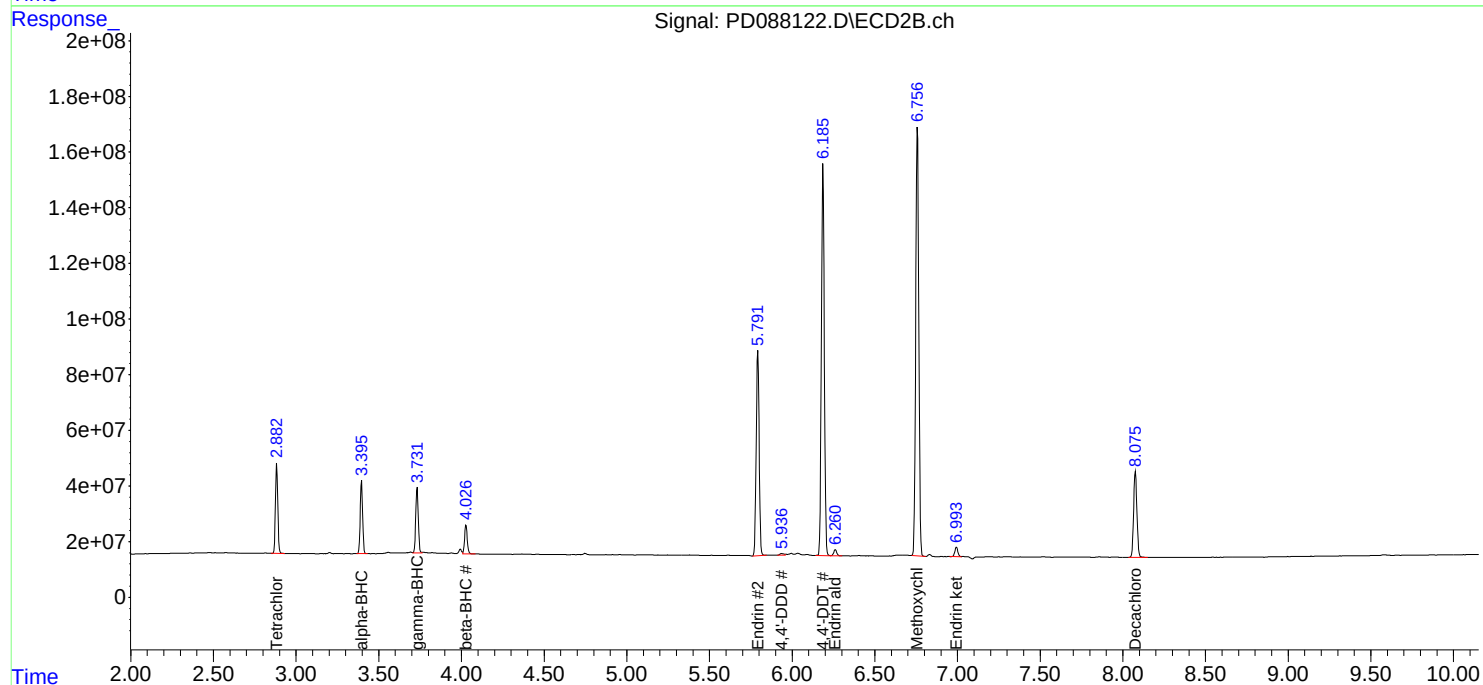
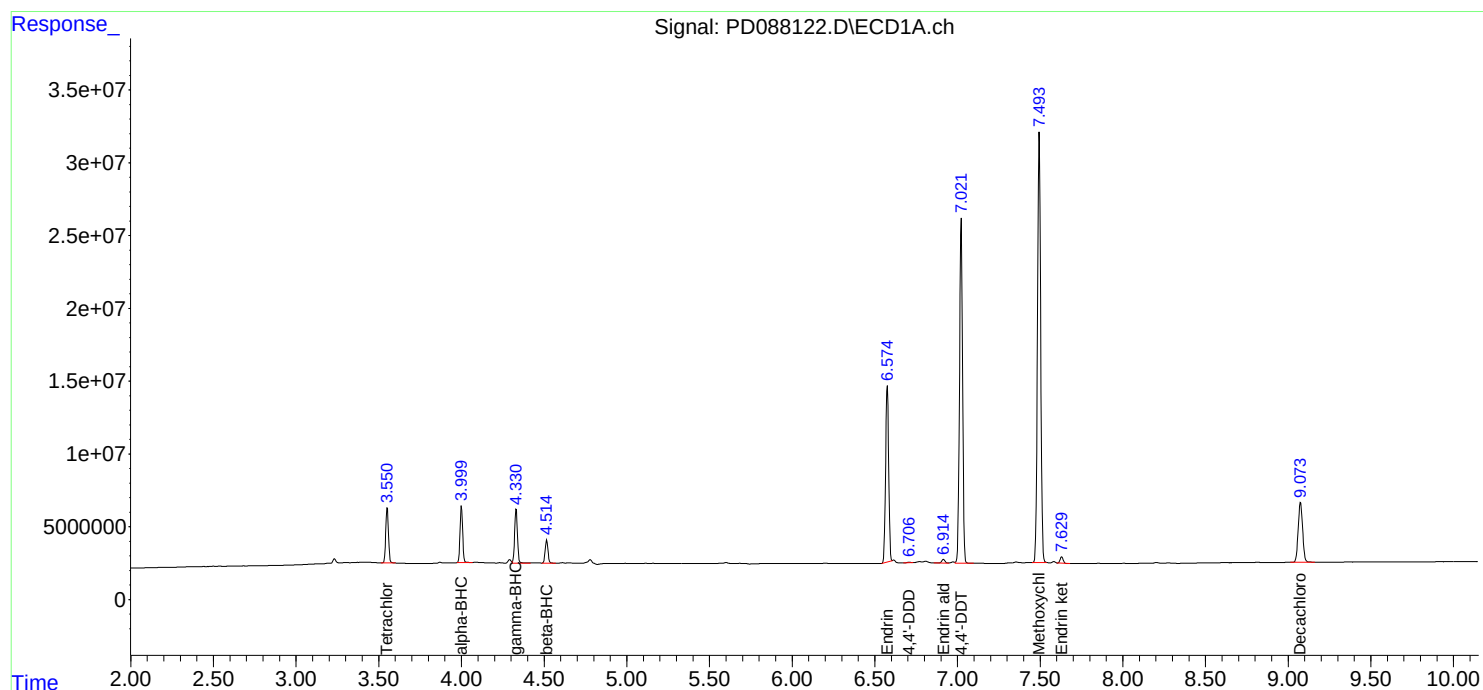
Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 04/19/2025
Supervised By : mohammad ahmed 04/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 06:41:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: **PORT06**

Lab Code: **CHEM** Case No.: **Q1901** SAS No.: **Q1901** SDG NO.: **Q1901**

GC Column: **ZB-MR1** ID: **0.32** (mm) Initi. Calib. Date(s): **04/18/2025** **04/18/2025**

Client Sample No. (PEM): **PEM - PD088365.D** Date Analyzed: **05/01/2025**

Lab Sample No.(PEM): **PEM** Time Analyzed: **09:55**

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	9.073	8.970	9.170	20.730	20.000	3.7
Tetrachloro-m-xylene	3.550	3.500	3.600	21.750	20.000	8.8
alpha-BHC	3.999	3.950	4.050	9.880	10.000	-1.2
beta-BHC	4.515	4.460	4.570	11.390	10.000	13.9
gamma-BHC (Lindane)	4.330	4.280	4.380	10.360	10.000	3.6
Endrin	6.575	6.500	6.650	53.330	50.000	6.7
4,4'-DDT	7.021	6.950	7.090	95.920	100.000	-4.1
Methoxychlor	7.493	7.420	7.560	223.310	250.000	-10.7

GC Column: **ZB-MR2** ID: **0.32** (mm) Initi. Calib. Date(s): **04/18/2025** **04/18/2025**

Client Sample No. (PEM): **PEM - PD088365.D** Date Analyzed: **05/01/2025**

Lab Sample No.(PEM): **PEM** Time Analyzed: **09:55**

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	8.074	7.970	8.170	18.740	20.000	-6.3
Tetrachloro-m-xylene	2.881	2.830	2.930	21.090	20.000	5.5
alpha-BHC	3.394	3.340	3.440	10.870	10.000	8.7
beta-BHC	4.026	3.980	4.080	11.230	10.000	12.3
gamma-BHC (Lindane)	3.730	3.680	3.780	10.780	10.000	7.8
Endrin	5.790	5.720	5.860	46.960	50.000	-6.1
4,4'-DDT	6.185	6.110	6.260	83.920	100.000	-16.1
Methoxychlor	6.755	6.680	6.830	168.520	250.000	-32.6

PEM
 Data File: PD088365.D Date Acquired 5/1/2025 9:55
 Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin	6.57	159059781.5	164071662.6	5011881.08	3.05
Endrin aldehyde	6.92	1201765.089			
Endrin ketone	7.63	3810115.994			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.79	854765799.7	897938343.1	43172543.5	4.81
Endrin aldehyde #2	6.26	9447968.535			
Endrin ketone #2	6.99	33724574.93			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	266416291.8	280302684.9	13886393.1	4.95
4,4'-DDE	6.20	833560.425			
4,4'-DDD	6.70	13052832.72			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.18	1428061771	1521476903	93415131.9	6.14
4,4'-DDE #2	5.38	2421264.928			
4,4'-DDD #2	5.93	90993867			

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
 Data File : PD088365.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 May 2025 09:55
 Operator : AR\AJ
 Sample : PEM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PEM

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 05/02/2025
 Supervised By :mohammad ahmed 05/05/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 02 01:29:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.550	2.881	43448141	308.3E6	21.752	21.087
28) SA Decachlor...	9.073	8.074	68576859	346.2E6	20.730	18.735
Target Compounds						
2) A alpha-BHC	3.999	3.394	42616762	248.5E6	9.883	10.869
3) MA gamma-BHC...	4.330	3.730	43374936	232.2E6	10.358	10.783
6) B beta-BHC	4.515	4.026	18491809	103.9E6	11.391	11.232
12) B 4,4'-DDE	6.196	5.376	833560	2421265	0.253m	0.123m#
14) MA Endrin	6.575	5.790	159.1E6	854.8E6	53.330	46.959
16) A 4,4'-DDD	6.704	5.931	13052833	90993867	5.190	5.553
17) MA 4,4'-DDT	7.021	6.185	266.4E6	1428.1E6	95.918	83.922
18) B Endrin al...	6.917	6.257	1201765	9447969	0.521	0.710m#
20) A Methoxychlor	7.493	6.755	334.9E6	1537.1E6	223.313	168.522
21) B Endrin ke...	7.630	6.991	3810116	33724575	1.234	1.803 #

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088365.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 09:55
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

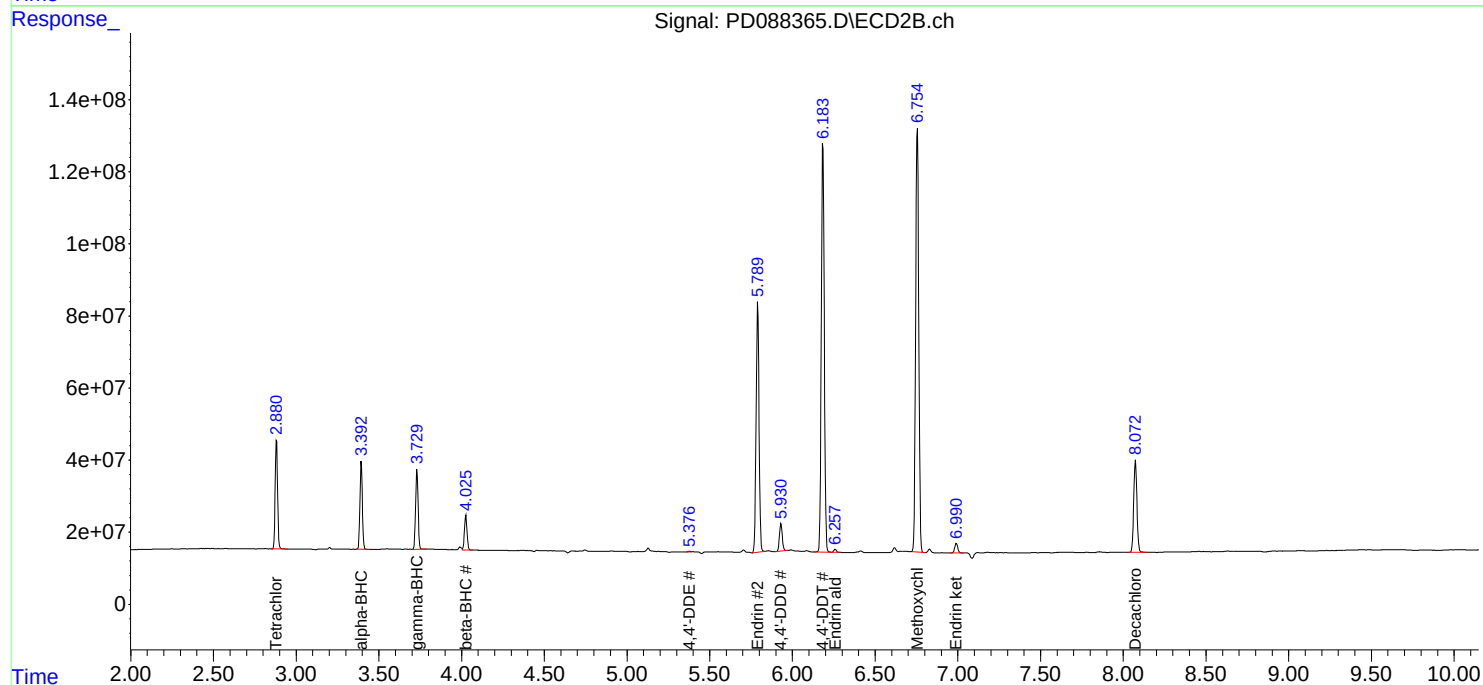
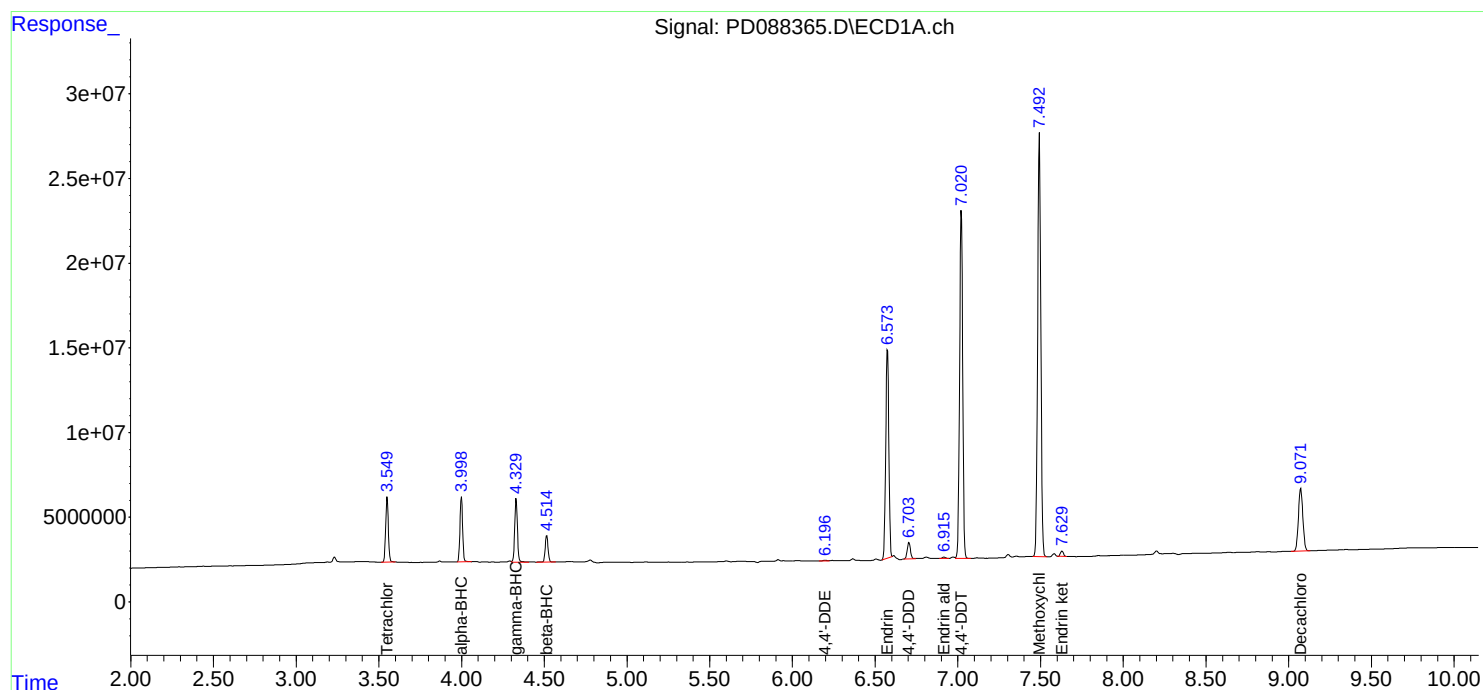
Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/02/2025
Supervised By : mohammad ahmed 05/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:29:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088123.D
Acq On : 18 Apr 2025 13:43
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_D\Method\PD041825.M
Title : GC Extractables
Last Update : Sat Apr 19 06:32:27 2025
Integrator: ChemStation

RT#1	RT#2	Resolution
3.552	5.948	100.00%
5.948	6.077	100.00%
6.077	6.198	100.00%
6.198	6.349	100.00%
6.349	7.151	100.00%
7.151	7.495	100.00%
7.495	7.631	100.00%
7.631	9.075	100.00%

Signal #2

2.883	5.130	100.00%
5.130	5.251	100.00%
5.251	5.379	100.00%
5.379	5.517	100.00%
5.517	6.486	100.00%
6.486	6.759	100.00%
6.759	6.995	100.00%
6.995	8.076	100.00%

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
 Data File : PD088123.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 13:43
 Operator : AR\AJ
 Sample : RESCHK
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 RESCHK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 21 06:03:25 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.552	2.883	37870717	290.8E6	18.960	19.885
28)	SA Decachlor...	9.075	8.076	66771462	372.0E6	20.184	20.130
Target Compounds							
9)	A Endosulfan I	6.077	5.251	29410187	177.2E6	8.709	9.836
10)	B gamma-Chl...	5.948	5.130	32853106	209.1E6	9.070	10.304
12)	B 4,4'-DDE	6.198	5.379	60393989	395.9E6	18.311	20.100
13)	MA Dieldrin	6.349	5.517	64800077	392.3E6	18.159	19.682
19)	B Endosulfa...	7.151	6.486	54061534	339.7E6	18.799	19.830
20)	A Methoxychlor	7.495	6.758	137.4E6	780.0E6	91.608	85.519
21)	B Endrin ke...	7.631	6.995	57978754	371.5E6	18.784	19.864

