284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : Q2198

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
Q2198-01	B-202-SB02
Q2198-02	B-202-SB02
Q2198-03	B-207-SB02
Q2198-04	B-207-SB02
Q2198-05	B-202-GW01

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: 6/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Order ID # Q2198
Test Name: TCLP Pesticide

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 06/03/2025.
1 Water sample was received on 06/03/2025.

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 .

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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_____

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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 is 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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2198**

	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 Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **PRADIP PRAJAPATI** **Date:** **06/11/2025**

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LAB CHRONICLE

OrderID:	Q2198	**OrderDate:**	6/3/2025 2:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N22,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2198-02	**B-202-SB02**	**TCLP**			**05/31/25**			**06/03/25**
			TCLP Herbicide	8151A		06/06/25	06/09/25	
			TCLP Pesticide	8081B		06/06/25	06/09/25	
Q2198-04	**B-207-SB02**	**TCLP**			**06/01/25**			**06/03/25**
			TCLP Herbicide	8151A		06/06/25	06/09/25	
			TCLP Pesticide	8081B		06/06/25	06/09/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2198 **Order ID:** Q2198

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q2198

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PD088583.D	PIBLK-PD088583.D	Decachlorobiphenyl	1	20	18.4	92		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	16.5	83		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	18.0	90		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	16.9	84		30 (61)	150 (148)
I.BLK-PD088820.D	PIBLK-PD088820.D	Decachlorobiphenyl	1	20	24.1	120		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	23.7	119		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	23.0	115		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	21.4	107		30 (61)	150 (148)
PB168330BL	PB168330BL	Decachlorobiphenyl	1	20	25.8	129		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	24.1	121		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	24.4	122		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	21.8	109		30 (61)	150 (148)
PB168330BS	PB168330BS	Decachlorobiphenyl	1	20	23.8	119		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	22.0	110		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	22.9	115		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (61)	150 (148)
PB168271TB	PB168271TB	Decachlorobiphenyl	1	20	25.4	127		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	23.6	118		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	24.2	121		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	21.6	108		30 (61)	150 (148)
Q2198-02	B-202-SB02	Decachlorobiphenyl	1	20	23.5	118		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	23.4	117		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	22.5	113		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (61)	150 (148)
Q2198-04	B-207-SB02	Decachlorobiphenyl	1	20	25.2	126		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	23.1	115		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	24.1	120		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	20.3	102		30 (61)	150 (148)
Q2198-04MS	B-207-SB02MS	Decachlorobiphenyl	1	20	25.9	129		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	24.2	121		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	24.8	124		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	21.1	105		30 (61)	150 (148)
Q2198-04MSD	B-207-SB02MSD	Decachlorobiphenyl	1	20	26.1	131		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	24.3	122		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	24.9	124		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	21.3	106		30 (61)	150 (148)
I.BLK-PD088840.D	PIBLK-PD088840.D	Decachlorobiphenyl	1	20	24.7	123		30 (57)	150 (171)
		Tetrachloro-m-xylene	1	20	23.3	117		30 (61)	150 (148)
		Decachlorobiphenyl	2	20	23.7	118		30 (57)	150 (171)
		Tetrachloro-m-xylene	2	20	20.8	104		30 (61)	150 (148)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8081B

Client: Portal Partners Tri-Venture **DataFile :** PD088838.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**B-207-SB02MS**											
Q2198-04MS (Column 1)	gamma-BHC (Lindane)	5	0	6.30	ug/L	126				30 (60)	150 (152)	
	Heptachlor	5	0	5.40	ug/L	108				30 (56)	150 (147)	
	Heptachlor epoxide	5	0	6.10	ug/L	122				30 (77)	150 (143)	
	Endrin	5	0	6.30	ug/L	126				30 (76)	150 (144)	
	Methoxychlor	5	0	6.20	ug/L	124				30 (70)	150 (142)	
Client Sample ID:	**B-207-SB02MS**											
Q2198-04MS (Column 2)	gamma-BHC (Lindane)	5	0	5.40	ug/L	108				30 (60)	150 (152)	
	Heptachlor	5	0	4.70	ug/L	94				30 (56)	150 (147)	
	Heptachlor epoxide	5	0	5.40	ug/L	108				30 (77)	150 (143)	
	Endrin	5	0	5.50	ug/L	110				30 (76)	150 (144)	
	Methoxychlor	5	0	5.50	ug/L	110				30 (70)	150 (142)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8081B

Client: Portal Partners Tri-Venture **DataFile :** PD088839.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**B-207-SB02MSD**											
Q2198-04MSD (Column 1)	gamma-BHC (Lindane)	5	0	6.40	ug/L	128		2		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	6.10	ug/L	122		0		30 (77)	150 (143)	20 (20)
	Endrin	5	0	6.30	ug/L	126		0		30 (76)	150 (144)	20 (20)
	Methoxychlor	5	0	6.20	ug/L	124		0		30 (70)	150 (142)	20 (20)
Client Sample ID:	**B-207-SB02MSD**											
Q2198-04MSD (Column 2)	gamma-BHC (Lindane)	5	0	5.50	ug/L	110		2		30 (60)	150 (152)	20 (20)
	Heptachlor	5	0	4.70	ug/L	94		0		30 (56)	150 (147)	20 (20)
	Heptachlor epoxide	5	0	5.40	ug/L	108		0		30 (77)	150 (143)	20 (20)
	Endrin	5	0	5.80	ug/L	116		5		30 (76)	150 (144)	20 (20)
	Methoxychlor	5	0	5.50	ug/L	110		0		30 (70)	150 (142)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2198 **Analytical Method:** 8081B

Client: Portal Partners Tri-Venture **Datafile :** PD088833.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168330BS (Column 1)	gamma-BHC (Lindane)	0.5	0.53	ug/L	105				40 (82)	140 (129)	
	Heptachlor	0.5	0.54	ug/L	108				40 (79)	140 (127)	
	Heptachlor epoxide	0.5	0.53	ug/L	106				40 (81)	140 (124)	
	Endrin	0.5	0.54	ug/L	107				40 (81)	140 (128)	
	Methoxychlor	0.5	0.54	ug/L	107				40 (78)	140 (108)	
PB168330BS (Column 2)	gamma-BHC (Lindane)	0.5	0.49	ug/L	98				40 (82)	140 (129)	
	Heptachlor	0.5	0.48	ug/L	97				40 (79)	140 (127)	
	Heptachlor epoxide	0.5	0.49	ug/L	98				40 (81)	140 (124)	
	Endrin	0.5	0.48	ug/L	97				40 (81)	140 (128)	
	Methoxychlor	0.5	0.49	ug/L	97				40 (78)	140 (108)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168330BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2198 SAS No.: Q2198 SDG NO.: Q2198

Lab Sample ID: PB168330BL Lab File ID: PD088832.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 06/06/2025

Date Analyzed (1): 06/09/2025 Date Analyzed (2): 06/09/2025

Time Analyzed (1): 13:14 Time Analyzed (2): 13:14

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
PB168330BS	PB168330BS	PD088833.D	06/09/2025	06/09/2025
PB168271TB	PB168271TB	PD088834.D	06/09/2025	06/09/2025
B-202-SB02	Q2198-02	PD088836.D	06/09/2025	06/09/2025
B-207-SB02	Q2198-04	PD088837.D	06/09/2025	06/09/2025
B-207-SB02MS	Q2198-04MS	PD088838.D	06/09/2025	06/09/2025
B-207-SB02MSD	Q2198-04MSD	PD088839.D	06/09/2025	06/09/2025

COMMENTS:

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **PD088834.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/06/25
Client Sample ID:	PB168271TB	SDG No.:	Q2198
Lab Sample ID:	PB168271TB	Matrix:	TCLP
Analytical Method:	8081B	% 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
PD088834.D	1	06/06/25 12:32	06/09/25 13:44	PB168330

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	25.4		30 (57) - 150 (171)	127%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.6		30 (61) - 150 (148)	118%	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\PD060925\
Data File : PD088834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 13:44
Operator : AR\AJ
Sample : PB168271TB
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168271TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:22:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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	2.879	51135624	327.5E6	23.633	21.652
28)	SA Decachlor...	9.077	8.073	86917755	442.0E6	25.397	24.213
	Target Compounds						

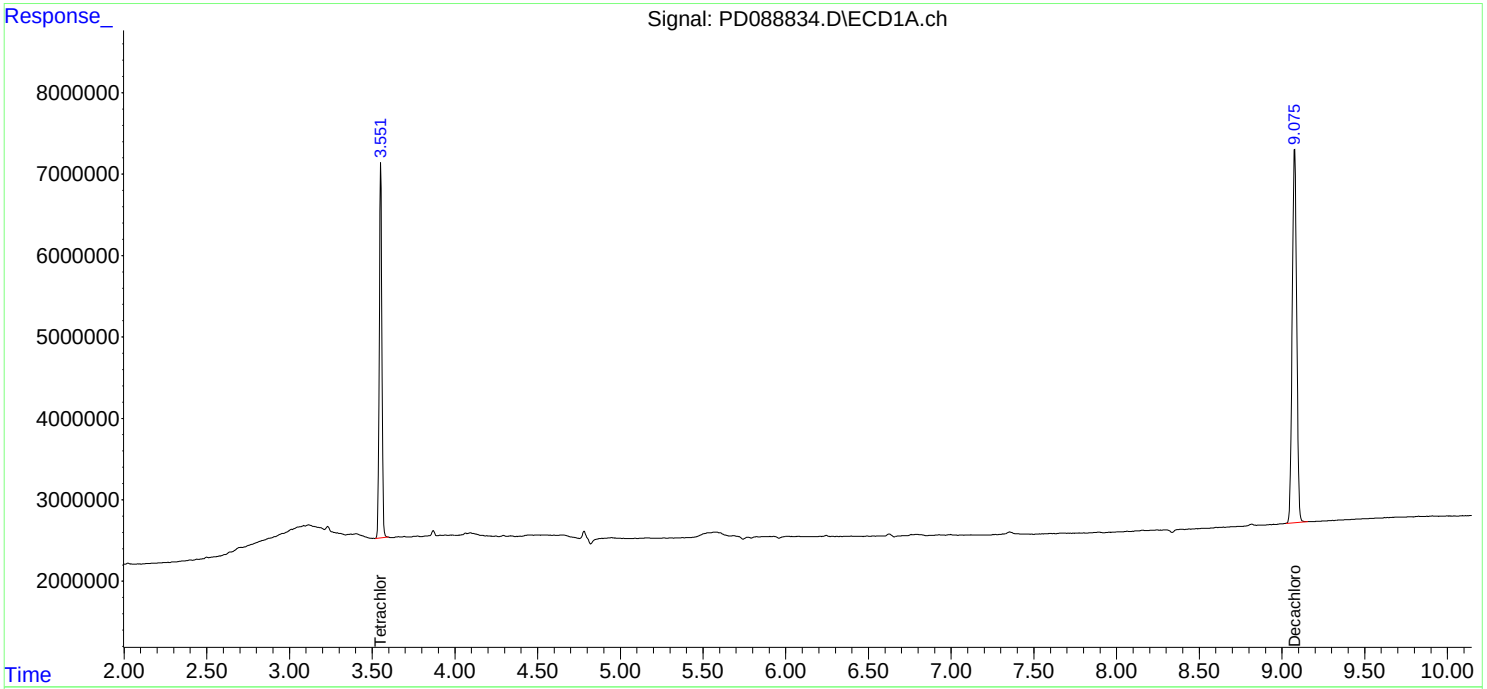
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

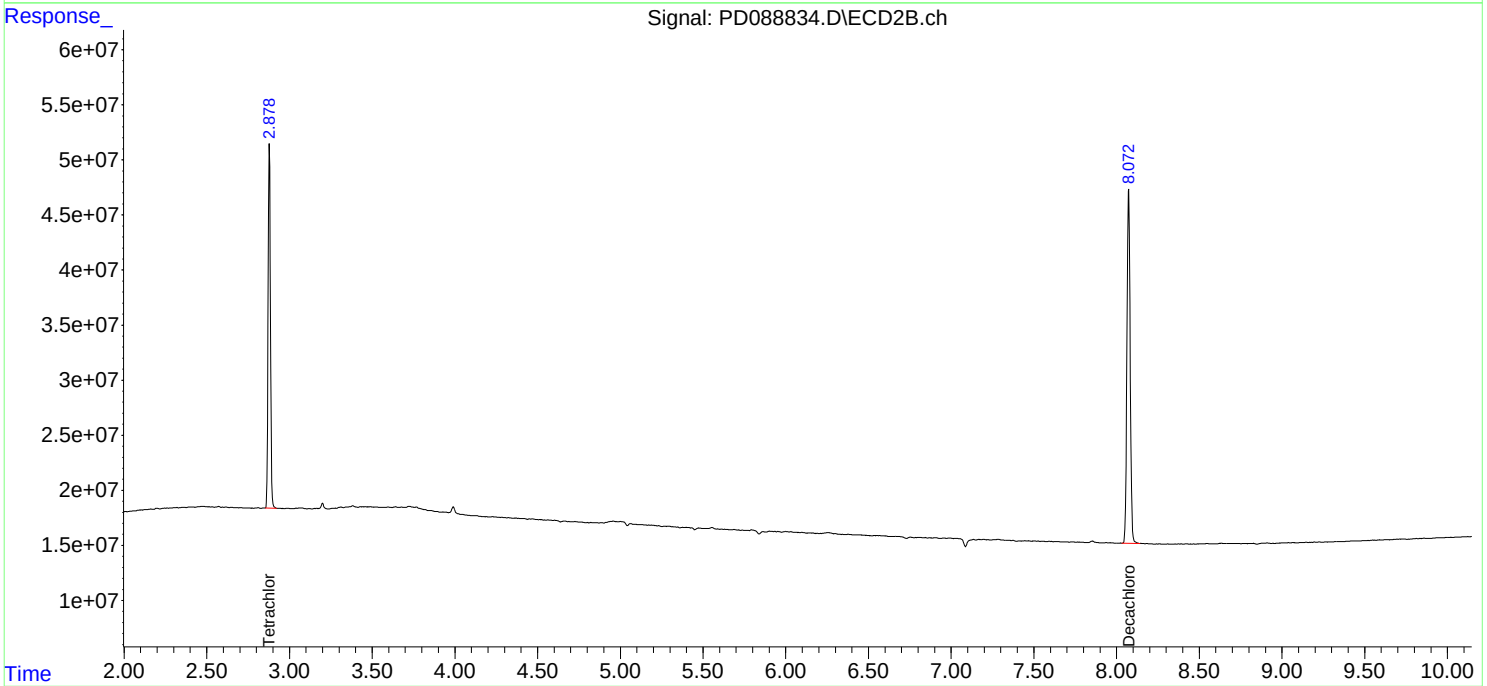
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 13:44
Operator : AR\AJ
Sample : PB168271TB
Misc :
ALS Vial : 16 Sample Multiplier: 1

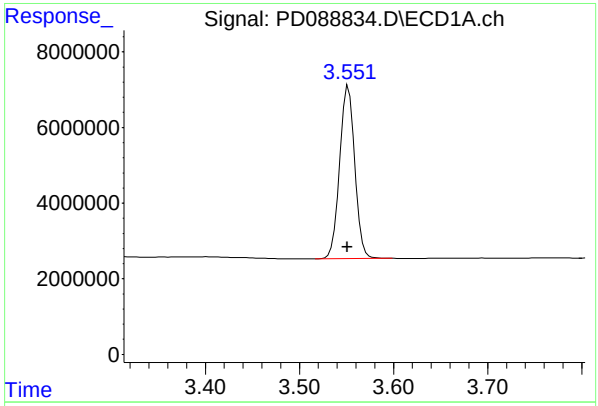
Instrument :
ECD_D
ClientSampleId :
PB168271TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:22:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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



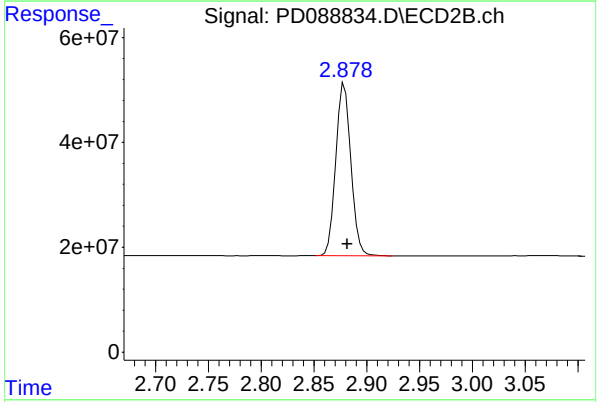




#1 Tetrachloro-m-xylene

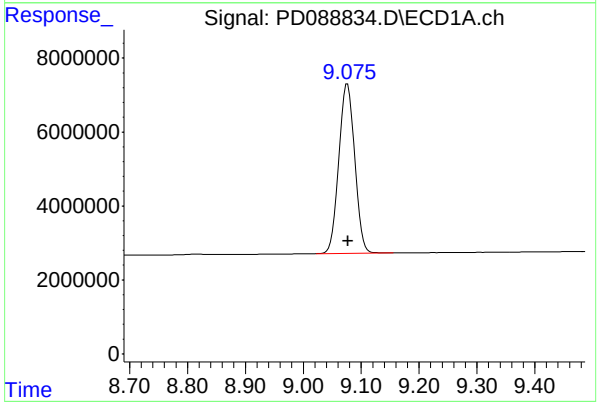
R.T.: 3.552 min
Delta R.T.: 0.001 min
Response: 51135624
Conc: 23.63 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB168271TB



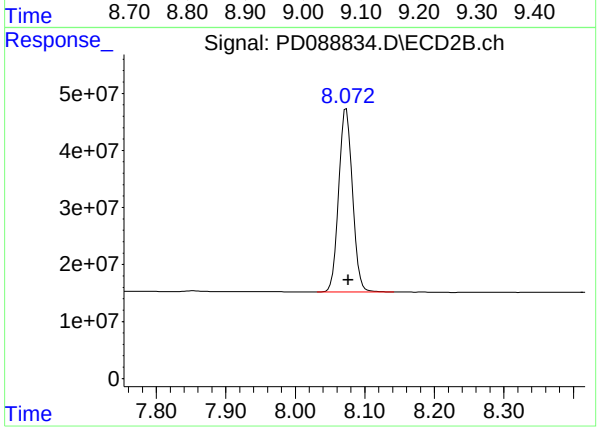
#1 Tetrachloro-m-xylene

R.T.: 2.879 min
Delta R.T.: -0.003 min
Response: 327531784
Conc: 21.65 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 86917755
Conc: 25.40 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.073 min
Delta R.T.: -0.003 min
Response: 442035629
Conc: 24.21 ng/ml

Raw Data: **PD088836.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-202-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-02	Matrix:	TCLP
Analytical Method:	8081B	% 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
PD088836.D	1	06/06/25 12:32	06/09/25 14:11	PB168330

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	23.5		30 (57) - 150 (171)	118%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.4		30 (61) - 150 (148)	117%	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

Quantitation Report (QT Reviewed)

Sample Results: **PD088836.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:11
Operator : AR\AJ
Sample : Q2198-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-202-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:23:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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...	3.549	2.880	50551432	308.0E6	23.363	20.360
28)	SA Decachlor...	9.072	8.072	80456738	411.0E6	23.509	22.512
	Target Compounds						

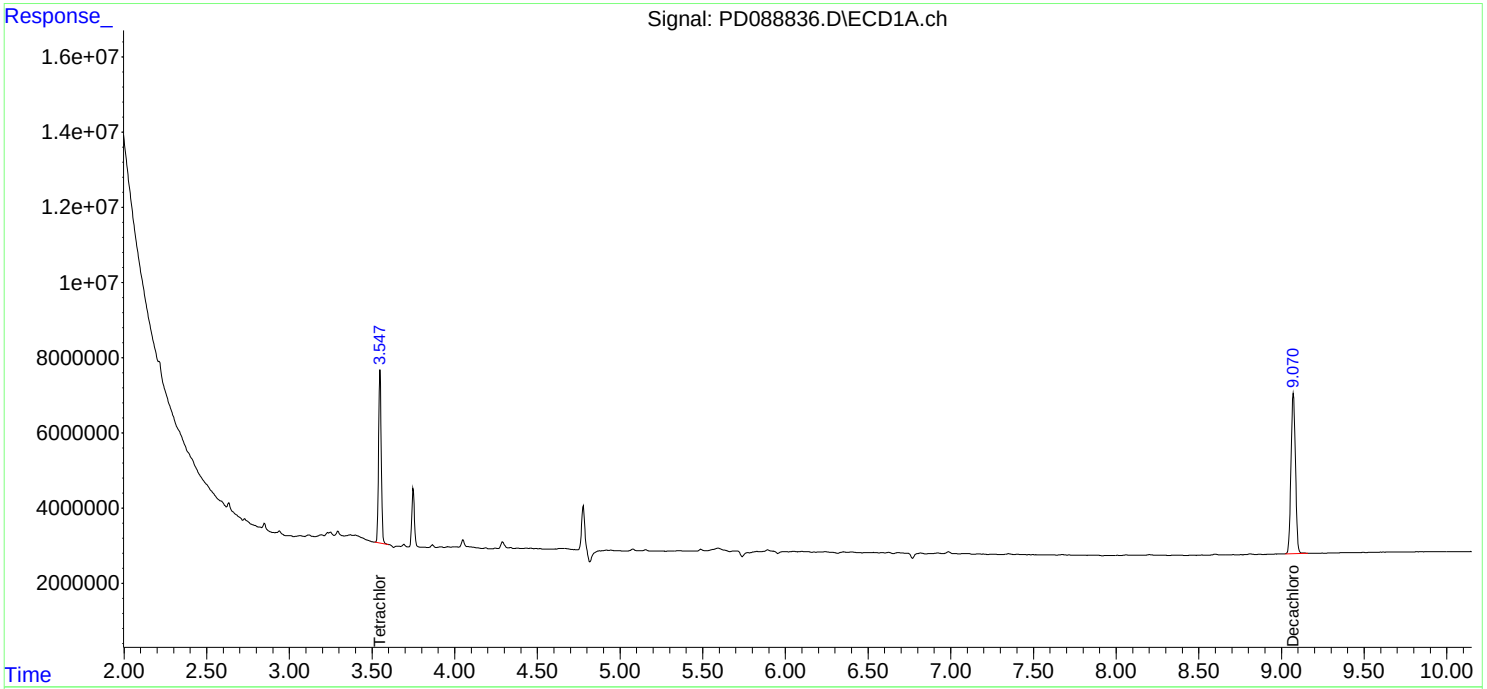
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

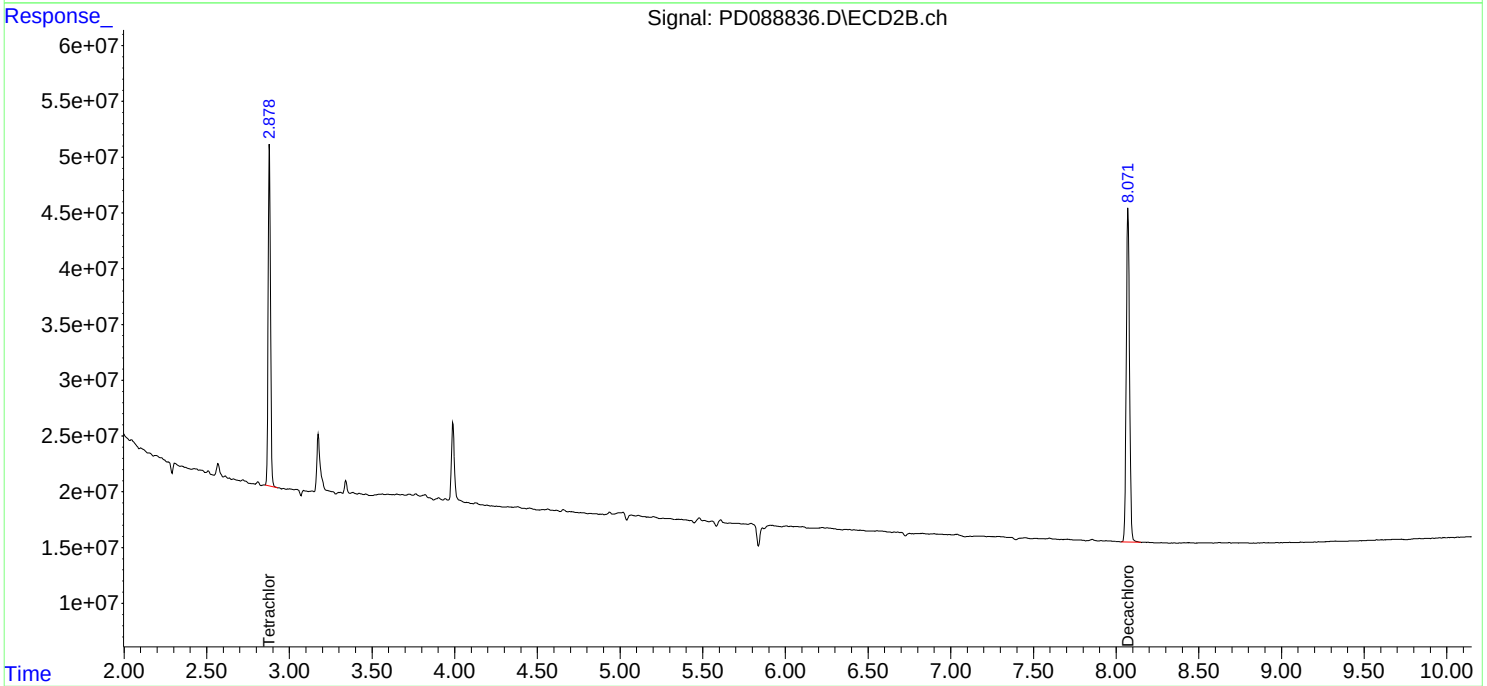
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:11
Operator : AR\AJ
Sample : Q2198-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

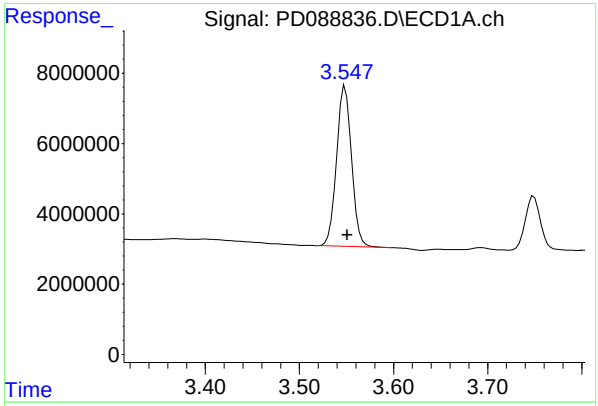
Instrument :
ECD_D
ClientSampleId :
B-202-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:23:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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



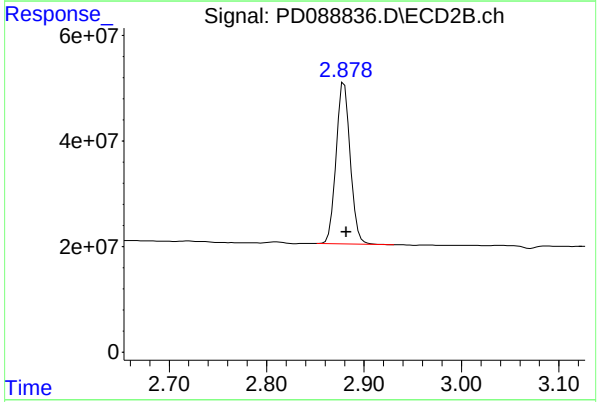




#1 Tetrachloro-m-xylene

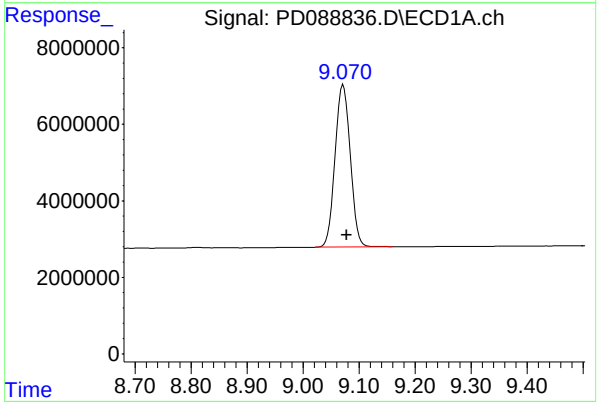
R.T.: 3.549 min
Delta R.T.: -0.002 min
Response: 50551432
Conc: 23.36 ng/ml

Instrument :
ECD_D
ClientSampleId :
B-202-SB02



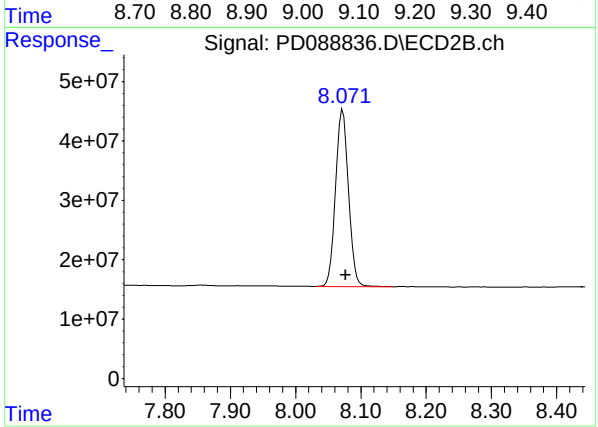
#1 Tetrachloro-m-xylene

R.T.: 2.880 min
Delta R.T.: -0.002 min
Response: 307990017
Conc: 20.36 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.072 min
Delta R.T.: -0.006 min
Response: 80456738
Conc: 23.51 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.072 min
Delta R.T.: -0.004 min
Response: 410980534
Conc: 22.51 ng/ml

Raw Data: **PD088837.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02	SDG No.:	Q2198
Lab Sample ID:	Q2198-04	Matrix:	TCLP
Analytical Method:	8081B	% 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
PD088837.D	1	06/06/25 12:32	06/09/25 14:25	PB168330

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	25.2		30 (57) - 150 (171)	126%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.1		30 (61) - 150 (148)	115%	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

Quantitation Report (QT Reviewed)

Sample Results: **PD088837.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:25
Operator : AR\AJ
Sample : Q2198-04
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-207-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:23:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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...	3.549	2.880	49900506	307.1E6	23.062	20.304
28)	SA Decachlor...	9.073	8.072	86174309	439.6E6	25.180	24.077
	Target Compounds						