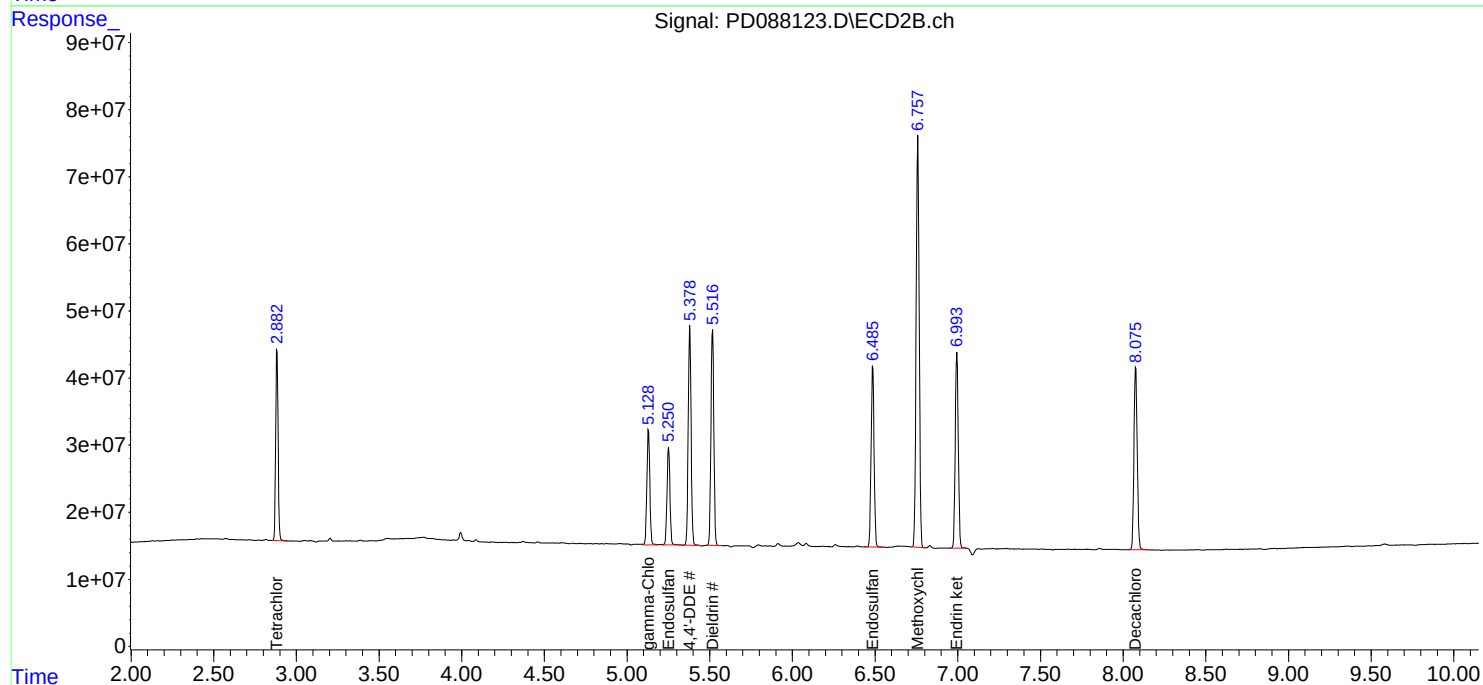
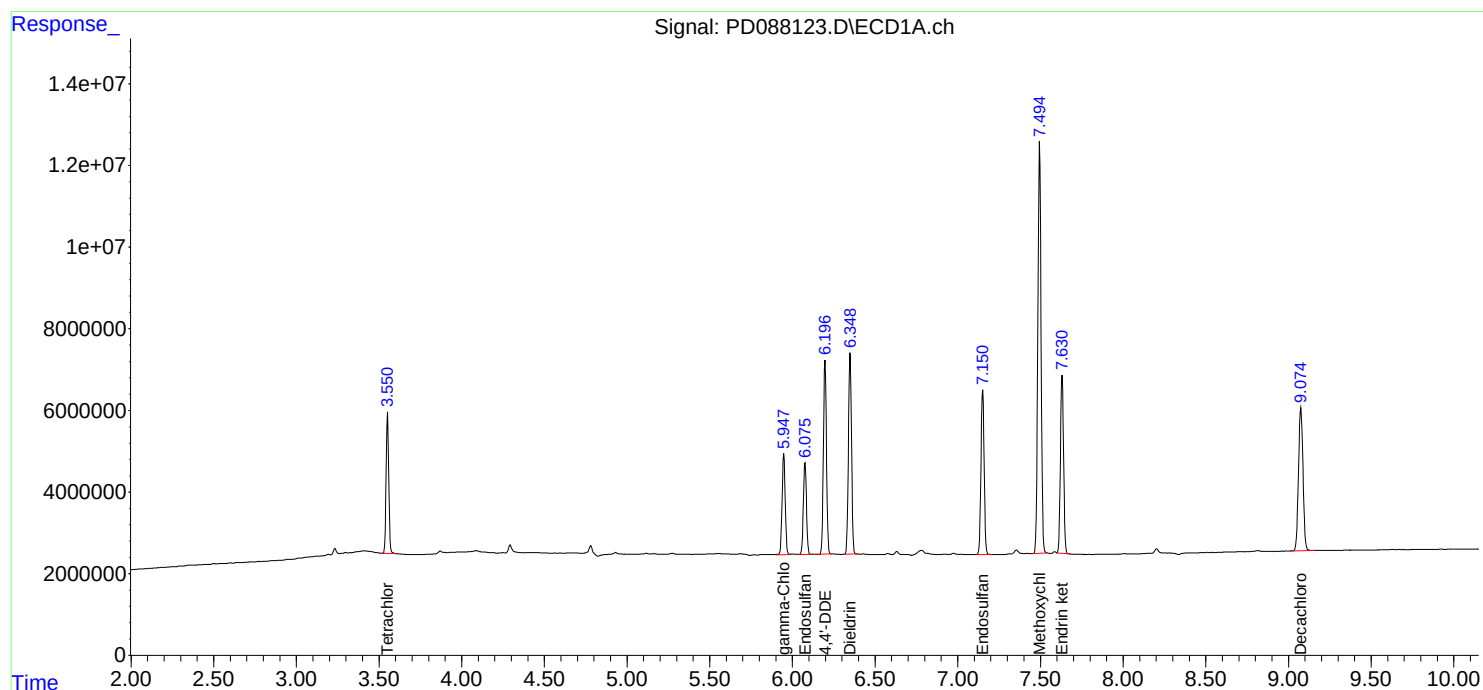
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088123.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:43
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
RESCHK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 21 06:03:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Analytical Sequence

Client: Portal Partners Tri-Venture	SDG No.: Q1901
Project: Amtrak Sawtooth Bridges 2025	Instrument ID: ECD_D
GC Column: ZB-MR1	ID: 0.32 (mm) Inst. Calib. Date(s): 04/18/2025 04/18/2025

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 #
IBLK	IBLK	04/18/2025	13:15	PD088121.D	9.07	3.55
PEM	PEM	04/18/2025	13:29	PD088122.D	9.08	3.55
RESCHK	RESCHK	04/18/2025	13:43	PD088123.D	9.08	3.55
PSTDICC100	PSTDICC100	04/18/2025	13:56	PD088124.D	9.08	3.55
PSTDICC075	PSTDICC075	04/18/2025	14:10	PD088125.D	9.07	3.55
PSTDICC050	PSTDICC050	04/18/2025	14:24	PD088126.D	9.08	3.55
PSTDICC025	PSTDICC025	04/18/2025	14:37	PD088127.D	9.08	3.55
PSTDICC005	PSTDICC005	04/18/2025	14:51	PD088128.D	9.08	3.55
PTOXICC500	PTOXICC500	04/18/2025	16:40	PD088136.D	9.07	3.55
PEM	PEM	05/01/2025	09:55	PD088365.D	9.07	3.55
IBLK	IBLK	05/01/2025	11:56	PD088368.D	9.07	3.55
PSTDCCC050	PSTDCCC050	05/01/2025	12:09	PD088369.D	9.07	3.55
PB167820BL	PB167820BL	05/01/2025	13:39	PD088370.D	9.09	3.56
PB167820BS	PB167820BS	05/01/2025	13:53	PD088371.D	9.08	3.55
PB167774TB	PB167774TB	05/01/2025	14:06	PD088372.D	9.07	3.55
B-167-SB01	Q1901-08	05/01/2025	15:01	PD088376.D	9.08	3.55
B-167-SB01MS	Q1901-08MS	05/01/2025	15:15	PD088377.D	9.07	3.55
B-167-SB01MSD	Q1901-08MSD	05/01/2025	15:28	PD088378.D	9.07	3.55
B-170-SB01	Q1901-09	05/01/2025	15:42	PD088379.D	9.07	3.55
B-167-SB02	Q1901-10	05/01/2025	15:56	PD088380.D	9.07	3.55
B-170-SB02	Q1901-11	05/01/2025	16:10	PD088381.D	9.07	3.55
IBLK	IBLK	05/01/2025	16:37	PD088383.D	9.07	3.55
PSTDCCC050	PSTDCCC050	05/01/2025	17:19	PD088384.D	9.08	3.55

Analytical Sequence

Client: Portal Partners Tri-Venture	SDG No.: Q1901
Project: Amtrak Sawtooth Bridges 2025	Instrument ID: ECD_D
GC Column: ZB-MR2	ID: 0.32 (mm) Inst. Calib. Date(s): 04/18/2025 04/18/2025

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 #
IBLK	IBLK	04/18/2025	13:15	PD088121.D	8.08	2.88
PEM	PEM	04/18/2025	13:29	PD088122.D	8.08	2.88
RESCHK	RESCHK	04/18/2025	13:43	PD088123.D	8.08	2.88
PSTDICC100	PSTDICC100	04/18/2025	13:56	PD088124.D	8.09	2.90
PSTDICC075	PSTDICC075	04/18/2025	14:10	PD088125.D	8.08	2.88
PSTDICC050	PSTDICC050	04/18/2025	14:24	PD088126.D	8.08	2.88
PSTDICC025	PSTDICC025	04/18/2025	14:37	PD088127.D	8.08	2.88
PSTDICC005	PSTDICC005	04/18/2025	14:51	PD088128.D	8.08	2.88
PTOXICC500	PTOXICC500	04/18/2025	16:40	PD088136.D	8.08	2.88
PEM	PEM	05/01/2025	09:55	PD088365.D	8.07	2.88
IBLK	IBLK	05/01/2025	11:56	PD088368.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/01/2025	12:09	PD088369.D	8.08	2.88
PB167820BL	PB167820BL	05/01/2025	13:39	PD088370.D	8.08	2.88
PB167820BS	PB167820BS	05/01/2025	13:53	PD088371.D	8.08	2.88
PB167774TB	PB167774TB	05/01/2025	14:06	PD088372.D	8.07	2.88
B-167-SB01	Q1901-08	05/01/2025	15:01	PD088376.D	8.08	2.88
B-167-SB01MS	Q1901-08MS	05/01/2025	15:15	PD088377.D	8.08	2.88
B-167-SB01MSD	Q1901-08MSD	05/01/2025	15:28	PD088378.D	8.08	2.88
B-170-SB01	Q1901-09	05/01/2025	15:42	PD088379.D	8.08	2.88
B-167-SB02	Q1901-10	05/01/2025	15:56	PD088380.D	8.08	2.88
B-170-SB02	Q1901-11	05/01/2025	16:10	PD088381.D	8.08	2.88
IBLK	IBLK	05/01/2025	16:37	PD088383.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/01/2025	17:19	PD088384.D	8.08	2.88

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-167-SB01MS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1901

SAS No.: Q1901 **SDG NO.:** Q1901

Lab Sample ID: Q1901-08MS

Date(s) Analyzed: 05/01/2025 05/01/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm)

GC Column:(2): ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endrin	1	6.58	6.53	6.63	5.50	13.6
	2	5.79	5.74	5.84	4.80	
Methoxychlor	1	7.49	7.44	7.54	5.10	10.3
	2	6.76	6.71	6.81	4.60	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	5.50	11.5
	2	3.73	3.68	3.78	4.90	
Heptachlor	1	4.93	4.88	4.98	5.40	13.9
	2	4.09	4.04	4.14	4.70	
Heptachlor epoxide	1	5.69	5.64	5.74	5.60	13.3
	2	4.88	4.83	4.93	4.90	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-167-SB01MSD

Contract: PORT06

Lab Code: CHEM Case No.: Q1901

SAS No.: Q1901 SDG NO.: Q1901

Lab Sample ID: Q1901-08MSD

Date(s) Analyzed: 05/01/2025 05/01/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

GC Column: (1): ZB-MR1 ID: 0.32 (mm)

GC Column: (2): ZB-MR2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endrin	1	6.58	6.53	6.63	5.50	11.5
	2	5.79	5.74	5.84	4.90	
Methoxychlor	1	7.49	7.44	7.54	5.00	8.3
	2	6.76	6.71	6.81	4.60	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	5.50	11.5
	2	3.73	3.68	3.78	4.90	
Heptachlor	1	4.93	4.88	4.98	5.40	13.9
	2	4.09	4.04	4.14	4.70	
Heptachlor epoxide	1	5.69	5.64	5.74	5.50	11.5
	2	4.88	4.83	4.93	4.90	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167820BS

Contract: PORT06

Lab Code: CHEM

Case No.: Q1901

SAS No.: Q1901

SDG NO.: Q1901

Lab Sample ID: PB167820BS

Date(s) Analyzed: 05/01/2025

05/01/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

GC Column: (1): ZB-MR1

ID: 0.32 (mm)

GC Column: (2): ZB-MR2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Methoxychlor	1	7.49	7.44	7.54	0.46	8.3
	2	6.76	6.71	6.81	0.43	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.52	8.6
	2	3.73	3.68	3.78	0.48	
Heptachlor	1	4.93	4.88	4.98	0.52	11.3
	2	4.08	4.03	4.13	0.46	
Heptachlor epoxide	1	5.69	5.64	5.74	0.53	9.9
	2	4.87	4.82	4.92	0.48	
Endrin	1	6.58	6.53	6.63	0.51	11.2
	2	5.79	5.74	5.84	0.46	



QC SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167820BL	SDG No.:	Q1901
Lab Sample ID:	PB167820BL	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
PD088370.D	1	05/01/25 08:56	05/01/25 13:39	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.6		30 (43) - 150 (140)	93%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.5		30 (77) - 150 (126)	92%	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_D\Data\PD050125\
 Data File : PD088370.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 May 2025 13:39
 Operator : AR\AJ
 Sample : PB167820BL
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PB167820BL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 02 01:31:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.558	2.881	35908305	270.0E6	17.978	18.464
28) SA Decachlor...	9.085	8.077	61588544	310.0E6	18.617	16.773

Target Compounds

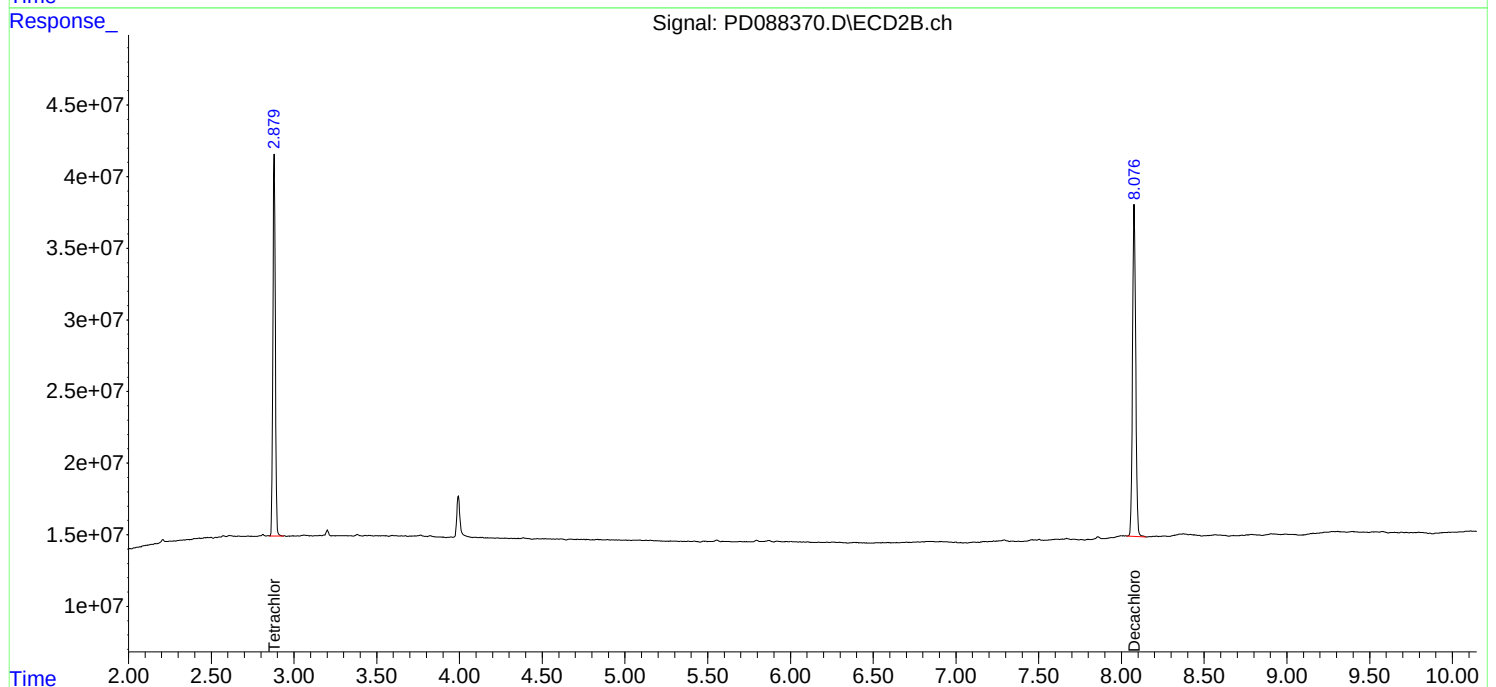
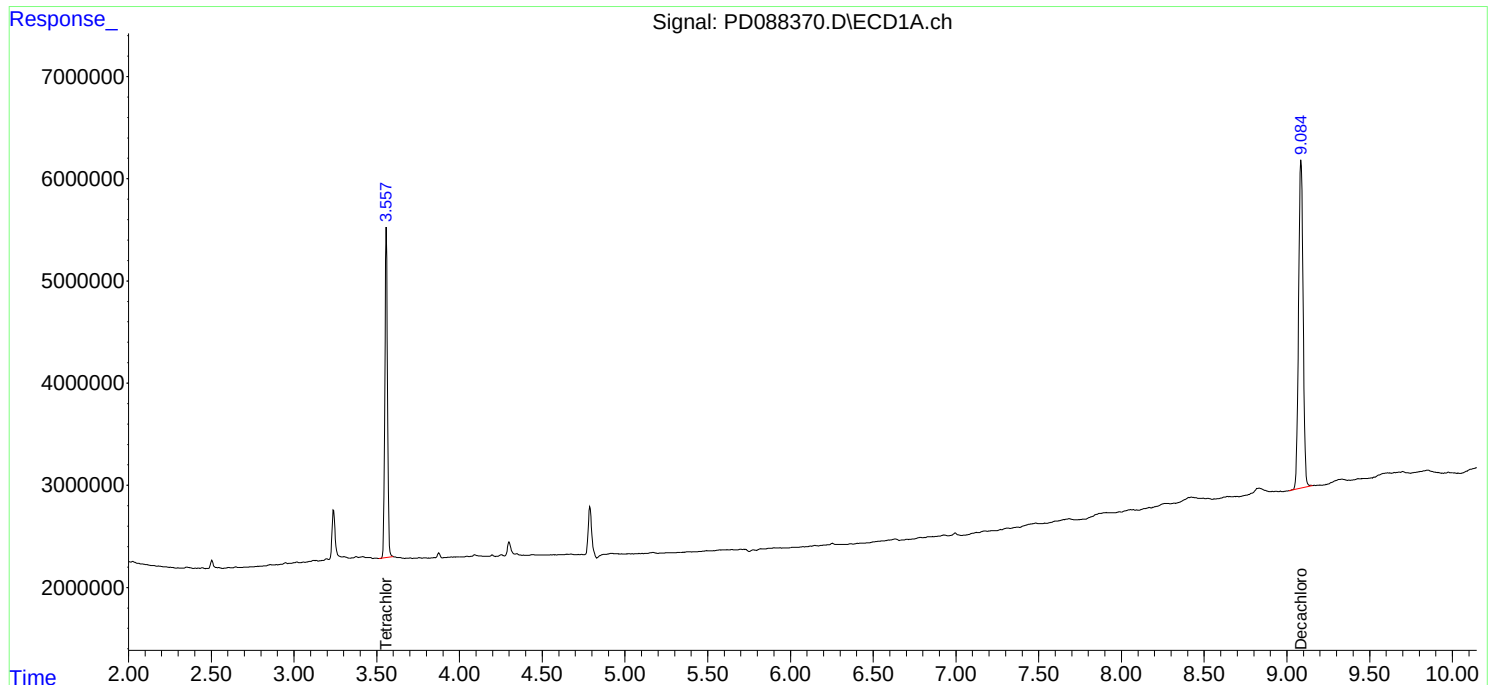
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

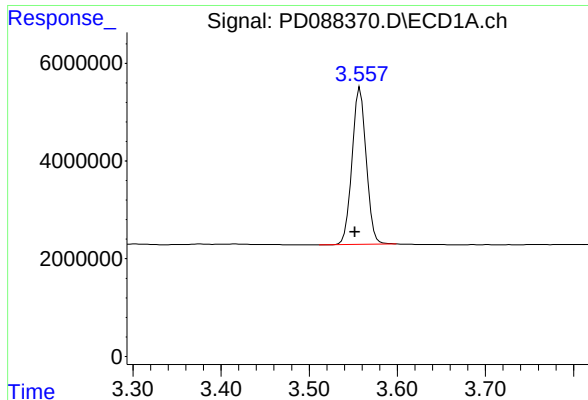
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088370.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 13:39
Operator : AR\AJ
Sample : PB167820BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB167820BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:31:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

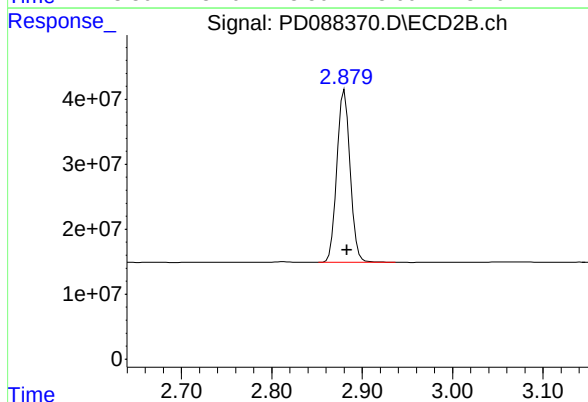




#1 Tetrachloro-m-xylene

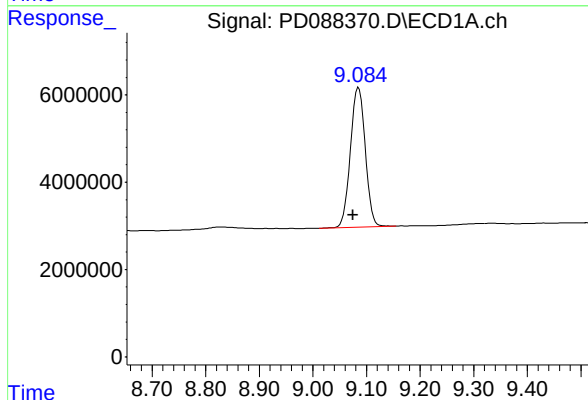
R.T.: 3.558 min
Delta R.T.: 0.006 min
Response: 35908305
Conc: 17.98 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167820BL



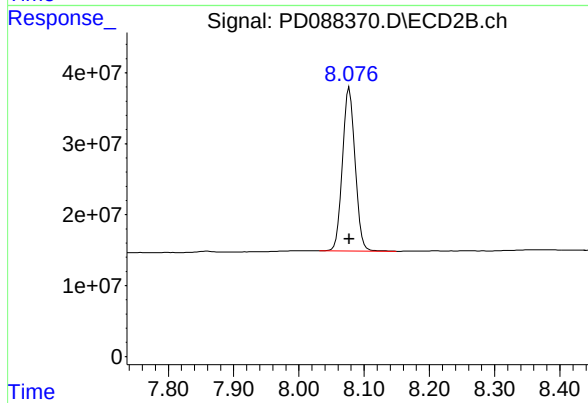
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: -0.002 min
Response: 269968842
Conc: 18.46 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.085 min
Delta R.T.: 0.010 min
Response: 61588544
Conc: 18.62 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 309963841
Conc: 16.77 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/18/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/18/25
Client Sample ID:	PIBLK-PD088121.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PD088121.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
PD088121.D	1		04/18/25	PD041825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.9		30 (43) - 150 (140)	115%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.9		30 (77) - 150 (126)	104%	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_D\Data\PD041825\
 Data File : PD088121.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 18 Apr 2025 13:15
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Apr 19 06:41:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.552	2.883	40168059	305.0E6	20.110	20.857
28) SA Decachlor...	9.074	8.076	75778794	419.0E6	22.907	22.673

Target Compounds

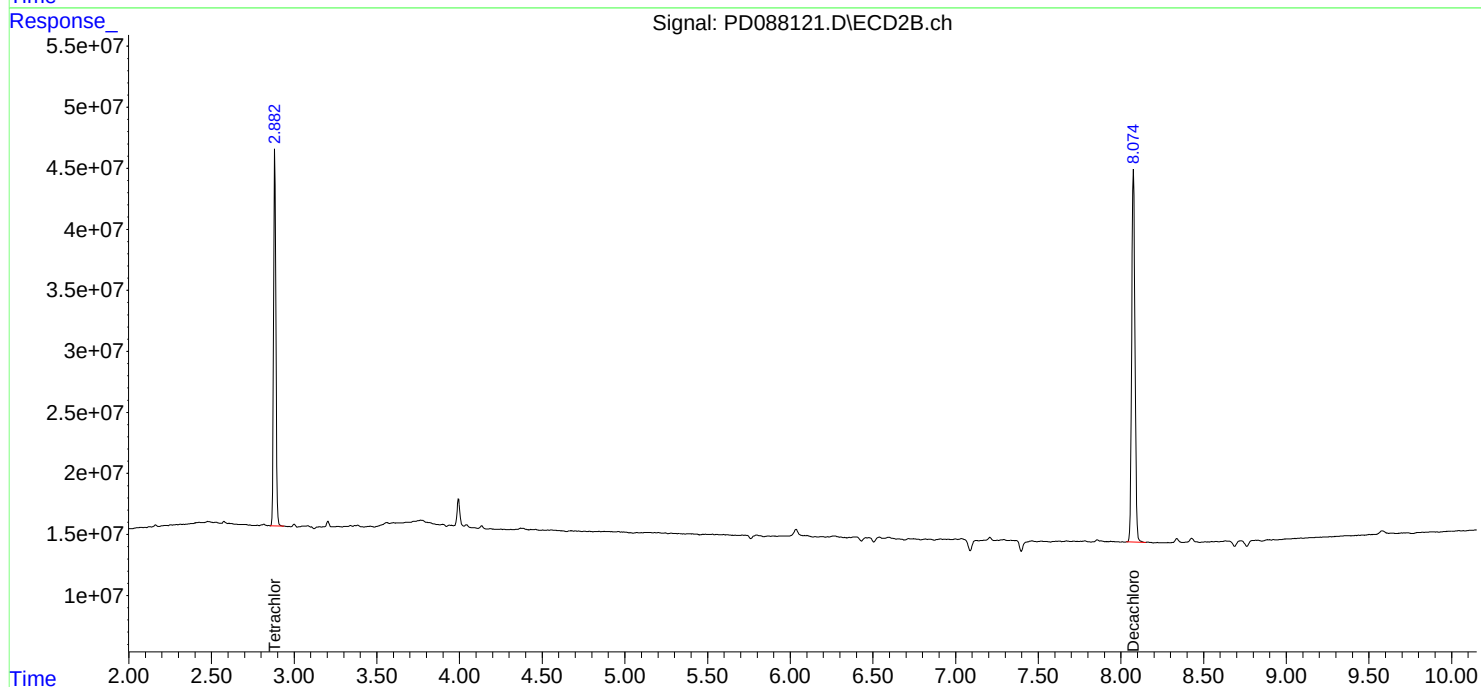
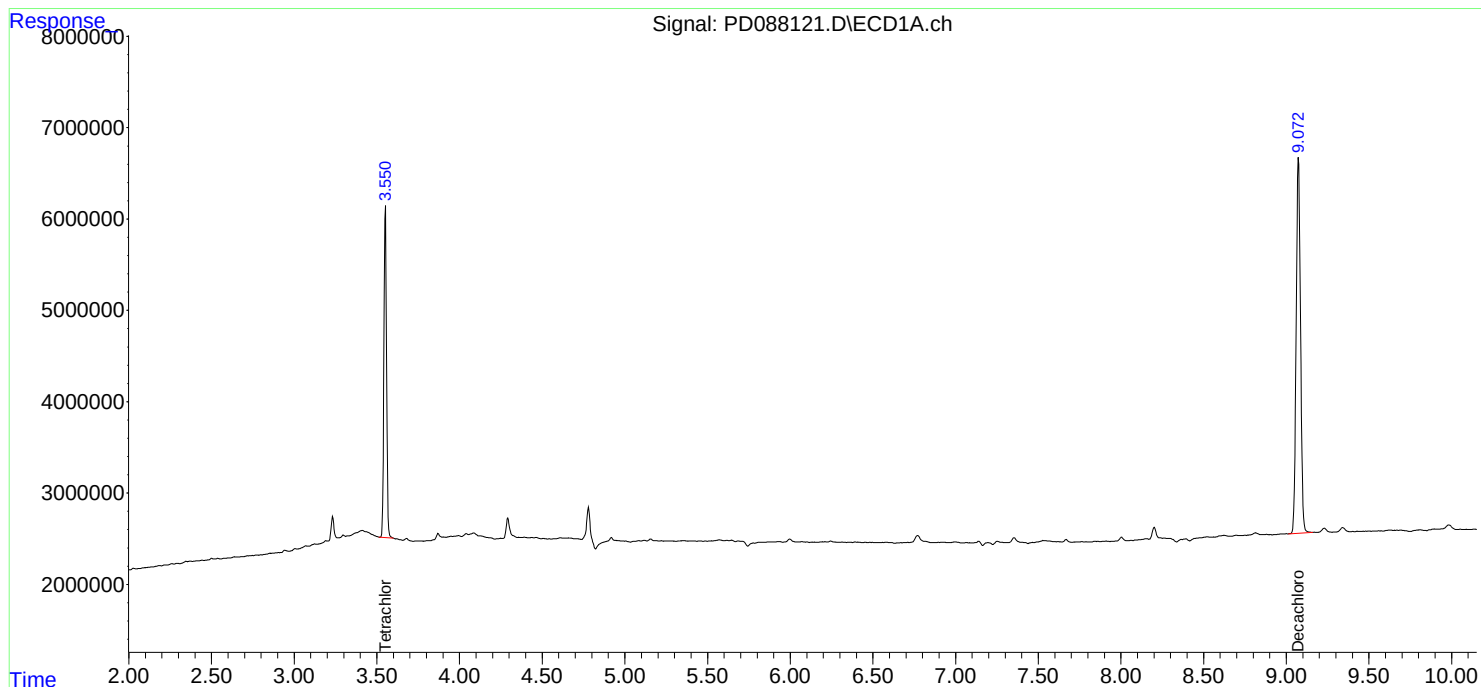
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

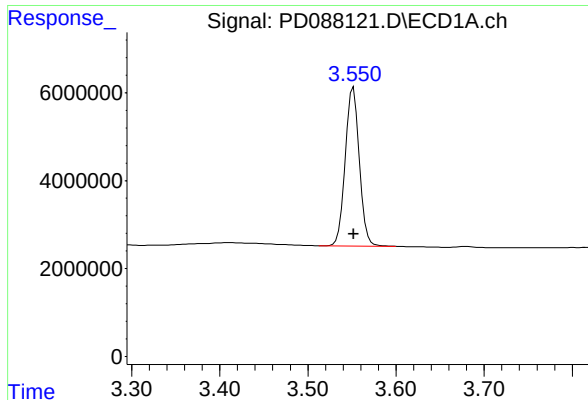
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088121.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:15
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 06:41:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

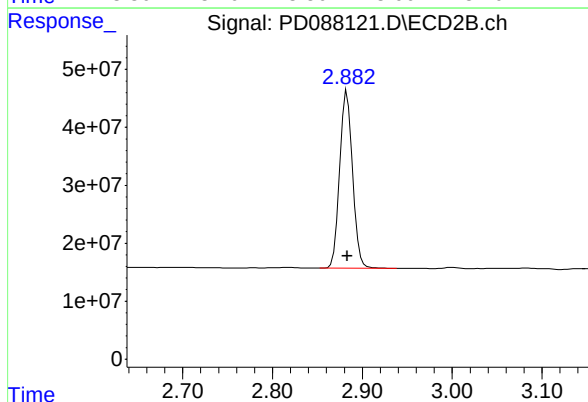




#1 Tetrachloro-m-xylene

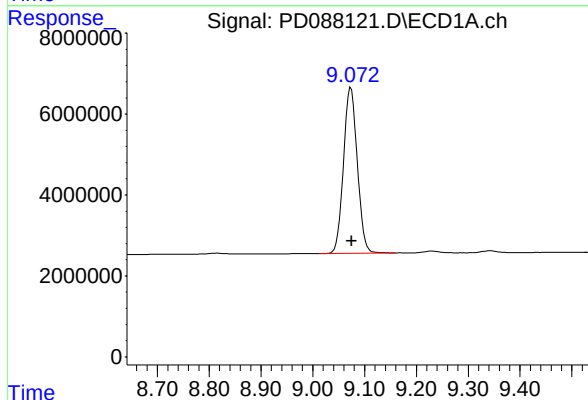
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 40168059
Conc: 20.11 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



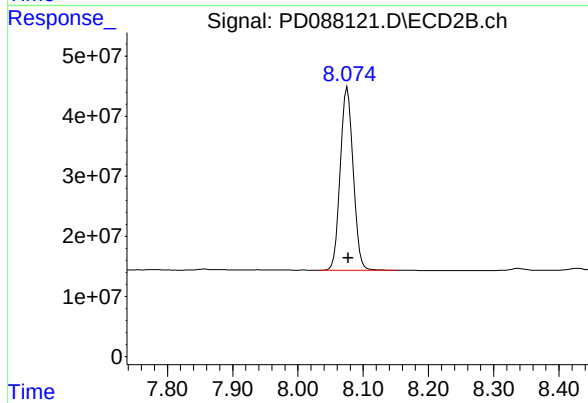
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 304969472
Conc: 20.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: -0.001 min
Response: 75778794
Conc: 22.91 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: -0.001 min
Response: 418982365
Conc: 22.67 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/01/25
Client Sample ID:	PIBLK-PD088368.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PD088368.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
PD088368.D	1		05/01/25	pd050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.7		30 (43) - 150 (140)	103%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		30 (77) - 150 (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_D\Data\PD050125\
Data File : PD088368.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 11:56
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:30:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 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...	3.551	2.881	40763550	289.7E6	20.408	19.814
28) SA Decachlor...	9.074	8.075	68410643	348.9E6	20.680	18.882

Target Compounds

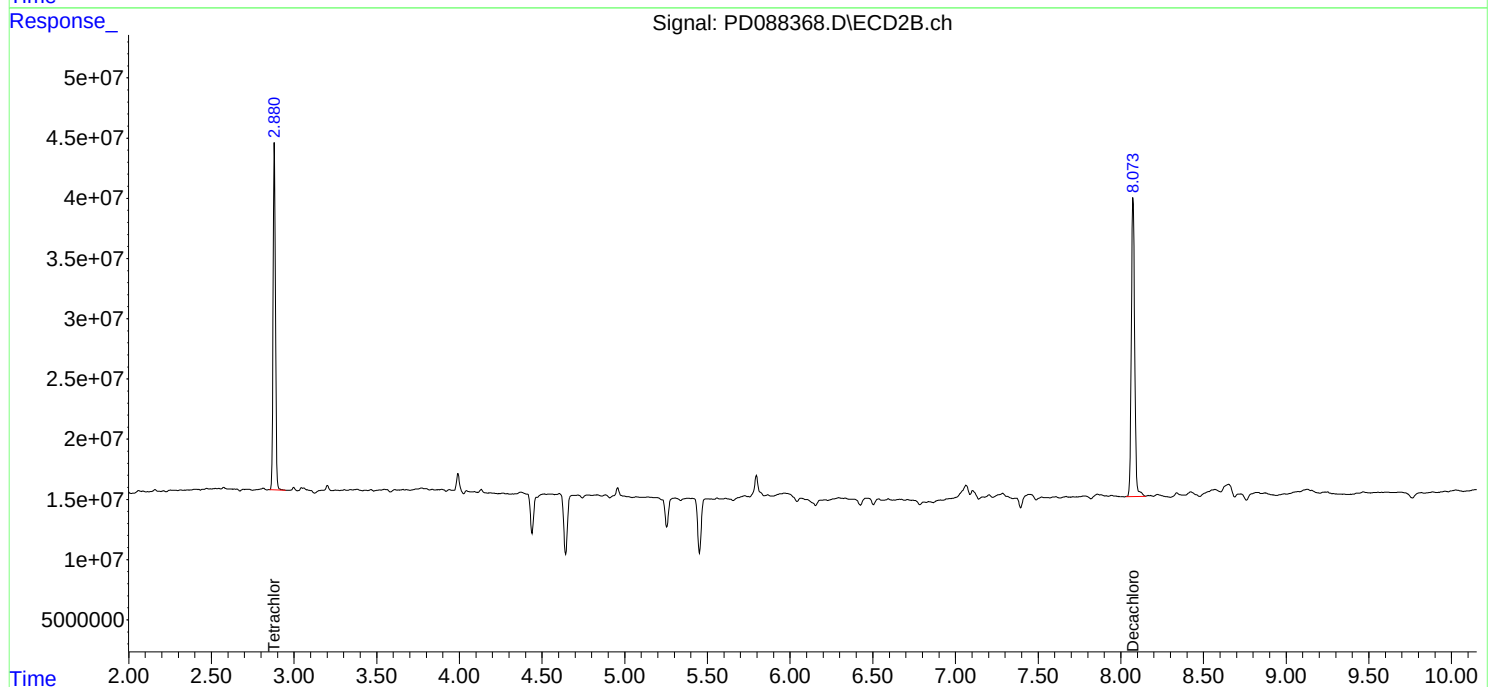
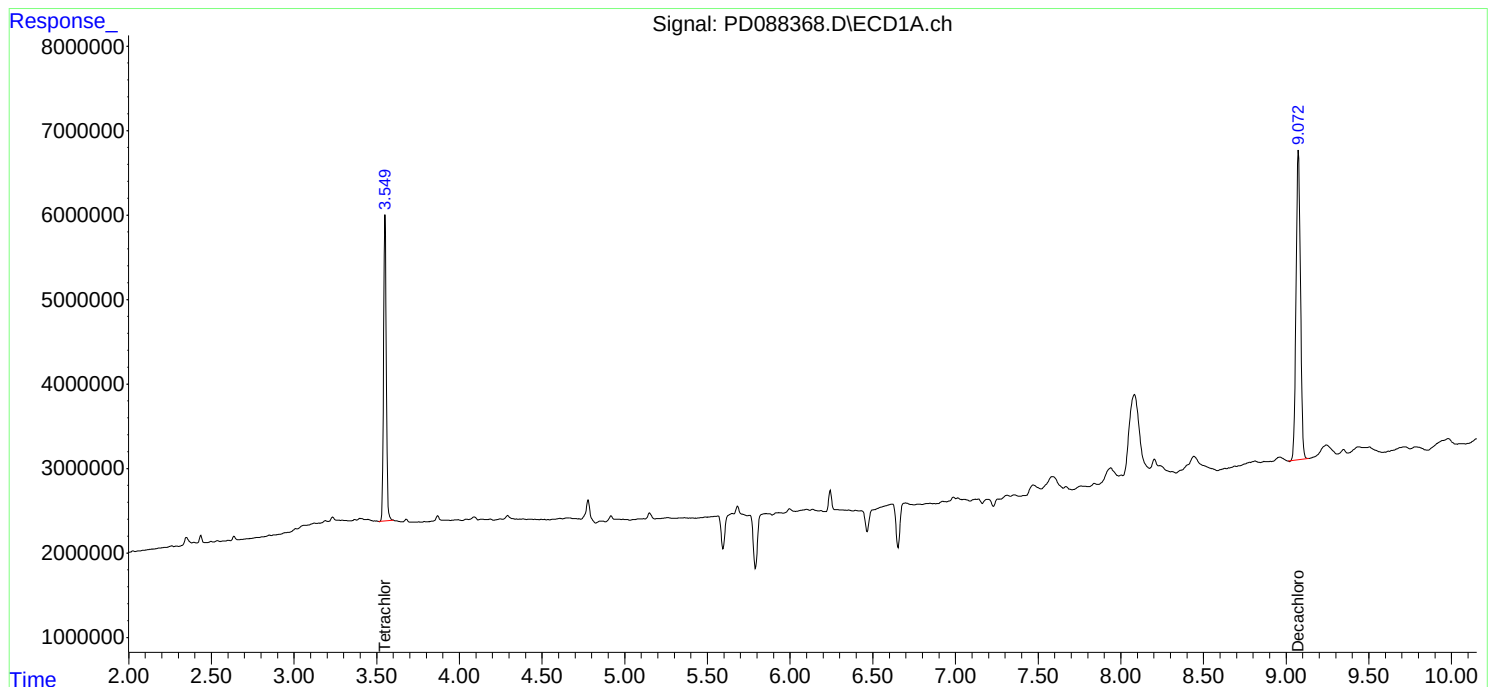
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

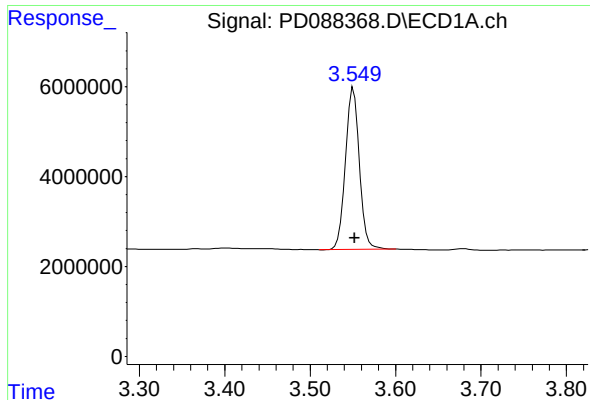
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088368.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 11:56
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:30:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

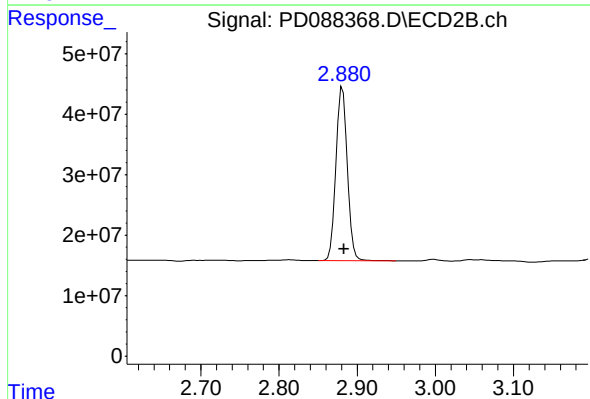




#1 Tetrachloro-m-xylene

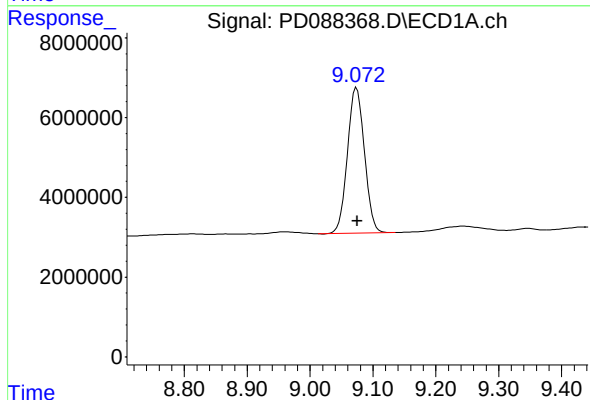
R.T.: 3.551 min
Delta R.T.: -0.001 min
Response: 40763550
Conc: 20.41 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