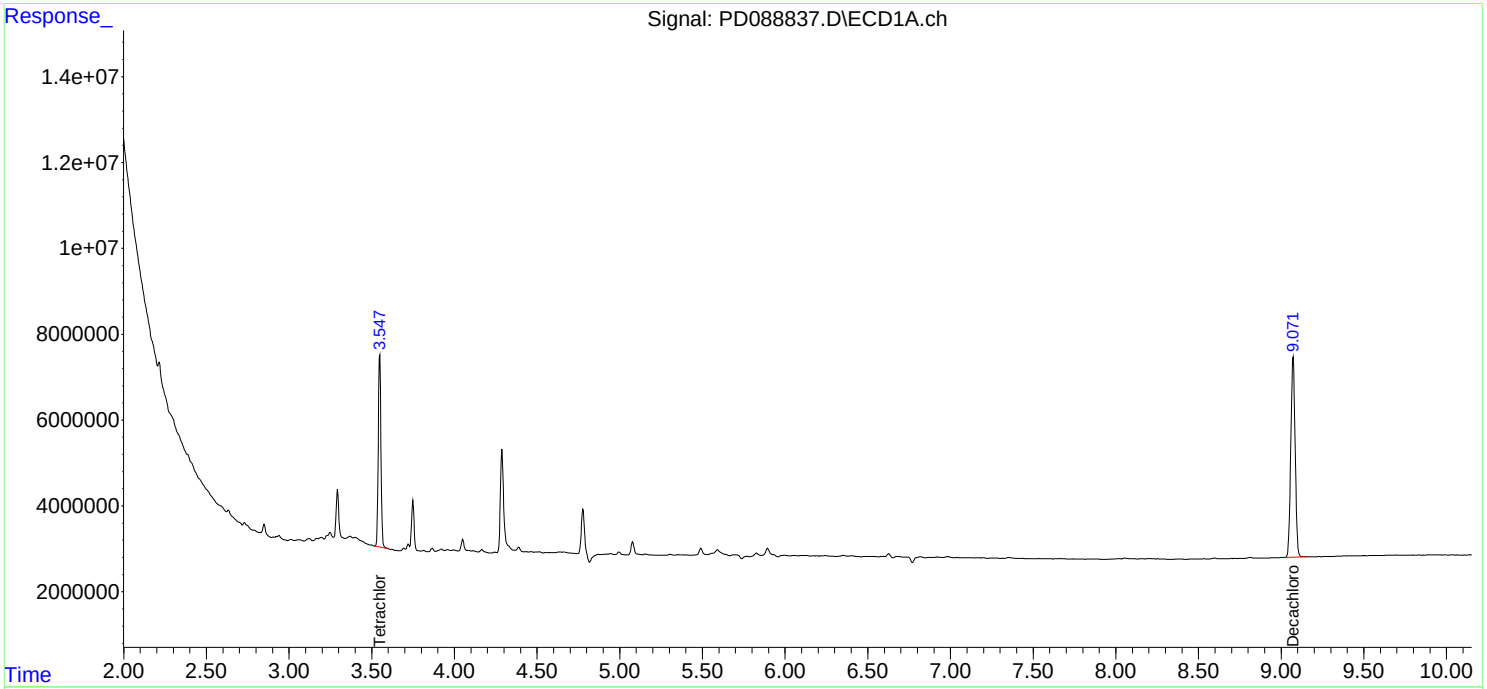
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

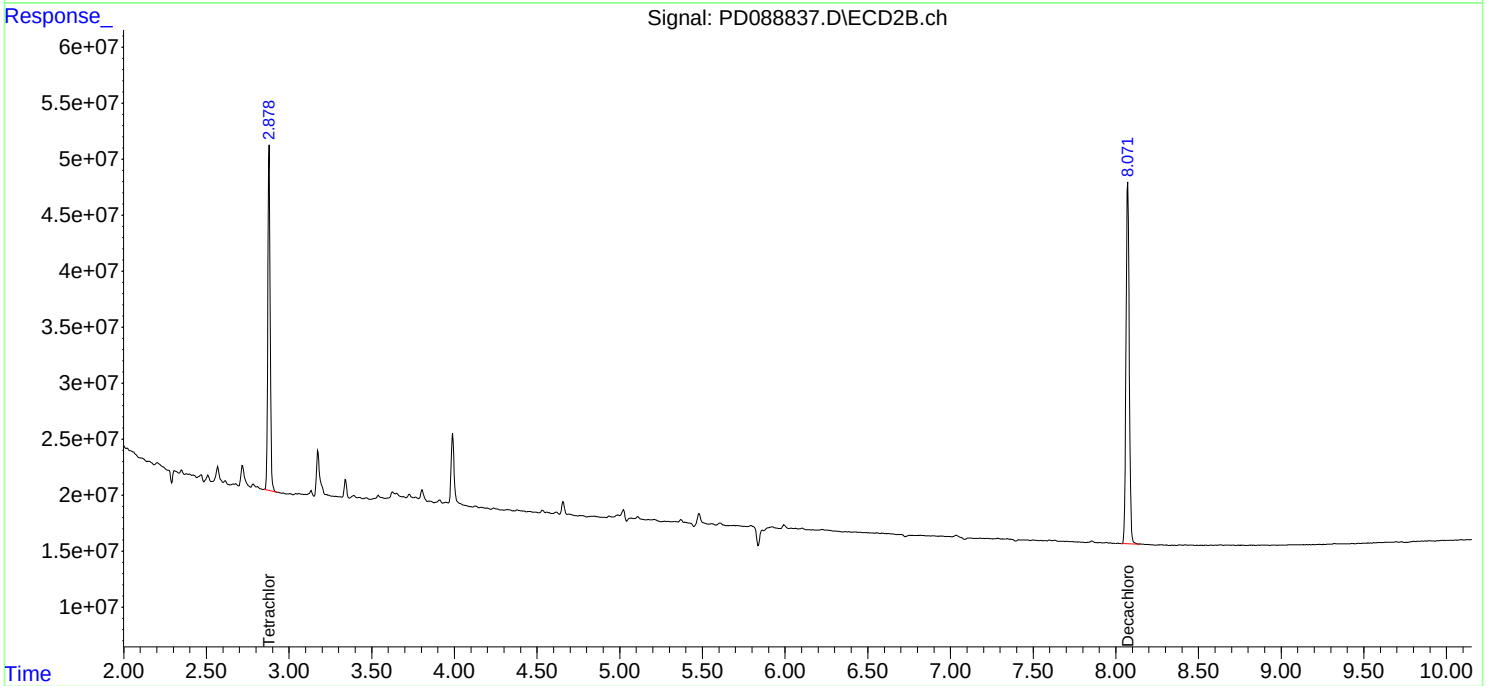
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:25
Operator : AR\AJ
Sample : Q2198-04
Misc :
ALS Vial : 19 Sample Multiplier: 1

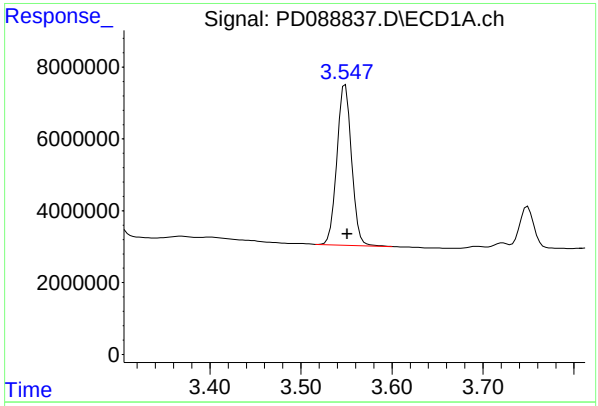
Instrument :
ECD_D
ClientSampleId :
B-207-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:23:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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



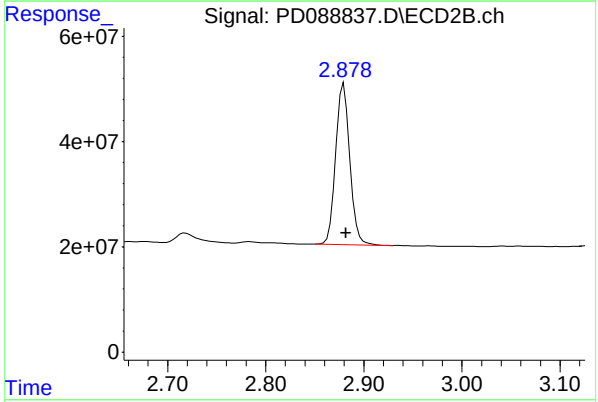




#1 Tetrachloro-m-xylene

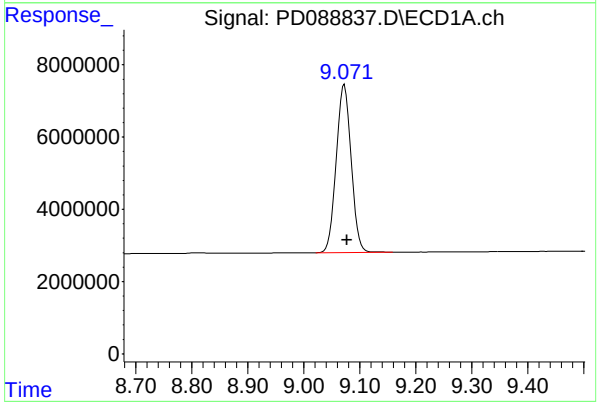
R.T.: 3.549 min
Delta R.T.: -0.002 min
Response: 49900506
Conc: 23.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
B-207-SB02



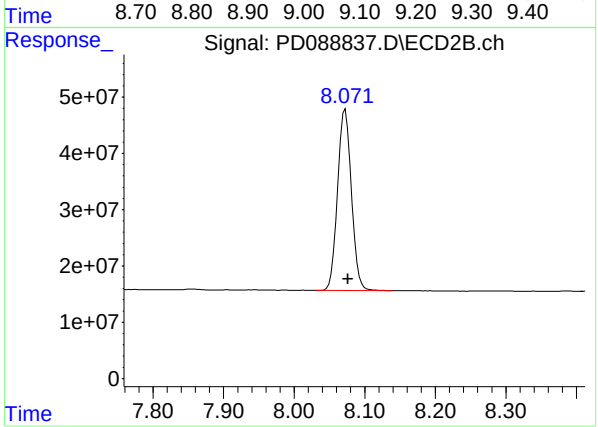
#1 Tetrachloro-m-xylene

R.T.: 2.880 min
Delta R.T.: -0.002 min
Response: 307142383
Conc: 20.30 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.073 min
Delta R.T.: -0.005 min
Response: 86174309
Conc: 25.18 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.072 min
Delta R.T.: -0.004 min
Response: 439554873
Conc: 24.08 ng/ml

CALIBRATION SUMMARY

Raw Data

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_D **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 11:31 12:25

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

LAB FILE ID: **RT 100 =** PD088586.D **RT 075 =** PD088587.D

RT 050 = PD088588.D **RT 025 =** PD088589.D **RT 005 =** PD088590.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	9.08	9.08	9.08	9.08	9.08	9.08	8.98	9.18
Endrin	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
Heptachlor	4.93	4.93	4.93	4.93	4.93	4.93	4.83	5.03
Heptachlor epoxide	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.55	3.55	3.55	3.55	3.55	3.55	3.45	3.65

Raw Data

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_D **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 11:31 12:25

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

LAB FILE ID: RT 100 = PD088586.D RT 075 = PD088587.D

RT 050 = PD088588.D RT 025 = PD088589.D RT 005 = PD088590.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	8.08	8.08	8.08	8.08	8.08	8.08	7.98	8.18
Endrin	5.79	5.79	5.79	5.79	5.79	5.79	5.69	5.89
gamma-BHC (Lindane)	3.73	3.73	3.73	3.73	3.73	3.73	3.63	3.83
Heptachlor	4.09	4.08	4.09	4.09	4.08	4.08	3.98	4.18
Heptachlor epoxide	4.88	4.88	4.88	4.88	4.87	4.87	4.77	4.97
Methoxychlor	6.76	6.76	6.76	6.76	6.76	6.76	6.66	6.86
Tetrachloro-m-xylene	2.88	2.88	2.88	2.88	2.88	2.88	2.78	2.98

Raw Data

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.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_D **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 11:31 12:25

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

LAB FILE ID: **CF 100 =** PD088586.D **CF 075 =** PD088587.D

CF 050 = PD088588.D **CF 025 =** PD088589.D **CF 005 =** PD088590.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	3171750000	3154190000	3328750000	3504210000	3952750000	3422330000	10
Endrin	3544350000	3400630000	3391880000	3322590000	3416420000	3415180000	2
gamma-BHC (Lindane)	4951240000	4675430000	4617130000	4438320000	4331460000	4602720000	5
Heptachlor	4681230000	4453430000	4445350000	4335710000	4440380000	4471220000	3
Heptachlor epoxide	4018350000	3865780000	3896760000	3892850000	4172720000	3969290000	3
Methoxychlor	1605530000	1584480000	1642420000	1697880000	1822460000	1670550000	6
Tetrachloro-m-xylene	2149340000	2072320000	2122010000	2161140000	2313950000	2163750000	4

Raw Data

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.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_D **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 11:31 12:25

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

LAB FILE ID: **CF 100 =** PD088586.D **CF 075 =** PD088587.D

CF 050 = PD088588.D **CF 025 =** PD088589.D **CF 005 =** PD088590.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	16504300000	16618500000	17317300000	18707400000	22133900000	18256300000	13
Endrin	17557800000	17708400000	18459500000	19851800000	22842600000	19284000000	11
gamma-BHC (Lindane)	21035300000	20781600000	21450400000	22534500000	25026800000	22165700000	8
Heptachlor	20762900000	20801500000	21647900000	23011300000	26050900000	22454900000	10
Heptachlor epoxide	18126800000	18251100000	19076900000	20442600000	23459100000	19871300000	11
Methoxychlor	8571980000	8801040000	9285240000	10058400000	11157300000	9574790000	11
Tetrachloro-m-xylene	14104900000	13970700000	14552300000	15457700000	17548700000	15126900000	10

Raw Data

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.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_D **Date(s) Analyzed:** 05/19/2025 05/19/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	4.72	4.62	4.82	175277000
		2	5.24	5.14	5.34	179454000
		3	5.95	5.85	6.05	741371000
		4	6.03	5.93	6.13	889415000
		5	6.87	6.77	6.97	150936000
Toxaphene	500	1	6.24	6.14	6.34	26389700
		2	6.44	6.34	6.54	38119600
		3	7.15	7.05	7.25	72288300
		4	7.57	7.47	7.67	91412700
		5	7.93	7.83	8.03	52259600

Raw Data

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.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Instrument ID: ECD_D **Date(s) Analyzed:** 05/19/2025 05/19/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	3.91	3.81	4.01	813076000
		2	4.49	4.39	4.59	822692000
		3	5.13	5.03	5.23	2571520000
		4	5.19	5.09	5.29	2143050000
		5	6.09	5.99	6.19	983052000
Toxaphene	500	1	5.48	5.38	5.58	139231000
		2	5.65	5.55	5.75	94078800
		3	6.76	6.66	6.86	437083000
		4	7.20	7.10	7.30	311285000
		5	7.33	7.23	7.43	216975000

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088586.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:31
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:44:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 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	214.9E6	1410.5E6	100.640	98.439
28) SA	Decachlor...	9.076	8.076	317.2E6	1650.4E6	97.585	97.596
	Target Compounds						
2) A	alpha-BHC	4.000	3.394	524.4E6	2281.4E6	103.930	99.026
3) MA	gamma-BHC...	4.331	3.731	495.1E6	2103.5E6	103.492	99.023
4) MA	Heptachlor	4.931	4.085	468.1E6	2076.3E6	102.584	97.913
5) MB	Aldrin	5.273	4.371	459.6E6	2042.9E6	102.512	98.179
6) B	beta-BHC	4.516	4.027	176.6E6	886.5E6	100.163	97.589
7) B	delta-BHC	4.765	4.264	458.1E6	2112.6E6	104.014	98.953
8) B	Heptachlo...	5.693	4.875	401.8E6	1812.7E6	101.536	97.446
9) A	Endosulfan I	6.077	5.250	380.1E6	1729.7E6	101.233	97.439
10) B	gamma-Chl...	5.948	5.128	412.4E6	1982.5E6	102.141	98.414
11) B	alpha-Chl...	6.029	5.193	407.7E6	1904.9E6	101.529	98.142
12) B	4,4'-DDE	6.198	5.378	377.5E6	1930.9E6	102.541	98.124
13) MA	Dieldrin	6.349	5.515	416.9E6	1938.3E6	102.216	97.907
14) MA	Endrin	6.576	5.792	354.4E6	1755.8E6	102.198	97.496
15) B	Endosulfa...	6.788	6.083	342.5E6	1667.1E6	100.933	97.341
16) A	4,4'-DDD	6.707	5.932	291.4E6	1606.4E6	102.370	97.977
17) MA	4,4'-DDT	7.023	6.187	325.9E6	1728.0E6	102.124	98.564
18) B	Endrin al...	6.917	6.261	250.3E6	1243.2E6	99.832	96.806
19) B	Endosulfa...	7.152	6.485	318.6E6	1609.8E6	100.650	97.278
20) A	Methoxychlor	7.495	6.757	160.6E6	857.2E6	98.864	96.006
21) B	Endrin ke...	7.632	6.994	343.4E6	1746.9E6	100.663	96.850
22)	Mirex	8.117	7.189	240.8E6	1351.3E6	97.999	96.782

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

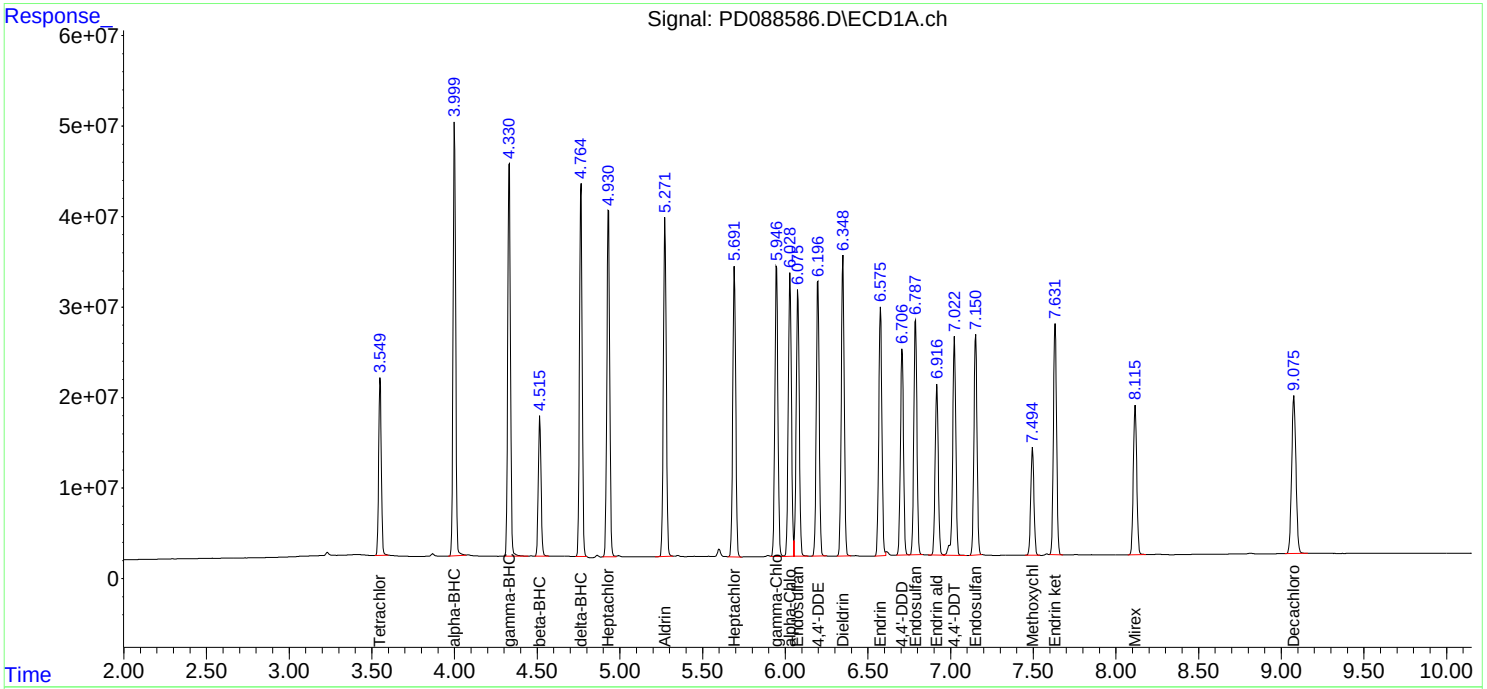
ICAL Form

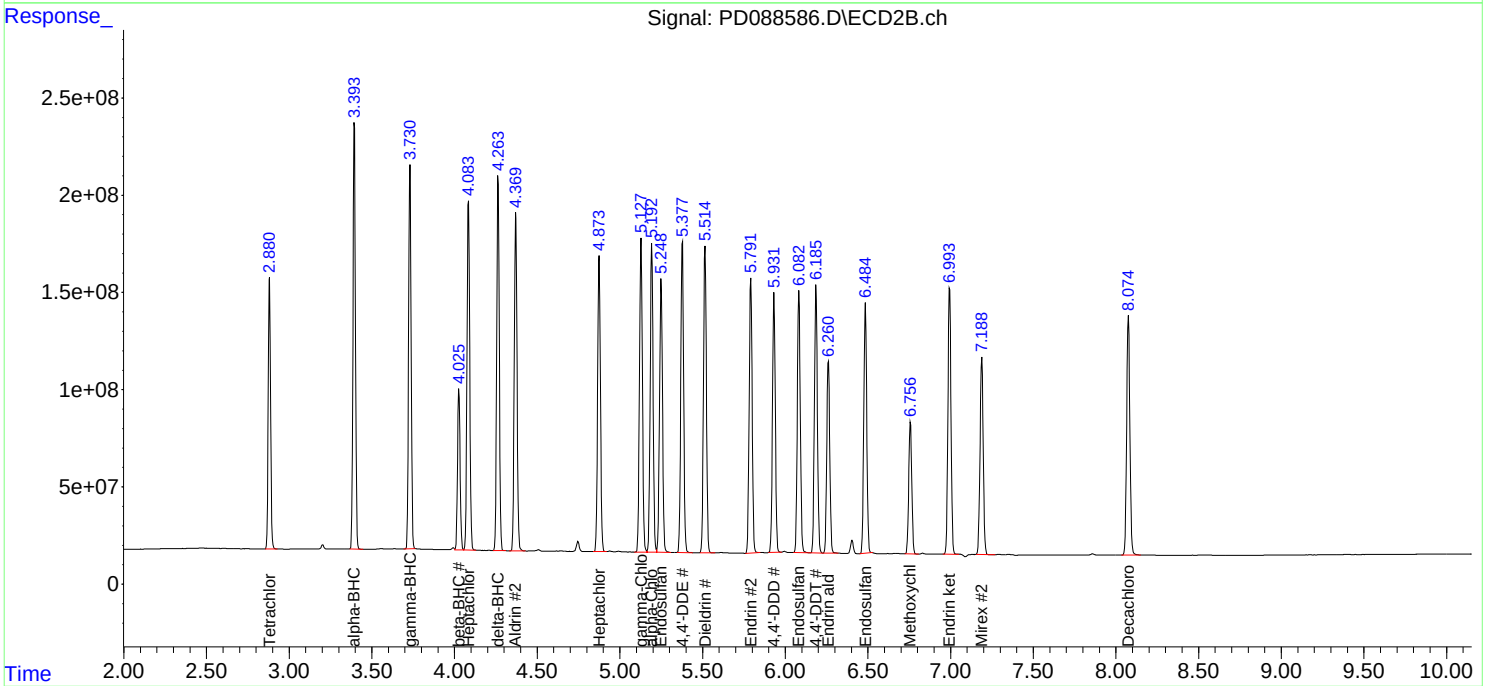
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088586.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:31
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:44:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088587.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:45
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: May 19 12:46:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 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	155.4E6	1047.8E6	73.502	73.741
28)	SA	Decachlor...	9.077	8.076	236.6E6	1246.4E6	73.507	74.131
		Target Compounds						
2)	A	alpha-BHC	4.000	3.394	369.6E6	1685.3E6	73.825	73.757
3)	MA	gamma-BHC...	4.331	3.731	350.7E6	1558.6E6	73.855	73.906
4)	MA	Heptachlor	4.931	4.084	334.0E6	1560.1E6	73.787	74.042
5)	MB	Aldrin	5.273	4.371	328.7E6	1531.8E6	73.861	74.071
6)	B	beta-BHC	4.516	4.026	128.8E6	665.4E6	73.704	73.827
7)	B	delta-BHC	4.765	4.263	322.6E6	1565.6E6	73.818	73.880
8)	B	Heptachlo...	5.693	4.875	289.9E6	1368.8E6	73.832	74.051
9)	A	Endosulfan I	6.077	5.249	275.8E6	1309.1E6	73.959	74.160
10)	B	gamma-Chl...	5.948	5.128	296.2E6	1485.0E6	73.899	74.141
11)	B	alpha-Chl...	6.029	5.193	294.6E6	1430.9E6	73.906	74.143
12)	B	4,4'-DDE	6.198	5.378	270.8E6	1456.7E6	74.039	74.349
13)	MA	Dieldrin	6.349	5.515	299.6E6	1459.1E6	73.975	74.129
14)	MA	Endrin	6.577	5.792	255.0E6	1328.1E6	74.021	74.162
15)	B	Endosulfa...	6.788	6.083	249.1E6	1263.7E6	73.931	74.189
16)	A	4,4'-DDD	6.707	5.933	209.9E6	1212.8E6	74.159	74.311
17)	MA	4,4'-DDT	7.023	6.186	234.4E6	1298.6E6	73.963	74.380
18)	B	Endrin al...	6.917	6.262	184.4E6	951.1E6	74.019	74.374
19)	B	Endosulfa...	7.151	6.485	232.2E6	1221.0E6	73.906	74.185
20)	A	Methoxychlor	7.495	6.757	118.8E6	660.1E6	73.774	74.282
21)	B	Endrin ke...	7.633	6.995	250.6E6	1333.4E6	73.967	74.279
22)		Mirex	8.117	7.189	179.6E6	1033.8E6	73.718	74.359

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

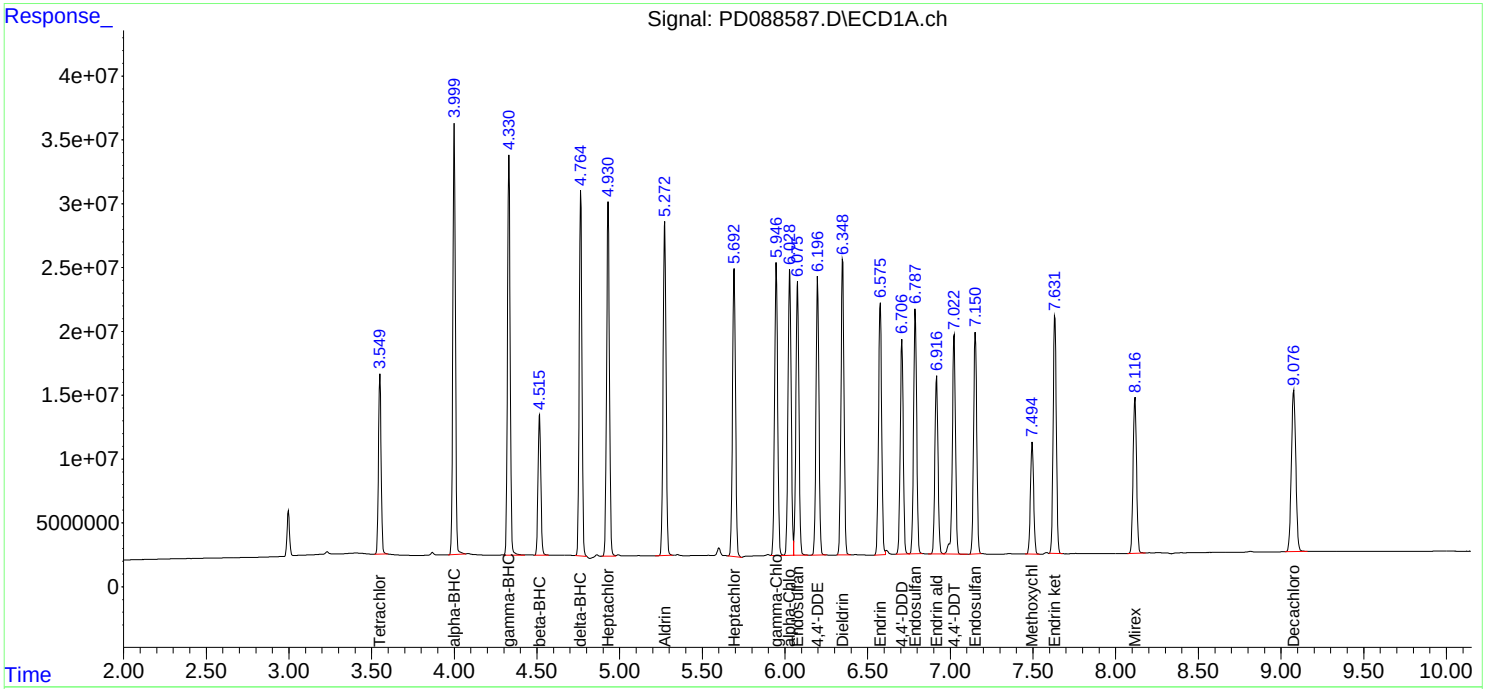
ICAL Form

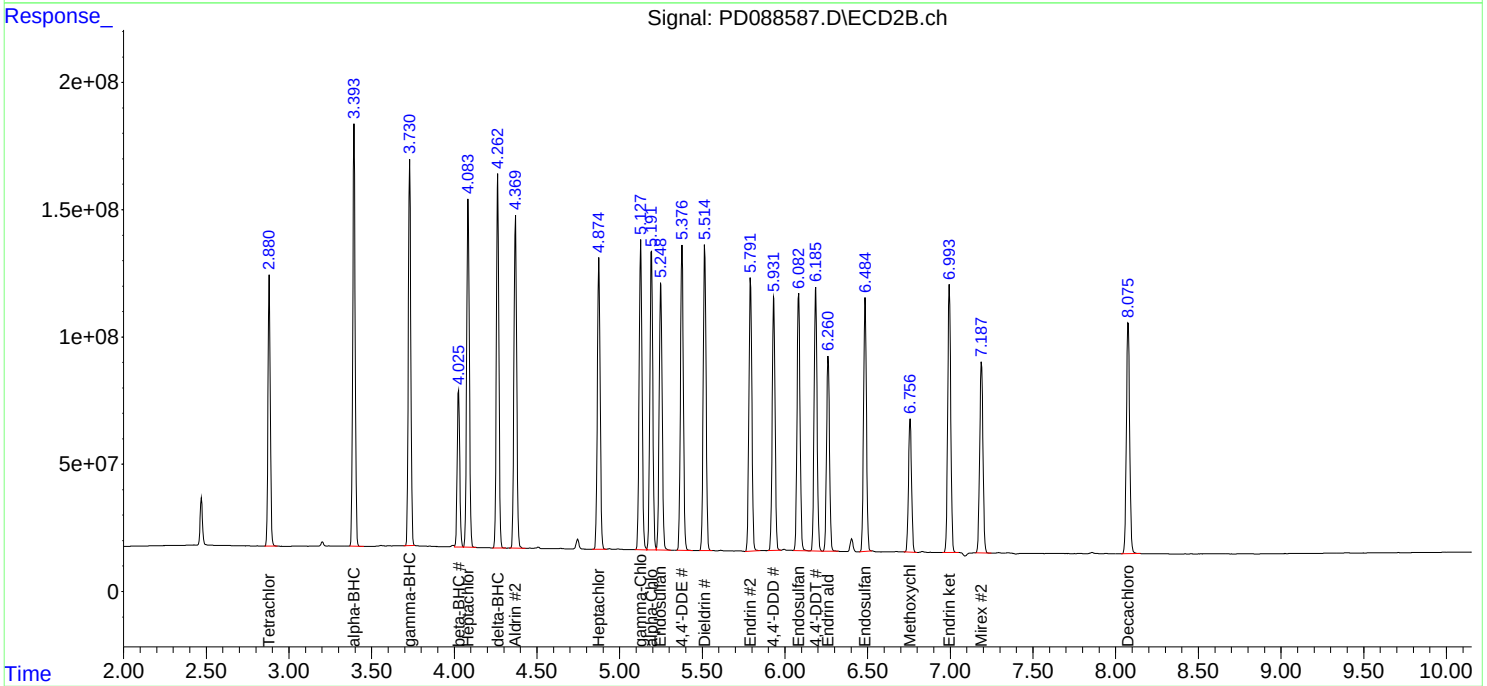
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088587.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:45
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:46:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088588.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:58
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: May 19 12:42:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 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	106.1E6	727.6E6	50.000	50.000
28)	SA	Decachlor...	9.077	8.077	166.4E6	865.9E6	50.000	50.000
		Target Compounds						
2)	A	alpha-BHC	4.000	3.394	242.4E6	1163.1E6	50.000	50.000
3)	MA	gamma-BHC...	4.332	3.731	230.9E6	1072.5E6	50.000	50.000
4)	MA	Heptachlor	4.932	4.085	222.3E6	1082.4E6	50.000	50.000
5)	MB	Aldrin	5.273	4.371	218.6E6	1059.4E6	50.000	50.000
6)	B	beta-BHC	4.517	4.027	88017766	465.1E6	50.000	50.000
7)	B	delta-BHC	4.766	4.264	211.4E6	1078.7E6	50.000	50.000
8)	B	Heptachlo...	5.693	4.875	194.8E6	953.8E6	50.000	50.000
9)	A	Endosulfan I	6.077	5.250	185.4E6	910.3E6	50.000	50.000
10)	B	gamma-Chl...	5.948	5.129	197.6E6	1023.2E6	50.000	50.000
11)	B	alpha-Chl...	6.030	5.194	197.7E6	988.5E6	50.000	50.000
12)	B	4,4'-DDE	6.198	5.378	179.4E6	1002.3E6	50.000	50.000
13)	MA	Dieldrin	6.350	5.516	199.4E6	1010.6E6	50.000	50.000
14)	MA	Endrin	6.577	5.792	169.6E6	923.0E6	50.000	50.000
15)	B	Endosulfa...	6.788	6.084	168.1E6	879.1E6	50.000	50.000
16)	A	4,4'-DDD	6.708	5.933	139.0E6	836.3E6	50.000	50.000
17)	MA	4,4'-DDT	7.023	6.187	156.2E6	889.1E6	50.000	50.000
18)	B	Endrin al...	6.917	6.262	125.6E6	662.6E6	50.000	50.000
19)	B	Endosulfa...	7.152	6.486	157.2E6	850.0E6	50.000	50.000
20)	A	Methoxychlor	7.495	6.758	82121190	464.3E6	50.000	50.000
21)	B	Endrin ke...	7.633	6.995	169.4E6	930.3E6	50.000	50.000
22)		Mirex	8.117	7.189	125.3E6	720.6E6	50.000	50.000