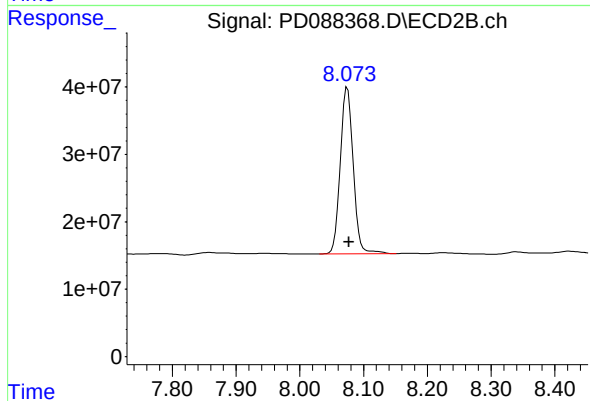
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: -0.002 min
Response: 289715132
Conc: 19.81 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: 0.000 min
Response: 68410643
Conc: 20.68 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 348939584
Conc: 18.88 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/01/25
Client Sample ID:	PIBLK-PD088383.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-PD088383.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
PD088383.D	1		05/01/25	pd050125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.0		30 (43) - 150 (140)	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		30 (77) - 150 (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_D\Data\PD050125\
Data File : PD088383.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 16:37
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:33:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 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...	3.551	2.882	40781272	291.5E6	20.417	19.934
28) SA Decachlor...	9.074	8.075	69585088	367.0E6	21.035	19.862

Target Compounds

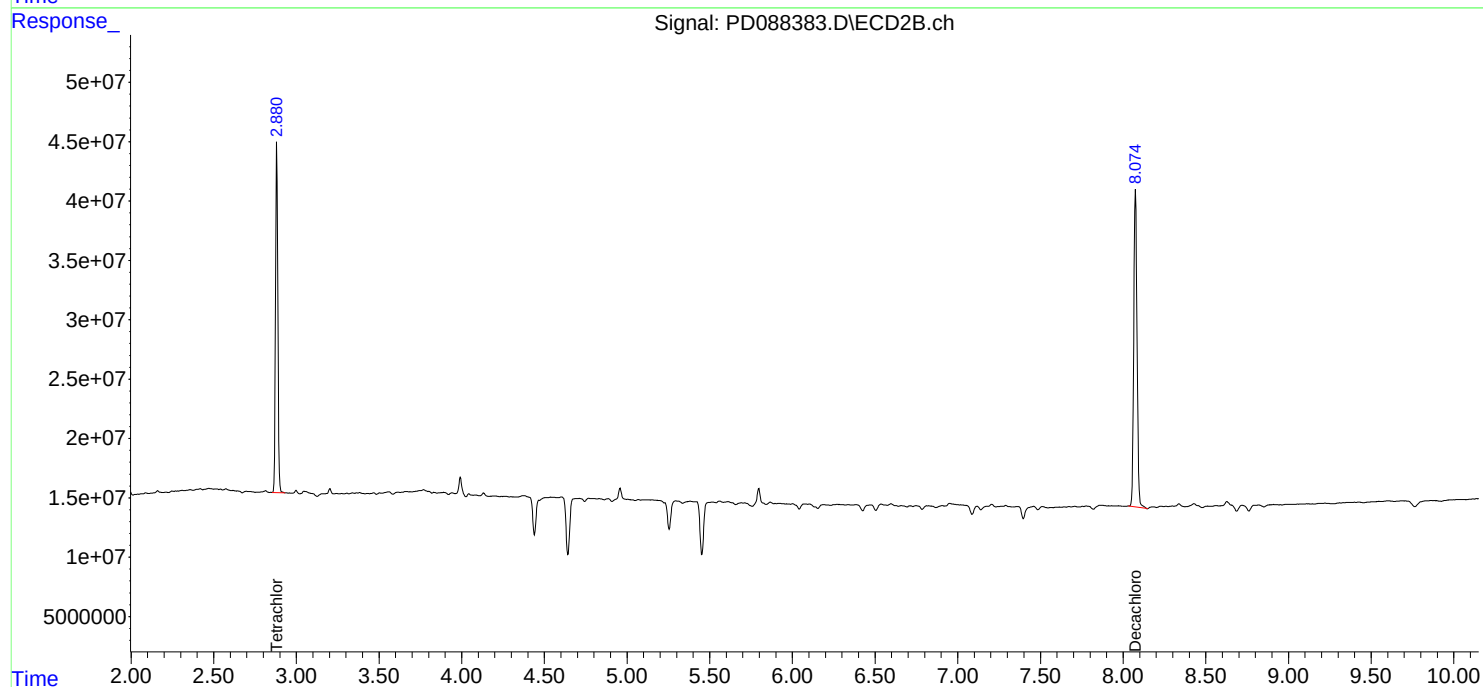
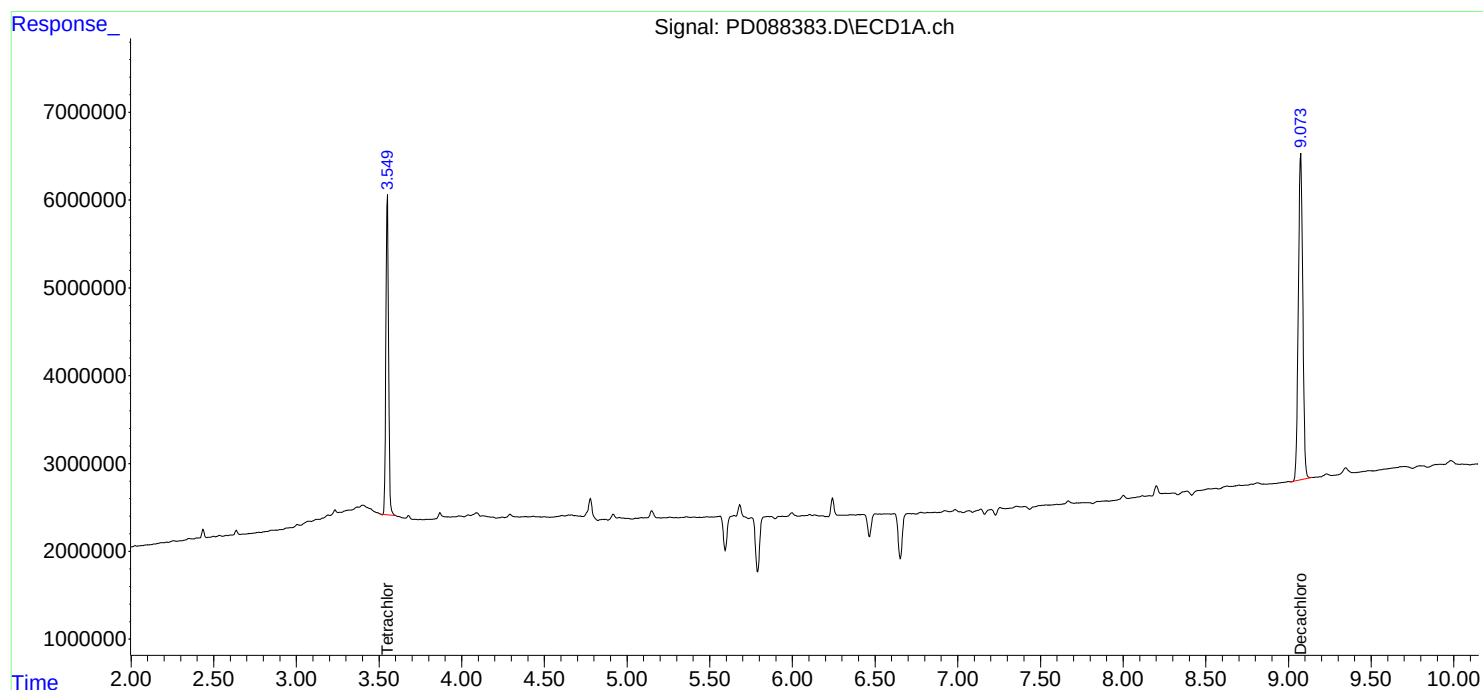
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

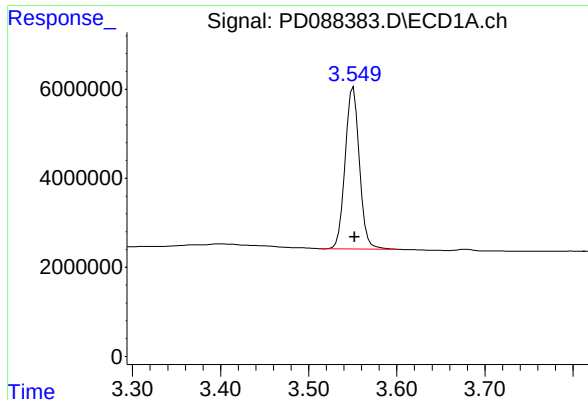
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088383.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 16:37
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:33:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

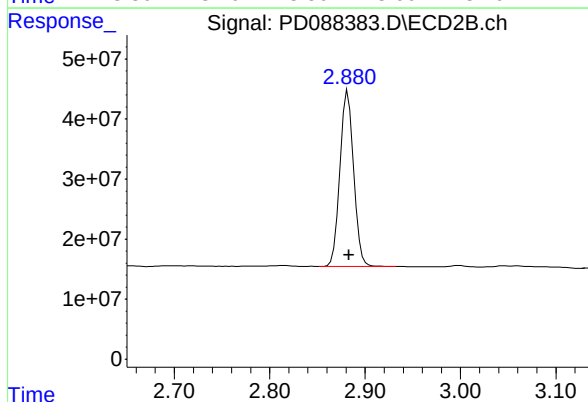




#1 Tetrachloro-m-xylene

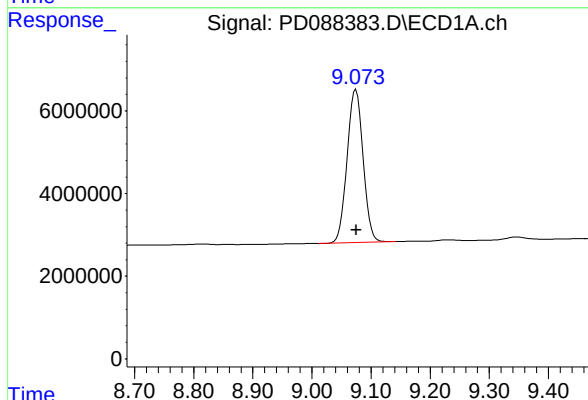
R.T.: 3.551 min
Delta R.T.: -0.001 min
Response: 40781272
Conc: 20.42 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



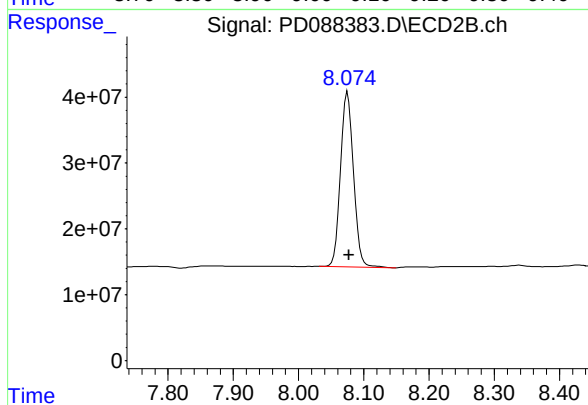
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: -0.001 min
Response: 291473943
Conc: 19.93 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: 0.000 min
Response: 69585088
Conc: 21.03 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 367034455
Conc: 19.86 ng/ml

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167820BS	SDG No.:	Q1901
Lab Sample ID:	PB167820BS	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
PD088371.D	1	05/01/25 08:56	05/01/25 13:53	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.52		0.0037	0.050	ug/L
76-44-8	Heptachlor	0.52		0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.53		0.0096	0.050	ug/L
72-20-8	Endrin	0.51		0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.46		0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.5		30 (43) - 150 (140)	102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.5		30 (77) - 150 (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_D\Data\PD050125\
 Data File : PD088371.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 May 2025 13:53
 Operator : AR\AJ
 Sample : PB167820BS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PB167820BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 02 01:31:21 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.550	2.881	39930635	300.2E6	19.991	20.532
28)	SA Decachlor...	9.075	8.075	67725971	345.4E6	20.473	18.691
Target Compounds							
2)	A alpha-BHC	4.000	3.394	225.0E6	1102.5E6	52.184	48.223
3)	MA gamma-BHC...	4.331	3.730	217.2E6	1024.5E6	51.873	47.567
4)	MA Heptachlor	4.931	4.084	210.0E6	993.9E6	51.998	46.449
5)	MB Aldrin	5.273	4.370	209.9E6	1002.9E6	53.154	48.208
6)	B beta-BHC	4.516	4.026	83660804	455.7E6	51.535	49.238
7)	B delta-BHC	4.765	4.263	225.9E6	1026.1E6	54.769	48.261
8)	B Heptachlo...	5.692	4.874	189.7E6	908.4E6	53.068	48.078
9)	A Endosulfan I	6.076	5.248	179.9E6	866.3E6	53.271	48.094
10)	B gamma-Chl...	5.948	5.127	191.7E6	978.5E6	52.935	48.211
11)	B alpha-Chl...	6.028	5.191	190.8E6	940.2E6	52.864	47.963
12)	B 4,4'-DDE	6.196	5.377	171.9E6	941.9E6	52.127	47.827
13)	MA Dieldrin	6.348	5.514	193.4E6	958.8E6	54.187	48.102
14)	MA Endrin	6.576	5.790	152.2E6	829.9E6	51.027	45.595
15)	B Endosulfa...	6.788	6.082	162.3E6	830.9E6	51.905	47.420
16)	A 4,4'-DDD	6.706	5.931	137.3E6	807.3E6	54.586	49.265
17)	MA 4,4'-DDT	7.022	6.185	137.1E6	755.9E6	49.352	44.424
18)	B Endrin al...	6.916	6.260	124.1E6	638.6E6	53.785	48.013
19)	B Endosulfa...	7.151	6.483	150.8E6	796.3E6	52.439	46.477
20)	A Methoxychlor	7.494	6.756	69710493	390.2E6	46.488	42.783
21)	B Endrin ke...	7.631	6.992	163.4E6	881.6E6	52.946	47.133
22)	Mirex	8.115	7.187	116.8E6	661.6E6	49.734	44.642

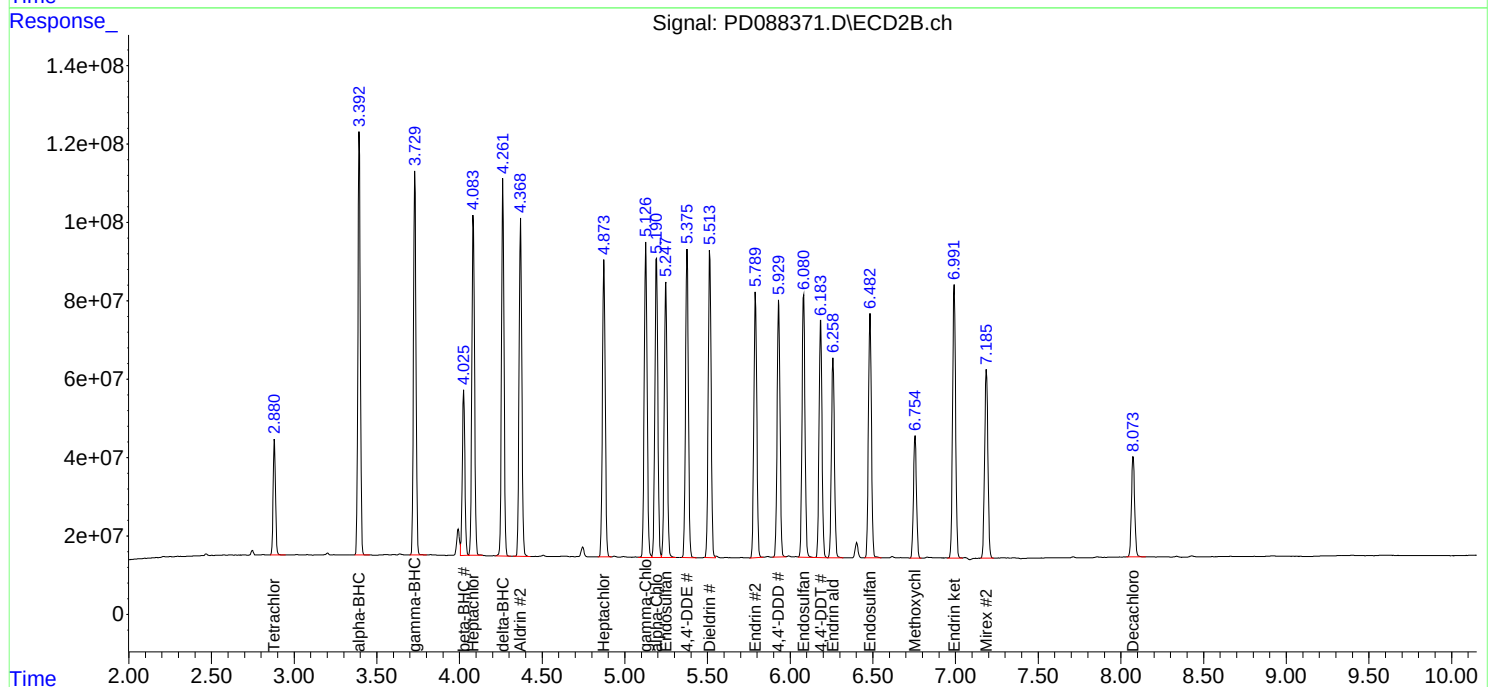
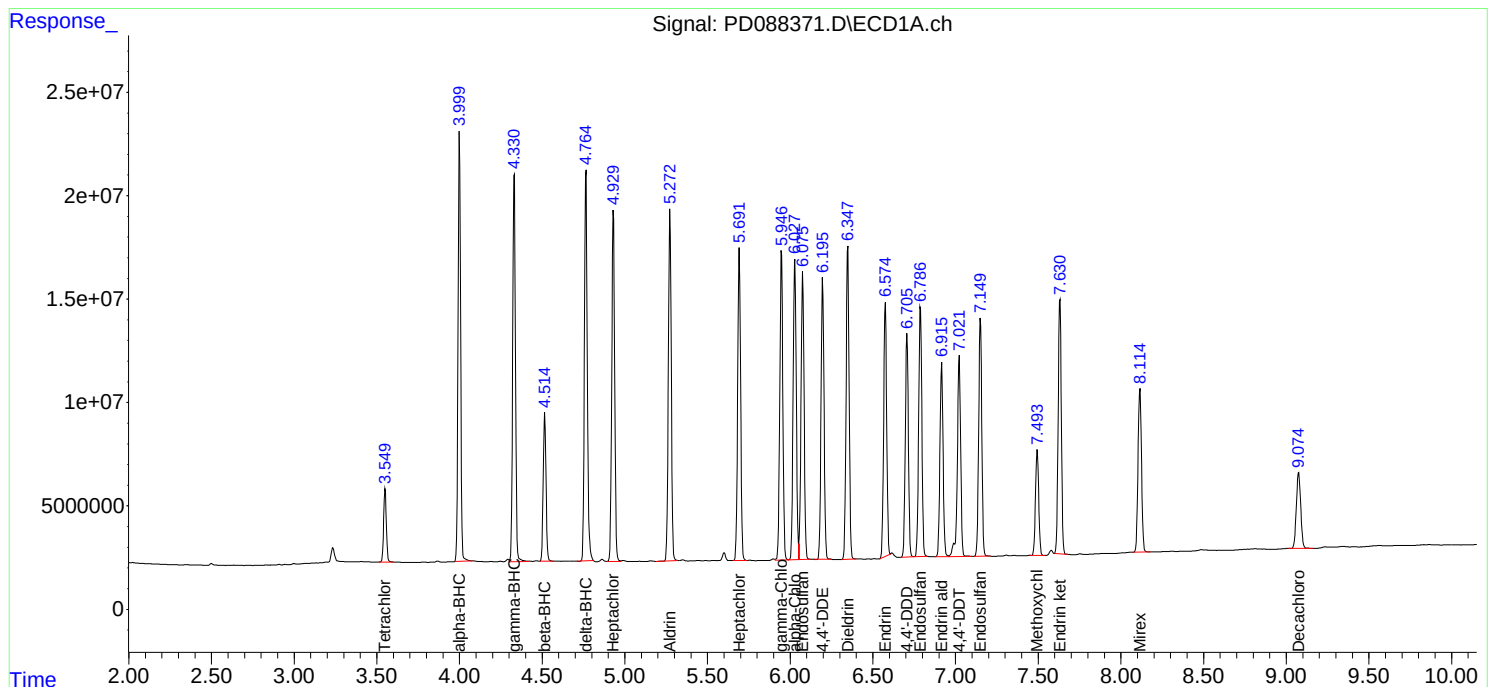
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088371.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 13:53
Operator : AR\AJ
Sample : PB167820BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB167820BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:31:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-08MS	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
PD088377.D	1	05/01/25 08:56	05/01/25 15:15	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.50		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.60		0.096	0.50	ug/L
72-20-8	Endrin	5.50		0.032	0.50	ug/L
72-43-5	Methoxychlor	5.10		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.8		30 (43) - 150 (140)	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.8		30 (77) - 150 (126)	94%	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_D\Data\PD050125\
 Data File : PD088377.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 May 2025 15:15
 Operator : AR\AJ
 Sample : Q1901-08MS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

B-167-SB01MS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 05/02/2025

Supervised By :mohammad ahmed 05/05/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 02 01:32:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.551	2.882	36861410	275.2E6	18.455	18.819
28) SA Decachlor...	9.073	8.075	68809273	350.8E6	20.800	18.982
Target Compounds						
2) A alpha-BHC	4.000	3.395	235.8E6	1126.2E6	54.674	49.263
3) MA gamma-BHC...	4.331	3.731	232.4E6	1056.7E6	55.491	49.060
4) MA Heptachlor	4.930	4.085	217.9E6	1014.4E6	53.951	47.407
5) MB Aldrin	5.271	4.370	215.8E6	1006.6E6	54.637	48.387
6) B beta-BHC	4.515	4.027	87031480	474.2E6	53.611	51.240
7) B delta-BHC	4.763	4.264	254.2E6	1062.3E6	61.633m	49.963
8) B Heptachlo...	5.691	4.875	198.5E6	930.3E6	55.538	49.239
9) A Endosulfan I	6.075	5.249	189.2E6	886.2E6	56.020	49.201
10) B gamma-Chl...	5.946	5.128	202.0E6	998.5E6	55.779	49.198
11) B alpha-Chl...	6.027	5.192	200.5E6	961.6E6	55.553	49.054
12) B 4,4'-DDE	6.196	5.377	180.1E6	963.7E6	54.597	48.935
13) MA Dieldrin	6.347	5.515	202.3E6	981.3E6	56.695	49.229
14) MA Endrin	6.575	5.791	165.3E6	881.8E6	55.424	48.443
15) B Endosulfa...	6.786	6.082	170.8E6	862.0E6	54.646	49.197
16) A 4,4'-DDD	6.705	5.931	144.9E6	830.1E6	57.621	50.658
17) MA 4,4'-DDT	7.022	6.185	146.7E6	789.4E6	52.831	46.391
18) B Endrin al...	6.915	6.260	128.7E6	653.1E6	55.767	49.098
19) B Endosulfa...	7.149	6.484	160.3E6	829.6E6	55.736	48.419
20) A Methoxychlor	7.493	6.756	75839303	419.5E6	50.575	45.993
21) B Endrin ke...	7.630	6.993	171.9E6	903.8E6	55.689	48.320
22) Mirex	8.114	7.187	123.2E6	682.4E6	52.456	46.045

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088377.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:15
Operator : AR\AJ
Sample : Q1901-08MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

B-167-SB01MS

Manual Integrations

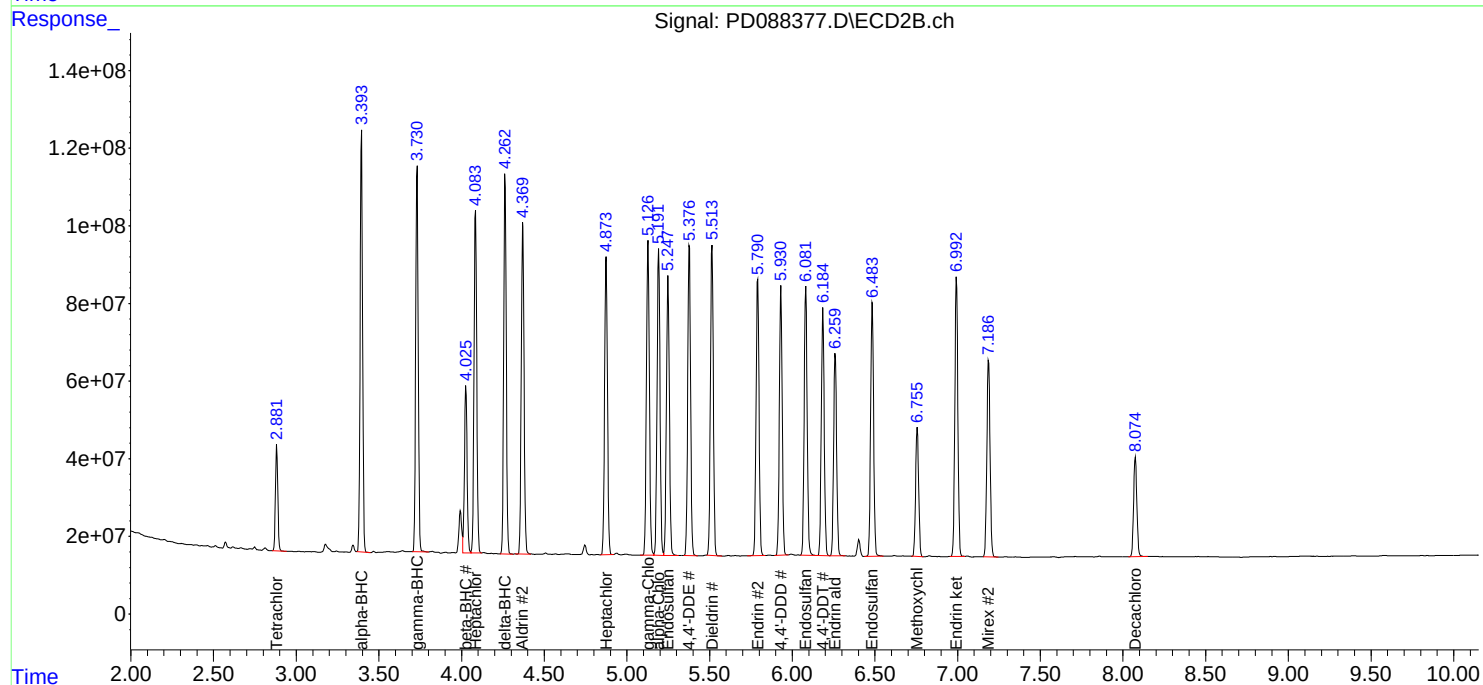
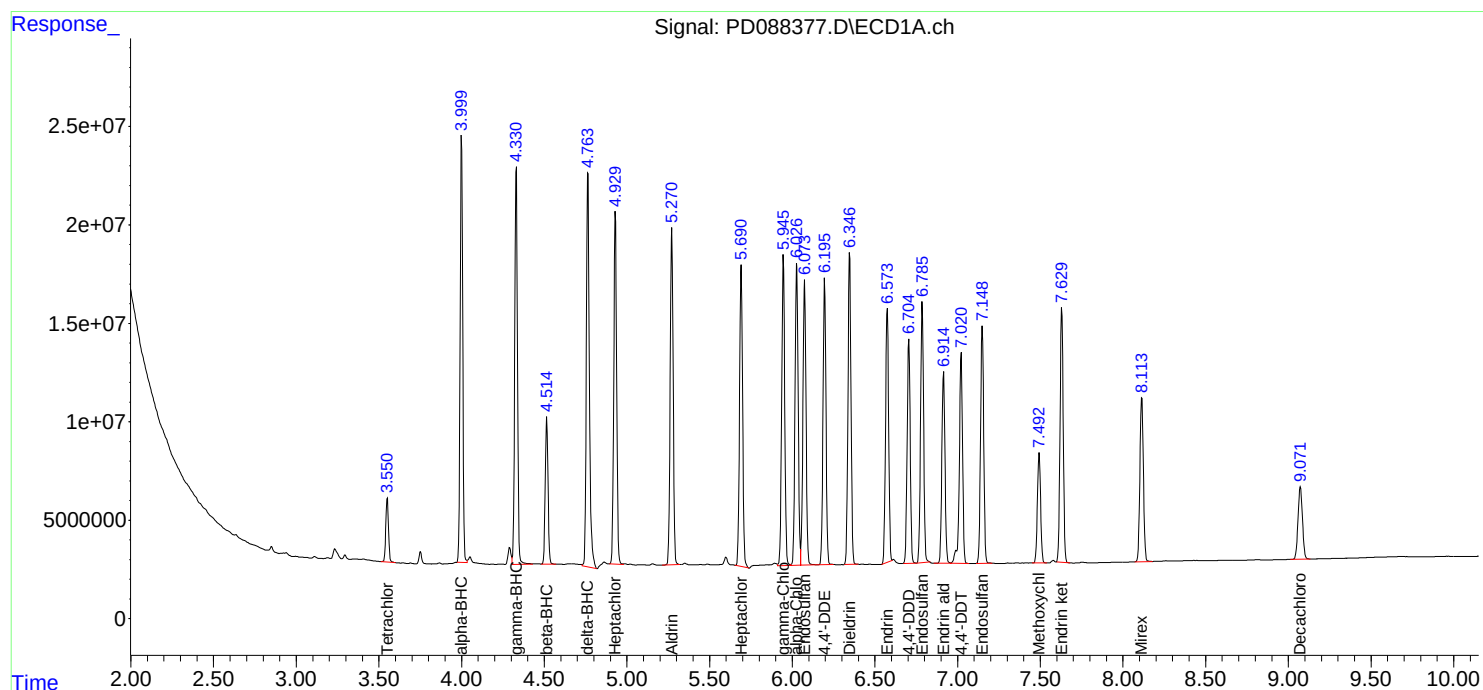
APPROVED

Reviewed By :Abdul Mirza 05/02/2025

Supervised By :mohammad ahmed 05/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-08MSD	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
PD088378.D	1	05/01/25 08:56	05/01/25 15:28	PB167820

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.50		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.50		0.096	0.50	ug/L
72-20-8	Endrin	5.50		0.032	0.50	ug/L
72-43-5	Methoxychlor	5.00		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.8		30 (43) - 150 (140)	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.9		30 (77) - 150 (126)	94%	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_D\Data\PD050125\
 Data File : PD088378.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 May 2025 15:28
 Operator : AR\AJ
 Sample : Q1901-08MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

B-167-SB01MSD

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 05/02/2025

Supervised By :mohammad ahmed 05/05/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 02 01:32:46 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
 Quant Title : GC Extractables
 QLast Update : Sat Apr 19 06:32:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 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...	3.551	2.882	36653010	276.3E6	18.350	18.894
28)	SA Decachlor...	9.074	8.075	68849811	350.7E6	20.812	18.979
Target Compounds							
2)	A alpha-BHC	4.000	3.395	235.0E6	1131.9E6	54.489	49.509
3)	MA gamma-BHC...	4.331	3.731	231.7E6	1058.7E6	55.341	49.152
4)	MA Heptachlor	4.930	4.085	217.3E6	1013.1E6	53.810	47.344
5)	MB Aldrin	5.272	4.371	215.5E6	1009.1E6	54.569	48.507
6)	B beta-BHC	4.516	4.027	86867239	472.8E6	53.510	51.089
7)	B delta-BHC	4.763	4.263	252.8E6	1061.4E6	61.292m	49.922
8)	B Heptachlo...	5.692	4.875	197.9E6	929.5E6	55.376	49.196
9)	A Endosulfan I	6.075	5.249	188.6E6	887.4E6	55.851	49.264
10)	B gamma-Chl...	5.947	5.127	201.3E6	999.2E6	55.578	49.231
11)	B alpha-Chl...	6.028	5.192	199.7E6	962.1E6	55.328	49.079
12)	B 4,4'-DDE	6.196	5.378	179.8E6	966.8E6	54.527	49.092
13)	MA Dieldrin	6.347	5.515	202.1E6	983.2E6	56.622	49.325
14)	MA Endrin	6.575	5.791	164.9E6	885.9E6	55.274	48.670
15)	B Endosulfa...	6.787	6.082	170.3E6	867.2E6	54.489	49.494
16)	A 4,4'-DDD	6.705	5.932	144.6E6	832.4E6	57.492	50.799
17)	MA 4,4'-DDT	7.022	6.186	145.9E6	790.7E6	52.524	46.469
18)	B Endrin al...	6.915	6.260	129.0E6	656.5E6	55.889	49.360
19)	B Endosulfa...	7.150	6.484	160.3E6	833.1E6	55.756	48.625
20)	A Methoxychlor	7.494	6.756	75400976	420.1E6	50.283	46.062
21)	B Endrin ke...	7.631	6.993	171.7E6	911.1E6	55.616	48.714
22)	Mirex	8.114	7.188	122.8E6	686.0E6	52.306	46.286

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD050125\
Data File : PD088378.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 May 2025 15:28
Operator : AR\AJ
Sample : Q1901-08MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

B-167-SB01MSD

Manual Integrations

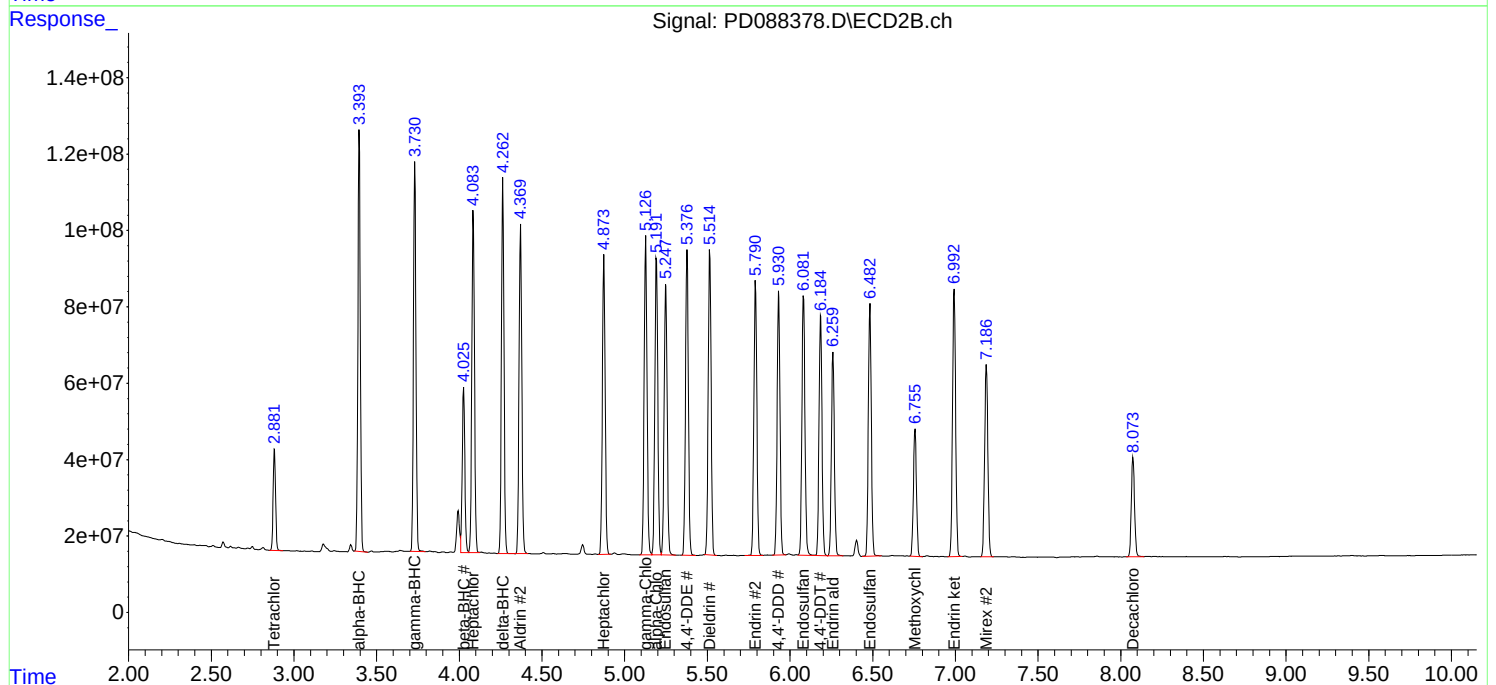
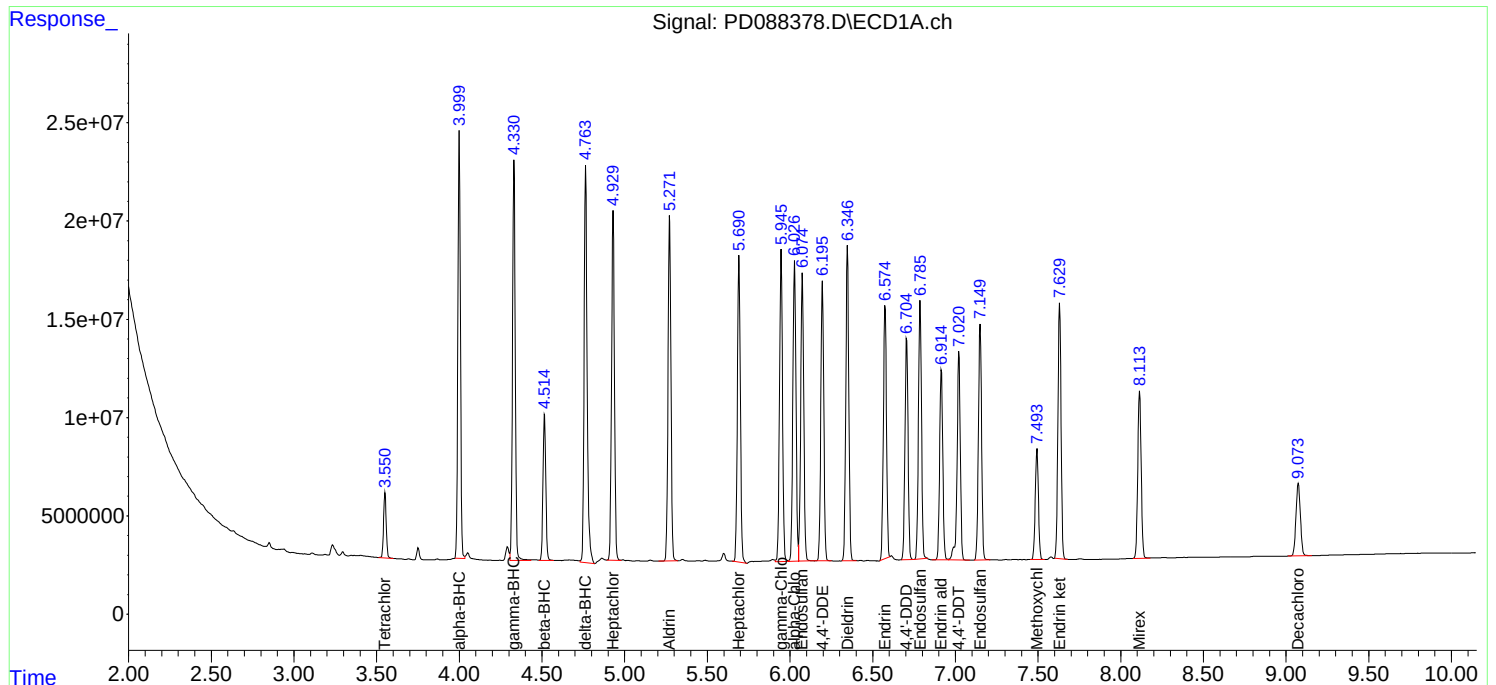
APPROVED

Reviewed By :Abdul Mirza 05/02/2025

Supervised By :mohammad ahmed 05/05/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 01:32:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Manual Integration Report

Sequence:	PD041825	Instrument	ECD_d
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088122.D	4,4"-DDD #2	Abdul	4/19/2025 2:06:43 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software
PSTDICC100	PD088124.D	Heptachlor epoxide #2	Abdul	4/19/2025 2:06:47 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software
PSTDICC005	PD088128.D	delta-BHC	Abdul	4/19/2025 2:20:23 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software
PEM	PD088143.D	4,4"-DDD	Abdul	4/19/2025 2:07:12 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software
PEM	PD088143.D	Endrin aldehyde	Abdul	4/19/2025 2:07:12 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software

Manual Integration Report

Sequence:

pd050125

Instrument

ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088365.D	4,4"-DDE	Abdul	5/2/2025 8:29:00 AM	mohammad	5/5/2025 4:37:38	Peak Integrated by Software
PEM	PD088365.D	4,4"-DDE #2	Abdul	5/2/2025 8:29:00 AM	mohammad	5/5/2025 4:37:38	Peak Integrated by Software
PEM	PD088365.D	Endrin aldehyde #2	Abdul	5/2/2025 8:29:00 AM	mohammad	5/5/2025 4:37:38	Peak Integrated by Software
Q1901-08MS	PD088377.D	delta-BHC	Abdul	5/2/2025 8:29:14 AM	mohammad	5/5/2025 4:37:48	Peak Integrated by Software
Q1901-08MSD	PD088378.D	delta-BHC	Abdul	5/2/2025 8:29:17 AM	mohammad	5/5/2025 4:37:33	Peak Integrated by Software
PSTDCCC050	PD088384.D	4,4"-DDE #2	Abdul	5/2/2025 8:29:21 AM	mohammad	5/5/2025 4:37:35	Peak Integrated by Software