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

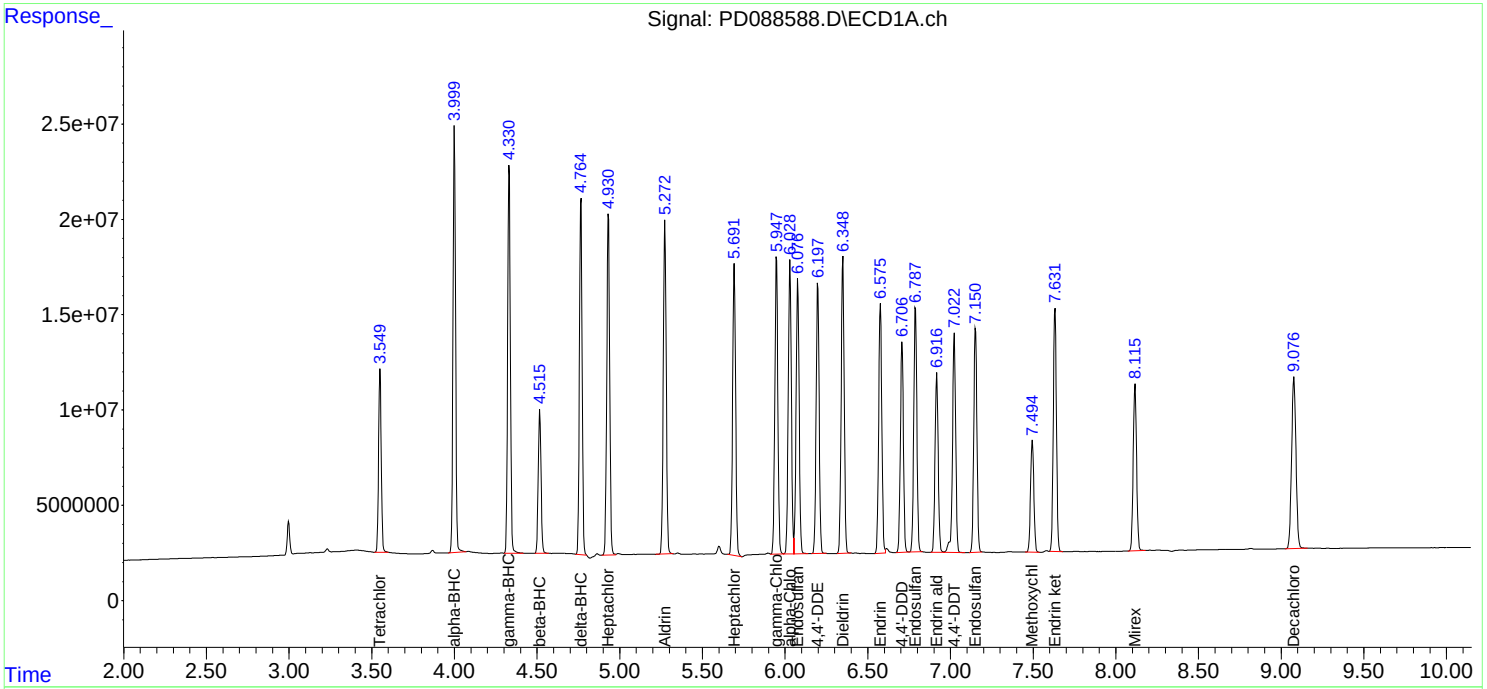
ICAL Form

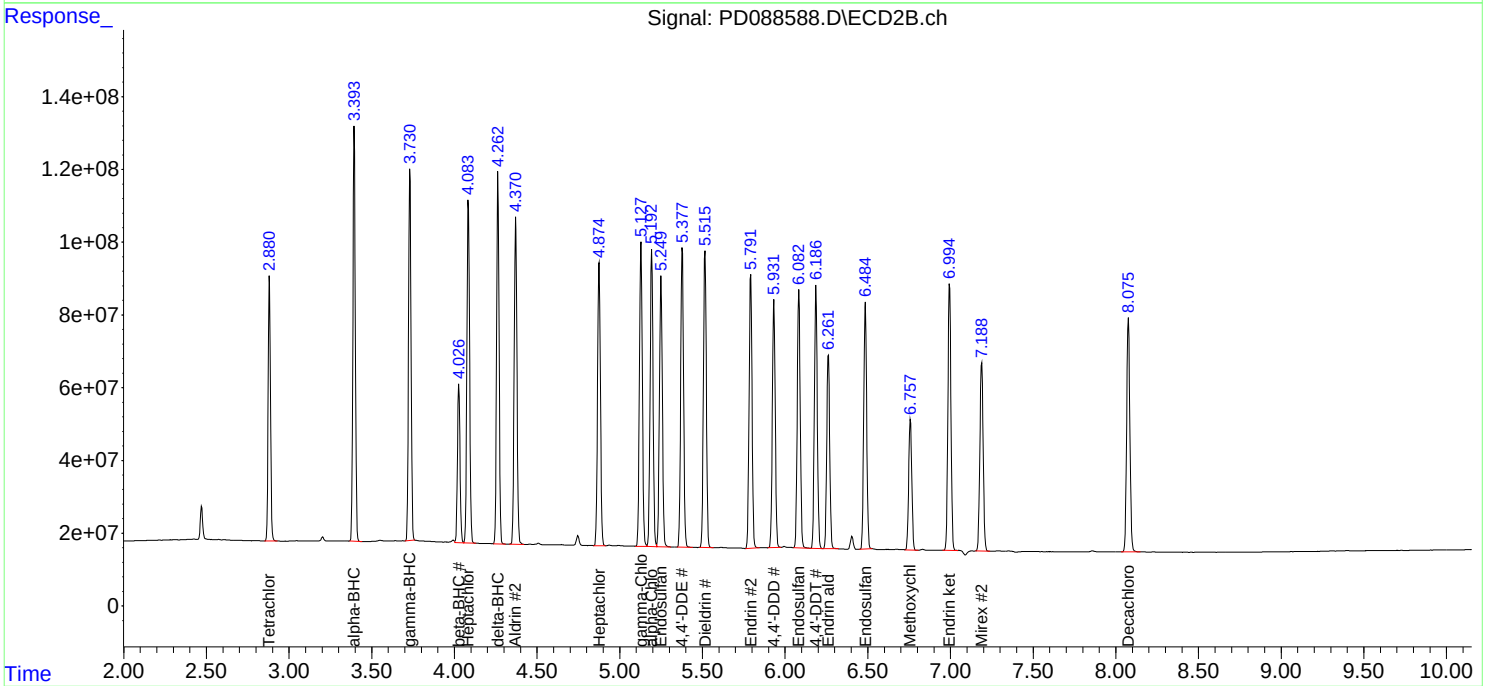
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088588.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:58
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:42:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088589.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 12:12
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: May 19 12:48:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 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	54028504	386.4E6	25.411	26.612
28)	SA	Decachlor...	9.079	8.077	87605286	467.7E6	26.630	27.054
		Target Compounds						
2)	A	alpha-BHC	4.000	3.395	114.0E6	606.1E6	23.284	26.128
3)	MA	gamma-BHC...	4.332	3.731	111.0E6	563.4E6	23.757	26.263
4)	MA	Heptachlor	4.931	4.085	108.4E6	575.3E6	24.201	26.688
5)	MB	Aldrin	5.273	4.371	106.3E6	561.5E6	24.150	26.581
6)	B	beta-BHC	4.517	4.027	45318541	250.3E6	25.687	27.021
7)	B	delta-BHC	4.765	4.264	100.5E6	564.9E6	23.458	26.224
8)	B	Heptachlo...	5.694	4.875	97321186	511.1E6	24.837	26.934
9)	A	Endosulfan I	6.077	5.250	92653177	489.2E6	24.884	26.980
10)	B	gamma-Chl...	5.948	5.129	96967992	544.8E6	24.388	26.615
11)	B	alpha-Chl...	6.029	5.193	98047542	528.4E6	24.697	26.742
12)	B	4,4'-DDE	6.198	5.378	86803365	535.9E6	24.035	26.725
13)	MA	Dieldrin	6.350	5.516	97792162	540.9E6	24.352	26.814
14)	MA	Endrin	6.577	5.792	83064769	496.3E6	24.324	26.981
15)	B	Endosulfa...	6.789	6.084	84533008	472.0E6	25.068	26.977
16)	A	4,4'-DDD	6.708	5.933	67771707	446.8E6	24.197	26.743
17)	MA	4,4'-DDT	7.024	6.187	76236841	468.2E6	24.282	26.339
18)	B	Endrin al...	6.918	6.262	64337678	361.1E6	25.616	27.354
19)	B	Endosulfa...	7.152	6.486	79398597	457.7E6	25.201	27.050
20)	A	Methoxychlor	7.496	6.758	42446886	251.5E6	26.000	27.395
21)	B	Endrin ke...	7.633	6.995	84948689	501.6E6	25.057	27.142
22)		Mirex	8.117	7.189	66265705	393.6E6	26.614	27.401

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

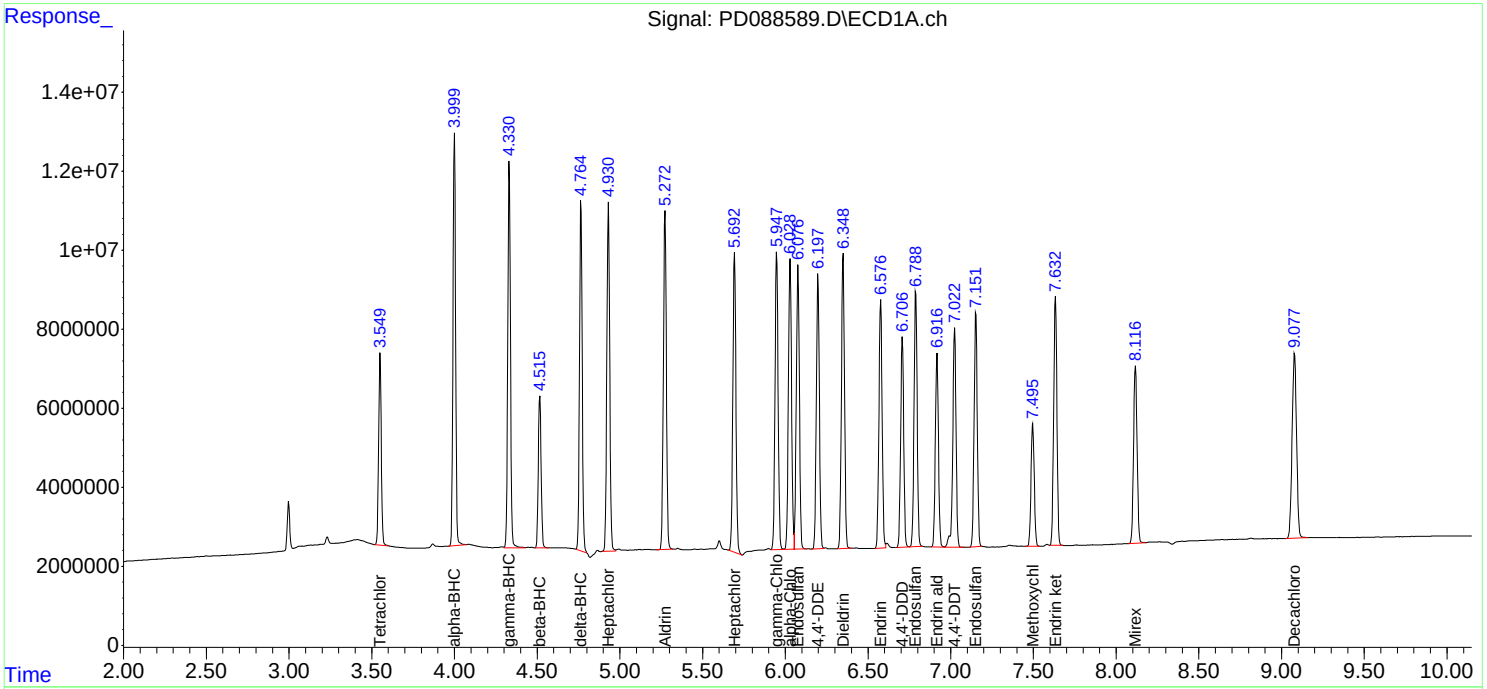
ICAL Form

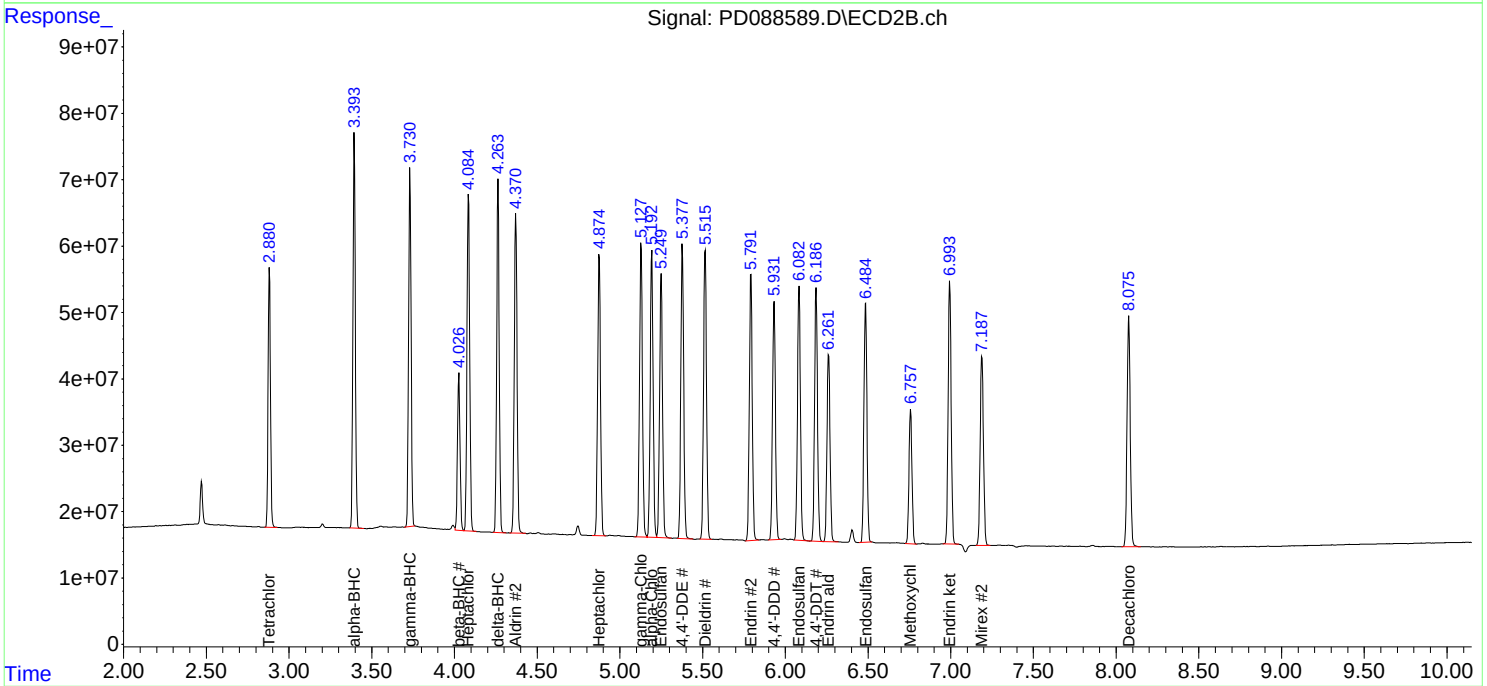
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088589.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 12:12
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:48:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088590.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 12:25
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:51:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 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	2.882	11569731	87743326	5.347	5.800
28)	SA	Decachlor...	9.077	8.076	19763753	110.7E6	5.775	6.062
		Target Compounds						
2)	A	alpha-BHC	4.000	3.394	21526558	133.6E6	4.507	5.590
3)	MA	gamma-BHC...	4.331	3.731	21657318	125.1E6	4.705	5.645
4)	MA	Heptachlor	4.930	4.084	22201889	130.3E6	4.940m	5.801
5)	MB	Aldrin	5.273	4.370	21861853	125.7E6	4.975	5.734
6)	B	beta-BHC	4.516	4.027	9793458	58294427	5.431	5.984
7)	B	delta-BHC	4.764	4.264	20011375	126.5E6	4.735	5.674
8)	B	Heptachlo...	5.691	4.874	20863576	117.3E6	5.267m	5.903
9)	A	Endosulfan I	6.076	5.249	19604836	111.8E6	5.210	5.892
10)	B	gamma-Chl...	5.948	5.128	20203660	123.9E6	5.065	5.808
11)	B	alpha-Chl...	6.029	5.192	20755365	120.4E6	5.181	5.840
12)	B	4,4'-DDE	6.198	5.378	17503651	121.5E6	4.877	5.812
13)	MA	Dieldrin	6.349	5.515	19976132	122.7E6	4.979	5.830
14)	MA	Endrin	6.577	5.792	17082110	114.2E6	5.002	5.923
15)	B	Endosulfa...	6.788	6.083	18646050	108.1E6	5.415	5.903
16)	A	4,4'-DDD	6.707	5.932	13611843	100.6E6	4.887	5.786
17)	MA	4,4'-DDT	7.023	6.186	15258865	97907648	4.887	5.398
18)	B	Endrin al...	6.917	6.261	14132008	84167396	5.489	6.043
19)	B	Endosulfa...	7.152	6.485	17063513	105.5E6	5.327	5.940
20)	A	Methoxychlor	7.496	6.758	9112300	55786563	5.455	5.826
21)	B	Endrin ke...	7.633	6.995	17773939	114.1E6	5.192	5.898
22)		Mirex	8.117	7.189	15159249	92799571	5.834	6.104

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

ICAL Form

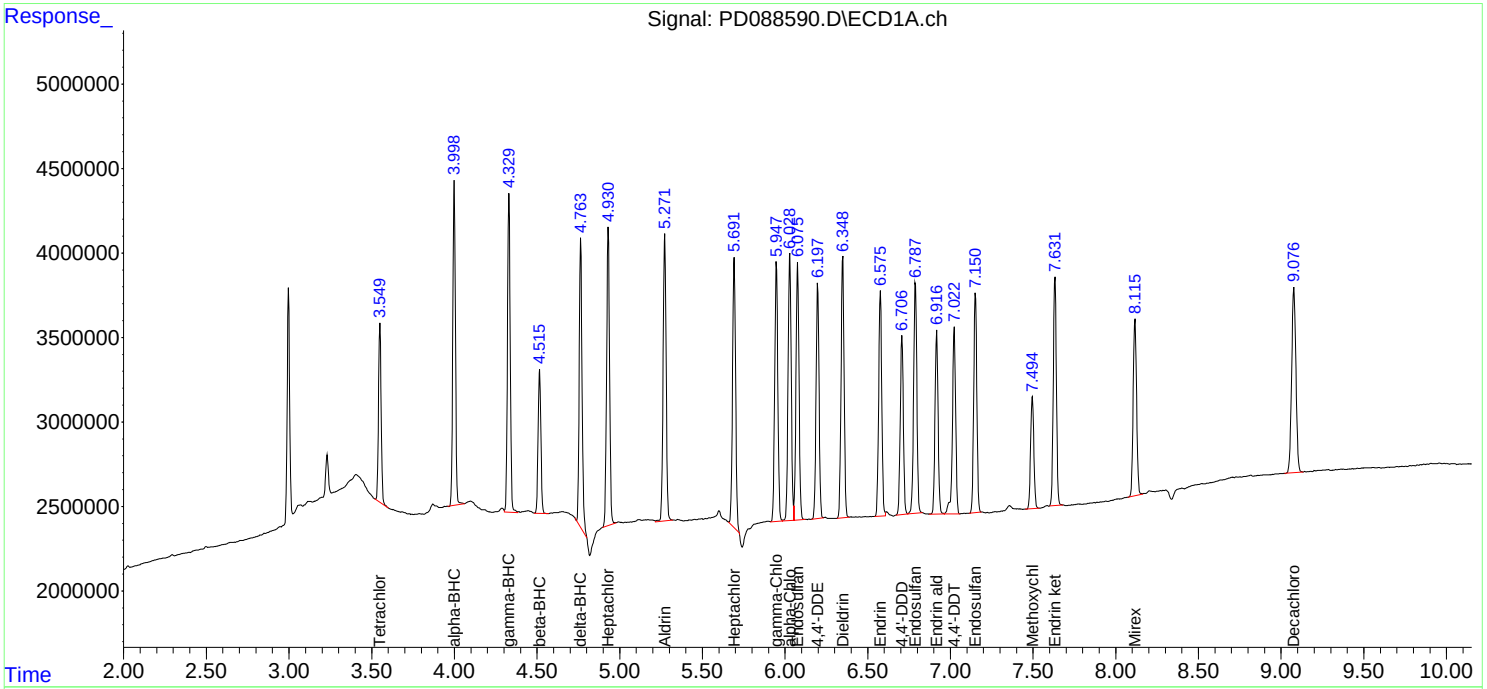
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088590.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 12:25
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

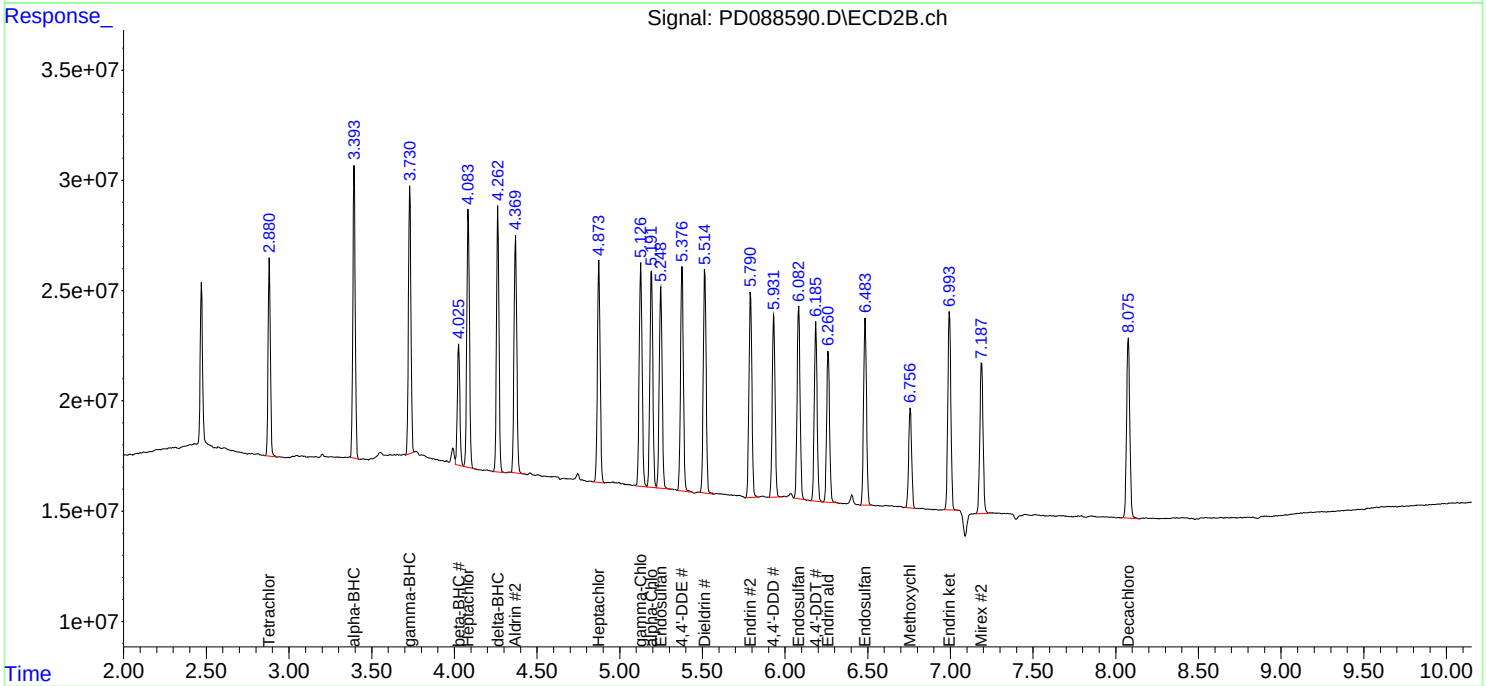
Instrument :
ECD_D
ClientSampleId :
PSTDICC005

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:51:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088593.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 13:06
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: May 19 13:27:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:26:49 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	104.8E6	916.8E6	50.000	50.000
28)	SA Decachlor...	9.077	8.077	161.3E6	859.8E6	50.000	50.000
	Target Compounds						
23)	Chlordane-1	4.717	3.907	87638607	406.5E6	500.000	500.000
24)	Chlordane-2	5.243	4.489	89727196	411.3E6	500.000	500.000
25)	Chlordane-3	5.949	5.128	370.7E6	1285.8E6	500.000	500.000
26)	Chlordane-4	6.034	5.193	444.7E6	1071.5E6	500.000	500.000
27)	Chlordane-5	6.873	6.093	75468131	491.5E6	500.000	500.000

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

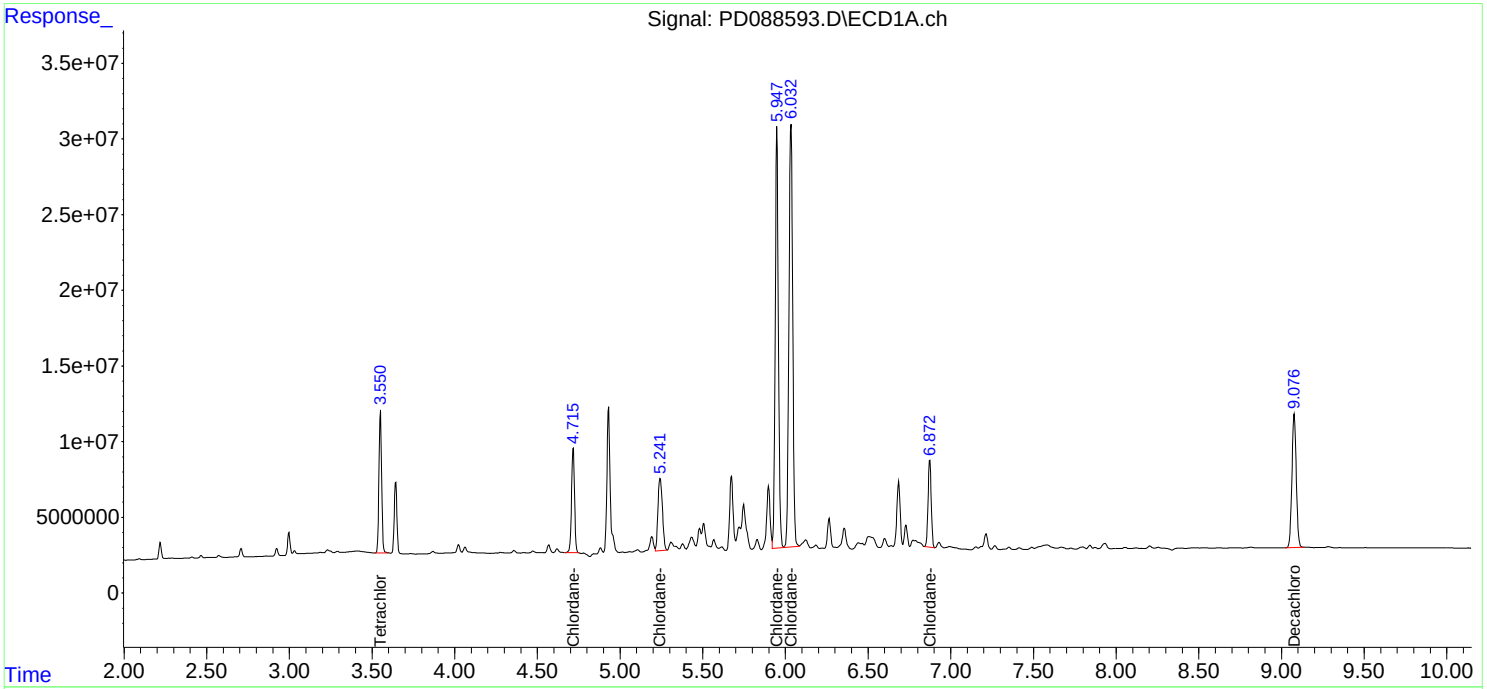
ICAL Form

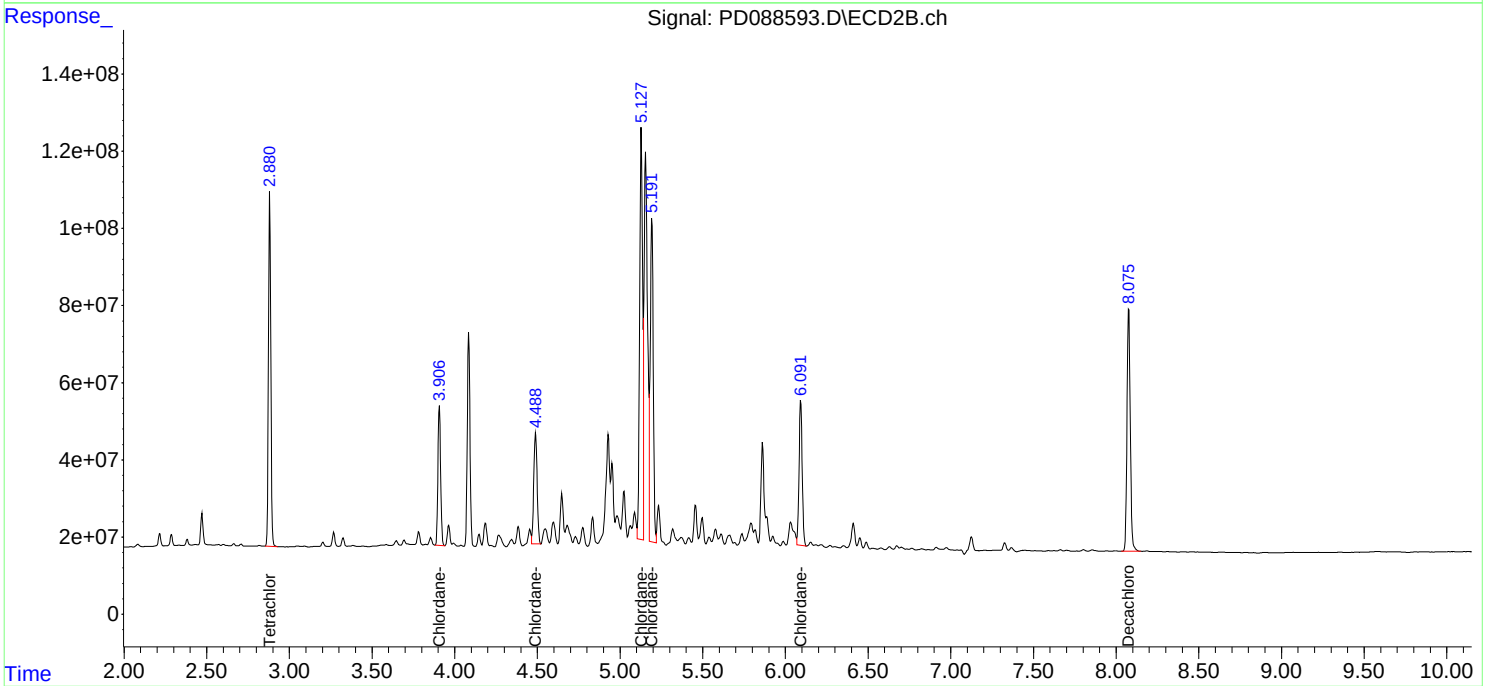
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088593.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 13:06
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 13:27:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:26:49 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088598.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 14:14
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: May 19 14:24:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 14:24:19 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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.551	2.882	108.0E6	751.0E6	50.000	50.000
7) SA	Decachlor...	9.078	8.076	167.6E6	890.4E6	50.000	50.000
	Target Compounds						
2)	Toxaphene-1	6.244	5.478	13194843	69615460	500.000	500.000
3)	Toxaphene-2	6.444	5.649	19059780	47039410	500.000	500.000
4)	Toxaphene-3	7.151	6.759	36144150	218.5E6	500.000	500.000
5)	Toxaphene-4	7.566	7.201	45706327	155.6E6	500.000	500.000
6)	Toxaphene-5	7.932	7.332	26129785	108.5E6	500.000	500.000