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD041825

Review By	Abdul	Review On	4/19/2025 2:07:56 PM
Supervise By	mohammad	Supervise On	4/22/2025 2:20:46 AM
SubDirectory	PD041825	HP Acquire Method	HP Processing Method pd041825 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24095		
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD088120.D	18 Apr 2025 13:02	AR\AJ	Ok
2	I.BLK	PD088121.D	18 Apr 2025 13:15	AR\AJ	Ok
3	PEM	PD088122.D	18 Apr 2025 13:29	AR\AJ	Ok,M
4	RESCHK	PD088123.D	18 Apr 2025 13:43	AR\AJ	Ok
5	PSTDICC100	PD088124.D	18 Apr 2025 13:56	AR\AJ	Ok,M
6	PSTDICC075	PD088125.D	18 Apr 2025 14:10	AR\AJ	Ok
7	PSTDICC050	PD088126.D	18 Apr 2025 14:24	AR\AJ	Ok
8	PSTDICC025	PD088127.D	18 Apr 2025 14:37	AR\AJ	Ok
9	PSTDICC005	PD088128.D	18 Apr 2025 14:51	AR\AJ	Ok,M
10	PCHLORICC1000	PD088129.D	18 Apr 2025 15:05	AR\AJ	Ok
11	PCHLORICC750	PD088130.D	18 Apr 2025 15:18	AR\AJ	Ok
12	PCHLORICC500	PD088131.D	18 Apr 2025 15:32	AR\AJ	Ok
13	PCHLORICC250	PD088132.D	18 Apr 2025 15:46	AR\AJ	Ok
14	PCHLORICC050	PD088133.D	18 Apr 2025 15:59	AR\AJ	Ok,M
15	PTOXICC1000	PD088134.D	18 Apr 2025 16:13	AR\AJ	Ok,M
16	PTOXICC750	PD088135.D	18 Apr 2025 16:27	AR\AJ	Ok
17	PTOXICC500	PD088136.D	18 Apr 2025 16:40	AR\AJ	Ok
18	PTOXICC250	PD088137.D	18 Apr 2025 16:54	AR\AJ	Ok,M
19	PTOXICC100	PD088138.D	18 Apr 2025 17:08	AR\AJ	Ok,M
20	PSTDICV050	PD088139.D	18 Apr 2025 17:21	AR\AJ	Ok
21	PCHLORICV500	PD088140.D	18 Apr 2025 17:35	AR\AJ	Ok

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD041825

Review By	Abdul	Review On	4/19/2025 2:07:56 PM
Supervise By	mohammad	Supervise On	4/22/2025 2:20:46 AM
SubDirectory	PD041825	HP Acquire Method	HP Processing Method pd041825 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24095		
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PTOXICV500	PD088141.D	18 Apr 2025 17:49	AR\AJ	Ok
23	I.BLK	PD088142.D	18 Apr 2025 18:02	AR\AJ	Ok
24	PEM	PD088143.D	18 Apr 2025 18:16	AR\AJ	Ok,M
25	PSTDCCC050	PD088144.D	18 Apr 2025 18:30	AR\AJ	Not Ok

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD050125

Review By	Abdul	Review On	5/2/2025 8:29:41 AM
Supervise By	mohammad	Supervise On	5/5/2025 4:38:37 AM
SubDirectory	PD050125	HP Acquire Method	HP Processing Method pd041825 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24095		
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD088363.D	01 May 2025 09:28	AR\AJ	Ok
2	I.BLK	PD088364.D	01 May 2025 09:42	AR\AJ	Ok
3	PEM	PD088365.D	01 May 2025 09:55	AR\AJ	Ok,M
4	PSTDCCC050	PD088366.D	01 May 2025 11:21	AR\AJ	Ok
5	Q1910-01DL	PD088367.D	01 May 2025 11:42	AR\AJ	Ok,M
6	I.BLK	PD088368.D	01 May 2025 11:56	AR\AJ	Ok
7	PSTDCCC050	PD088369.D	01 May 2025 12:09	AR\AJ	Ok
8	PB167820BL	PD088370.D	01 May 2025 13:39	AR\AJ	Ok
9	PB167820BS	PD088371.D	01 May 2025 13:53	AR\AJ	Ok
10	PB167774TB	PD088372.D	01 May 2025 14:06	AR\AJ	Ok
11	PB167805TB	PD088373.D	01 May 2025 14:20	AR\AJ	Ok
12	Q1913-02	PD088374.D	01 May 2025 14:34	AR\AJ	Ok,M
13	Q1913-04	PD088375.D	01 May 2025 14:47	AR\AJ	Ok,M
14	Q1901-08	PD088376.D	01 May 2025 15:01	AR\AJ	Ok
15	Q1901-08MS	PD088377.D	01 May 2025 15:15	AR\AJ	Ok,M
16	Q1901-08MSD	PD088378.D	01 May 2025 15:28	AR\AJ	Ok,M
17	Q1901-09	PD088379.D	01 May 2025 15:42	AR\AJ	Ok
18	Q1901-10	PD088380.D	01 May 2025 15:56	AR\AJ	Ok
19	Q1901-11	PD088381.D	01 May 2025 16:10	AR\AJ	Ok
20	Q1907-02	PD088382.D	01 May 2025 16:23	AR\AJ	Ok
21	I.BLK	PD088383.D	01 May 2025 16:37	AR\AJ	Ok

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD050125

Review By	Abdul	Review On	5/2/2025 8:29:41 AM
Supervise By	mohammad	Supervise On	5/5/2025 4:38:37 AM
SubDirectory	PD050125	HP Acquire Method	HP Processing Method pd041825 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24095		
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PSTDCCC050	PD088384.D	01 May 2025 17:19	AR\AJ	Ok,M
----	------------	------------	-------------------	-------	------

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD041825

Review By	Abdul	Review On	4/19/2025 2:07:56 PM
Supervise By	mohammad	Supervise On	4/22/2025 2:20:46 AM
SubDirectory	PD041825	HP Acquire Method	HP Processing Method pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088120.D	18 Apr 2025 13:02		AR\AJ	Ok
2	I.BLK	I.BLK	PD088121.D	18 Apr 2025 13:15		AR\AJ	Ok
3	PEM	PEM	PD088122.D	18 Apr 2025 13:29		AR\AJ	Ok,M
4	RESCHK	RESCHK	PD088123.D	18 Apr 2025 13:43		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PD088124.D	18 Apr 2025 13:56		AR\AJ	Ok,M
6	PSTDICC075	PSTDICC075	PD088125.D	18 Apr 2025 14:10		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PD088126.D	18 Apr 2025 14:24		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PD088127.D	18 Apr 2025 14:37		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PD088128.D	18 Apr 2025 14:51		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PD088129.D	18 Apr 2025 15:05		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PD088130.D	18 Apr 2025 15:18		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PD088131.D	18 Apr 2025 15:32		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PD088132.D	18 Apr 2025 15:46		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PD088133.D	18 Apr 2025 15:59		AR\AJ	Ok,M
15	PTOXICC1000	PTOXICC1000	PD088134.D	18 Apr 2025 16:13		AR\AJ	Ok,M
16	PTOXICC750	PTOXICC750	PD088135.D	18 Apr 2025 16:27		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PD088136.D	18 Apr 2025 16:40		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PD088137.D	18 Apr 2025 16:54		AR\AJ	Ok,M

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD041825

Review By	Abdul	Review On	4/19/2025 2:07:56 PM
Supervise By	mohammad	Supervise On	4/22/2025 2:20:46 AM
SubDirectory	PD041825	HP Acquire Method	HP Processing Method pd041825 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24095		
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	PTOXICC100	PTOXICC100	PD088138.D	18 Apr 2025 17:08		AR\AJ	Ok,M
20	PSTDICV050	ICVPD041825	PD088139.D	18 Apr 2025 17:21		AR\AJ	Ok
21	PCHLORICV500	ICVPD041825CHLOR	PD088140.D	18 Apr 2025 17:35		AR\AJ	Ok
22	PTOXICV500	ICVPD041825TOX	PD088141.D	18 Apr 2025 17:49		AR\AJ	Ok
23	I.BLK	I.BLK	PD088142.D	18 Apr 2025 18:02		AR\AJ	Ok
24	PEM	PEM	PD088143.D	18 Apr 2025 18:16		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PD088144.D	18 Apr 2025 18:30	ccc high	AR\AJ	Not Ok

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD050125

Review By	Abdul	Review On	5/2/2025 8:29:41 AM
Supervise By	mohammad	Supervise On	5/5/2025 4:38:37 AM
SubDirectory	PD050125	HP Acquire Method	HP Processing Method pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088363.D	01 May 2025 09:28		AR\AJ	Ok
2	I.BLK	I.BLK	PD088364.D	01 May 2025 09:42		AR\AJ	Ok
3	PEM	PEM	PD088365.D	01 May 2025 09:55		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PD088366.D	01 May 2025 11:21		AR\AJ	Ok
5	Q1910-01DL	MOO-25-0123-27DL	PD088367.D	01 May 2025 11:42		AR\AJ	Ok,M
6	I.BLK	I.BLK	PD088368.D	01 May 2025 11:56		AR\AJ	Ok
7	PSTDCCC050	PSTDCCC050	PD088369.D	01 May 2025 12:09		AR\AJ	Ok
8	PB167820BL	PB167820BL	PD088370.D	01 May 2025 13:39		AR\AJ	Ok
9	PB167820BS	PB167820BS	PD088371.D	01 May 2025 13:53		AR\AJ	Ok
10	PB167774TB	PB167774TB	PD088372.D	01 May 2025 14:06		AR\AJ	Ok
11	PB167805TB	PB167805TB	PD088373.D	01 May 2025 14:20		AR\AJ	Ok
12	Q1913-02	WC-12-A-202504	PD088374.D	01 May 2025 14:34		AR\AJ	Ok,M
13	Q1913-04	WC-13-A-202504	PD088375.D	01 May 2025 14:47		AR\AJ	Ok,M
14	Q1901-08	B-167-SB01	PD088376.D	01 May 2025 15:01		AR\AJ	Ok
15	Q1901-08MS	B-167-SB01MS	PD088377.D	01 May 2025 15:15		AR\AJ	Ok,M
16	Q1901-08MSD	B-167-SB01MSD	PD088378.D	01 May 2025 15:28		AR\AJ	Ok,M
17	Q1901-09	B-170-SB01	PD088379.D	01 May 2025 15:42		AR\AJ	Ok
18	Q1901-10	B-167-SB02	PD088380.D	01 May 2025 15:56		AR\AJ	Ok

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD050125

Review By	Abdul	Review On	5/2/2025 8:29:41 AM
Supervise By	mohammad	Supervise On	5/5/2025 4:38:37 AM
SubDirectory	PD050125	HP Acquire Method	HP Processing Method pd041825 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24095		
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1901-11	B-170-SB02	PD088381.D	01 May 2025 16:10		AR\AJ	Ok
20	Q1907-02	CO-8R-WC	PD088382.D	01 May 2025 16:23		AR\AJ	Ok
21	I.BLK	I.BLK	PD088383.D	01 May 2025 16:37		AR\AJ	Ok
22	PSTDCCC050	PSTDCCC050	PD088384.D	01 May 2025 17:19		AR\AJ	Ok,M

M : Manual Integration

SOP ID :	M1311-TCLP-15	
SDG No :	N/A	Start Prep Date : 04/29/2025 Time : 17:20
Welgh By :	JP	End Prep Date : 04/30/2025 Time : 11:30
Balance ID :	WC SC-7	Combination Ratio : 20
pH Meter ID :	WC PH METER-1	ZHE Cleaning Batch : ¹⁰ N/A
Extraction By :	JP	Initial Room Temperature: 23 °C
Filter By :	JP	Final Room Temperature: 22 °C
Pippete ID :	WC	TCLP Technician Signature : <i>JP</i>
Tumbler ID :	T-1 / T-2	Supervisor By : <i>12</i>
TCLP Filter ID :	115525	

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
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. Particle size reduction is not required. q1894-01,02 and 03 we receive limited volume so no fluid determentation. Q1901-08 IS USED FOR MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/30/25 13:00	<i>JP</i> <i>Lab Room</i>	<i>SW</i> <i>RJL/EHL</i>
	Preparation Group	Analysis Group

mtm

TCLP EXTRACTION LOGPAGE

PB167774

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
PB167774TB	LEB774	21	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-2
Q1894-01	PAINTED-GROUND-PIPE--1	01	25.00	500	N/A	N/A	N/A	5.5	1.0	T-1
Q1894-02	PAINTED-GROUND-PIPE-2	02	35.00	700	N/A	N/A	N/A	5.6	1.5	T-1
Q1894-03	PAINTED-GROUND-PIPE-3	03	34.00	680	N/A	N/A	N/A	5.6	1.5	T-1
Q1901-08	B-167-SB01	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1901-09	B-170-SB01	05	100.03	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1901-10	B-167-SB02	06	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1901-11	B-170-SB02	07	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1904-02	VNJ-210	08	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1905-04	MH-G	09	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1905-08	MH-H	10	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1906-04	WC-4	11	100.02	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1906-08	WC-5	12	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1906-12	WC-6	13	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-2
Q1906-16	WC-7	14	100.03	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q1907-02	CO-8R-WC	15	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1912-04	MH-E	16	100.03	2000	N/A	N/A	N/A	4.5	1.0	T-2
Q1912-08	MH-F	17	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1913-01	WC-12-S-202504	18	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2
Q1913-03	WC-13-S-202504	19	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1915-01	WC-04282025	20	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167774TB	LEB774	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-01	PAINTED-GROUND-PIPE--1	N/A	N/A	N/A	N/A	100	N/A
Q1894-02	PAINTED-GROUND-PIPE-2	N/A	N/A	N/A	N/A	100	N/A
Q1894-03	PAINTED-GROUND-PIPE-3	N/A	N/A	N/A	N/A	100	N/A
Q1901-08	B-167-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-09	B-170-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1901-10	B-167-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1901-11	B-170-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1904-02	VNJ-210	N/A	N/A	N/A	N/A	100	N/A
Q1905-04	MH-G	N/A	N/A	N/A	N/A	100	N/A
Q1905-08	MH-H	N/A	N/A	N/A	N/A	100	N/A
Q1906-04	WC-4	N/A	N/A	N/A	N/A	100	N/A
Q1906-08	WC-5	N/A	N/A	N/A	N/A	100	N/A
Q1906-12	WC-6	N/A	N/A	N/A	N/A	100	N/A
Q1906-16	WC-7	N/A	N/A	N/A	N/A	100	N/A
Q1907-02	CO-8R-WC	N/A	N/A	N/A	N/A	100	N/A
Q1912-04	MH-E	N/A	N/A	N/A	N/A	100	N/A
Q1912-08	MH-F	N/A	N/A	N/A	N/A	100	N/A
Q1913-01	WC-12-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1913-03	WC-13-S-202504	N/A	N/A	N/A	N/A	100	N/A
Q1915-01	WC-04282025	N/A	N/A	N/A	N/A	100	N/A

Hot Block ID : WC S-1 / WC S-2

 Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167774TB	LEB774	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-01	PAINTED-GROUND-PIPE--1	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-02	PAINTED-GROUND-PIPE-2	N/A	N/A	N/A	N/A	N/A	N/A
Q1894-03	PAINTED-GROUND-PIPE-3	N/A	N/A	N/A	N/A	N/A	N/A
Q1901-08	B-167-SB01	5.02	96.5	8.4	3.0	#1	4.93
Q1901-09	B-170-SB01	5.01	96.5	9.0	4.0	#1	4.93
Q1901-10	B-167-SB02	5.02	96.5	7.0	3.5	#1	4.93
Q1901-11	B-170-SB02	5.03	96.5	8.2	3.5	#1	4.93
Q1904-02	VNJ-210	5.04	96.5	8.4	3.0	#1	4.93
Q1905-04	MH-G	5.03	96.5	5.6	1.5	#1	4.93
Q1905-08	MH-H	5.02	96.5	6.0	2.0	#1	4.93
Q1906-04	WC-4	5.03	96.5	7.6	2.5	#1	4.93
Q1906-08	WC-5	5.02	96.5	7.0	2.5	#1	4.93
Q1906-12	WC-6	5.01	96.5	6.6	2.0	#1	4.93
Q1906-16	WC-7	5.02	96.5	6.6	2.0	#1	4.93
Q1907-02	CO-8R-WC	5.02	96.5	8.4	3.0	#1	4.93
Q1912-04	MH-E	5.01	96.5	6.6	2.0	#1	4.93
Q1912-08	MH-F	5.02	96.5	6.4	2.0	#1	4.93
Q1913-01	WC-12-S-202504	5.02	96.5	8.2	3.5	#1	4.93
Q1913-03	WC-13-S-202504	5.01	96.5	8.0	3.0	#1	4.93
Q1915-01	WC-04282025	5.02	96.5	8.4	3.5	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP Q1907 WorkList ID : 189188 Department : TCLP Extraction Date : 04-29-2025 07:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1913-01	WC-12-S-202504	Solid	TCLP Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311
Q1913-03	WC-13-S-202504	Solid	TCLP Extraction	Cool 4 deg C	AECO02	L21	04/29/2025	1311
Q1915-01	WC-04282025	Solid	TCLP Extraction	Cool 4 deg C	CAMP02	L41	04/28/2025	1311
Q1901-08	B-167-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1901-09	B-170-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1901-10	B-167-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1901-11	B-170-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L51	04/26/2025	1311
Q1894-01	PAINTED-GROUND-PIPE--1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/28/2025	1311
Q1894-02	PAINTED-GROUND-PIPE-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/28/2025	1311
Q1894-03	PAINTED-GROUND-PIPE-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/28/2025	1311
Q1904-02	VNJ-210	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1905-04	MH-G	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/28/2025	1311
Q1905-08	MH-H	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/28/2025	1311
Q1906-04	WC-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1906-08	WC-5	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1906-12	WC-6	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1906-16	WC-7	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/28/2025	1311
Q1912-04	MH-E	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/29/2025	1311
Q1912-08	MH-F	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L51	04/29/2025	1311
Q1907-02	CO-8R-WC	Solid	TCLP Extraction	Cool 4 deg C	WALS01		04/28/2025	1311

Date/Time 04/29/25 17:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 04/29/25 19:30
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Prep Standard - Chemical Standard Summary

Order ID : Q1901

Test : TCLP Pesticide

Prepbatch ID : PB167820,

Sequence ID/Qc Batch ID: pd050125,

Standard ID :

EP2607,PP24095,PP24255,PP24256,PP24257,PP24258,PP24259,PP24260,PP24261,PP24262,PP24266,PP24267,P
P24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,P
P24281,PP24282,PP24283,PP24284,PP24285,PP24329,PP24433,PP24460,

Chemical ID :

E3551,E3806,E3847,E3876,E3877,E3914,E3917,E3926,E3928,P12603,P12611,P13037,P13040,P13195,P13245,P133
55,P13356,P13405,P13785,P13861,P9052,W3177,

Extractions 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>
3923	Baked Sodium Sulfate	EP2607	04/25/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 04/25/2025

FROM 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	PP24095	12/23/2024	06/16/2025	Abdul Mirza	None	None	Ankita Jodhani 12/30/2024

FROM 1.00000ml of P13245 + 99.00000ml of E3847 = 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	PP24255	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 1.00000ml of P13785 + 9.00000ml of E3877 = 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)	PP24256	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 1.00000ml of P13040 + 9.00000ml of E3877 = 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	PP24257	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 1.00000ml of P13037 + 9.00000ml of E3877 = 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)	PP24258	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.20000ml of P9052 + 9.80000ml of E3877 = 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)	PP24259	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.20000ml of P13195 + 9.80000ml of E3877 = 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)	PP24260	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 98.50000ml of E3877 + 0.50000ml of PP24255 + 0.50000ml of PP24256 + 0.50000ml of PP24258 = 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>
80	100/100 PPB Pesticide Working Solution 2nd Source	PP24261	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 98.50000ml of E3877 + 0.50000ml of PP24255 + 0.50000ml of PP24257 + 0.50000ml of PP24259 = 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>
386	1000/100 PPB Chlordane STD (Restek)	PP24262	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.10000ml of P12603 + 99.40000ml of E3877 + 0.50000ml of PP24255 = 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	PP24266	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.10000ml of P12611 + 99.40000ml of E3877 + 0.50000ml of PP24255 = 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)	PP24267	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.10000ml of P13405 + 99.40000ml of E3877 + 0.50000ml of PP24255 = 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)	PP24268	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.10000ml of P13861 + 99.40000ml of E3877 + 0.50000ml of PP24255 = 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>
3631	75 PPB ICAL PEST STD(RESTEK)	PP24269	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.75000ml of E3877 + 0.25000ml of PP24260 = 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>
3632	50 PPB ICAL PEST STD(RESTEK)	PP24270	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24260 = 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>
3633	25 PPB ICAL PEST STD(RESTEK)	PP24271	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.75000ml of E3877 + 0.25000ml of PP24260 = 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>
3634	5 PPB ICAL PEST STD(RESTEK)	PP24272	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.90000ml of E3877 + 0.10000ml of PP24270 = 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>
3988	50 PPB PEST ICV STD(RESTEK)	PP24273	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24261 = 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>
528	CHLOR 750 PPB STD	PP24274	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.25000ml of E3877 + 0.75000ml of PP24262 = 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	PP24275	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24262 = 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>
530	CHLOR 250 PPB STD	PP24277	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.75000ml of E3877 + 0.25000ml of PP24262 = 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>
3408	CHLOR 50 PPB STD	PP24278	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.90000ml of E3877 + 0.10000ml of PP24275 = 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	PP24279	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24266 = 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>
533	TOX 750 PPB STD	PP24280	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.25000ml of E3877 + 0.75000ml of PP24267 = 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>
534	TOX 500 PPB STD	PP24281	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24267 = 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>
535	TOX 250 PPB STD	PP24282	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.75000ml of E3877 + 0.25000ml of PP24267 = 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>
2217	TOX 100 PPB STD	PP24283	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.90000ml of E3877 + 0.10000ml of PP24267 = 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>
3670	TOX 500 PPB ICV std (RESTEK)	PP24284	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24268 = 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>
79	500 PPB Pesticide Spike Solution	PP24285	03/12/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani
								03/12/2025

FROM 95.00000ml of E3876 + 2.50000ml of PP24257 + 2.50000ml of PP24259 = 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>
84	Pest/PCB Surrogate Stock 20 PPM	PP24329	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza
								04/03/2025

FROM 1.00000ml of P13356 + 9.00000ml of W3177 = 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	PP24433	03/31/2025	08/22/2025	Abdul Mirza	None	None	Yogesh Patel
								04/02/2025

FROM 99.90000ml of E3914 + 0.10000ml of PP24329 = 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	PP24460	04/11/2025	10/03/2025	Abdul Mirza	None	None	Yogesh Patel
								04/16/2025

FROM 1.00000ml of P13355 + 999.00000ml of E3917 = 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	07/01/2025	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 #
Agela Technologies Inc.	FS0006 / Cleanert Florisil cartridge	M06518	09/25/2025	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-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	06/16/2025	12/16/2024 / Rajesh	12/13/2024 / Rajesh	E3847

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)	24H2762008	08/25/2025	02/25/2025 / Rajesh	02/12/2025 / Rajesh	E3876

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)	243570	08/12/2025	02/12/2025 / Rajesh	02/12/2025 / Rajesh	E3877

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)	243570	09/19/2025	03/19/2025 / RUPESH	03/13/2025 / RUPESH	E3914

CHEMICAL RECEIPT LOG BOOK

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)	24H2762008	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917

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)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

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)	25C0362005	10/22/2025	04/18/2025 / RUPESH	04/16/2025 / RUPESH	E3928

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0197993	09/11/2025	03/10/2025 / Abdul	07/03/2023 / Abdul	P12603

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0193299	09/09/2025	03/10/2025 / Abdul	07/03/2023 / Abdul	P12611

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	09/10/2025	03/10/2025 / Abdul	12/26/2023 / Abdul	P13037

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	09/10/2025	03/10/2025 / Abdul	12/26/2023 / Abdul	P13040

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	042022	09/10/2025	03/10/2025 / Abdul	01/17/2024 / Abdul	P13195

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	06/23/2025	12/23/2024 / Abdul	02/09/2024 / Abdul	P13245

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	10/11/2025	04/11/2025 / Abdul	04/22/2024 / Abdul	P13355

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	09/18/2025	03/18/2025 / yogesh	04/22/2024 / Abdul	P13356

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203038	09/09/2025	03/10/2025 / Abdul	05/15/2024 / Abdul	P13405

CHEMICAL RECEIPT LOG BOOK

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	A0214495	09/10/2025	03/10/2025 / Abdul	11/19/2024 / Ankita	P13785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0210240	09/10/2025	03/10/2025 / Abdul	12/09/2024 / Abdul	P13861

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	112018	09/10/2025	03/10/2025 / Abdul	11/01/2019 / Stephen	P9052

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	08/22/2025	02/03/2025 / jignesh	01/31/2025 / jignesh	W3177



**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

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



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

Recd. by RP on 12/13/24

E3847



Jamie Croak
Director Quality Operations, Bioscience Production

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	H303	Quality Test / Release Date	11/07/2024
Lot Number	243570		
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	Nov/2029
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 60	69
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.9	>99.9
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.669
EVAPORATION RESIDUE	ppm	<= 1	<1
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	0.74
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.25	0.17
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.07	0.05
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.001
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<10
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.375 - 1.385	1.379
SUITABILITY FOR GC/MS		= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

Recd. by RP on 2/12/25

Harout Sahagian **E3877**

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.