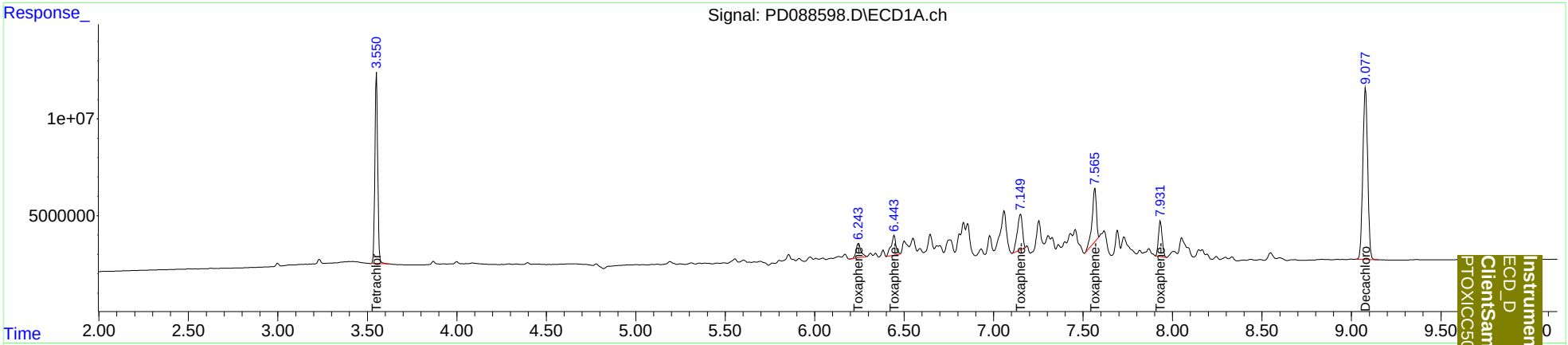
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088598.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 14:14
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: May 19 14:24:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 14:24:19 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 x0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088601.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 14:55
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
ICVPD051925

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 15:10:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 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	108.1E6	751.4E6	49.971	49.675
28)	SA	Decachlor...	9.077	8.076	167.7E6	895.2E6	49.001	49.034
		Target Compounds						
2)	A	alpha-BHC	4.001	3.395	246.5E6	1196.4E6	51.600	50.049
3)	MA	gamma-BHC...	4.332	3.731	235.9E6	1105.4E6	51.246	49.870
4)	MA	Heptachlor	4.932	4.085	227.5E6	1118.9E6	50.891	49.831
5)	MB	Aldrin	5.274	4.371	223.7E6	1091.3E6	50.911	49.765
6)	B	beta-BHC	4.517	4.027	89787263	480.1E6	49.795	49.280
7)	B	delta-BHC	4.765	4.264	218.4E6	1109.3E6	51.674	49.758
8)	B	Heptachlo...	5.693	4.875	199.8E6	982.3E6	50.327	49.432
9)	A	Endosulfan I	6.077	5.249	189.4E6	938.9E6	50.341	49.474
10)	B	gamma-Chl...	5.949	5.128	201.5E6	1057.1E6	50.505	49.556
11)	B	alpha-Chl...	6.029	5.193	201.8E6	1018.0E6	50.365	49.357
12)	B	4,4'-DDE	6.198	5.378	182.3E6	1031.8E6	50.791	49.363
13)	MA	Dieldrin	6.349	5.516	203.9E6	1041.8E6	50.818	49.507
14)	MA	Endrin	6.578	5.792	172.9E6	954.5E6	50.628	49.499
15)	B	Endosulfa...	6.789	6.083	171.5E6	909.5E6	49.803	49.640
16)	A	4,4'-DDD	6.708	5.932	141.8E6	864.0E6	50.908	49.679
17)	MA	4,4'-DDT	7.024	6.186	159.0E6	923.1E6	50.943	50.894
18)	B	Endrin al...	6.917	6.261	127.7E6	685.3E6	49.581	49.203
19)	B	Endosulfa...	7.152	6.485	160.4E6	879.9E6	50.092	49.555
20)	A	Methoxychlor	7.496	6.758	83431358	481.4E6	49.942	50.273
21)	B	Endrin ke...	7.633	6.994	172.4E6	962.9E6	50.373	49.767
22)		Mirex	8.117	7.189	127.7E6	748.0E6	49.145	49.203

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

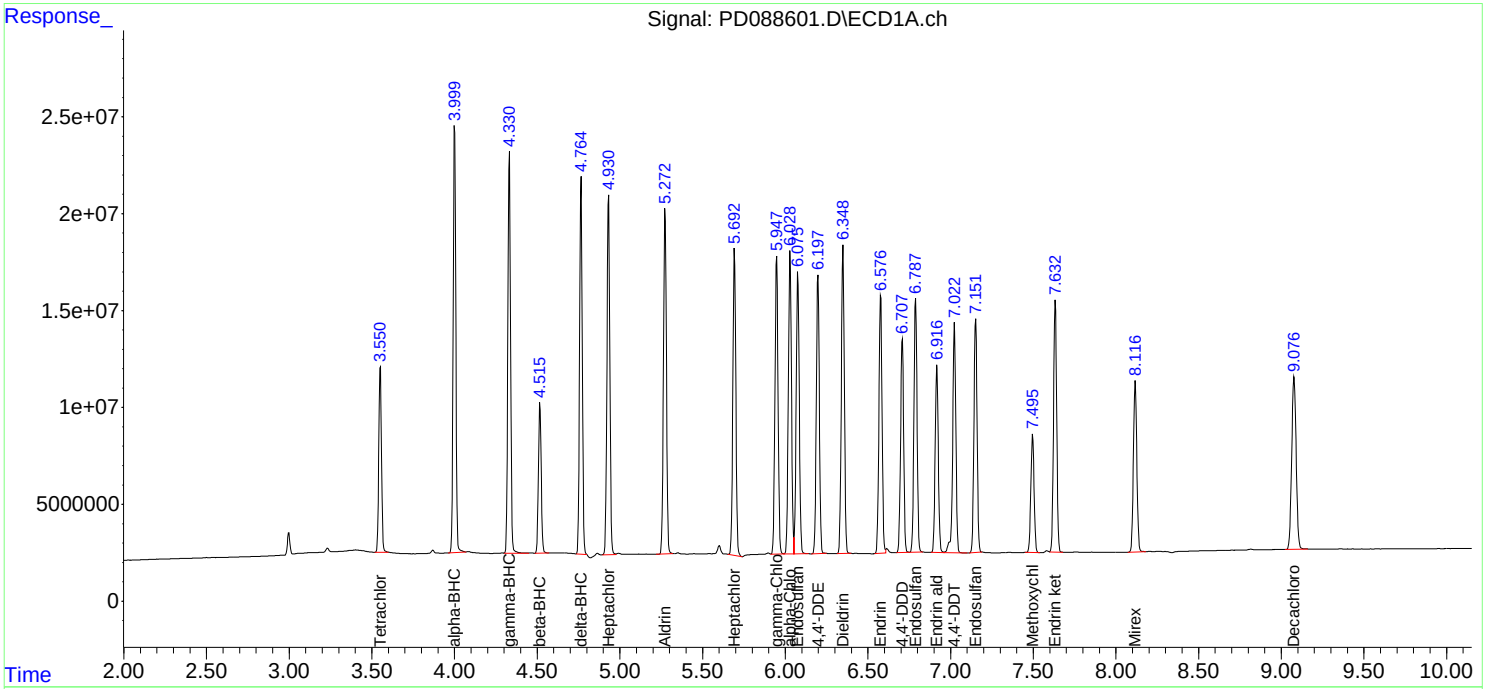
ICAL Form

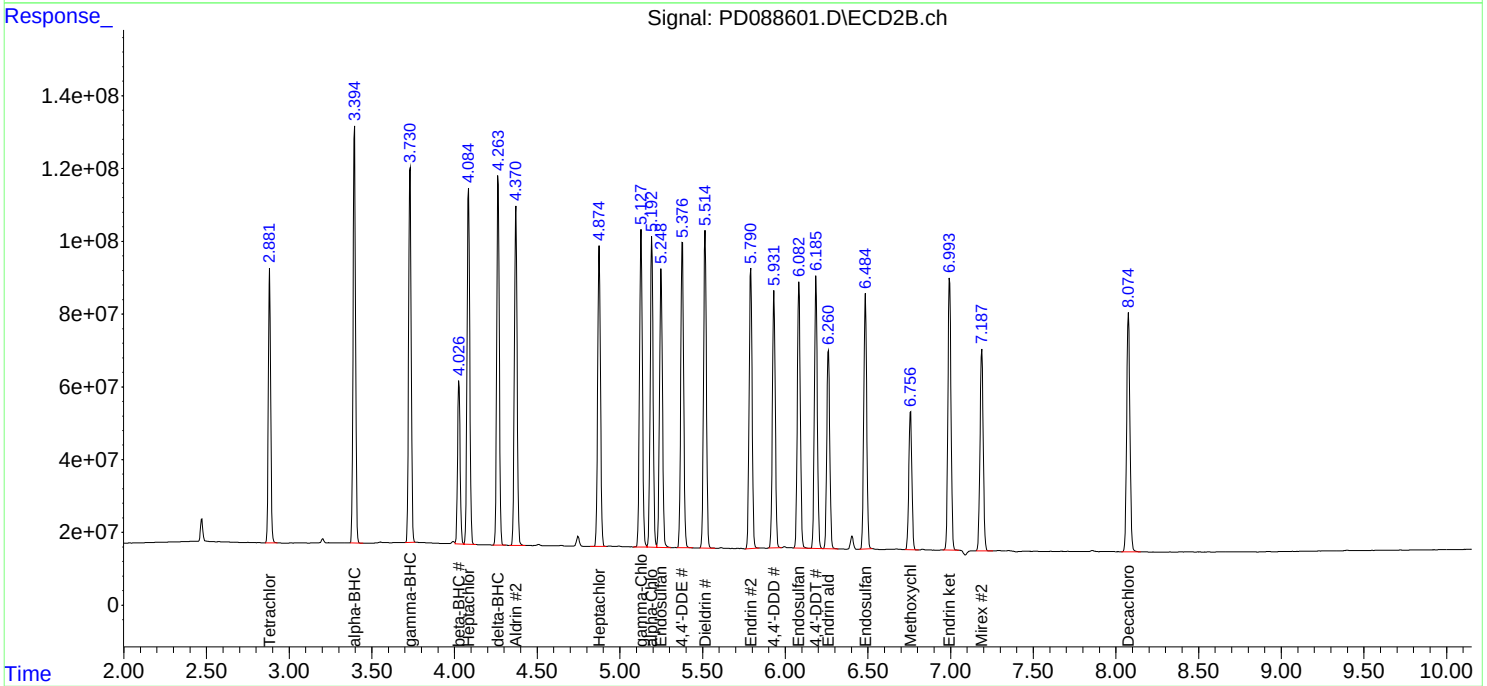
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088601.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 14:55
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
ICVPD051925

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 15:10:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088602.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 15:08
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
ICVPD051925CHLOR

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 15:23:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:23:27 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	105.8E6	929.1E6	49.958	51.013
28)	SA Decachlor...	9.078	8.076	163.2E6	899.0E6	48.766	49.654
	Target Compounds						
23)	Chlordane-1	4.715	3.907	89358888	415.0E6	495.872m	502.169
24)	Chlordane-2	5.243	4.489	90725715	423.3E6	494.404	501.504
25)	Chlordane-3	5.949	5.128	373.8E6	1296.4E6	505.210	491.657
26)	Chlordane-4	6.035	5.192	448.3E6	1105.4E6	500.287	499.628
27)	Chlordane-5	6.874	6.093	76696955	508.1E6	504.131	507.635

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

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088602.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 15:08
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 21 Sample Multiplier: 1

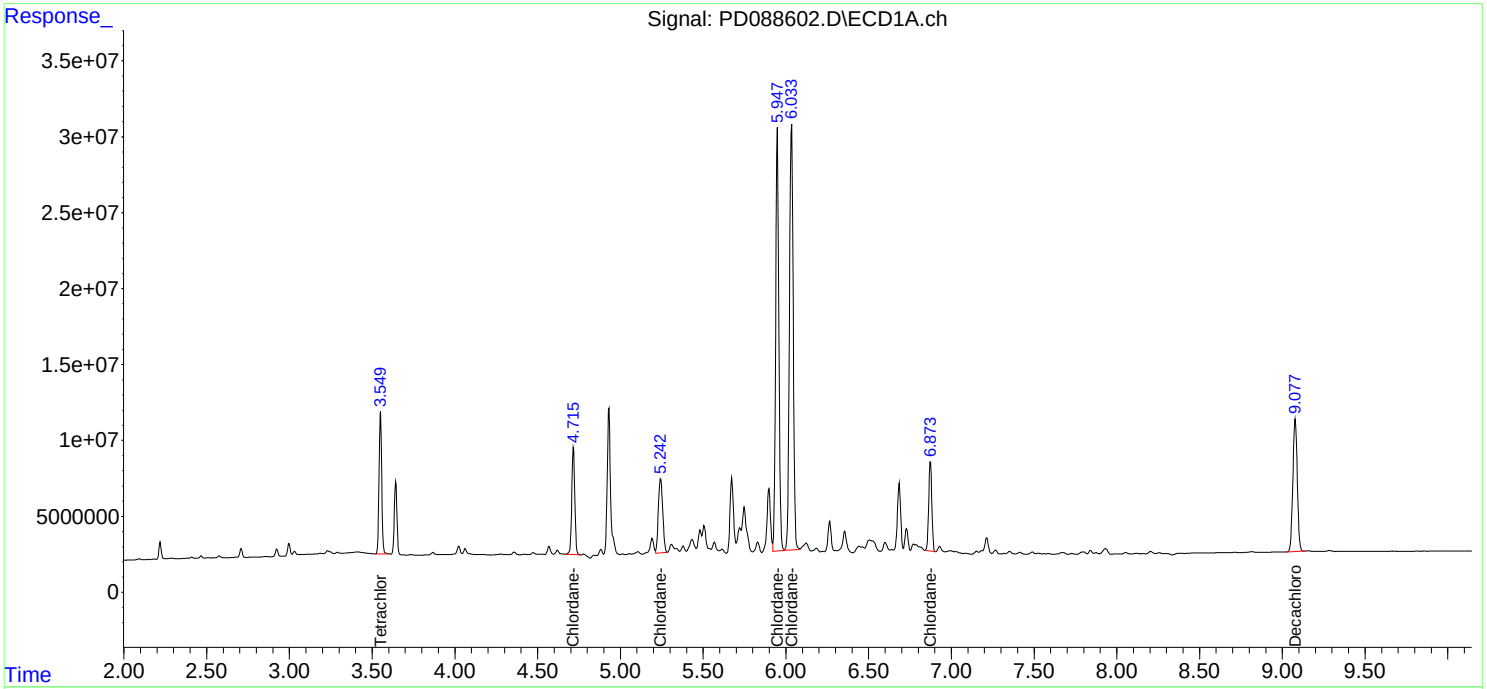
Instrument :
ECD_D
ClientSampleId :
ICVPD051925CHLOR

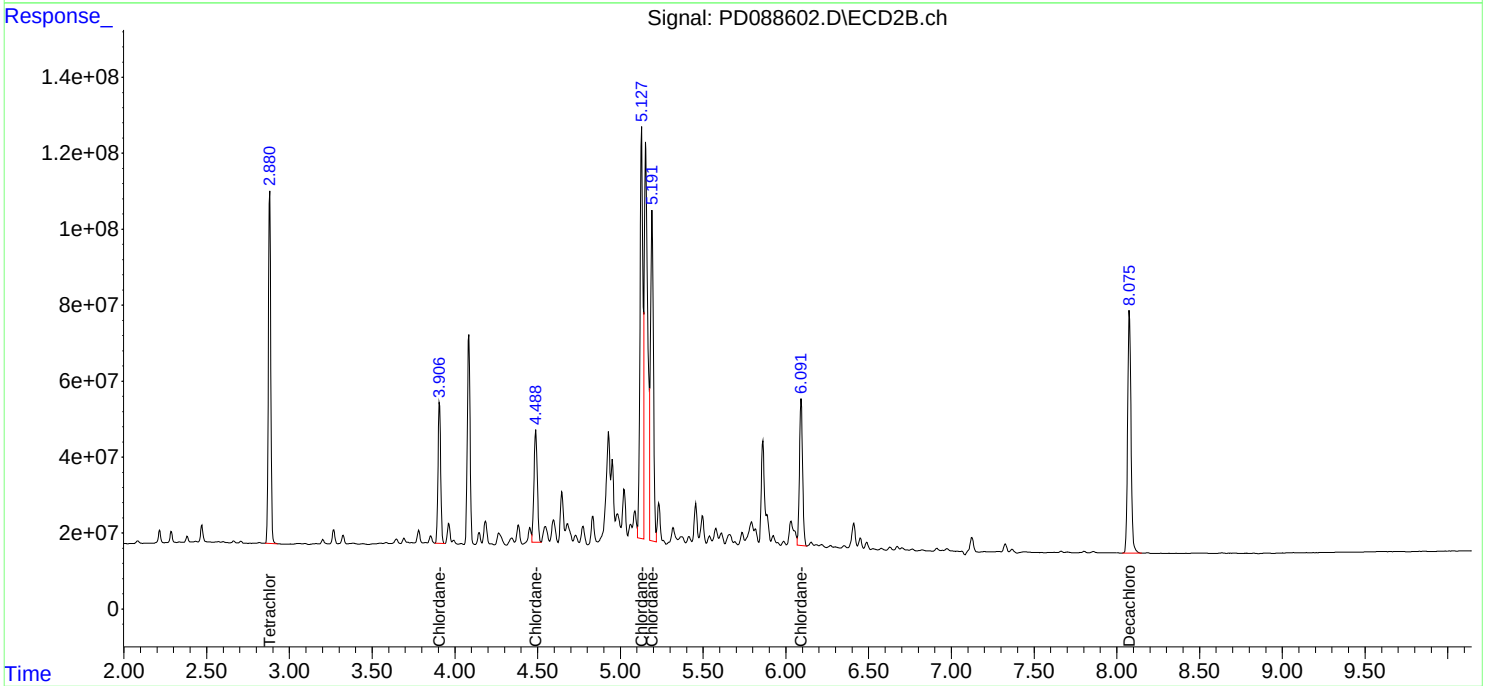
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 15:23:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:23:27 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088603.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 15:22
Operator : AR\AJ
Sample : PTOXICV500
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
ICVPD051925TOX

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 15:32:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 14:50:59 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. Signal #2 Info : 30M x 0.32mm x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.551	2.882	109.9E6	760.5E6	48.865	48.244
7) SA	Decachlor...	9.078	8.076	168.7E6	904.3E6	47.896	48.037
	Target Compounds						
2)	Toxaphene-1	6.244	5.478	13709332	69760879	496.296	486.606
3)	Toxaphene-2	6.444	5.649	19243908	48559753	495.137	487.496
4)	Toxaphene-3	7.151	6.759	36753246	223.0E6	496.602	493.875
5)	Toxaphene-4	7.566	7.201	47802427	160.0E6	507.285	497.043
6)	Toxaphene-5	7.932	7.333	26640764	111.6E6	493.508	521.438

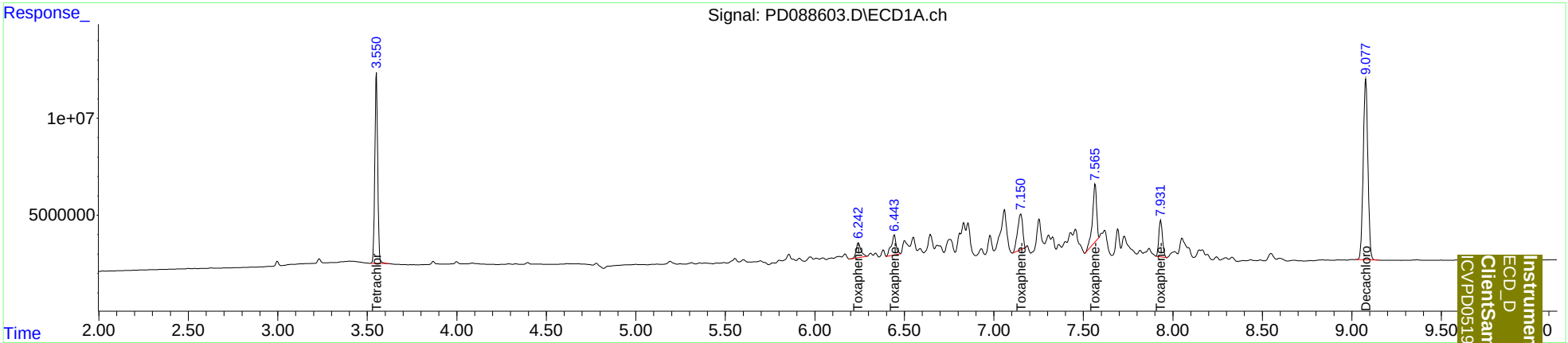
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088603.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 15:22
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: May 19 15:32:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 14:50:59 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. Signal #2 Info : 30M x 0.32mm x0.25µm



Raw Data: **PD088822.D**

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.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 10:44 **Initial Calibration Time(s):** 11:31 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
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

Raw Data: **PD088822.D**

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.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 10:44 **Initial Calibration Time(s):** 11:31 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	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	4.87	4.88	4.78	4.98	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01

Raw Data: **PD088822.D**

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.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL01 **Date Analyzed:** 06/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088822.D **Time Analyzed:** 10:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.073	8.977	9.177	52.790	50.000	5.6
Endrin	6.575	6.477	6.677	54.680	50.000	9.4
gamma-BHC (Lindane)	4.330	4.232	4.432	54.180	50.000	8.4
Heptachlor	4.929	4.832	5.032	55.030	50.000	10.1
Heptachlor epoxide	5.691	5.593	5.793	53.970	50.000	7.9
Methoxychlor	7.494	7.395	7.595	54.010	50.000	8.0
Tetrachloro-m-xylene	3.549	3.451	3.651	57.870	50.000	15.7

Raw Data: **PD088822.D**

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.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL01 **Date Analyzed:** 06/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088822.D **Time Analyzed:** 10:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.072	7.977	8.177	48.910	50.000	-2.2
Endrin	5.789	5.692	5.892	46.190	50.000	-7.6
gamma-BHC (Lindane)	3.728	3.631	3.831	47.180	50.000	-5.6
Heptachlor	4.082	3.985	4.185	46.540	50.000	-6.9
Heptachlor epoxide	4.872	4.775	4.975	46.860	50.000	-6.3
Methoxychlor	6.754	6.658	6.858	45.820	50.000	-8.4
Tetrachloro-m-xylene	2.879	2.782	2.982	47.210	50.000	-5.6

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088822.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 10:44
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:51:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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...	3.549	2.879	125.2E6	714.1E6	57.870	47.209
28)	SA	Decachlor...	9.073	8.072	180.7E6	892.9E6	52.794	48.906
		Target Compounds						
2)	A	alpha-BHC	3.998	3.392	262.5E6	1128.9E6	54.959	47.228
3)	MA	gamma-BHC...	4.330	3.728	249.4E6	1045.7E6	54.184	47.176
4)	MA	Heptachlor	4.929	4.082	246.0E6	1045.1E6	55.029	46.544
5)	MB	Aldrin	5.271	4.368	236.5E6	1068.7E6	53.826	48.734
6)	B	beta-BHC	4.515	4.024	96778092	447.1E6	53.672	45.899
7)	B	delta-BHC	4.763	4.261	242.1E6	1050.4E6	57.298	47.117
8)	B	Heptachlo...	5.691	4.872	214.2E6	931.3E6	53.968	46.864
9)	A	Endosulfan I	6.075	5.246	199.5E6	813.1E6	53.007	42.845
10)	B	gamma-Chl...	5.946	5.125	211.9E6	1007.1E6	53.127	47.212
11)	B	alpha-Chl...	6.027	5.190	213.9E6	965.3E6	53.398	46.804
12)	B	4,4'-DDE	6.196	5.374	192.3E6	980.7E6	53.562	46.916m
13)	MA	Dieldrin	6.348	5.512	213.4E6	982.6E6	53.189	46.691
14)	MA	Endrin	6.575	5.789	186.7E6	890.7E6	54.682	46.189
15)	B	Endosulfa...	6.786	6.079	182.2E6	870.5E6	52.917	47.511m
16)	A	4,4'-DDD	6.705	5.930	156.1E6	813.8E6	56.036	46.793
17)	MA	4,4'-DDT	7.021	6.183	170.6E6	874.3E6	54.647	48.204
18)	B	Endrin al...	6.915	6.259	135.5E6	650.3E6	52.641	46.685
19)	B	Endosulfa...	7.150	6.482	169.0E6	827.5E6	52.757	46.606
20)	A	Methoxychlor	7.494	6.754	90232632	438.7E6	54.014	45.821
21)	B	Endrin ke...	7.630	6.991	182.9E6	914.3E6	53.420	47.259
22)		Mirex	8.114	7.185	136.4E6	727.2E6	52.505	47.834

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088822.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 10:44
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

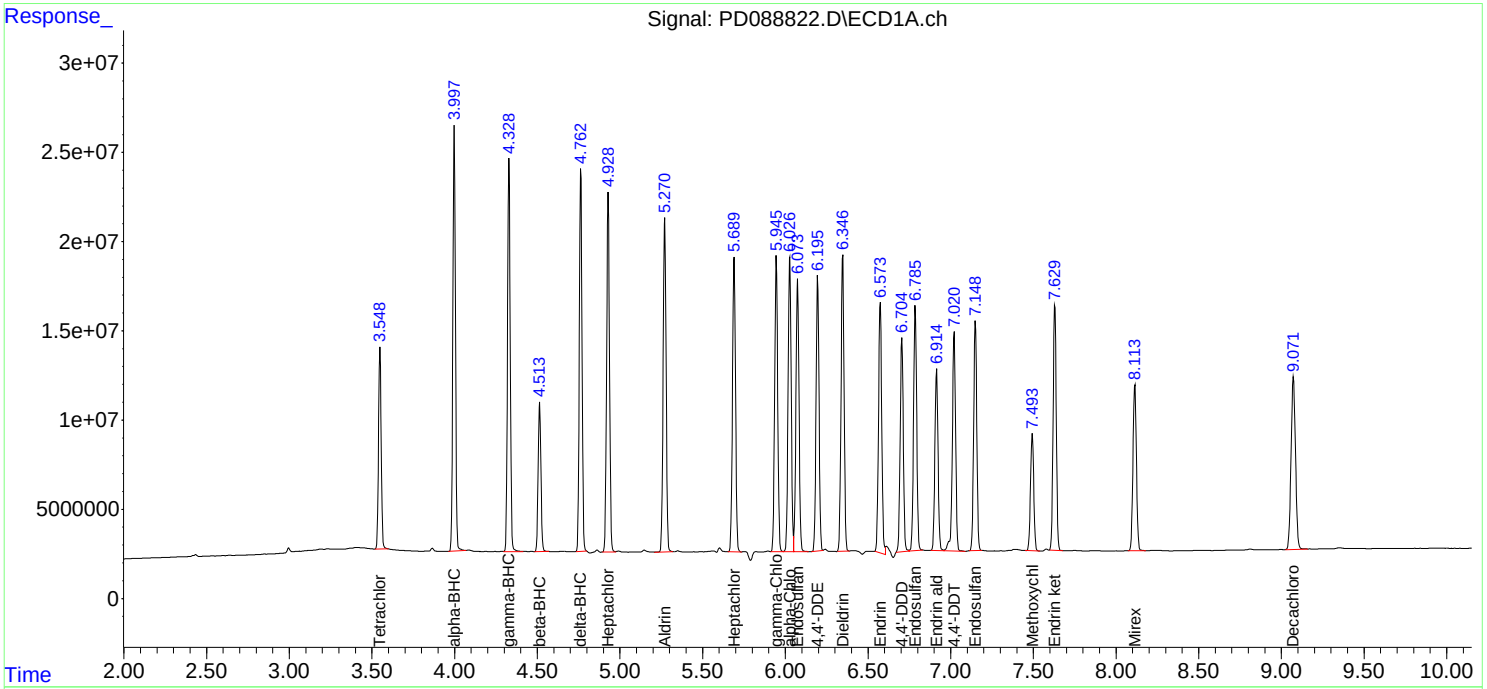
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

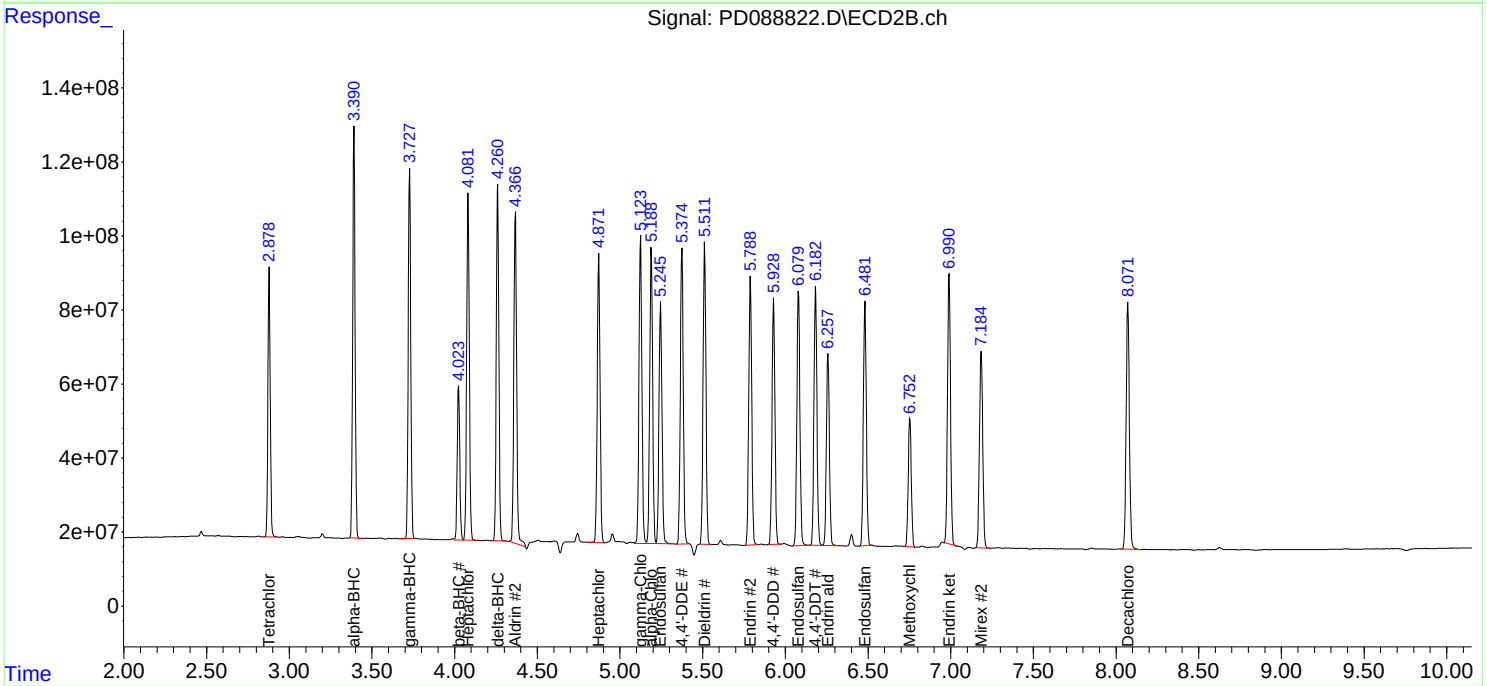
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:51:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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





Raw Data: **PD088841.D**

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.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 15:44 **Initial Calibration Time(s):** 11:31 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
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	6.57	6.58	6.48	6.68	0.01
Methoxychlor	7.49	7.50	7.40	7.60	0.01

Raw Data: **PD088841.D**

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.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Continuing Calib Date: 06/09/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 15:44 **Initial Calibration Time(s):** 11:31 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	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	4.87	4.88	4.78	4.98	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01

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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.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL02 **Date Analyzed:** 06/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088841.D **Time Analyzed:** 15:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.074	8.977	9.177	52.910	50.000	5.8
Endrin	6.574	6.477	6.677	54.770	50.000	9.5
gamma-BHC (Lindane)	4.329	4.232	4.432	54.420	50.000	8.8
Heptachlor	4.929	4.832	5.032	54.980	50.000	10.0
Heptachlor epoxide	5.690	5.593	5.793	54.130	50.000	8.3
Methoxychlor	7.494	7.395	7.595	53.630	50.000	7.3
Tetrachloro-m-xylene	3.549	3.451	3.651	58.230	50.000	16.5

Raw Data: **PD088841.D**

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.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL02 **Date Analyzed:** 06/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088841.D **Time Analyzed:** 15:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.072	7.977	8.177	50.760	50.000	1.5
Endrin	5.789	5.692	5.892	48.240	50.000	-3.5
gamma-BHC (Lindane)	3.729	3.631	3.831	48.620	50.000	-2.8
Heptachlor	4.082	3.985	4.185	48.030	50.000	-3.9
Heptachlor epoxide	4.872	4.775	4.975	47.980	50.000	-4.0
Methoxychlor	6.754	6.658	6.858	48.510	50.000	-3.0
Tetrachloro-m-xylene	2.879	2.782	2.982	48.610	50.000	-2.8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088841.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 15:44
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 10 01:42:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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...	3.549	2.879	126.0E6	735.2E6	58.227	48.605
28)	SA	Decachlor...	9.074	8.072	181.1E6	926.6E6	52.913	50.757
		Target Compounds						
2)	A	alpha-BHC	3.998	3.392	263.8E6	1162.8E6	55.228	48.646
3)	MA	gamma-BHC...	4.329	3.729	250.5E6	1077.8E6	54.419	48.625
4)	MA	Heptachlor	4.929	4.082	245.8E6	1078.5E6	54.977	48.029
5)	MB	Aldrin	5.271	4.367	238.7E6	1061.2E6	54.307	48.390m
6)	B	beta-BHC	4.514	4.024	97293119	458.6E6	53.957	47.077
7)	B	delta-BHC	4.763	4.261	243.7E6	1081.4E6	57.662	48.506
8)	B	Heptachlo...	5.690	4.872	214.9E6	953.4E6	54.135	47.980
9)	A	Endosulfan I	6.074	5.246	200.3E6	829.4E6	53.231	43.703
10)	B	gamma-Chl...	5.945	5.125	213.6E6	1032.2E6	53.547	48.385
11)	B	alpha-Chl...	6.026	5.190	214.6E6	990.9E6	53.554	48.046
12)	B	4,4'-DDE	6.195	5.373	193.4E6	1009.2E6	53.870	48.280m
13)	MA	Dieldrin	6.346	5.512	214.6E6	1014.8E6	53.484	48.221
14)	MA	Endrin	6.574	5.789	187.1E6	930.3E6	54.771	48.244
15)	B	Endosulfa...	6.786	6.080	181.9E6	889.2E6	52.817	48.531
16)	A	4,4'-DDD	6.704	5.928	156.1E6	844.2E6	56.053	48.537
17)	MA	4,4'-DDT	7.021	6.183	168.8E6	898.6E6	54.054	49.545
18)	B	Endrin al...	6.915	6.258	137.6E6	680.1E6	53.450	48.827
19)	B	Endosulfa...	7.149	6.482	169.5E6	858.8E6	52.925	48.367
20)	A	Methoxychlor	7.494	6.754	89599389	464.5E6	53.635	48.508
21)	B	Endrin ke...	7.630	6.991	182.8E6	952.0E6	53.407	49.205
22)		Mirex	8.114	7.185	136.6E6	748.5E6	52.591	49.234

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

Sample Results: **PD088841.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088841.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 15:44
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

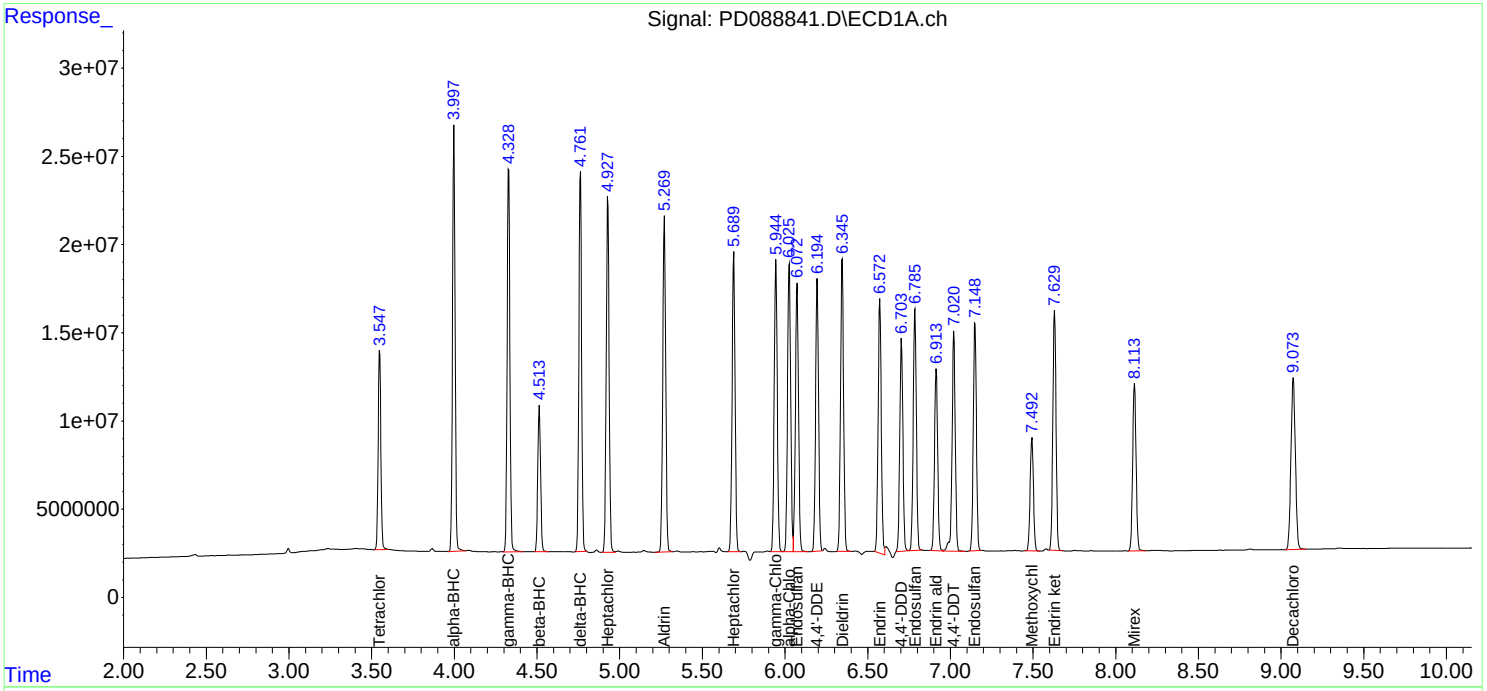
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

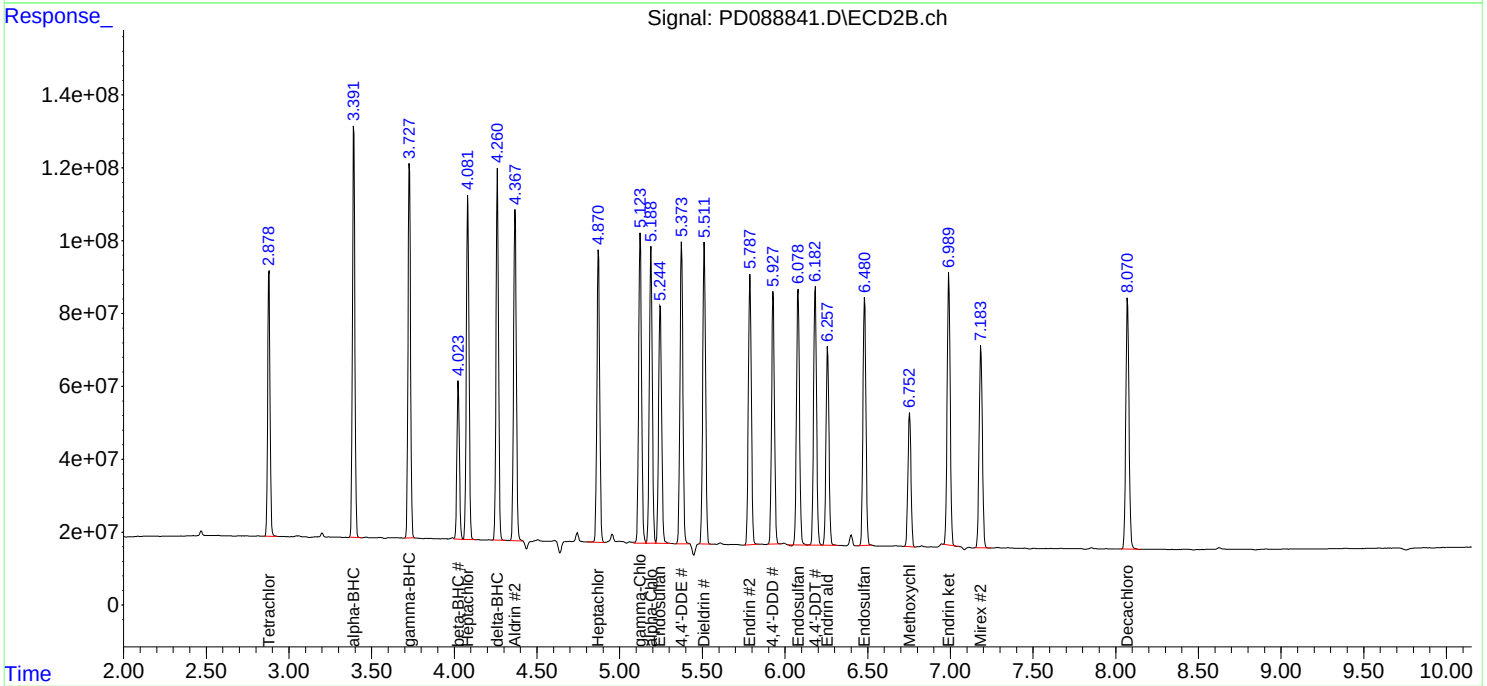
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 10 01:42:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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





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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088584.D **Date Analyzed:** 05/19/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:04

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.076	8.980	9.180	21.510	20.000	7.6
Tetrachloro-m-xylene	3.550	3.500	3.600	19.960	20.000	-0.2
alpha-BHC	3.999	3.950	4.050	9.120	10.000	-8.8
beta-BHC	4.516	4.470	4.570	10.260	10.000	2.6
gamma-BHC (Lindane)	4.331	4.280	4.380	9.460	10.000	-5.4
Endrin	6.576	6.510	6.650	50.860	50.000	1.7
4,4'-DDT	7.023	6.950	7.090	101.210	100.000	1.2
Methoxychlor	7.495	7.420	7.570	234.710	250.000	-6.1

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088584.D **Date Analyzed:** 05/19/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:04

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.980	8.180	20.960	20.000	4.8
Tetrachloro-m-xylene	2.881	2.830	2.930	20.340	20.000	1.7
alpha-BHC	3.394	3.340	3.440	10.570	10.000	5.7
beta-BHC	4.027	3.980	4.080	10.990	10.000	9.9
gamma-BHC (Lindane)	3.731	3.680	3.780	10.670	10.000	6.7
Endrin	5.792	5.720	5.860	48.470	50.000	-3.1
4,4'-DDT	6.186	6.120	6.260	95.100	100.000	-4.9
Methoxychlor	6.757	6.690	6.830	195.630	250.000	-21.7

PEM

Data File: PD088584.D **Date Acquired** 5/19/2025 11:04

Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down Down
Endrin	6.58	173685081.8	175498963.3	1813881.45	**1.03**
Endrin aldehyde	6.92	496243.147			
Endrin ketone	7.63	1317638.301			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.79	934754801	952277943.5	17523142.5	**1.84**
Endrin aldehyde #2	6.26	8463657.028			
Endrin ketone #2	6.99	9059485.439			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	315976412.5	316568194.8	591782.32	**0.19**
4,4'-DDE	0.00	0			
4,4'-DDD	6.70	591782.32			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.19	1724841287	1729650955	4809667.73	**0.28**
4,4'-DDE #2	0.00	0			
4,4'-DDD #2	5.93	4809667.734			

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088584.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:04
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 14:00:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 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	43185677	307.7E6	19.959	20.343
28) SA	Decachlor...	9.076	8.076	73616024	382.7E6	21.510	20.961
	Target Compounds						
2) A	alpha-BHC	3.999	3.394	43541198	252.7E6	9.116	10.572
3) MA	gamma-BHC...	4.331	3.731	43519433	236.4E6	9.455	10.667
6) B	beta-BHC	4.516	4.027	18494243	107.0E6	10.257	10.988
14) MA	Endrin	6.576	5.792	173.7E6	934.8E6	50.857	48.473
16) A	4,4'-DDD	6.705	5.935	591782	4809668	0.212m	0.277m#
17) MA	4,4'-DDT	7.023	6.186	316.0E6	1724.8E6	101.208	95.099
18) B	Endrin al...	6.919	6.258	496243	8463657	0.193m	0.608m#
20) A	Methoxychlor	7.495	6.757	392.1E6	1873.1E6	234.711	195.632
21) B	Endrin ke...	7.631	6.992	1317638	9059485	0.385m	0.468m

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

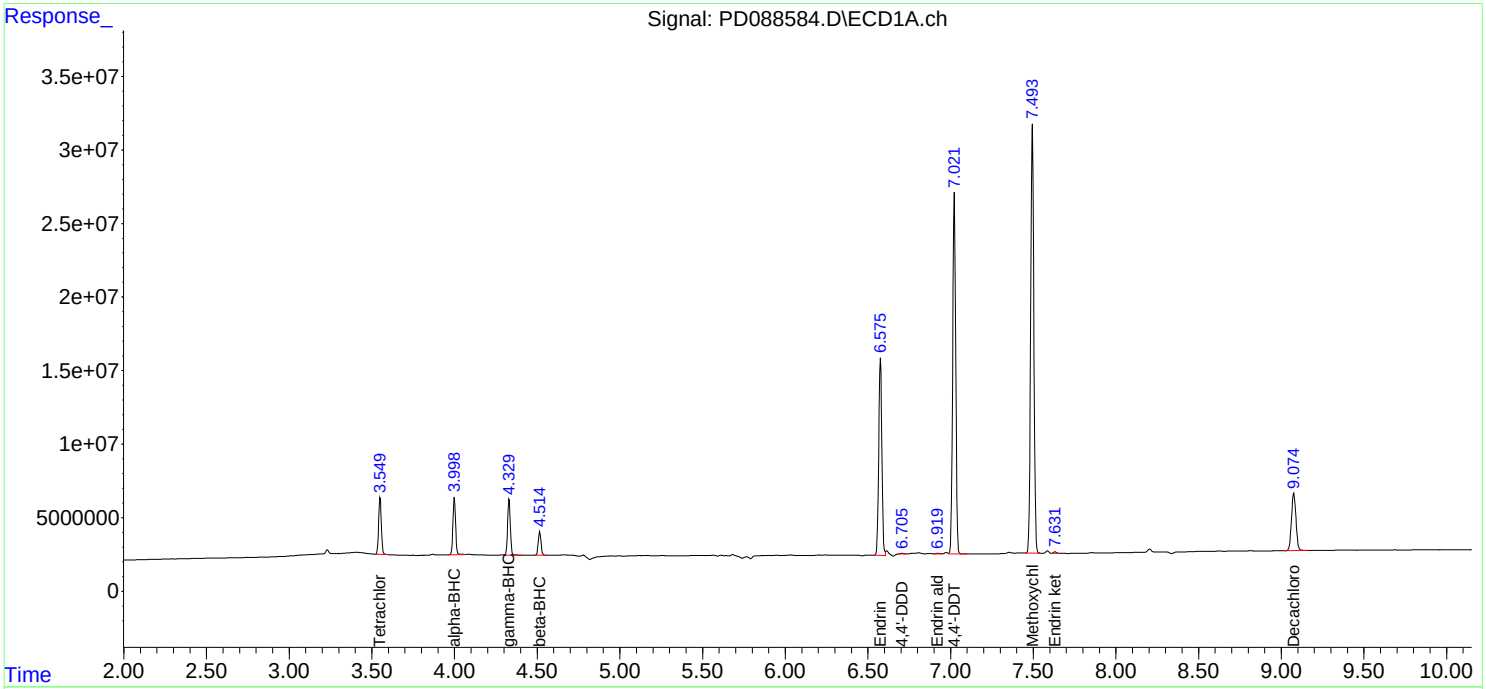
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088584.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:04
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

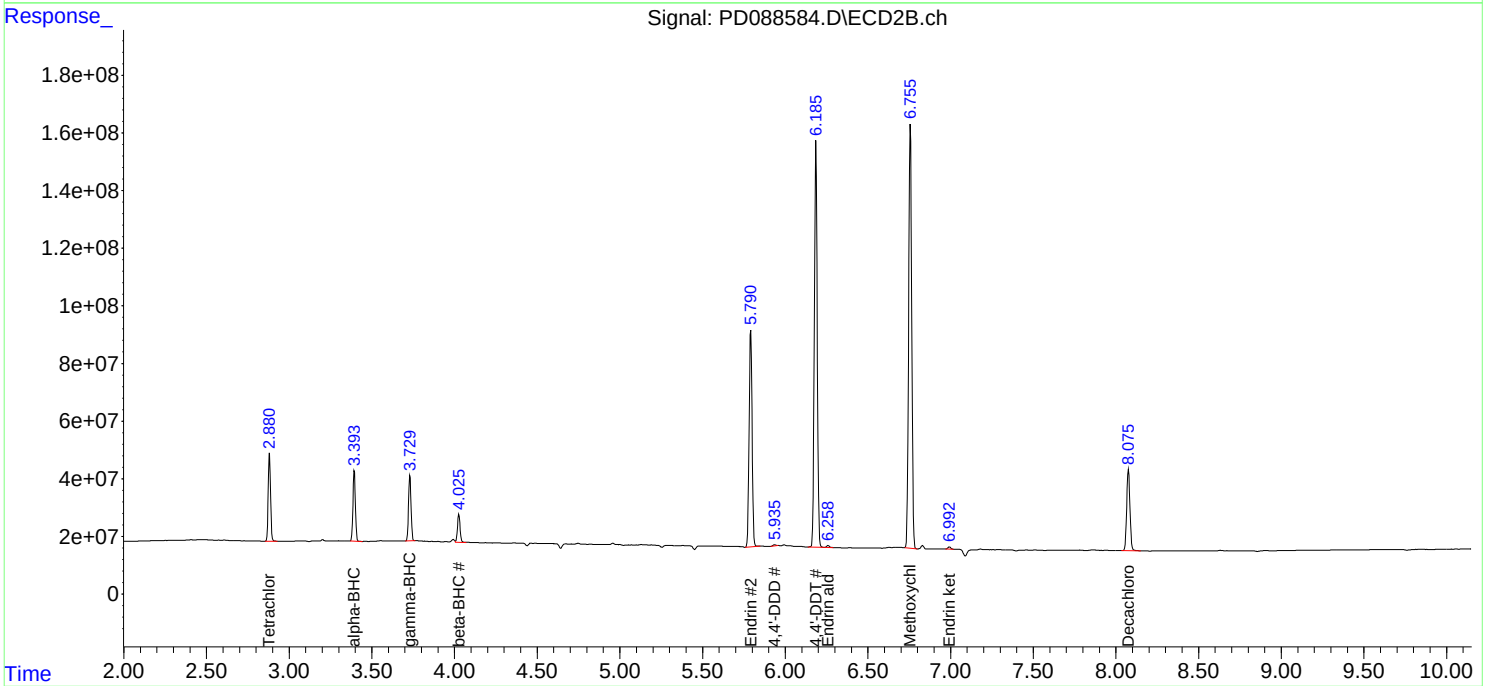
Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 14:00:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 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





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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088821.D **Date Analyzed:** 06/09/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:30

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.083	8.980	9.180	23.140	20.000	15.7
Tetrachloro-m-xylene	3.555	3.500	3.610	23.120	20.000	15.6
alpha-BHC	4.005	3.950	4.060	9.790	10.000	-2.1
beta-BHC	4.522	4.470	4.570	11.020	10.000	10.2
gamma-BHC (Lindane)	4.337	4.290	4.390	10.080	10.000	0.8
Endrin	6.582	6.510	6.650	53.120	50.000	6.2
4,4'-DDT	7.029	6.960	7.100	108.700	100.000	8.7
Methoxychlor	7.501	7.430	7.570	250.330	250.000	0.1

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088821.D **Date Analyzed:** 06/09/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:30

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.075	7.970	8.180	21.620	20.000	8.1
Tetrachloro-m-xylene	2.879	2.830	2.930	19.460	20.000	-2.7
alpha-BHC	3.392	3.340	3.440	10.090	10.000	0.9
beta-BHC	4.025	3.970	4.080	10.220	10.000	2.2
gamma-BHC (Lindane)	3.729	3.680	3.780	10.210	10.000	2.1
Endrin	5.790	5.720	5.860	45.540	50.000	-8.9
4,4'-DDT	6.185	6.110	6.260	91.970	100.000	-8.0
Methoxychlor	6.756	6.690	6.830	181.270	250.000	-27.5

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088821.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 10:30
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:50:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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...	3.555	2.879	50016794	294.4E6	23.116	19.463	
28)	SA Decachlor...	9.083	8.075	79208753	394.6E6	23.145	21.616	
	Target Compounds							
2)	A alpha-BHC	4.005	3.392	46762713	241.3E6	9.790	10.093	
3)	MA gamma-BHC...	4.337	3.729	46377773	226.2E6	10.076	10.206	
6)	B beta-BHC	4.522	4.025	19878074	99607023	11.024	10.225	
14)	MA Endrin	6.582	5.790	181.4E6	878.2E6	53.122	45.542	
16)	A 4,4'-DDD	6.711	5.932	1751336	10181150	0.629	0.585	
17)	MA 4,4'-DDT	7.029	6.185	339.4E6	1668.1E6	108.701	91.972	
18)	B Endrin al...	6.923	6.258	306967	9071158	0.119m	0.651	#
20)	A Methoxychlor	7.501	6.756	418.2E6	1735.6E6	250.327	181.269	#
21)	B Endrin ke...	7.636	6.992	1910975	14873371	0.558m	0.769	#

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088821.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 10:30
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

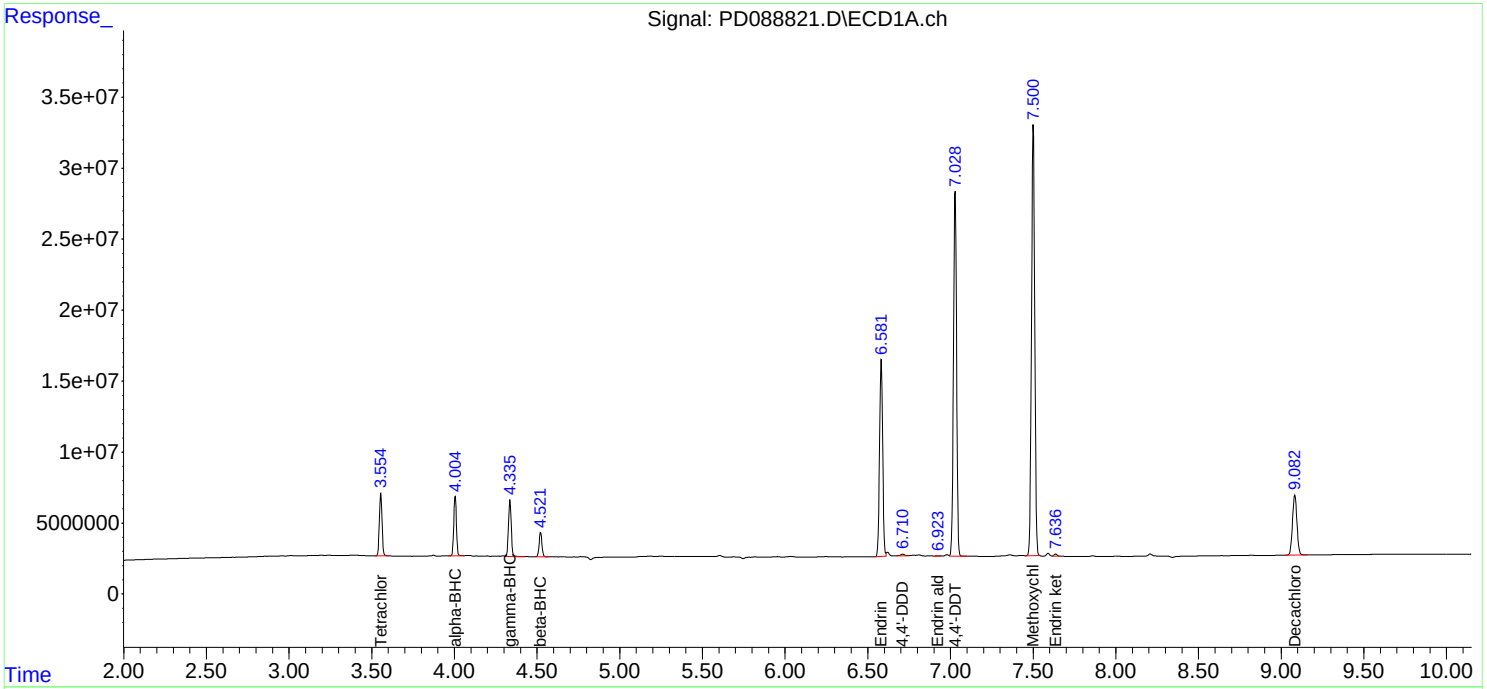
Instrument :
ECD_D
ClientSampleId :
PEM

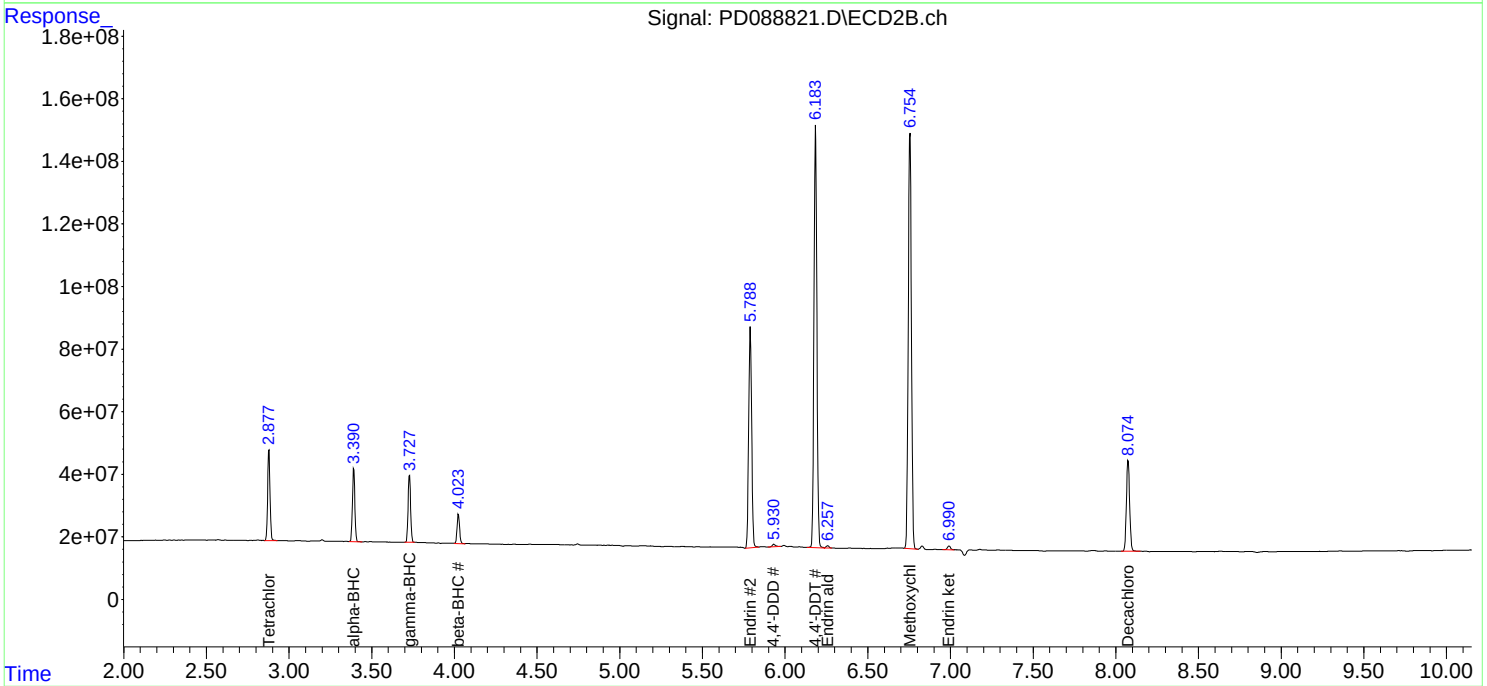
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:50:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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





Chromatographic Resolution Report

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088585.D
Acq On : 19 May 2025 11:17
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\PD051925.M
Title : GC Extractables
Last Update : Mon May 19 13:57:43 2025
Integrator: ChemStation

RT#1	RT#2	Resolution
3.550	5.948	100.00%
5.948	6.076	100.00%
6.076	6.198	100.00%
6.198	6.350	100.00%
6.350	7.152	100.00%
7.152	7.495	100.00%
7.495	7.633	100.00%
7.633	9.077	100.00%

Signal #2

2.881	5.128	100.00%
5.128	5.249	100.00%
5.249	5.377	100.00%
5.377	5.515	100.00%
5.515	6.485	100.00%
6.485	6.757	100.00%
6.757	6.994	100.00%
6.994	8.075	100.00%