If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	H303	Quality Test / Release Date	11/07/2024
Lot Number	243570		
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	Nov/2029
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 60	69
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.9	>99.9
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.669
EVAPORATION RESIDUE	ppm	<= 1	<1
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	0.74
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.25	0.17
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.07	0.05
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.001
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<10
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.375 - 1.385	1.379
SUITABILITY FOR GC/MS		= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

Recd by RS on 3/14/25



E3914

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
 If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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

Recd by RP on 03/31/25

E3917

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

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

avantor



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
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 HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid (μ 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 3926

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

 **avantor**[™]



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

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 HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3928



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 U.S.

RESTEK

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. : 32021 **Lot No.:** A0193299
Description : Chlordane Standard
Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2029 **Storage:** 10°C or colder
Ship: Ambient

P12616
↓
P12615
Five
7/3/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Chlordane 10% trans-Chlordane; 9% cis-Chlordane; 81% other isomers	57-74-9	978545	—%	1,010.0 µg/mL	+/- 56.0475

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

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

Tech Tips:

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

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:

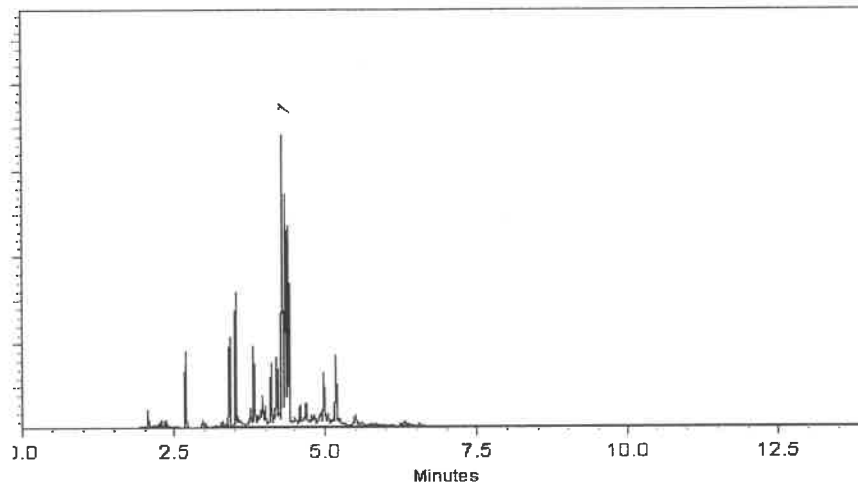
ECD

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.

Bryan Snyder
Bryan Snyder - Operations Tech I

Date Mixed: 06-Jan-2023

Balance Serial # B442140311

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jan-2023

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

CRm
P12611
↓
P12615
⑤
CRout
7/3/2023



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 .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.)

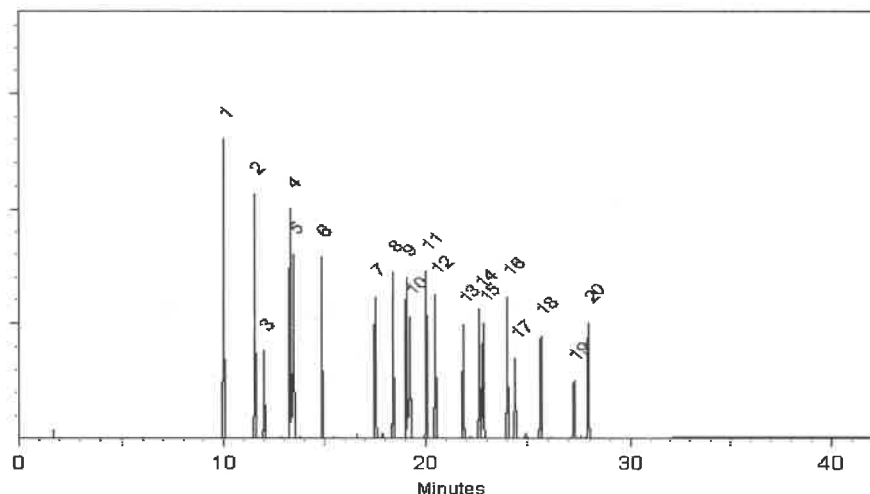
Inj. Temp:
 200°C

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.

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: 79136
Lot Number: 042022
Description: Mirex

Solvent(s): Acetone
Lot# 81025

Expiration Date: 04/2027
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

SE-05 Balance Uncertainty
0.006 Flask Uncertainty

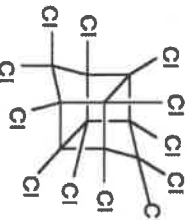
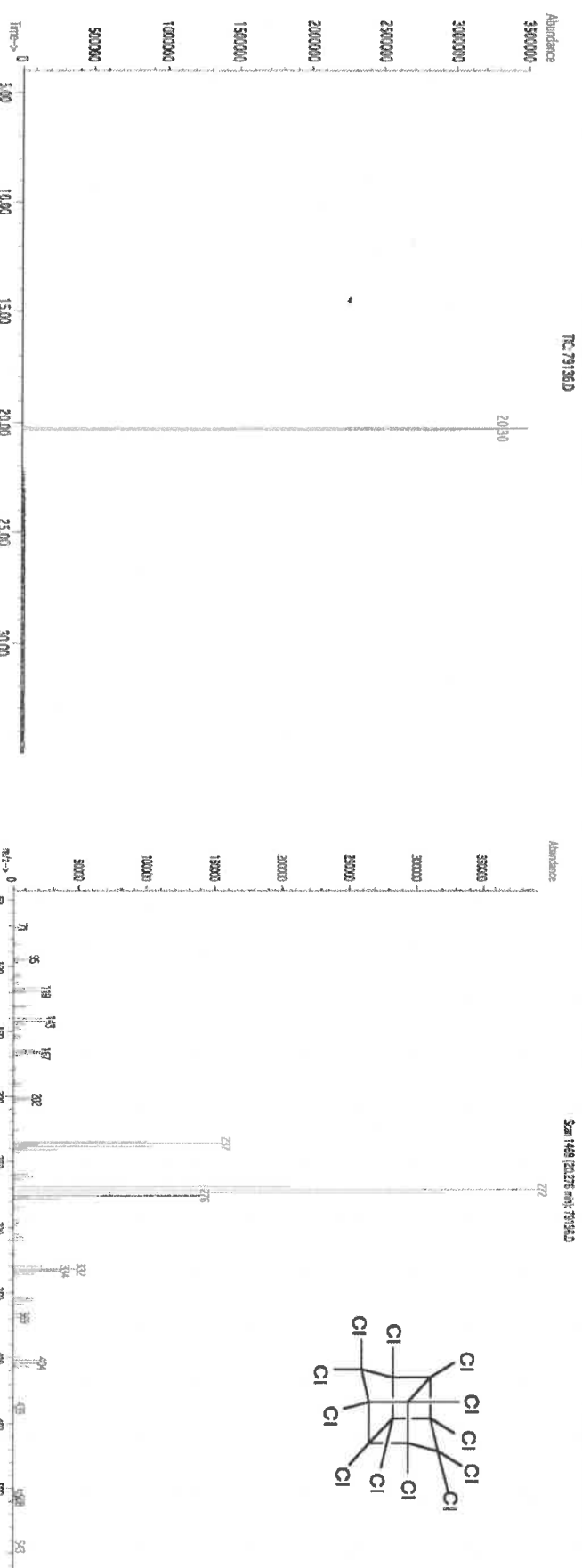
Weight(s) shown below were combined and diluted to (mL): 50.0

Formulated By: <i>Prashant Chauhan</i>	DATE 04/2022
Reviewed By: <i>Pedro L. Renteria</i>	DATE 04/2022

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

1. Mirex 437 9492400 1000 99.4 0.5 0.05034 0.05040 1001.1 10.3 2385-85-5 N/A or-rel:306mg/kg

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.



Handwritten notes:
P13195
P13199
5
01/17/2024

- 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, sample, 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).

01/17/2024
JALIN

5



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. : 32021 **Lot No.:** A0197993
Description : Chlordane Standard
Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Ship: Ambient

P 12603
↓
P 12605
[3]
Kauf
7/3/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Chlordane 10% trans-Chlordane; 9% cis-Chlordane; 81% other isomers	57-74-9	978545	----%	1,005.0 µg/mL	+/- 55.7700

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

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

Tech Tips:

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

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:

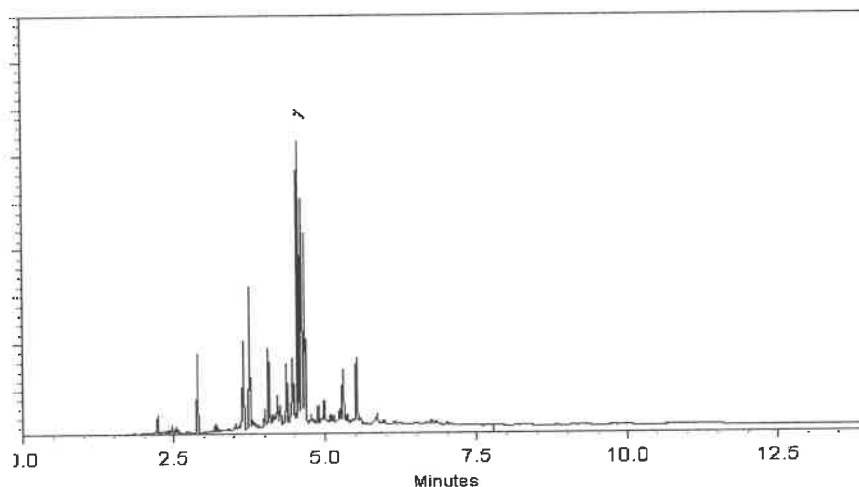
ECD

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.


Morgan Craighead - Mix Technician

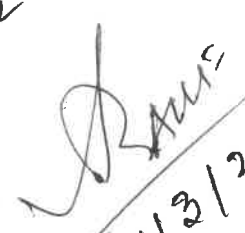
Date Mixed: 11-May-2023

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-May-2023

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

P 12603 } (3)
↓
P 12605

7/3/2023



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.:** 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.)

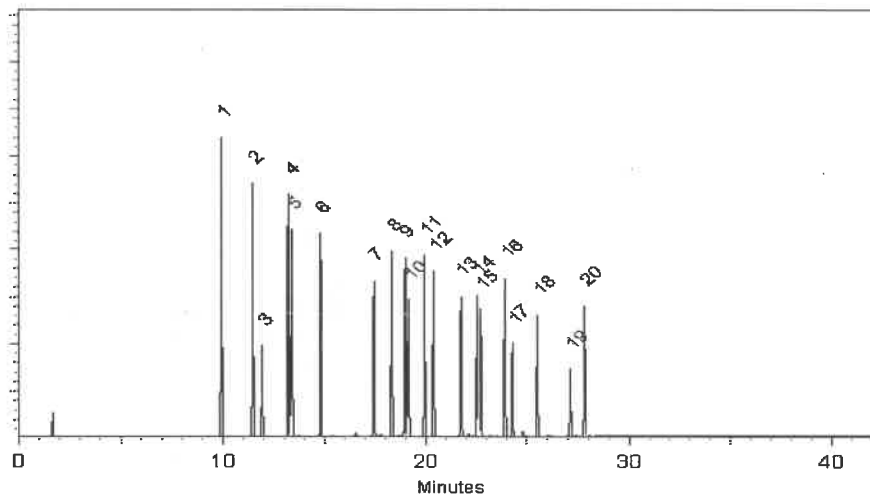
Inj. Temp:
200°C

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)

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

NIST Test ID#:

6UTB

5E-05
Balance Uncertainty
Pipet Uncertainty

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

100.0

0.021

Balance Uncertainty
Pipet Uncertainty

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

Compound

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty (mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty (±) µg/mL	CAS#	OSHA PEL (TWA)	LD50
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 36300µg/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

P13243
P13244
P13245
P13246
P13247
P13248
P13249
P13250
P13251
P13252
P13253
P13254
P13255
P13256
P13257
P13258
P13259
P13260
P13261
P13262
P13263
P13264
P13265
P13266
P13267
P13268
P13269
P13270
P13271
P13272
P13273
P13274
P13275
P13276
P13277
P13278
P13279
P13280
P13281
P13282
P13283
P13284
P13285
P13286
P13287
P13288
P13289
P13290
P13291
P13292
P13293
P13294
P13295
P13296
P13297
P13298
P13299
P13300
P13301
P13302
P13303
P13304
P13305
P13306
P13307
P13308
P13309
P13310
P13311
P13312
P13313
P13314
P13315
P13316
P13317
P13318
P13319
P13320
P13321
P13322
P13323
P13324
P13325
P13326
P13327
P13328
P13329
P13330
P13331
P13332
P13333
P13334
P13335
P13336
P13337
P13338
P13339
P13340
P13341
P13342
P13343
P13344
P13345
P13346
P13347
P13348
P13349
P13350
P13351
P13352
P13353
P13354
P13355
P13356
P13357
P13358
P13359
P13360
P13361
P13362
P13363
P13364
P13365
P13366
P13367
P13368
P13369
P13370
P13371
P13372
P13373
P13374
P13375
P13376
P13377
P13378
P13379
P13380
P13381
P13382
P13383
P13384
P13385
P13386
P13387
P13388
P13389
P13390
P13391
P13392
P13393
P13394
P13395
P13396
P13397
P13398
P13399
P13400
P13401
P13402
P13403
P13404
P13405
P13406
P13407
P13408
P13409
P13410
P13411
P13412
P13413
P13414
P13415
P13416
P13417
P13418
P13419
P13420
P13421
P13422
P13423
P13424
P13425
P13426
P13427
P13428
P13429
P13430
P13431
P13432
P13433
P13434
P13435
P13436
P13437
P13438
P13439
P13440
P13441
P13442
P13443
P13444
P13445
P13446
P13447
P13448
P13449
P13450
P13451
P13452
P13453
P13454
P13455
P13456
P13457
P13458
P13459
P13460
P13461
P13462
P13463
P13464
P13465
P13466
P13467
P13468
P13469
P13470
P13471
P13472
P13473
P13474
P13475
P13476
P13477
P13478
P13479
P13480
P13481
P13482
P13483
P13484
P13485
P13486
P13487
P13488
P13489
P13490
P13491
P13492
P13493
P13494
P13495
P13496
P13497
P13498
P13499
P13500
P13501
P13502
P13503
P13504
P13505
P13506
P13507
P13508
P13509
P13510
P13511
P13512
P13513
P13514
P13515
P13516
P13517
P13518
P13519
P13520
P13521
P13522
P13523
P13524
P13525
P13526
P13527
P13528
P13529
P13530
P13531
P13532
P13533
P13534
P13535
P13536
P13537
P13538
P13539
P13540
P13541
P13542
P13543
P13544
P13545
P13546
P13547
P13548
P13549
P13550
P13551
P13552
P13553
P13554
P13555
P13556
P13557
P13558
P13559
P13560
P13561
P13562
P13563
P13564
P13565
P13566
P13567
P13568
P13569
P13570
P13571
P13572
P13573
P13574
P13575
P13576
P13577
P13578
P13579
P13580
P13581
P13582
P13583
P13584
P13585
P13586
P13587
P13588
P13589
P13590
P13591
P13592
P13593
P13594
P13595
P13596
P13597
P13598
P13599
P13600
P13601
P13602
P13603
P13604
P13605
P13606
P13607
P13608
P13609
P13610
P13611
P13612
P13613
P13614
P13615
P13616
P13617
P13618
P13619
P13620
P13621
P13622
P13623
P13624
P13625
P13626
P13627
P13628
P13629
P13630
P13631
P13632
P13633
P13634
P13635
P13636
P13637
P13638
P13639
P13640
P13641
P13642
P13643
P13644
P13645
P13646
P13647
P13648
P13649
P13650
P13651
P13652
P13653
P13654
P13655
P13656
P13657
P13658
P13659
P13660
P13661
P13662
P13663
P13664
P13665
P13666
P13667
P13668
P13669
P13670
P13671
P13672
P13673
P13674
P13675
P13676
P13677
P13678
P13679
P13680
P13681
P13682
P13683
P13684
P13685
P13686
P13687
P13688
P13689
P13690
P13691
P13692
P13693
P13694
P13695
P13696
P13697
P13698
P13699
P13700
P13701
P13702
P13703
P13704
P13705
P13706
P13707
P13708
P13709
P13710
P13711
P13712
P13713
P13714
P13715
P13716
P13717
P13718
P13719
P13720
P13721
P13722
P13723
P13724
P13725
P13726
P13727
P13728
P13729
P13730
P13731
P13732
P13733
P13734
P13735
P13736
P13737
P13738
P13739
P13740
P13741
P13742
P13743
P13744
P13745
P13746
P13747
P13748
P13749
P13750
P13751
P13752
P13753
P13754
P13755
P13756
P13757
P13758
P13759
P13760
P13761
P13762
P13763
P13764
P13765
P13766
P13767
P13768
P13769
P13770
P13771
P13772
P13773
P13774
P13775
P13776
P13777
P13778
P13779
P13780
P13781
P13782
P13783
P13784
P13785
P13786
P13787
P13788
P13789
P13790
P13791
P13792
P13793
P13794
P13795
P13796
P13797
P13798
P13799
P13800
P13801
P13802
P13803
P13804
P13805
P13806
P13807
P13808
P13809
P13810
P13811
P13812
P13813
P13814
P13815
P13816
P13817
P13818
P13819
P13820
P13821
P13822
P13823
P13824
P13825
P13826
P13827
P13828
P13829
P13830
P13831
P13832
P13833
P13834
P13835
P13836
P13837
P13838
P13839
P13840
P13841
P13842
P13843
P13844
P13845
P13846
P13847
P13848
P13849
P13850
P13851
P13852
P13853
P13854
P13855
P13856
P13857
P13858
P13859
P13860
P13861
P13862
P13863
P13864
P13865
P13866
P13867
P13868
P13869
P13870
P13871
P13872
P13873
P13874
P13875
P13876
P13877
P13878
P13879
P13880
P13881
P13882
P13883
P13884
P13885
P13886
P13887
P13888
P13889
P13890
P13891
P13892
P13893
P13894
P13895
P13896
P13897
P13898
P13899
P13900
P13901
P13902
P13903
P13904
P13905
P13906
P13907
P13908
P13909
P13910
P13911
P13912
P13913
P13914
P13915
P13916
P13917
P13918
P13919
P13920
P13921
P13922
P13923
P13924
P13925
P13926
P13927
P13928
P13929
P13930
P13931
P13932
P13933
P13934
P13935
P13936
P13937
P13938
P13939
P13940
P13941
P13942
P13943
P13944
P13945
P13946
P13947
P13948
P13949
P13950
P13951
P13952
P13953
P13954
P13955
P13956
P13957
P13958
P13959
P13960
P13961
P13962
P13963
P13964
P13965
P13966
P13967
P13968
P13969
P13970
P13971
P13972
P13973
P13974
P13975
P13976
P13977
P13978
P13979
P13980
P13981
P13982
P13983
P13984
P13985
P13986
P13987
P13988
P13989
P13990
P13991
P13992
P13993
P13994
P13995
P13996
P13997
P13998
P13999
P14000
P14001
P14002
P14003
P14004
P14005
P14006
P14007
P14008
P14009
P14010
P14011
P14012
P14013
P14014
P14015
P14016
P14017
P14018
P14019
P14020
P14021
P14022
P14023
P14024
P14025
P14026
P14027
P14028
P14029
P14030
P14031
P14032
P14033
P14034
P14035
P14036
P14037
P14038
P14039
P14040
P14041
P14042
P14043
P14044
P14045
P14046
P14047
P14048
P14049
P14050
P14051
P14052
P14053
P14054
P14055
P14056
P14057
P14058
P14059
P14060</