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088585.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:17
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: May 19 14:00:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 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	41487143	300.1E6	19.174	19.836
28) SA	Decachlor...	9.077	8.075	69355454	365.4E6	20.266	20.017
	Target Compounds						
9) A	Endosulfan I	6.076	5.249	33273453	185.2E6	8.842	9.760
10) B	gamma-Chl...	5.948	5.128	36597267	220.9E6	9.175	10.355
12) B	4,4'-DDE	6.198	5.377	66676699	417.9E6	18.576	19.993
13) MA	Dieldrin	6.350	5.515	73699578	411.2E6	18.371	19.539
19) B	Endosulfa...	7.152	6.485	60919862	351.5E6	19.019	19.795
20) A	Methoxychlor	7.495	6.757	152.5E6	804.8E6	91.284	84.053
21) B	Endrin ke...	7.633	6.994	64436060	381.7E6	18.824	19.728

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

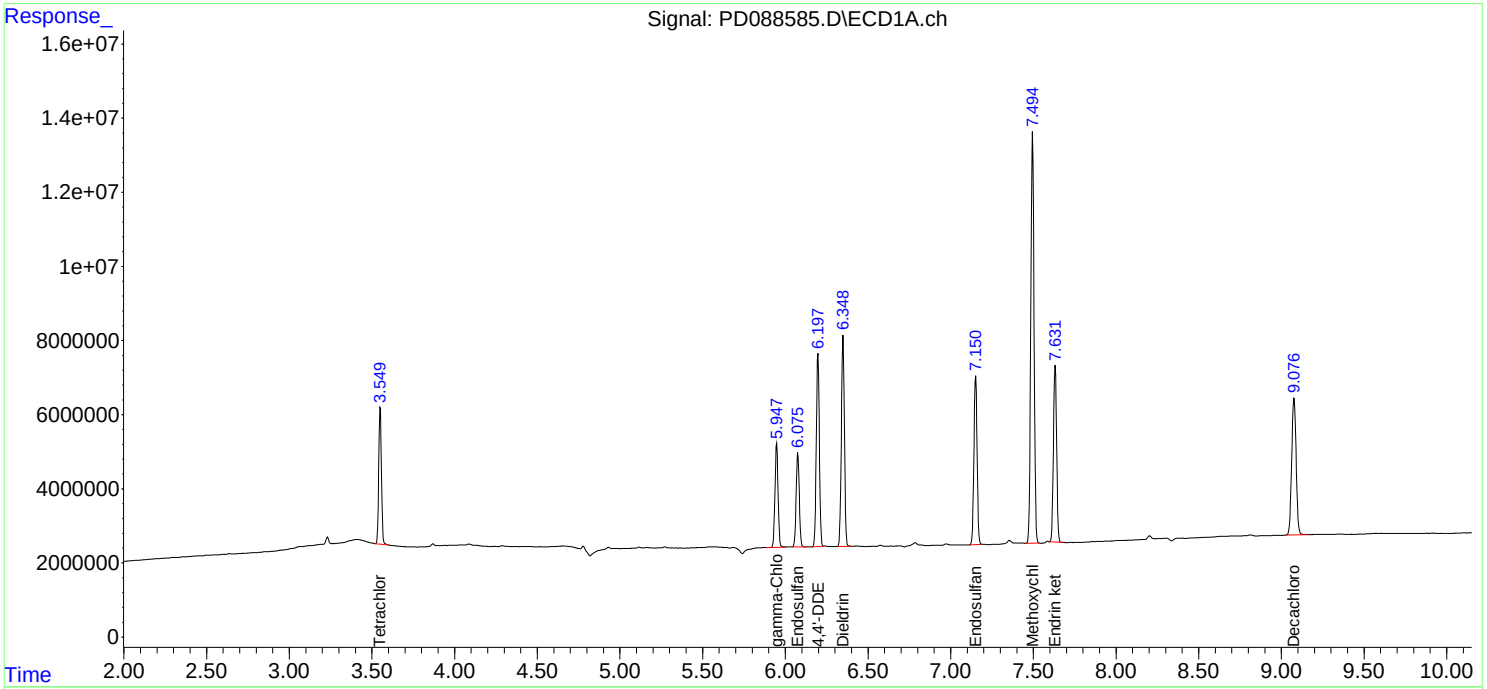
Quantitation Report (QT Reviewed)

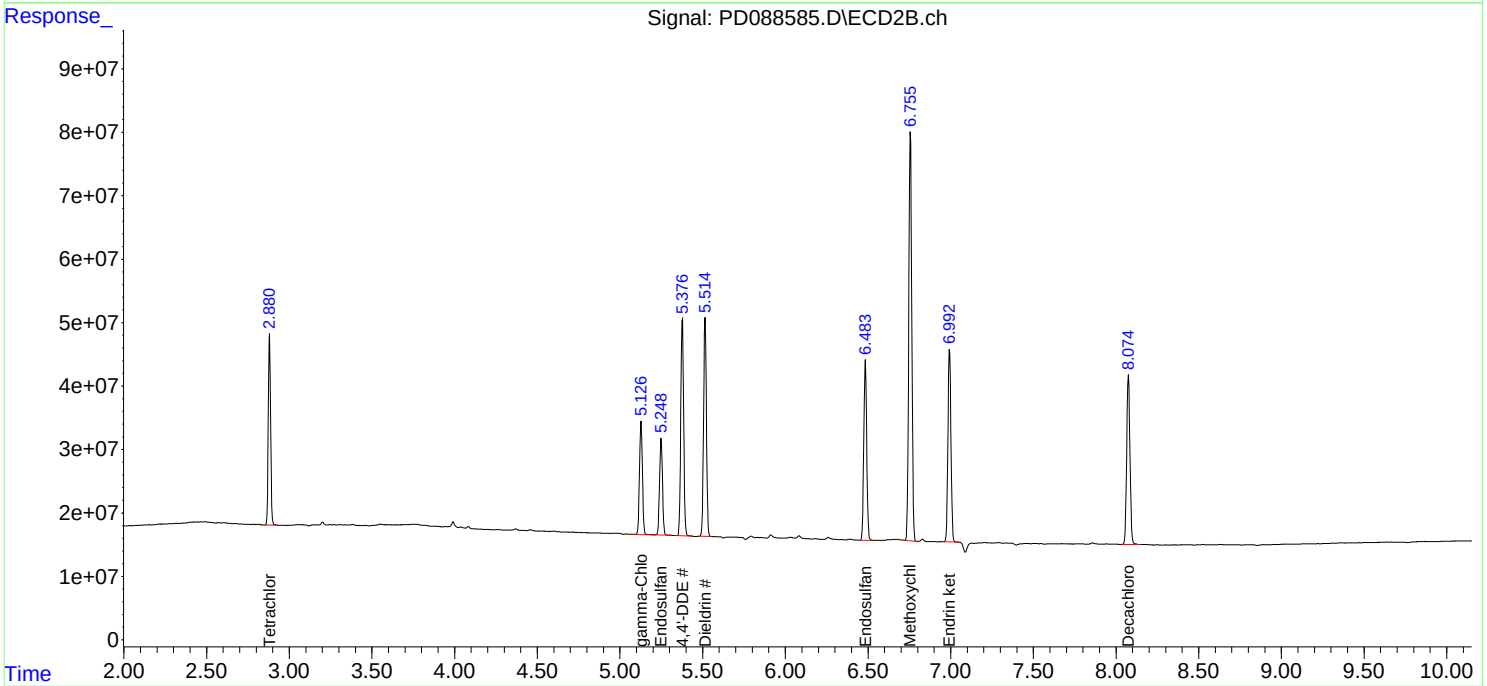
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088585.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:17
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
RESCHK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 14:00:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 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





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

Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_D

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/19/2025 05/19/2025

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 #
I.BLK	I.BLK	05/19/2025	10:50	PD088583.D	9.08	3.55
PEM	PEM	05/19/2025	11:04	PD088584.D	9.08	3.55
RESCHK	RESCHK	05/19/2025	11:17	PD088585.D	9.08	3.55
PSTDICC100	PSTDICC100	05/19/2025	11:31	PD088586.D	9.08	3.55
PSTDICC075	PSTDICC075	05/19/2025	11:45	PD088587.D	9.08	3.55
PSTDICC050	PSTDICC050	05/19/2025	11:58	PD088588.D	9.08	3.55
PSTDICC025	PSTDICC025	05/19/2025	12:12	PD088589.D	9.08	3.55
PSTDICC005	PSTDICC005	05/19/2025	12:25	PD088590.D	9.08	3.55
PCHLORICC500	PCHLORICC500	05/19/2025	13:06	PD088593.D	9.08	3.55
PTOXICC500	PTOXICC500	05/19/2025	14:14	PD088598.D	9.08	3.55
I.BLK	I.BLK	06/09/2025	08:50	PD088820.D	9.07	3.55
PEM	PEM	06/09/2025	10:30	PD088821.D	9.08	3.56
PSTDCCC050	PSTDCCC050	06/09/2025	10:44	PD088822.D	9.07	3.55
PB168330BL	PB168330BL	06/09/2025	13:14	PD088832.D	9.08	3.56
PB168330BS	PB168330BS	06/09/2025	13:28	PD088833.D	9.07	3.55
PB168271TB	PB168271TB	06/09/2025	13:44	PD088834.D	9.08	3.55
B-202-SB02	Q2198-02	06/09/2025	14:11	PD088836.D	9.07	3.55
B-207-SB02	Q2198-04	06/09/2025	14:25	PD088837.D	9.07	3.55
B-207-SB02MS	Q2198-04MS	06/09/2025	14:39	PD088838.D	9.07	3.55
B-207-SB02MSD	Q2198-04MSD	06/09/2025	14:53	PD088839.D	9.07	3.55
I.BLK	I.BLK	06/09/2025	15:30	PD088840.D	9.08	3.56
PSTDCCC050	PSTDCCC050	06/09/2025	15:44	PD088841.D	9.07	3.55

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

Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q2198

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_D

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 05/19/2025 05/19/2025

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 #
I.BLK	I.BLK	05/19/2025	10:50	PD088583.D	8.08	2.88
PEM	PEM	05/19/2025	11:04	PD088584.D	8.08	2.88
RESCHK	RESCHK	05/19/2025	11:17	PD088585.D	8.08	2.88
PSTDICC100	PSTDICC100	05/19/2025	11:31	PD088586.D	8.08	2.88
PSTDICC075	PSTDICC075	05/19/2025	11:45	PD088587.D	8.08	2.88
PSTDICC050	PSTDICC050	05/19/2025	11:58	PD088588.D	8.08	2.88
PSTDICC025	PSTDICC025	05/19/2025	12:12	PD088589.D	8.08	2.88
PSTDICC005	PSTDICC005	05/19/2025	12:25	PD088590.D	8.08	2.88
PCHLORICC500	PCHLORICC500	05/19/2025	13:06	PD088593.D	8.08	2.88
PTOXICC500	PTOXICC500	05/19/2025	14:14	PD088598.D	8.08	2.88
I.BLK	I.BLK	06/09/2025	08:50	PD088820.D	8.07	2.88
PEM	PEM	06/09/2025	10:30	PD088821.D	8.08	2.88
PSTDCCC050	PSTDCCC050	06/09/2025	10:44	PD088822.D	8.07	2.88
PB168330BL	PB168330BL	06/09/2025	13:14	PD088832.D	8.08	2.88
PB168330BS	PB168330BS	06/09/2025	13:28	PD088833.D	8.07	2.88
PB168271TB	PB168271TB	06/09/2025	13:44	PD088834.D	8.07	2.88
B-202-SB02	Q2198-02	06/09/2025	14:11	PD088836.D	8.07	2.88
B-207-SB02	Q2198-04	06/09/2025	14:25	PD088837.D	8.07	2.88
B-207-SB02MS	Q2198-04MS	06/09/2025	14:39	PD088838.D	8.07	2.88
B-207-SB02MSD	Q2198-04MSD	06/09/2025	14:53	PD088839.D	8.07	2.88
I.BLK	I.BLK	06/09/2025	15:30	PD088840.D	8.08	2.88
PSTDCCC050	PSTDCCC050	06/09/2025	15:44	PD088841.D	8.07	2.88

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-207-SB02MS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Lab Sample ID: Q2198-04MS **Date(s) Analyzed:** 06/09/2025 06/09/2025

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 FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.49	7.44	7.54	6.20	12
	2	6.75	6.70	6.80	5.50	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	6.30	15.4
	2	3.73	3.68	3.78	5.40	
Heptachlor	1	4.93	4.88	4.98	5.40	13.9
	2	4.08	4.03	4.13	4.70	
Heptachlor epoxide	1	5.69	5.64	5.74	6.10	12.2
	2	4.87	4.82	4.92	5.40	
Endrin	1	6.57	6.52	6.62	6.30	13.6
	2	5.79	5.74	5.84	5.50	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B-207-SB02MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Lab Sample ID: Q2198-04MSD **Date(s) Analyzed:** 06/09/2025 06/09/2025

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 FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.49	7.44	7.54	6.20	12
	2	6.75	6.70	6.80	5.50	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	6.40	15.1
	2	3.73	3.68	3.78	5.50	
Heptachlor	1	4.93	4.88	4.98	5.40	13.9
	2	4.08	4.03	4.13	4.70	
Heptachlor epoxide	1	5.69	5.64	5.74	6.10	12.2
	2	4.87	4.82	4.92	5.40	
Endrin	1	6.57	6.52	6.62	6.30	8.3
	2	5.79	5.74	5.84	5.80	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168330BS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q2198 **SAS No.:** Q2198 **SDG NO.:** Q2198

Lab Sample ID: PB168330BS **Date(s) Analyzed:** 06/09/2025 06/09/2025

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 FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.49	7.44	7.54	0.54	9.6
	2	6.75	6.70	6.80	0.49	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.53	6.8
	2	3.73	3.68	3.78	0.49	
Heptachlor	1	4.93	4.88	4.98	0.54	10.5
	2	4.08	4.03	4.13	0.48	
Heptachlor epoxide	1	5.69	5.64	5.74	0.53	8.3
	2	4.87	4.82	4.92	0.49	
Endrin	1	6.57	6.52	6.62	0.54	10.4
	2	5.79	5.74	5.84	0.48	

QC SAMPLE DATA

Raw Data: **PD088832.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168330BL	SDG No.:	Q2198
Lab Sample ID:	PB168330BL	Matrix:	TCLP
Analytical Method:	8081B	% 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
PD088832.D	1	06/06/25 12:32	06/09/25 13:14	PB168330

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	25.8		30 (57) - 150 (171)	129%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.1		30 (61) - 150 (148)	121%	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

Quantitation Report (QT Reviewed)

Sample Results: **PD088832.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 13:14
Operator : AR\AJ
Sample : PB168330BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168330BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:57:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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...	3.555	2.880	52203070	329.3E6	24.126	21.771
28)	SA Decachlor...	9.081	8.075	88127967	446.3E6	25.751	24.446
	Target Compounds						

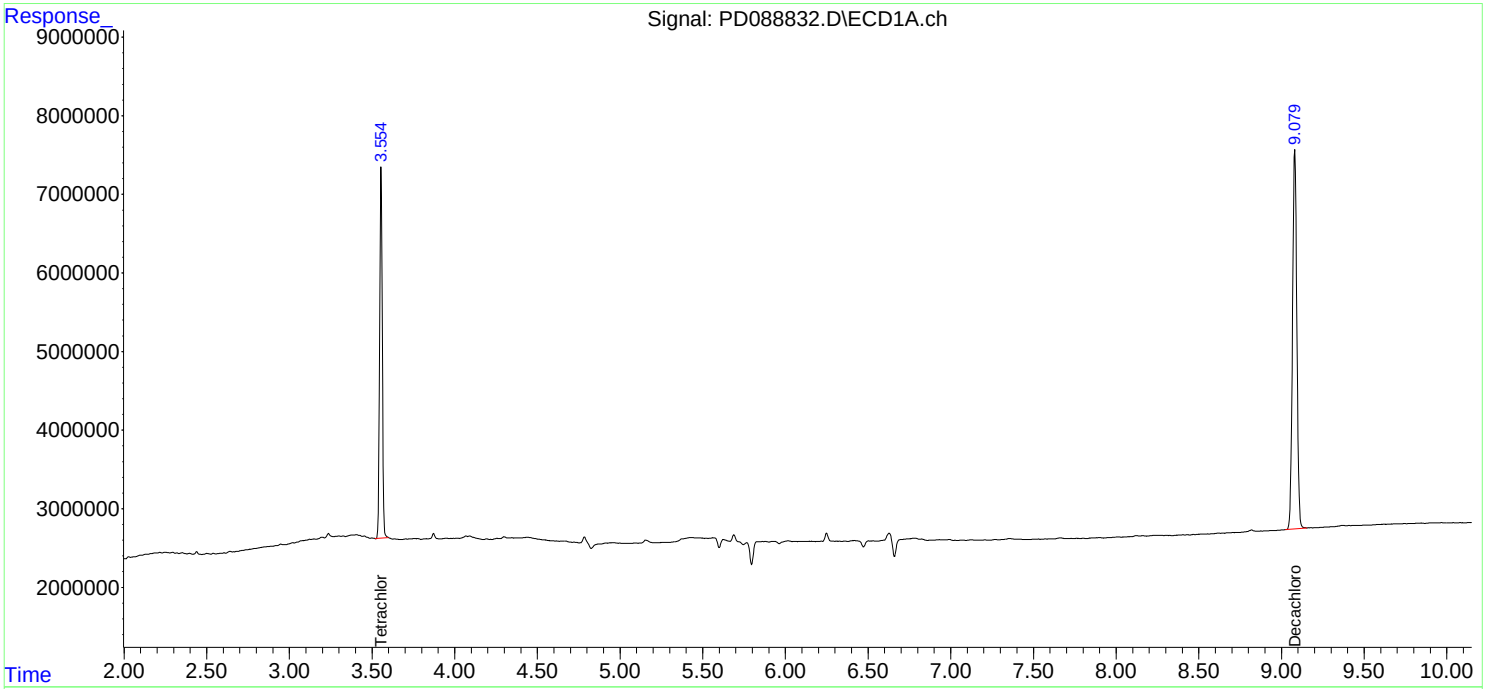
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

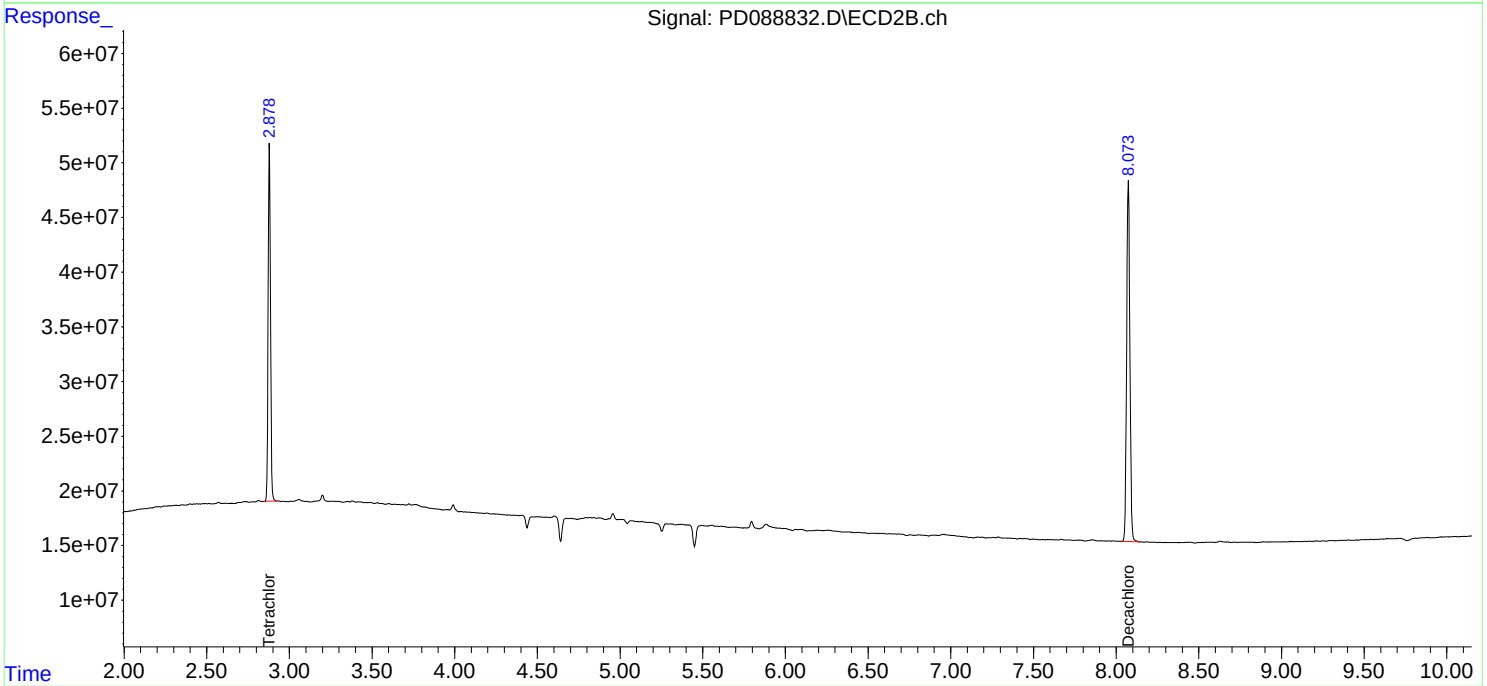
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088832.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 13:14
Operator : AR\AJ
Sample : PB168330BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

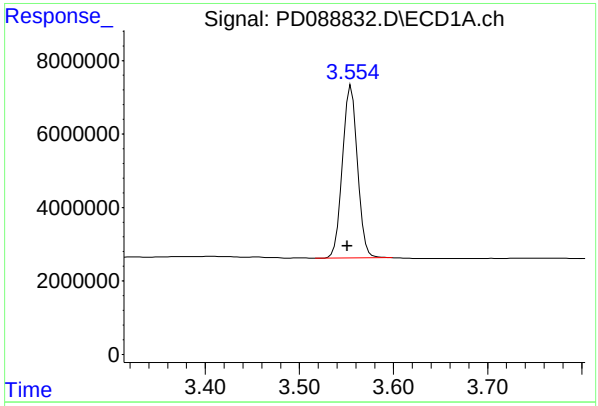
Instrument :
ECD_D
ClientSampleId :
PB168330BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:57:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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



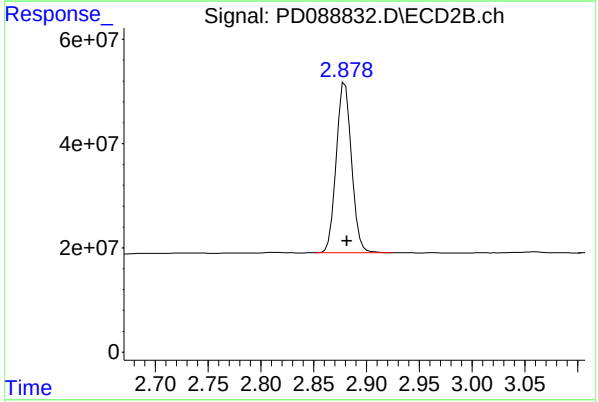




#1 Tetrachloro-m-xylene

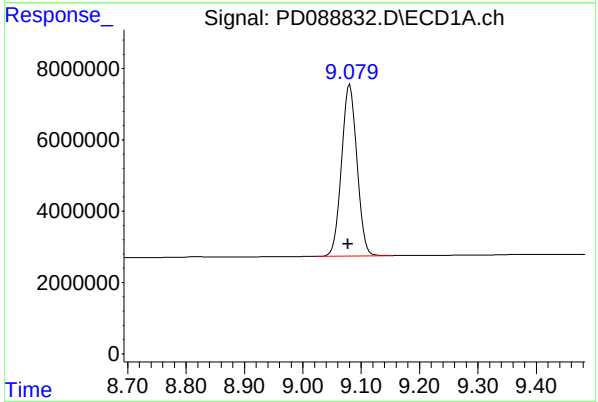
R.T.: 3.555 min
Delta R.T.: 0.004 min
Response: 52203070
Conc: 24.13 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB168330BL



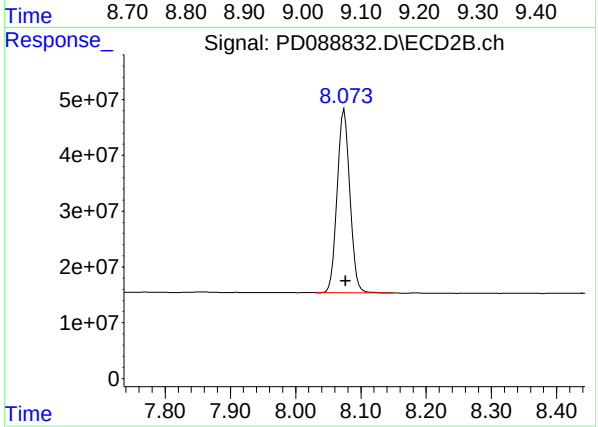
#1 Tetrachloro-m-xylene

R.T.: 2.880 min
Delta R.T.: -0.002 min
Response: 329330180
Conc: 21.77 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.081 min
Delta R.T.: 0.003 min
Response: 88127967
Conc: 25.75 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 446290877
Conc: 24.45 ng/ml

Raw Data: **PD088583.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/19/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	05/19/25
Client Sample ID:	PIBLK-PD088583.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PD088583.D	Matrix:	TCLP
Analytical Method:	8081B	% 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
PD088583.D	1		05/19/25	PD051925

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	18.4		30 (57) - 150 (171)	92%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.9		30 (61) - 150 (148)	84%	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

Quantitation Report (QT Reviewed)

Sample Results: **PD088583.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088583.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 10:50
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 19 13:59:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 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	2.882	35746806	254.9E6	16.521	16.853
28)	SA Decachlor...	9.076	8.075	63010697	329.2E6	18.412	18.033
	Target Compounds						

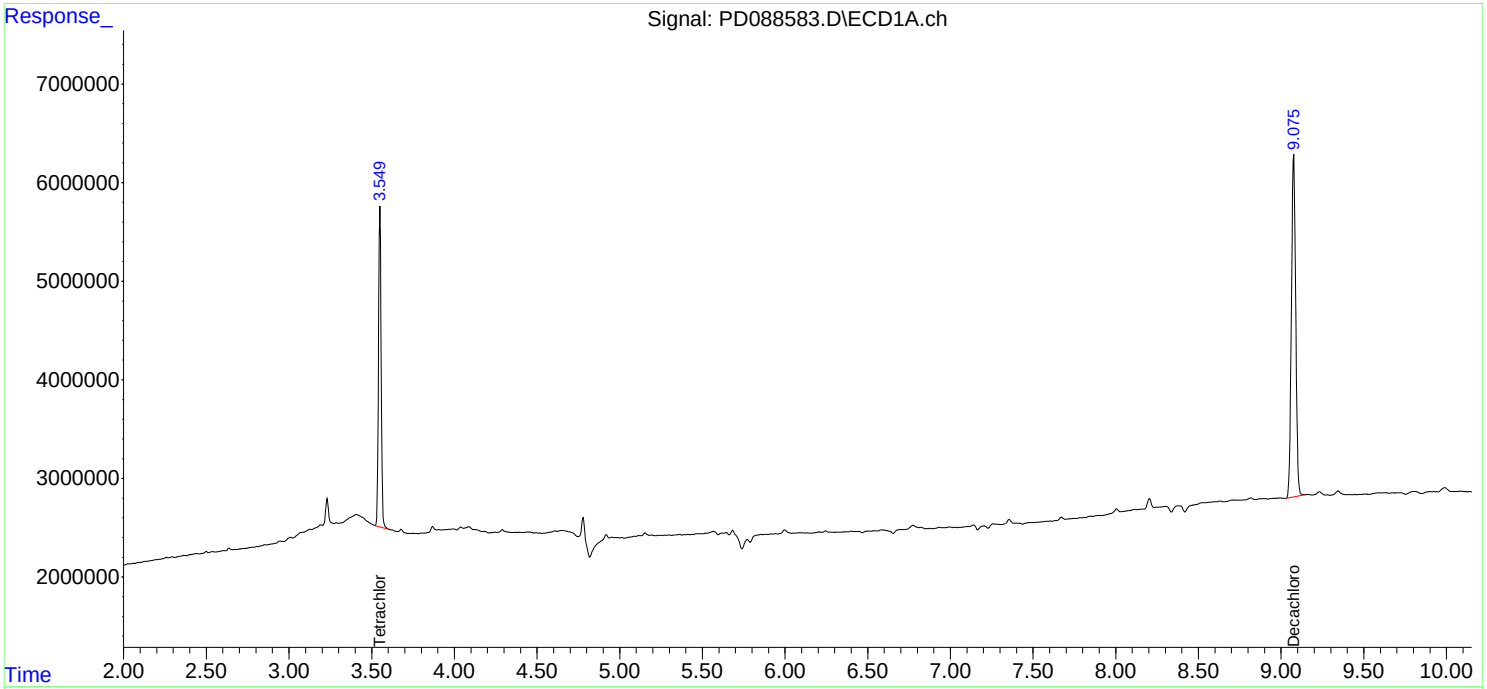
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

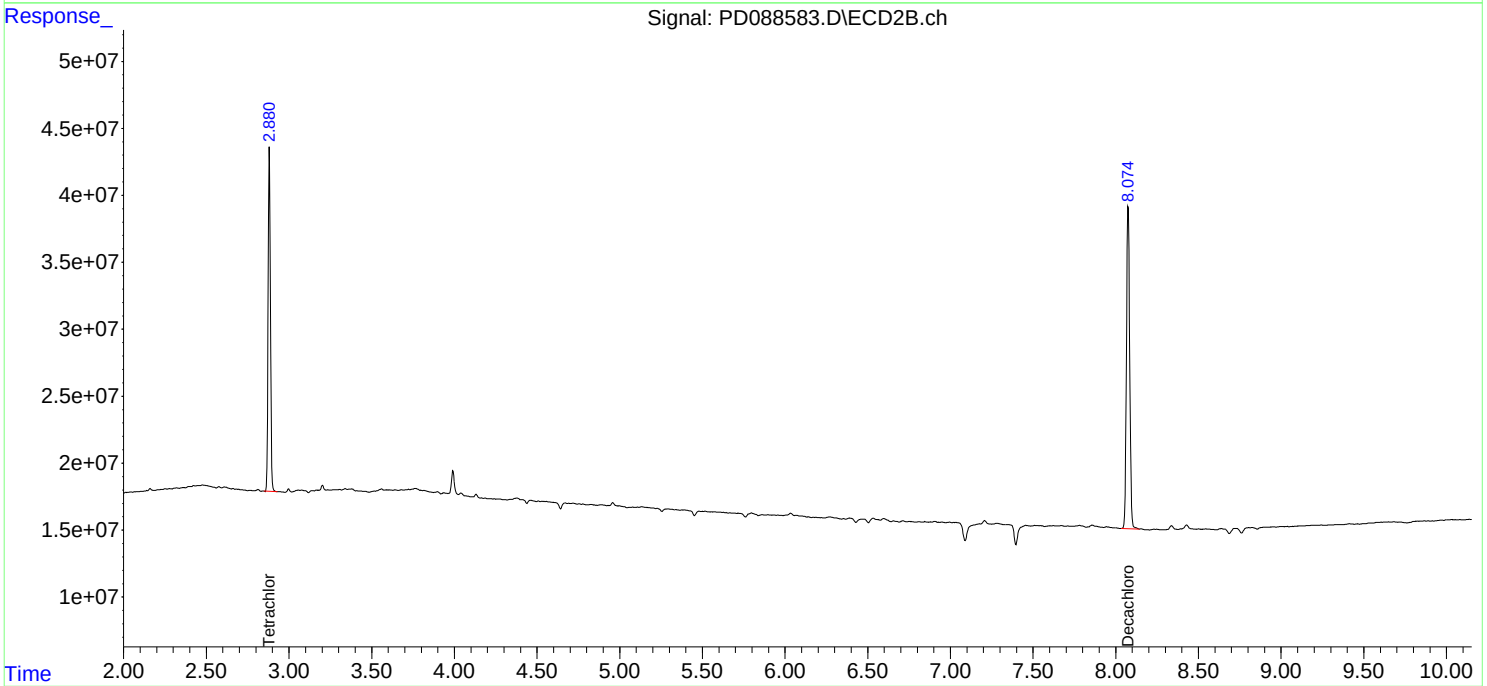
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088583.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 10:50
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

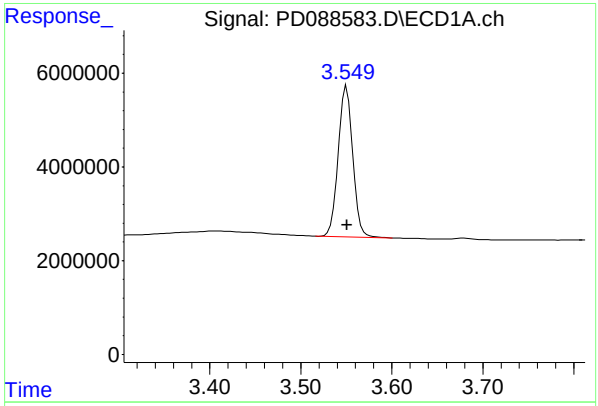
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 13:59:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 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



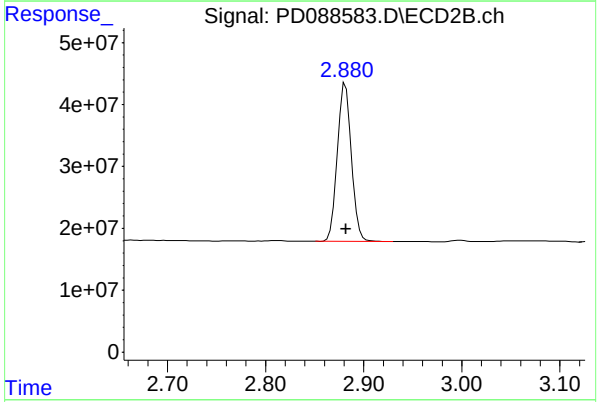




#1 Tetrachloro-m-xylene

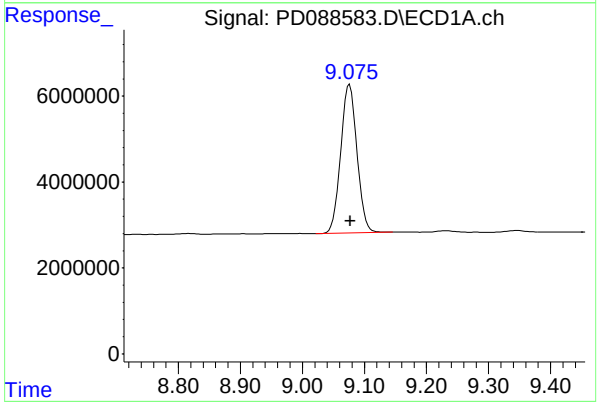
R.T.: 3.550 min
Delta R.T.: 0.000 min
Response: 35746806
Conc: 16.52 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



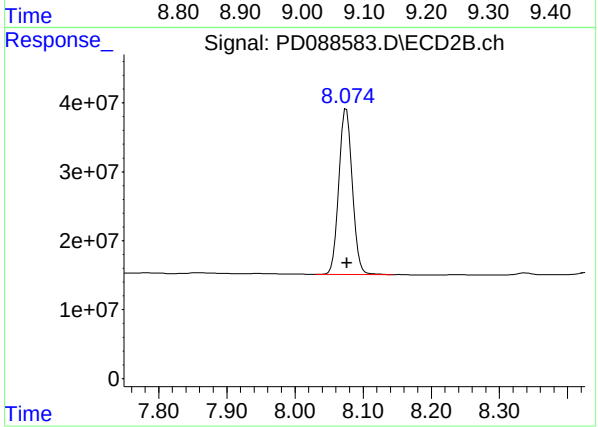
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 254929040
Conc: 16.85 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.001 min
Response: 63010697
Conc: 18.41 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.001 min
Response: 329217471
Conc: 18.03 ng/ml

Raw Data: **PD088820.D**

Alliance TECHNICAL GROUP

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/09/25
Client Sample ID:	PIBLK-PD088820.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PD088820.D	Matrix:	TCLP
Analytical Method:	8081B	% 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
PD088820.D	1		06/09/25	Pd060925

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	24.1		30 (57) - 150 (171)	120%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.7		30 (61) - 150 (148)	119%	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\PD060925\
Data File : PD088820.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 08:50
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: Jun 09 13:49:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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...	3.548	2.879	51276693	323.6E6	23.698	21.393
28)	SA Decachlor...	9.074	8.072	82453439	420.0E6	24.093	23.006
	Target Compounds						

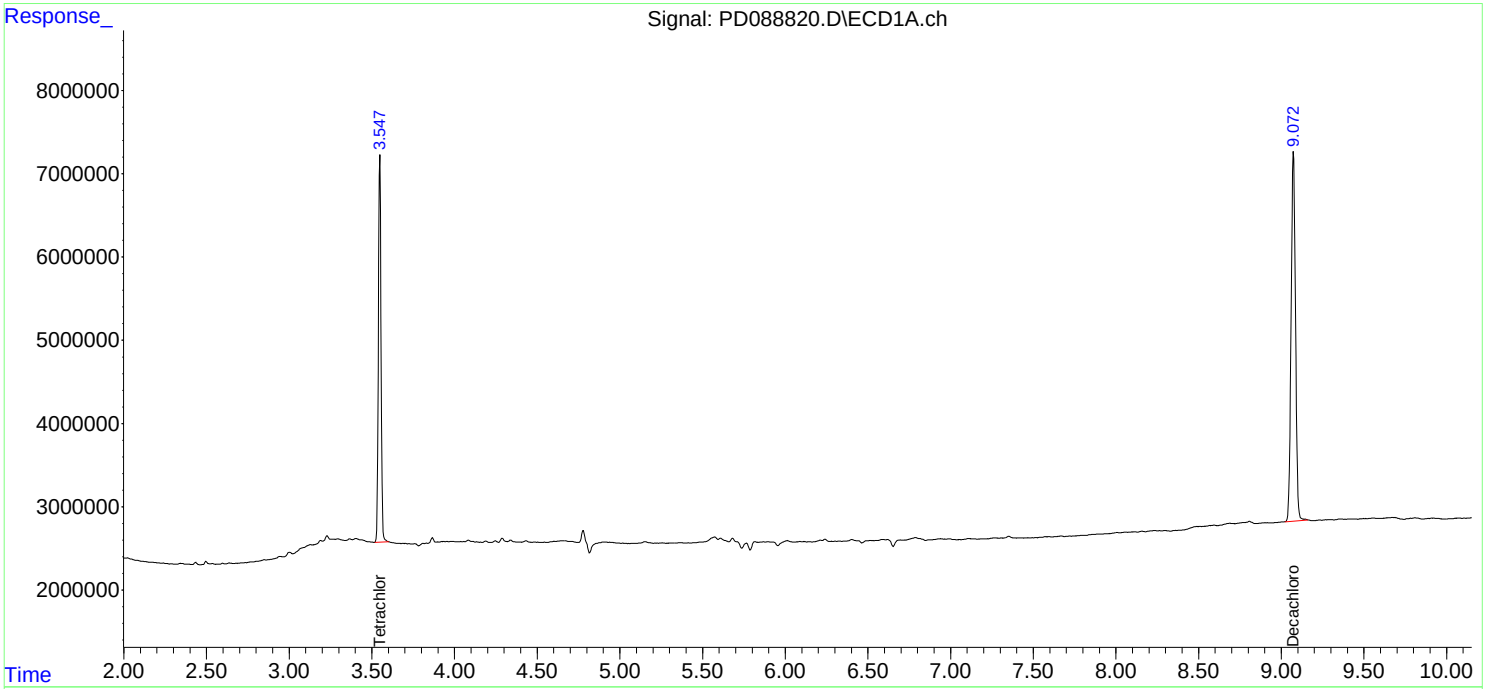
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

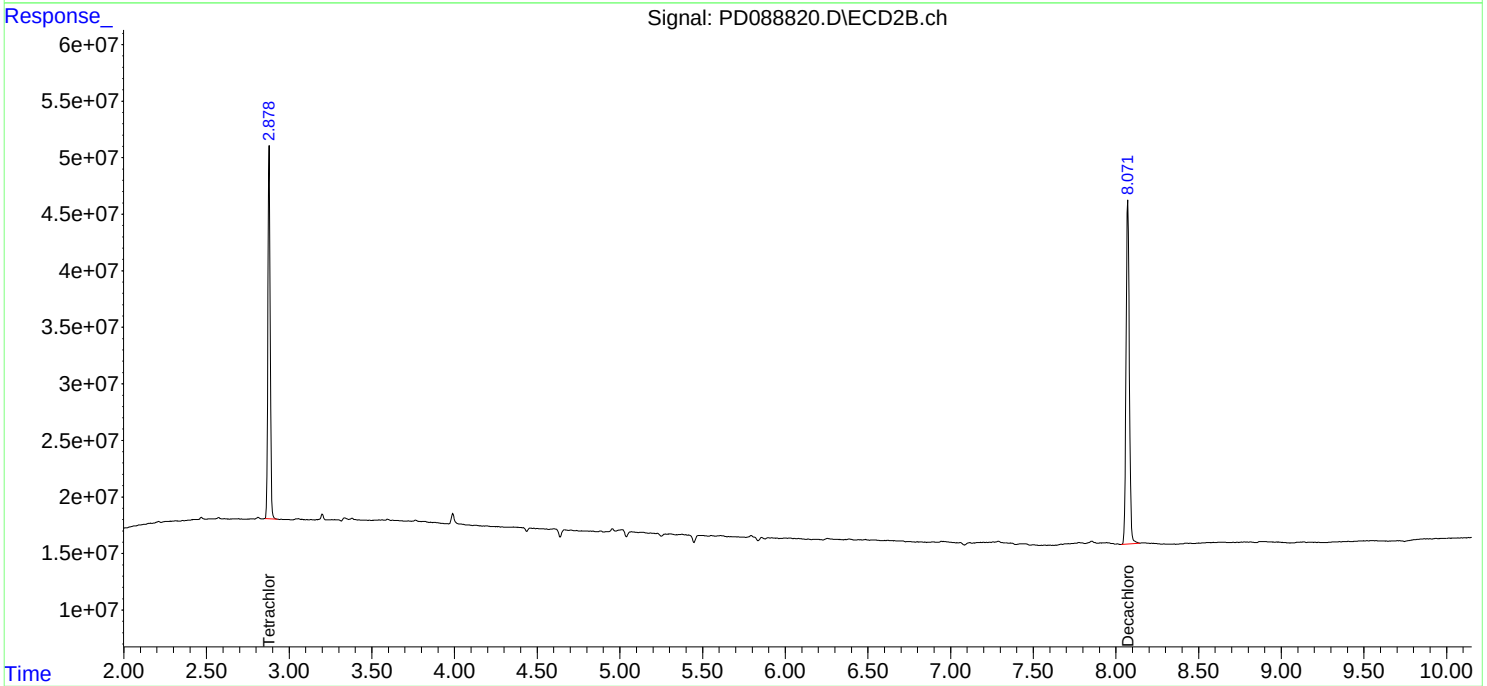
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088820.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 08:50
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

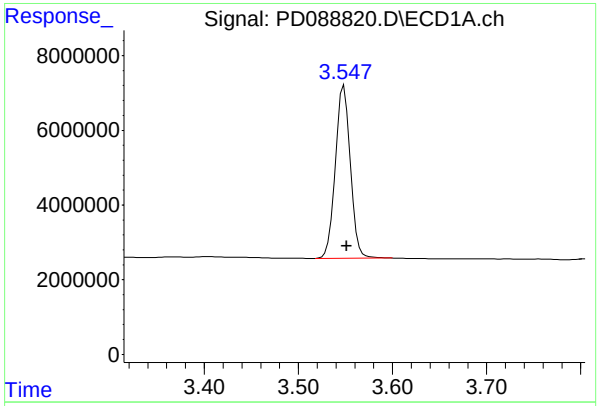
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:49:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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



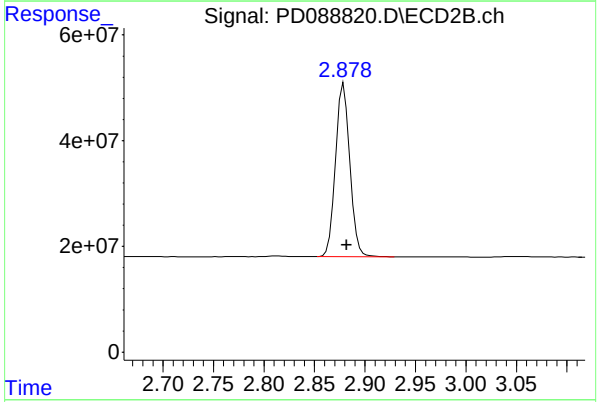




#1 Tetrachloro-m-xylene

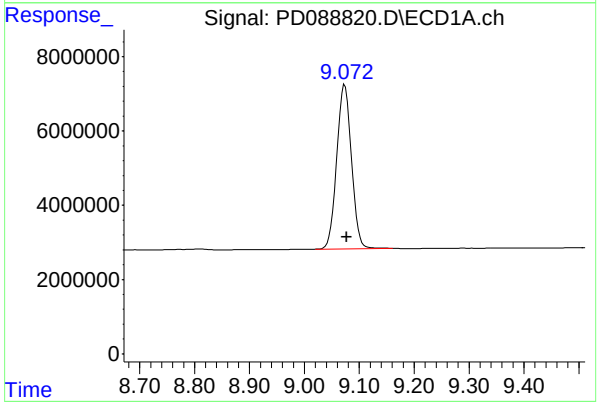
R.T.: 3.548 min
Delta R.T.: -0.003 min
Response: 51276693
Conc: 23.70 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



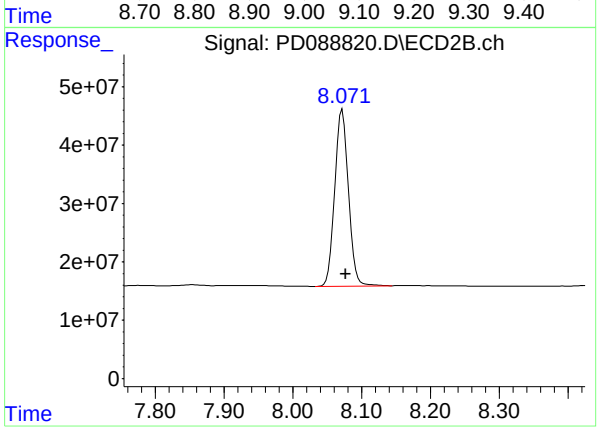
#1 Tetrachloro-m-xylene

R.T.: 2.879 min
Delta R.T.: -0.003 min
Response: 323608049
Conc: 21.39 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: -0.004 min
Response: 82453439
Conc: 24.09 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.072 min
Delta R.T.: -0.005 min
Response: 419997758
Conc: 23.01 ng/ml

Raw Data: **PD088840.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/09/25
Client Sample ID:	PIBLK-PD088840.D	SDG No.:	Q2198
Lab Sample ID:	I.BLK-PD088840.D	Matrix:	TCLP
Analytical Method:	8081B	% 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
PD088840.D	1		06/09/25	pd060925

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	24.7		30 (57) - 150 (171)	123%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.3		30 (61) - 150 (148)	117%	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

Quantitation Report (QT Reviewed)

Sample Results: **PD088840.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 15:30
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: Jun 10 01:42:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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...	3.556	2.879	50426021	315.1E6	23.305	20.829
28) SA	Decachlor...	9.083	8.075	84383360	432.6E6	24.657	23.694
	Target Compounds						

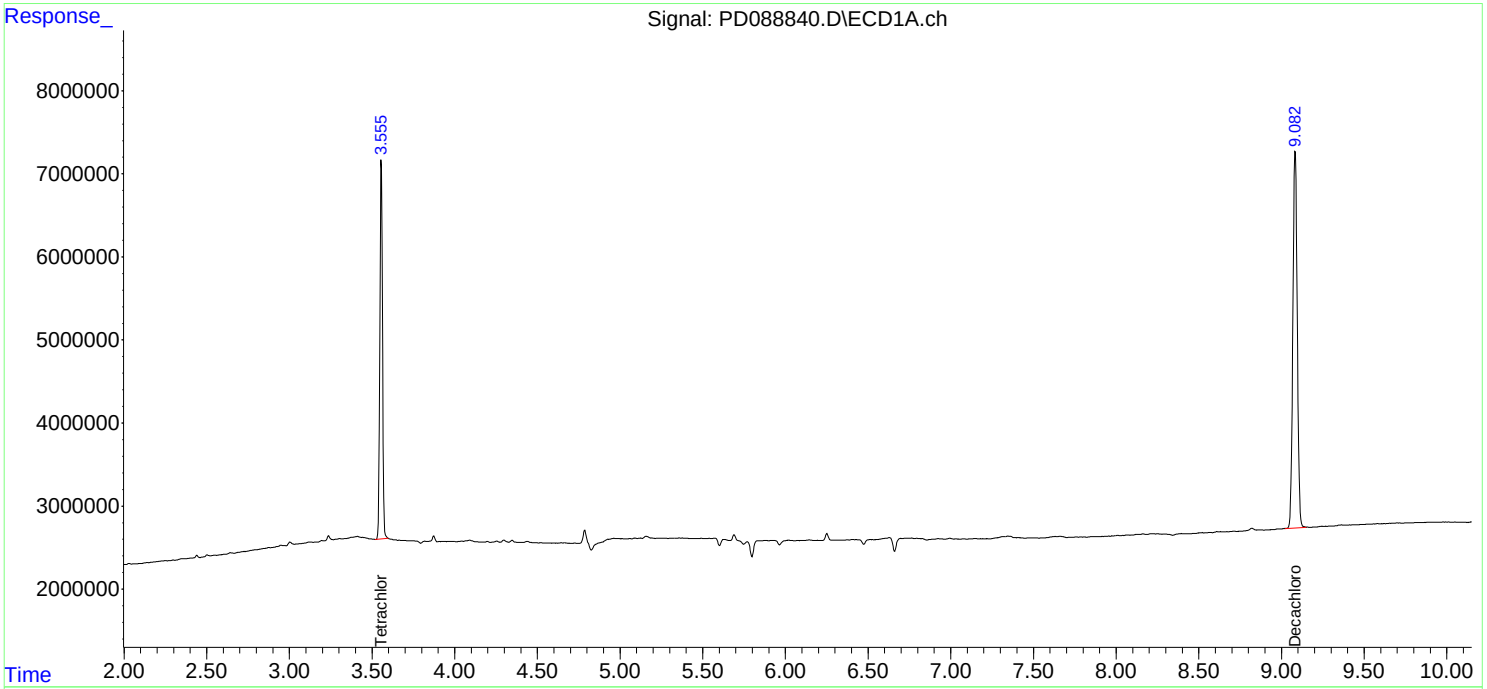
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

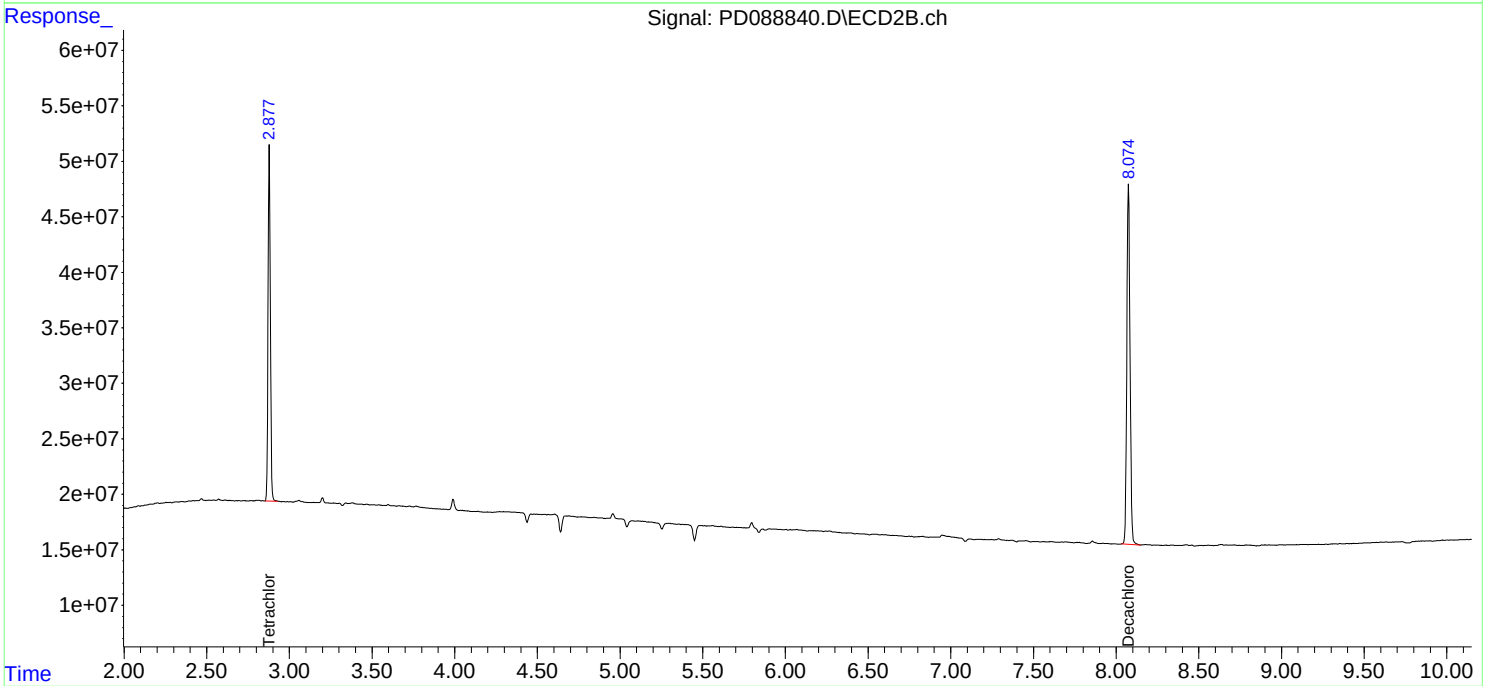
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 15:30
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

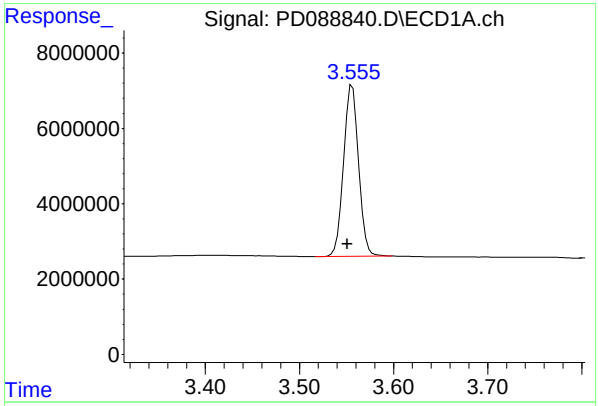
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 10 01:42:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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



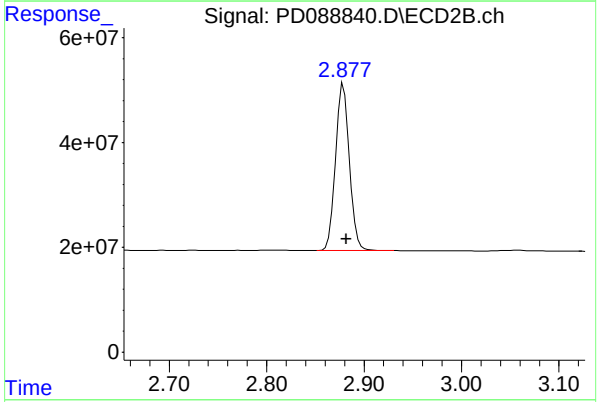




#1 Tetrachloro-m-xylene

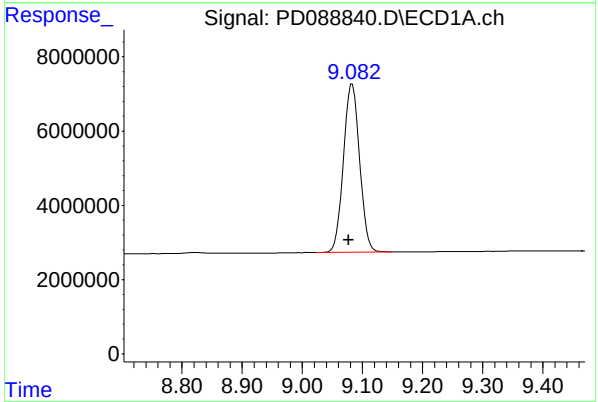
R.T.: 3.556 min
Delta R.T.: 0.005 min
Response: 50426021
Conc: 23.30 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



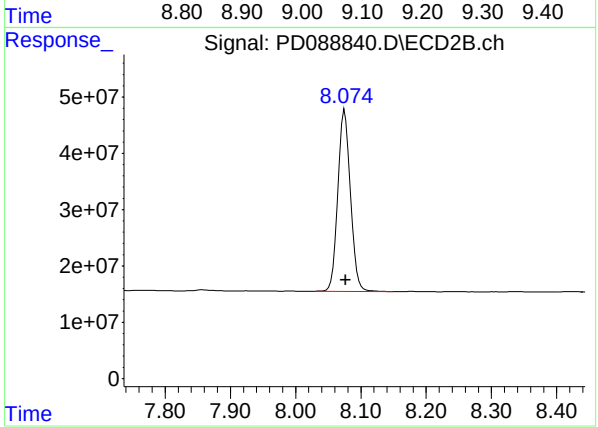
#1 Tetrachloro-m-xylene

R.T.: 2.879 min
Delta R.T.: -0.003 min
Response: 315078240
Conc: 20.83 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.083 min
Delta R.T.: 0.006 min
Response: 84383360
Conc: 24.66 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.001 min
Response: 432561169
Conc: 23.69 ng/ml

Raw Data: **PD088833.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168330BS	SDG No.:	Q2198
Lab Sample ID:	PB168330BS	Matrix:	TCLP
Analytical Method:	8081B	% 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
PD088833.D	1	06/06/25 12:32	06/09/25 13:28	PB168330

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.53		0.0037	0.050	ug/L
76-44-8	Heptachlor	0.54		0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.53		0.0096	0.050	ug/L
72-20-8	Endrin	0.54		0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.54		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	23.8		30 (57) - 150 (171)	119%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.0		30 (61) - 150 (148)	110%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 13:28
Operator : AR\AJ
Sample : PB168330BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168330BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:58:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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...	3.548	2.879	47548210	308.6E6	21.975	20.399
28)	SA	Decachlor...	9.072	8.073	81476462	418.3E6	23.807	22.915
		Target Compounds						
2)	A	alpha-BHC	3.998	3.392	254.6E6	1173.2E6	53.292	49.082
3)	MA	gamma-BHC...	4.329	3.729	242.3E6	1089.9E6	52.648	49.169
4)	MA	Heptachlor	4.928	4.082	240.6E6	1087.7E6	53.806	48.440
5)	MB	Aldrin	5.270	4.367	234.5E6	1076.8E6	53.351	49.102
6)	B	beta-BHC	4.514	4.024	93563253	471.9E6	51.889	48.440
7)	B	delta-BHC	4.763	4.261	239.2E6	1098.4E6	56.589	49.268
8)	B	Heptachlo...	5.690	4.872	210.9E6	971.5E6	53.133	48.890
9)	A	Endosulfan I	6.074	5.246	200.1E6	934.7E6	53.176	49.252
10)	B	gamma-Chl...	5.945	5.125	211.6E6	1055.8E6	53.046	49.495
11)	B	alpha-Chl...	6.026	5.189	213.4E6	1013.3E6	53.276	49.132
12)	B	4,4'-DDE	6.195	5.374	196.0E6	1026.4E6	54.597	49.105
13)	MA	Dieldrin	6.346	5.512	214.5E6	1036.0E6	53.461	49.231
14)	MA	Endrin	6.574	5.788	183.0E6	931.1E6	53.588	48.284
15)	B	Endosulfa...	6.786	6.080	182.2E6	904.0E6	52.910	49.340
16)	A	4,4'-DDD	6.705	5.929	155.8E6	867.3E6	55.946	49.864
17)	MA	4,4'-DDT	7.021	6.183	169.7E6	900.5E6	54.367	49.652
18)	B	Endrin al...	6.914	6.258	137.9E6	687.2E6	53.563	49.340
19)	B	Endosulfa...	7.149	6.481	172.4E6	877.1E6	53.829	49.396
20)	A	Methoxychlor	7.493	6.754	89476797	465.8E6	53.561	48.646
21)	B	Endrin ke...	7.630	6.991	186.2E6	978.4E6	54.396	50.568
22)		Mirex	8.113	7.185	136.8E6	754.5E6	52.666	49.632