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. : 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
↓
P13357
10
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:

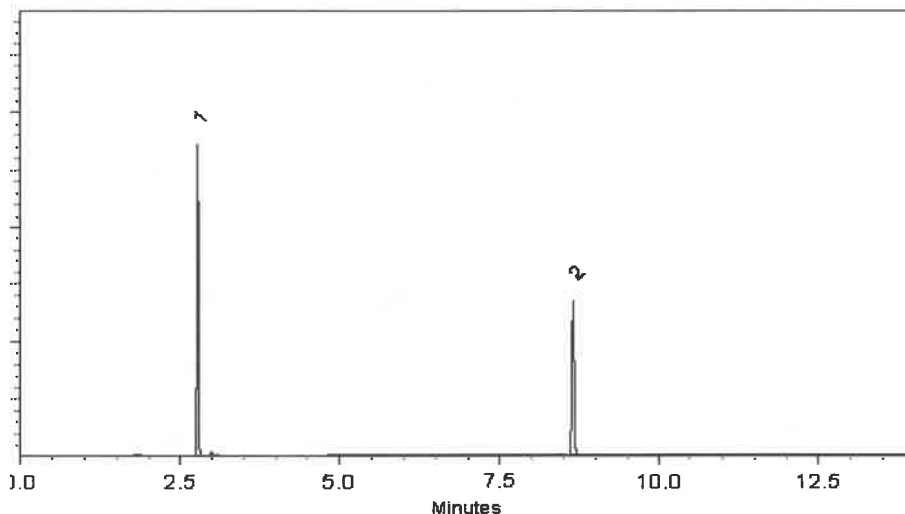
ECD

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
Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
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
↓
P 13357
10
SAUF
04/25/2025



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. : 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
↓
P13357
10
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:

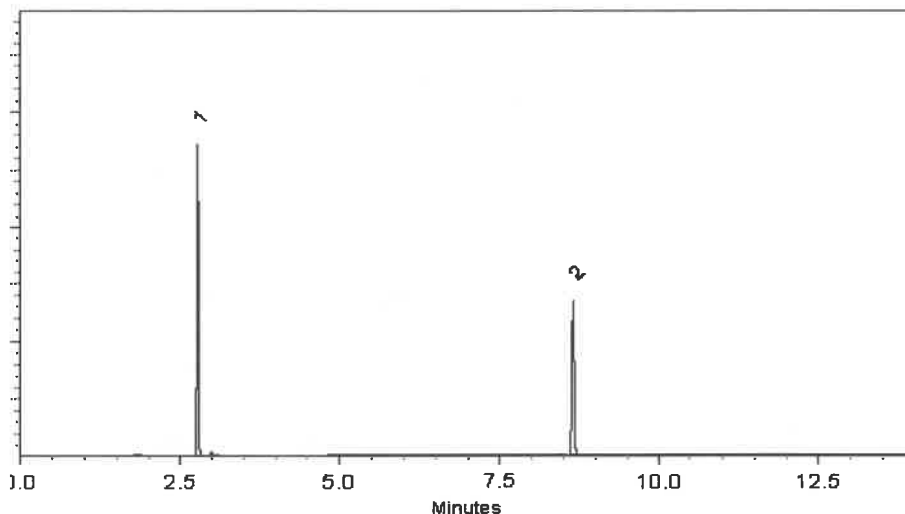
ECD

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
Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
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
↓
P 13357
10
SAUF
04/25/2025



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. : 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:

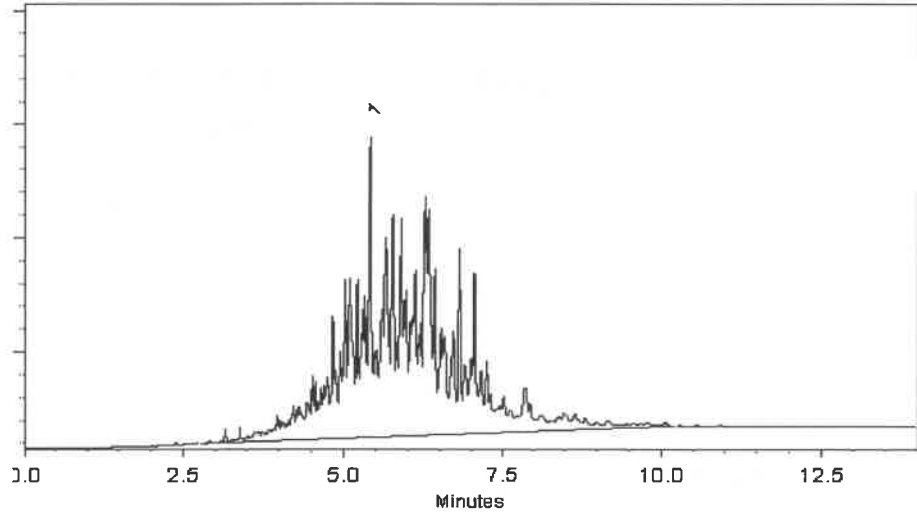
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl

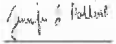


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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



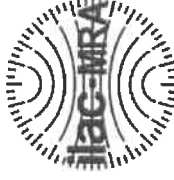
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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. : 32000 **Lot No.:** A0214495

Description : Pesticide Surrogate Mix

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

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

Expiration Date : October 31, 2030 **Storage:** 10°C or colder

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

P19785
AJ
11/19/24
P19789

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%	200.2 µg/mL	+/- 11.1087
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30679	99%	201.4 µg/mL	+/- 11.1753

* 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.)

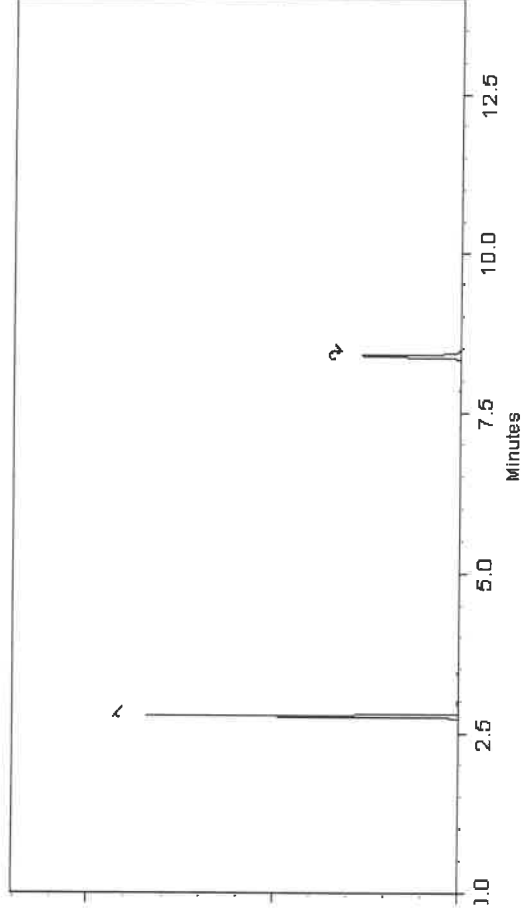
Inj. Temp:
250°C

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.

A. O. P.
Aaron Enyart - Operations Tech I

Date Mixed: 29-Jul-2024 **Balance Serial #** B345965662

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Aug-2024

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



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. : 32005 **Lot No.:** A0210240

Description : Toxaphene Standard

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

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

Expiration Date : July 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	----%	1,009.3 µg/mL	+/- 56.0105

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

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

P13861
P13862

12/9/2024

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:

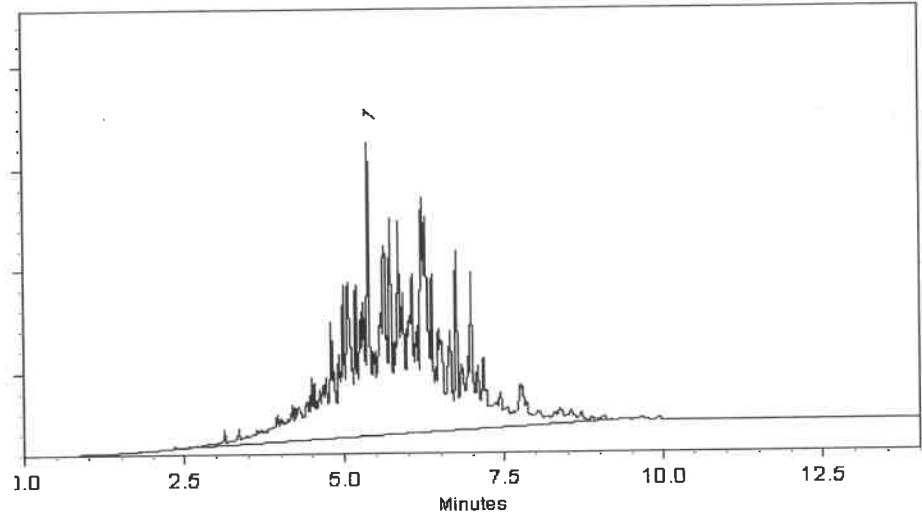
ECD

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.


Amanda Miller - Operations Tech III - ARM QC

Date Mixed: 11-Apr-2024

Balance Serial # B442140311

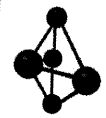

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 26-Apr-2024

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

P13861 } ②
P13862 }


12/9/2024



CERTIFIED WEIGHT REPORT

Part Number: **72072**
Lot Number: **112018**
Description: **n-Tetracosane-d50**

Expiration Date: **112028**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **2684186**

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

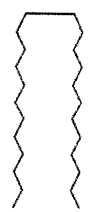
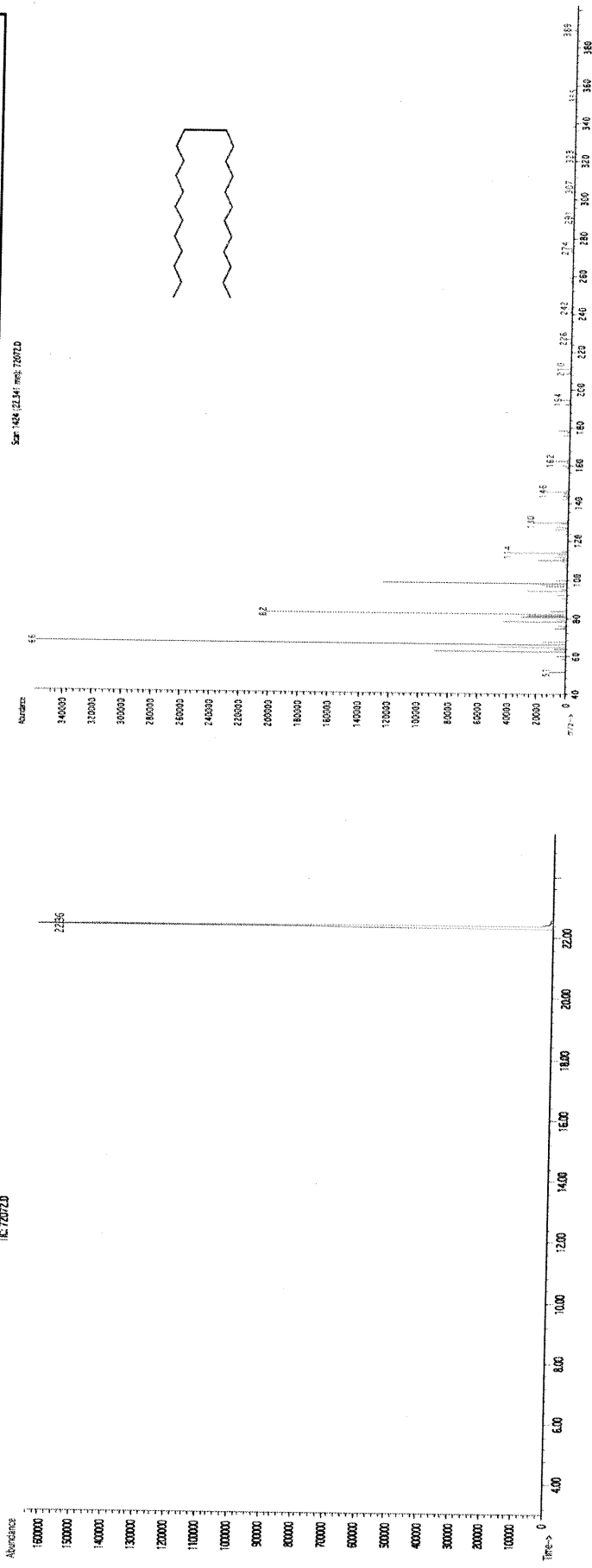
Solvent(s): **Methylene chloride**
Lot# **102669**

Received by
SG on 11/11/19
p9044-p9053
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

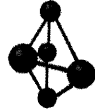
<i>Prashant Chauhan</i>	
Formulated By:	Prashant Chauhan
DATE	112018
<i>Pedro Rentas</i>	
Reviewed By:	Pedro Rentas
DATE	112018

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)
1. n-Tetracosane-d50	2072	PR-17753/09216TC1	1000	98	0.2	0.20411	0.20415	1000.2	4.2	18416-32-3 N/A
Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.										

TC 720720



• 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).
• 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).



Run 40, "P72072 L112018 [1000µg/mL in MeCl2]"

Run Length: 35.00 min, 20999 points at 10 points/second.

Created: Thu, Nov 22, 2018 at 7:23:18 AM.

Sampled: Sequence "112018-GC4M1", Method "GC4-M1".

Analyzed using Method "GC4-M1".

Comments

GC4-M1 Analysis by Melissa Stonier

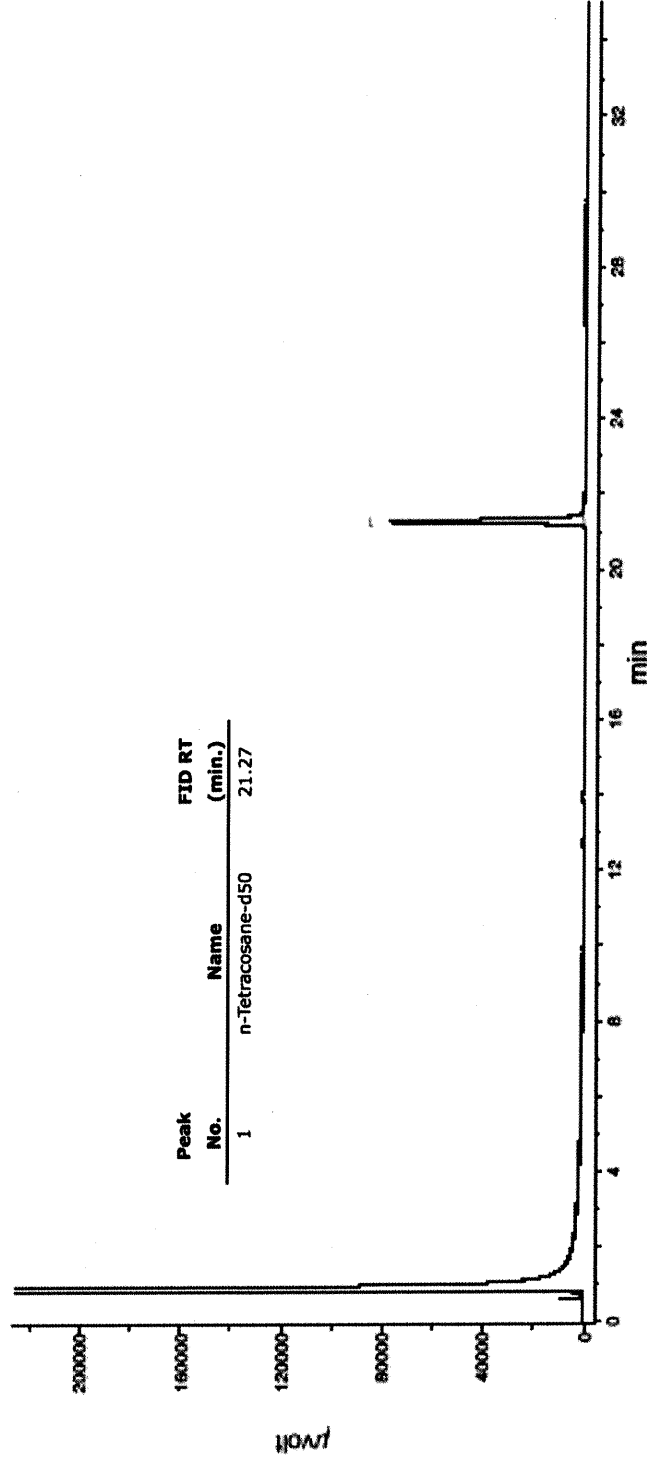
Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5µm Film Thickness

Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL, Hydrogen (detector) = 30 mL, Air (detector) = 360 mL

Oven Temp 1 = 50°C (1 min), Rate = 10°C/min, Oven Temp 2 = 300°C (9 min), Total Run Time = 35 Minutes.

Injector Temp = 200°C, FID Temp = 300°C, FID Signal = eDAQ Channel 1.

Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 3



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

Jamie Croak
Director Quality Operations, Bioscience Production



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Summa Health
ADDRESS: 1010 Adams Ave
CITY: Aurora STATE: PA ZIP: 18403
ATTENTION: Joe Krusky
PHONE: 610-310-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak replacement of SB
PROJECT NO.: 95000878 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krusky
e-mail: Joe.Krusky@Bemsys.com
PHONE: 610-310-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#: 07092
ADDRESS: 284 Sheffield
CITY: Mountainside STATE: NJ ZIP: 07092
ATTENTION: Summa Health PHONE: 188-728-348

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 10 DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

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 Bem EDD

1. TCL-VOLATILE
2. PLBS
3. Crating
4. TCL-SUBSTRATE
5. SAL MENTS
6. EPA
7. TCLP (L)
8. PLRP (L)
9. PLRP (L)

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	B-170-SB00	S		X	4/26/25	900	4	X										
2.	B-167-SB01	S		X		1000	7	X	X	X	X		X	X	X	X		
3.	B-170-SB01	S		X		1015	7	X	X	X	X		X	X	X	X		
4.	B-167-SB02	S		X		1030	8	X	X	X	X		X	X	X	X		
5.	B-170-SB02	S		X		1145	7	X	X	X	X		X	X	X	X		
6.	FB04262025	DI W				1215	11	X	X	X	X	X	X	X	X	X		PH 1.3
7.	TB04262025	DI W				NA	2	X										
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>4/26/25</u>	RECEIVED BY: 1. <u>[Signature]</u>	4-28-25 0700	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.0</u> °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.		Comments: <u>Tr. 6.0 #1 "Adjust Factor + 1"</u>
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.		Page ____ of CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

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 : Q1901 PORT06

Order Date : 4/28/2025 10:24:00 AM

Project Mgr :

Client Name : Portal Partners Tri-Venture

Project Name : Amtrak Sawtooth Bridges 2

Report Type : NJ Reduced

Client Contact : Joseph Krupansky

Receive DateTime : 4/28/2025 7:00:00 AM

EDD Type : EXCEL NJCLEANUP

Invoice Name : Portal Partners Tri-Venture

Purchase Order :

Hard Copy Date :

Invoice Contact : Joseph Krupansky

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1901-01	B-170-SB00	Solid	04/26/2025	09:00	VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-02	B-167-SB01	Solid	04/26/2025	10:00	VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-03	B-170-SB01	Solid	04/26/2025	10:15	VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-04	B-167-SB02	Solid	04/26/2025	10:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-05	B-170-SB02	Solid	04/26/2025	11:45	VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-06	FB04262025	Water	04/26/2025	12:15	VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1901-07	TB04262025	Water	04/26/2025	00:00	VOC-TCLVOA-10		8260-Low		10 Bus. Days

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1901	PORT06	Order Date : 4/28/2025 10:24:00 AM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 4/28/2025 7:00:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
--------	-----------	--------	----------------	----------------	------	------------	--------	----------	--------------

Relinquished By : CP

Date / Time : 4/28/25 11:45

Received By : JK

Date / Time : 4/28/25 11:45

Storage Area : VOA Refridgerator Room