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

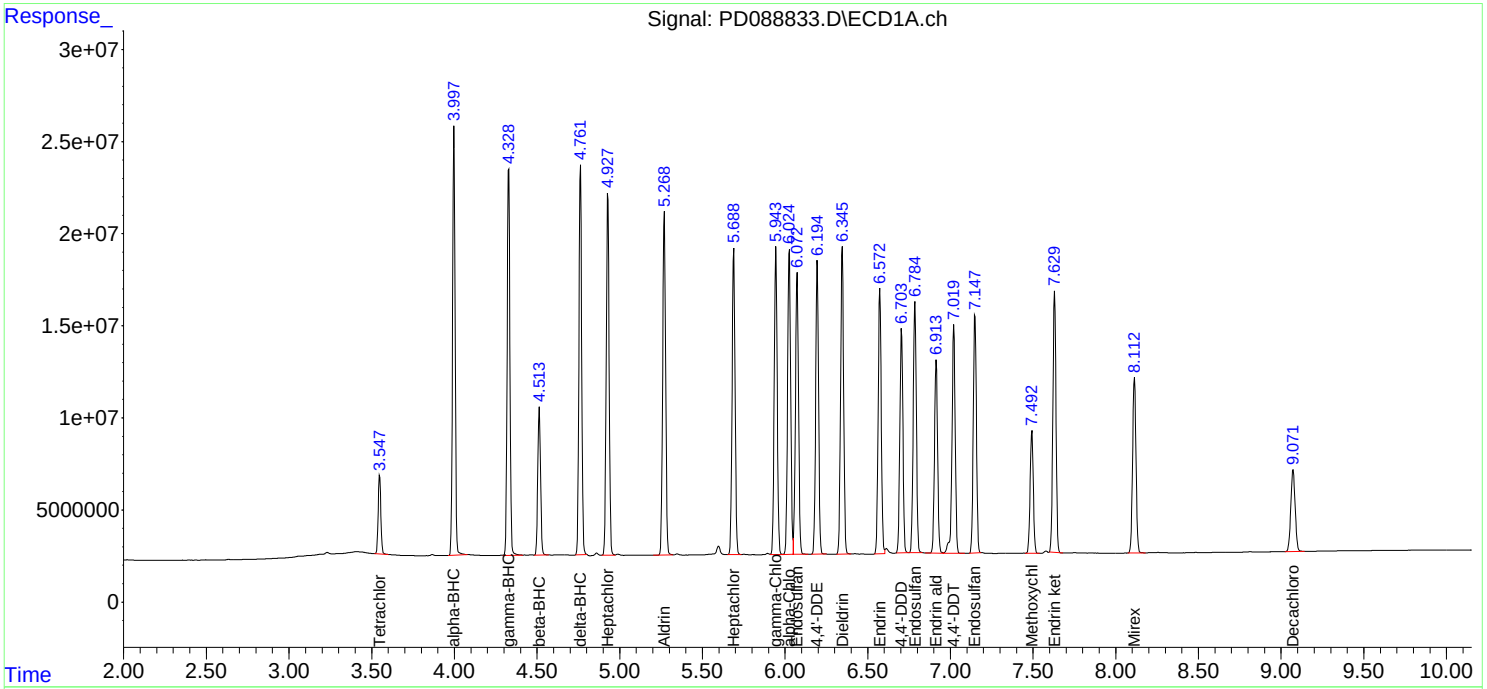
Sample Results: **PD088833.D**

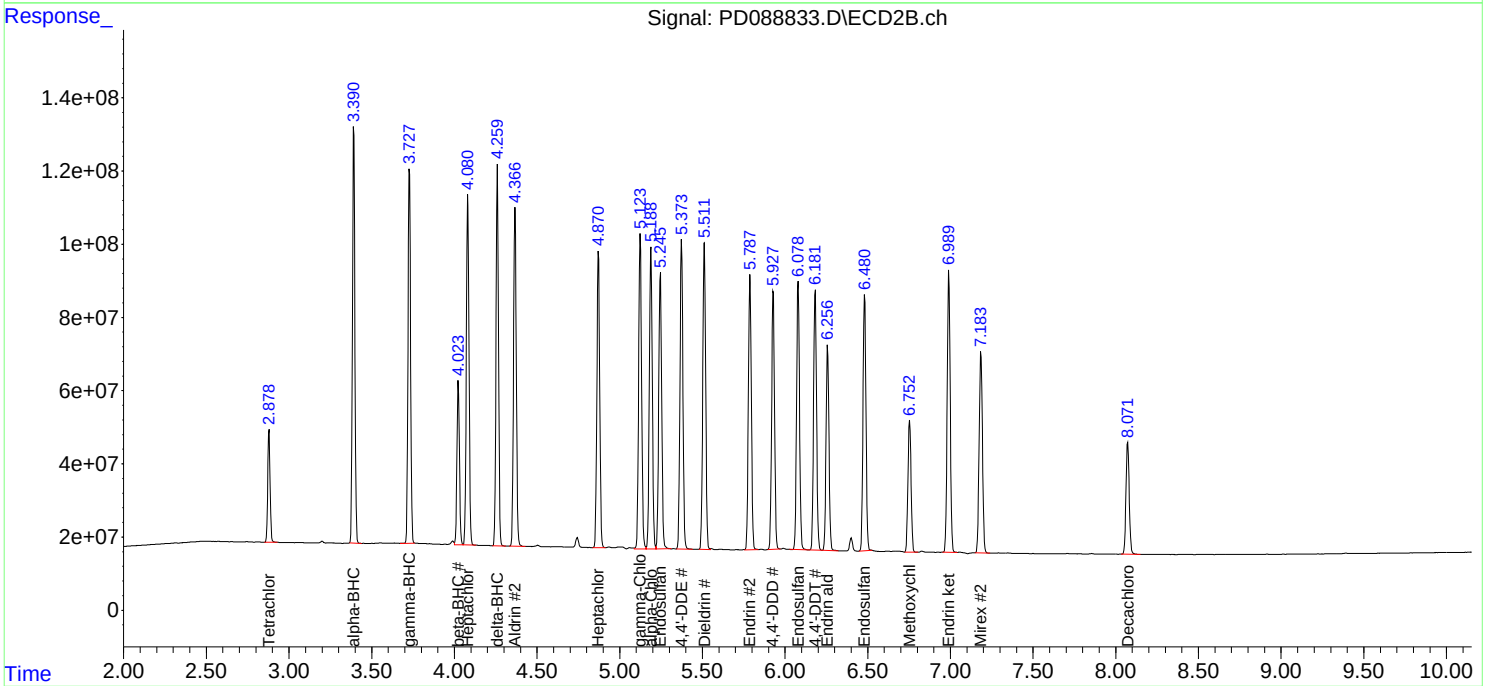
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 13:28
Operator : AR\AJ
Sample : PB168330BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168330BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 13:58:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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





Raw Data: **PD088838.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02MS	SDG No.:	Q2198
Lab Sample ID:	Q2198-04MS	Matrix:	TCLP
Analytical Method:	8081B	% 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 :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088838.D	1	06/06/25 12:32	06/09/25 14:39	PB168330

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	6.30		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	6.10		0.096	0.50	ug/L
72-20-8	Endrin	6.30		0.032	0.50	ug/L
72-43-5	Methoxychlor	6.20		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	25.9		30 (57) - 150 (171)	129%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.2		30 (61) - 150 (148)	121%	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

Quantitation Report (QT Reviewed)

Sample Results: **PD088838.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:39
Operator : AR\AJ
Sample : Q2198-04MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-207-SB02MS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:24:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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...	3.549	2.880	52420113	319.0E6	24.227	21.092
28)	SA	Decachlor...	9.072	8.072	88460583	452.1E6	25.848	24.764
		Target Compounds						
2)	A	alpha-BHC	3.998	3.392	296.9E6	1281.9E6	62.152	53.627
3)	MA	gamma-BHC...	4.329	3.729	290.6E6	1203.5E6	63.145	54.293
4)	MA	Heptachlor	4.928	4.082	242.9E6	1052.9E6	54.317	46.887
5)	MB	Aldrin	5.270	4.368	226.1E6	1010.3E6	51.449	46.069
6)	B	beta-BHC	4.514	4.024	109.6E6	526.8E6	60.810	54.072
7)	B	delta-BHC	4.763	4.261	290.0E6	1237.4E6	68.626	55.505
8)	B	Heptachlo...	5.690	4.872	242.0E6	1072.3E6	60.977	53.960
9)	A	Endosulfan I	6.074	5.246	230.3E6	1031.0E6	61.190	54.327
10)	B	gamma-Chl...	5.945	5.125	241.8E6	1161.3E6	60.627	54.438
11)	B	alpha-Chl...	6.026	5.189	244.6E6	1118.5E6	61.057	54.231
12)	B	4,4'-DDE	6.195	5.375	223.5E6	1129.4E6	62.265	54.034
13)	MA	Dieldrin	6.346	5.510	249.4E6	1152.0E6	62.156	54.744m
14)	MA	Endrin	6.574	5.787	215.1E6	1056.9E6	62.972	54.807m
15)	B	Endosulfa...	6.786	6.079	201.8E6	1016.9E6	58.615	55.504
16)	A	4,4'-DDD	6.704	5.929	180.4E6	961.8E6	64.775	55.298
17)	MA	4,4'-DDT	7.020	6.183	192.2E6	1016.7E6	61.554	56.055
18)	B	Endrin al...	6.914	6.258	159.8E6	776.7E6	62.079	55.765
19)	B	Endosulfa...	7.149	6.482	199.8E6	991.2E6	62.392	55.826
20)	A	Methoxychlor	7.493	6.754	103.8E6	526.8E6	62.131	55.015
21)	B	Endrin ke...	7.629	6.991	214.9E6	1101.0E6	62.767	56.906
22)		Mirex	8.113	7.185	152.4E6	828.0E6	58.650	54.464

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

Sample Results: **PD088838.D**

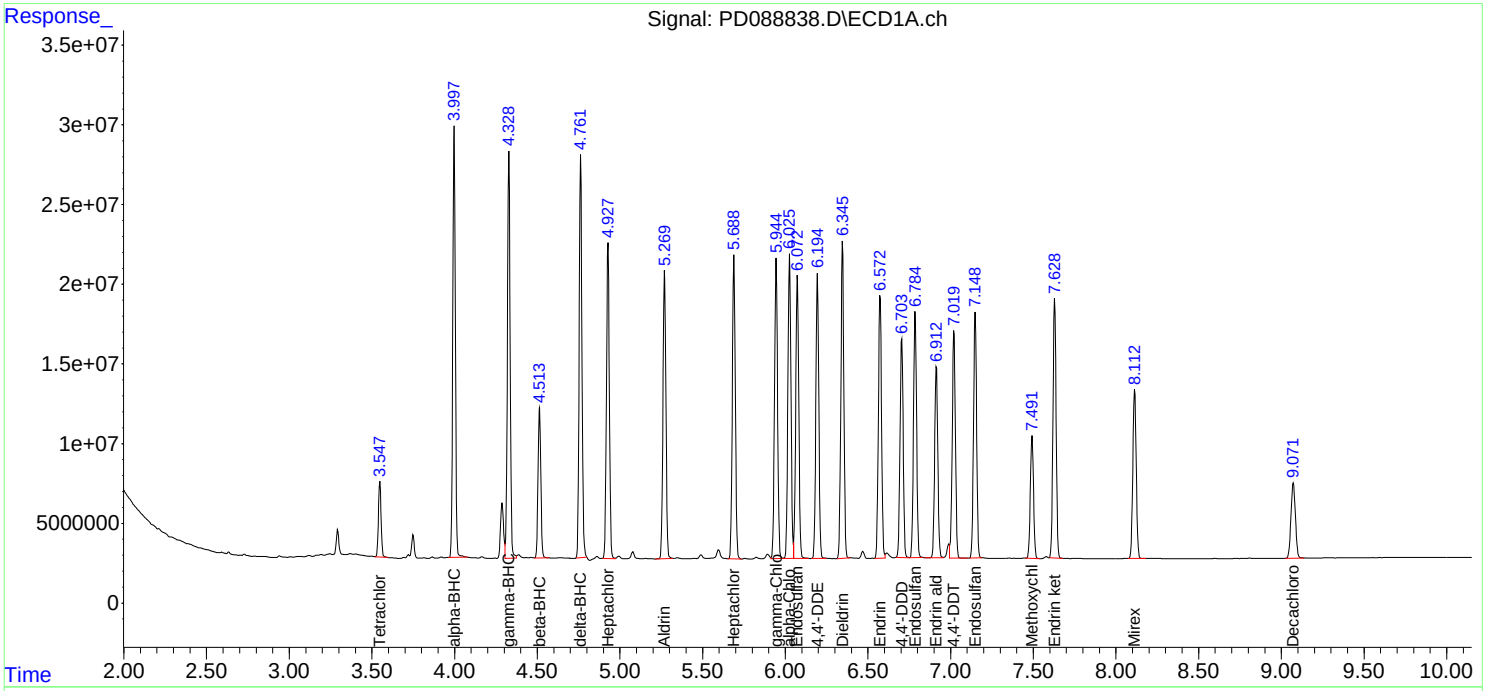
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:39
Operator : AR\AJ
Sample : Q2198-04MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

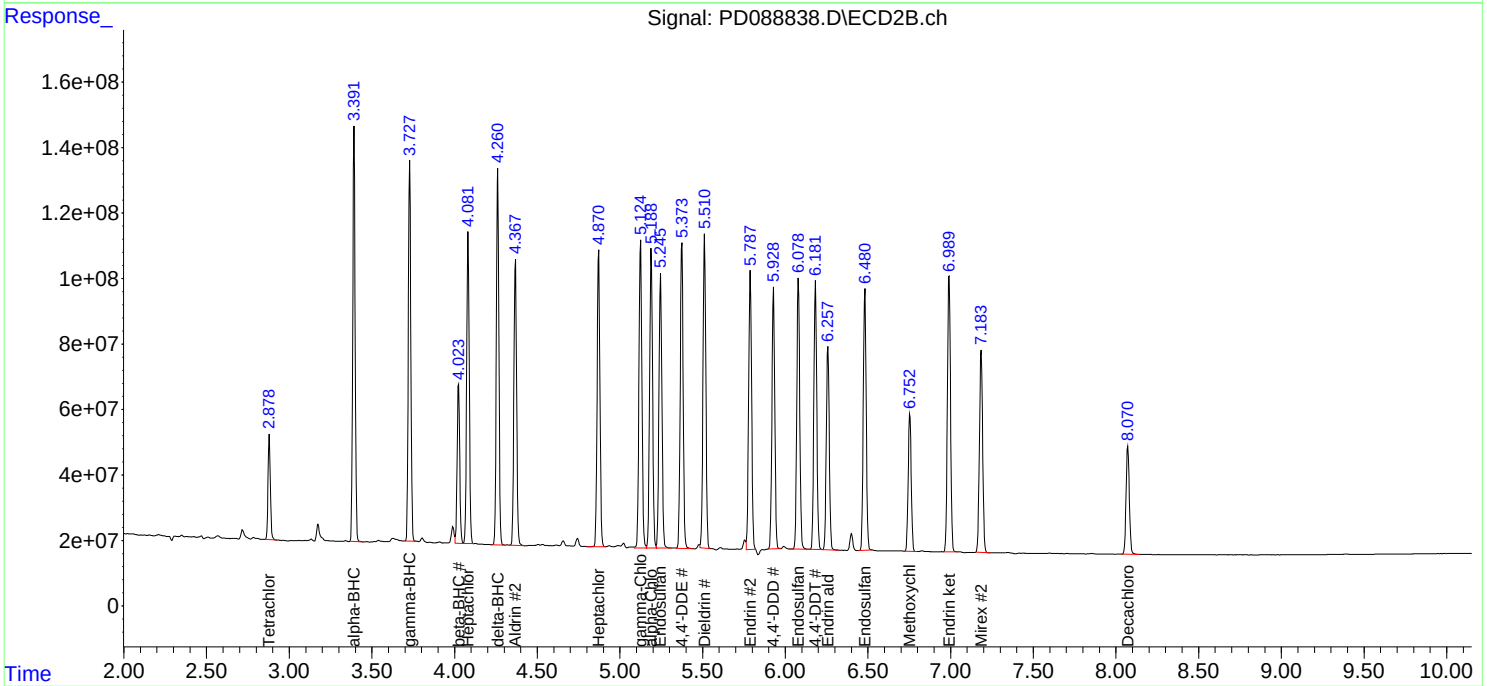
Instrument :
ECD_D
ClientSampleId :
B-207-SB02MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:24:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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





Raw Data: **PD088839.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/01/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/03/25
Client Sample ID:	B-207-SB02MSD	SDG No.:	Q2198
Lab Sample ID:	Q2198-04MSD	Matrix:	TCLP
Analytical Method:	8081B	% 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 :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088839.D	1	06/06/25 12:32	06/09/25 14:53	PB168330

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	6.40		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	6.10		0.096	0.50	ug/L
72-20-8	Endrin	6.30		0.032	0.50	ug/L
72-43-5	Methoxychlor	6.20		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	26.1		30 (57) - 150 (171)	131%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.3		30 (61) - 150 (148)	122%	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\PD060925\
Data File : PD088839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:53
Operator : AR\AJ
Sample : Q2198-04MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
B-207-SB02MSD

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:24:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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...	3.548	2.880	52602910	321.6E6	24.311	21.260
28)	SA	Decachlor...	9.072	8.072	89449800	454.2E6	26.137	24.879
		Target Compounds						
2)	A	alpha-BHC	3.998	3.392	298.2E6	1291.3E6	62.430	54.019
3)	MA	gamma-BHC...	4.329	3.728	292.3E6	1211.2E6	63.504	54.643
4)	MA	Heptachlor	4.928	4.082	243.6E6	1061.8E6	54.477	47.285
5)	MB	Aldrin	5.270	4.368	226.9E6	1013.8E6	51.640	46.227
6)	B	beta-BHC	4.514	4.024	110.2E6	532.3E6	61.134	54.644
7)	B	delta-BHC	4.762	4.261	294.3E6	1242.5E6	69.650	55.732
8)	B	Heptachlo...	5.690	4.872	242.7E6	1076.5E6	61.145	54.173
9)	A	Endosulfan I	6.073	5.246	230.6E6	1035.9E6	61.287	54.582
10)	B	gamma-Chl...	5.945	5.125	242.6E6	1166.9E6	60.811	54.701
11)	B	alpha-Chl...	6.026	5.189	244.9E6	1125.4E6	61.127	54.566
12)	B	4,4'-DDE	6.195	5.374	224.1E6	1135.1E6	62.422	54.305
13)	MA	Dieldrin	6.346	5.510	250.0E6	1164.1E6	62.315	55.318m
14)	MA	Endrin	6.573	5.789	215.3E6	1115.1E6	63.050	57.827
15)	B	Endosulfa...	6.785	6.080	202.6E6	1022.7E6	58.841	55.816
16)	A	4,4'-DDD	6.704	5.929	181.1E6	966.5E6	65.023	55.573
17)	MA	4,4'-DDT	7.021	6.183	201.5E6	1021.1E6	64.556	56.299
18)	B	Endrin al...	6.914	6.258	160.8E6	781.8E6	62.458	56.130
19)	B	Endosulfa...	7.149	6.481	200.9E6	996.8E6	62.714	56.141
20)	A	Methoxychlor	7.492	6.754	104.2E6	530.0E6	62.391	55.352
21)	B	Endrin ke...	7.629	6.991	216.2E6	1104.9E6	63.164	57.109
22)		Mirex	8.113	7.185	153.8E6	832.4E6	59.209	54.752

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD060925\
Data File : PD088839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Jun 2025 14:53
Operator : AR\AJ
Sample : Q2198-04MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

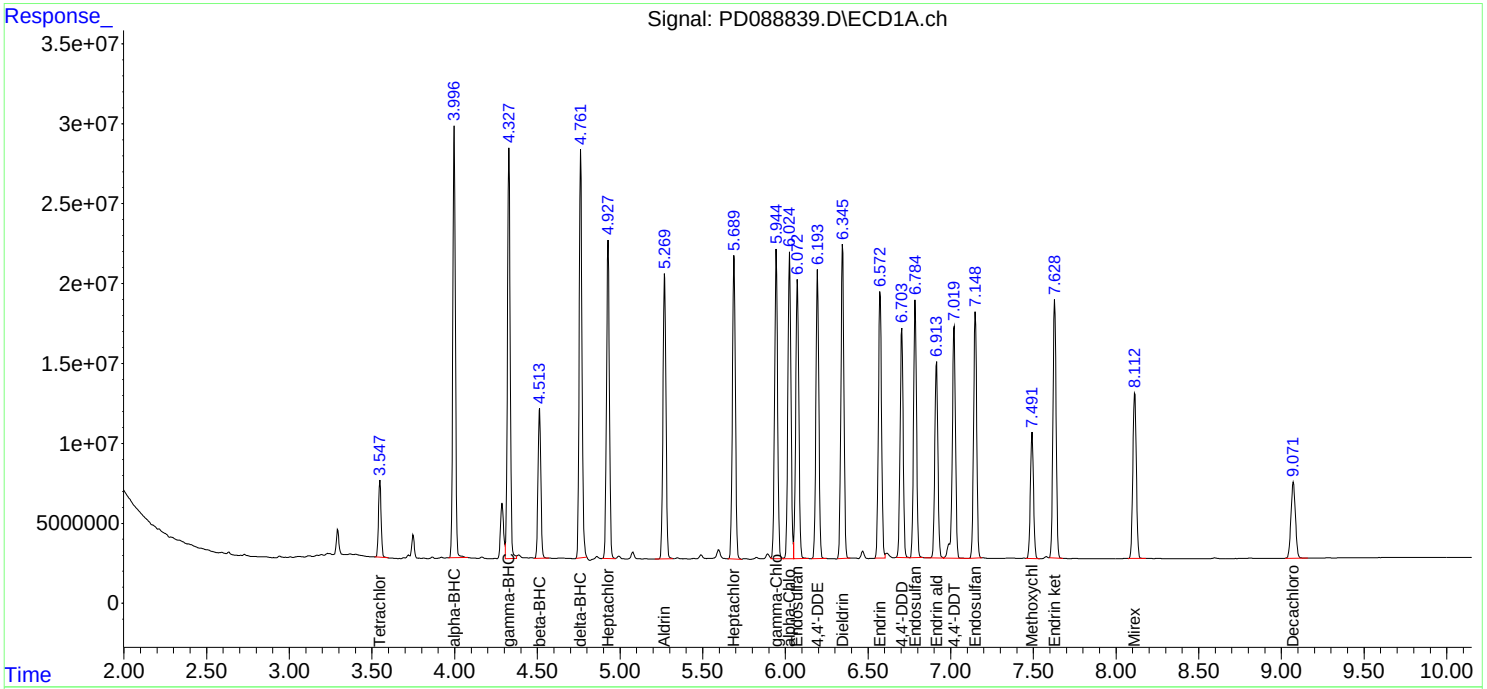
Instrument :
ECD_D
ClientSampleId :
B-207-SB02MSD

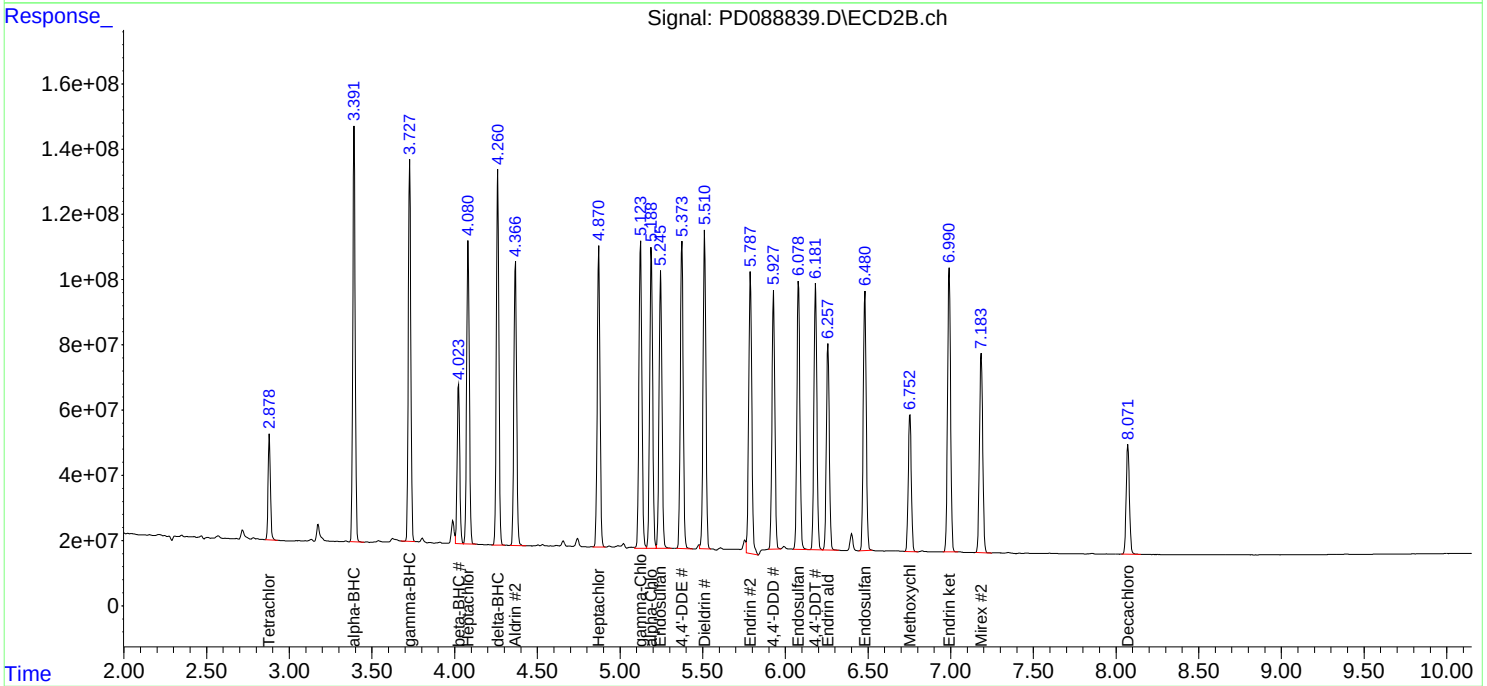
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 06/10/2025
Supervised By :mohammad ahmed 06/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 15:24:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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





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

Manual Integration Report

Sequence:	PD051925	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088584.D	4,4"-DDD	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	4,4"-DDD #2	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	Endrin aldehyde	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	Endrin aldehyde #2	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	Endrin ketone	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	Endrin ketone #2	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PSTDICC005	PD088590.D	Heptachlor	Abdul	5/20/2025 9:03:19 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PSTDICC005	PD088590.D	Heptachlor epoxide	Abdul	5/20/2025 9:03:19 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PCHLORICV500	PD088602.D	Chlordane-1	Abdul	5/20/2025 9:03:30 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088605.D	4,4"-DDD	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088605.D	4,4"-DDD #2	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088605.D	Endrin aldehyde #2	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088605.D	Endrin ketone	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PD051925	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088605.D	Endrin ketone #2	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
I.BLK	PD088613.D	Decachlorobiphenyl	Abdul	5/20/2025 9:03:54 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PSTDCCC050	PD088614.D	4,4"-DDE #2	Abdul	5/20/2025 9:03:58 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software

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

Manual Integration Report

Sequence:	Pd060925	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088821.D	Endrin aldehyde	Abdul	6/10/2025 8:34:47 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PEM	PD088821.D	Endrin ketone	Abdul	6/10/2025 8:34:47 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PSTDCCC050	PD088822.D	4,4"-DDE #2	Abdul	6/10/2025 8:34:53 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PSTDCCC050	PD088822.D	Endosulfan II #2	Abdul	6/10/2025 8:34:53 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
Q2198-04MS	PD088838.D	Dieldrin #2	Abdul	6/10/2025 8:34:57 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
Q2198-04MS	PD088838.D	Endrin #2	Abdul	6/10/2025 8:34:57 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
Q2198-04MSD	PD088839.D	Dieldrin #2	Abdul	6/10/2025 8:35:01 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PSTDCCC050	PD088841.D	4,4"-DDE #2	Abdul	6/10/2025 8:35:05 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PSTDCCC050	PD088841.D	Aldrin #2	Abdul	6/10/2025 8:35:05 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PSTDCCC050	PD088851.D	4,4"-DDE #2	Abdul	6/10/2025 8:35:31 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software
PSTDCCC050	PD088851.D	Aldrin #2	Abdul	6/10/2025 8:35:31 AM	mohammad	6/11/2025 2:16:06	Peak Integrated by Software

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

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 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#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD088582.D	19 May 2025 10:36	AR\AJ	Ok
2	I.BLK	PD088583.D	19 May 2025 10:50	AR\AJ	Ok
3	PEM	PD088584.D	19 May 2025 11:04	AR\AJ	Ok,M
4	RESCHK	PD088585.D	19 May 2025 11:17	AR\AJ	Ok
5	PSTDICC100	PD088586.D	19 May 2025 11:31	AR\AJ	Ok
6	PSTDICC075	PD088587.D	19 May 2025 11:45	AR\AJ	Ok
7	PSTDICC050	PD088588.D	19 May 2025 11:58	AR\AJ	Ok
8	PSTDICC025	PD088589.D	19 May 2025 12:12	AR\AJ	Ok
9	PSTDICC005	PD088590.D	19 May 2025 12:25	AR\AJ	Ok,M
10	PCHLORICC1000	PD088591.D	19 May 2025 12:39	AR\AJ	Ok
11	PCHLORICC750	PD088592.D	19 May 2025 12:52	AR\AJ	Ok
12	PCHLORICC500	PD088593.D	19 May 2025 13:06	AR\AJ	Ok
13	PCHLORICC250	PD088594.D	19 May 2025 13:19	AR\AJ	Ok
14	PCHLORICC050	PD088595.D	19 May 2025 13:33	AR\AJ	Ok
15	PTOXICC1000	PD088596.D	19 May 2025 13:47	AR\AJ	Ok
16	PTOXICC750	PD088597.D	19 May 2025 14:00	AR\AJ	Ok
17	PTOXICC500	PD088598.D	19 May 2025 14:14	AR\AJ	Ok
18	PTOXICC250	PD088599.D	19 May 2025 14:27	AR\AJ	Ok,M
19	PTOXICC100	PD088600.D	19 May 2025 14:41	AR\AJ	Ok
20	PSTDICV050	PD088601.D	19 May 2025 14:55	AR\AJ	Ok
21	PCHLORICV500	PD088602.D	19 May 2025 15:08	AR\AJ	Ok,M

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

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 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	PD088603.D	19 May 2025 15:22	AR\AJ	Ok
23	I.BLK	PD088604.D	19 May 2025 15:35	AR\AJ	Ok
24	PEM	PD088605.D	19 May 2025 15:49	AR\AJ	Ok,M
25	PSTDCCC050	PD088606.D	19 May 2025 16:02	AR\AJ	Ok
26	PTOXCCC500	PD088607.D	19 May 2025 16:16	AR\AJ	Ok
27	PB167959BS	PD088608.D	19 May 2025 16:32	AR\AJ	Ok
28	Q1984-09RE	PD088609.D	19 May 2025 16:50	AR\AJ	Confirms
29	Q1984-11RE	PD088610.D	19 May 2025 17:04	AR\AJ	Confirms
30	Q1984-13RE	PD088611.D	19 May 2025 17:18	AR\AJ	Confirms
31	Q1984-15RE	PD088612.D	19 May 2025 17:31	AR\AJ	Confirms
32	I.BLK	PD088613.D	19 May 2025 17:45	AR\AJ	Ok,M
33	PSTDCCC050	PD088614.D	19 May 2025 18:45	AR\AJ	Ok,M
34	PTOXCCC500	PD088615.D	19 May 2025 19:32	AR\AJ	Ok
35	PB168066BL	PD088616.D	19 May 2025 20:26	AR\AJ	Ok
36	PB168066BS	PD088617.D	19 May 2025 20:40	AR\AJ	Not Ok
37	PB167994TB	PD088618.D	19 May 2025 20:54	AR\AJ	Ok
38	Q2014-05	PD088619.D	19 May 2025 21:08	AR\AJ	Not Ok
39	Q2027-03	PD088620.D	19 May 2025 21:21	AR\AJ	Ok,M
40	Q2027-03MS	PD088621.D	19 May 2025 21:35	AR\AJ	Ok,M
41	Q2027-03MSD	PD088622.D	19 May 2025 21:49	AR\AJ	Ok,M
42	Q2027-04	PD088623.D	19 May 2025 22:02	AR\AJ	Ok
43	Q2032-09	PD088624.D	19 May 2025 22:16	AR\AJ	Ok
44	I.BLK	PD088625.D	19 May 2025 22:30	AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 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	

45	PSTDCCC050	PD088626.D	19 May 2025 22:43	AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD060925

Review By	Abdul	Review On	6/10/2025 8:35:58 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:06 AM		
SubDirectory	PD060925	HP Acquire Method		HP Processing Method	pd051925 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#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD088819.D	09 Jun 2025 08:36	AR\AJ	Ok
2	I.BLK	PD088820.D	09 Jun 2025 08:50	AR\AJ	Ok
3	PEM	PD088821.D	09 Jun 2025 10:30	AR\AJ	Ok,M
4	PSTDCCC050	PD088822.D	09 Jun 2025 10:44	AR\AJ	Ok,M
5	Q2207-09	PD088823.D	09 Jun 2025 11:04	AR\AJ	Ok
6	Q2207-18	PD088824.D	09 Jun 2025 11:18	AR\AJ	Ok
7	Q2207-27	PD088825.D	09 Jun 2025 11:31	AR\AJ	Ok
8	Q2207-36	PD088826.D	09 Jun 2025 11:45	AR\AJ	Ok
9	Q2207-45	PD088827.D	09 Jun 2025 11:59	AR\AJ	Ok
10	Q2208-09	PD088828.D	09 Jun 2025 12:12	AR\AJ	Ok
11	Q2208-18	PD088829.D	09 Jun 2025 12:26	AR\AJ	Ok
12	Q2208-27	PD088830.D	09 Jun 2025 12:40	AR\AJ	Ok
13	Q2208-36	PD088831.D	09 Jun 2025 12:53	AR\AJ	Ok
14	PB168330BL	PD088832.D	09 Jun 2025 13:14	AR\AJ	Ok
15	PB168330BS	PD088833.D	09 Jun 2025 13:28	AR\AJ	Ok
16	PB168271TB	PD088834.D	09 Jun 2025 13:44	AR\AJ	Ok
17	PB168311TB	PD088835.D	09 Jun 2025 13:58	AR\AJ	Ok
18	Q2198-02	PD088836.D	09 Jun 2025 14:11	AR\AJ	Ok
19	Q2198-04	PD088837.D	09 Jun 2025 14:25	AR\AJ	Ok
20	Q2198-04MS	PD088838.D	09 Jun 2025 14:39	AR\AJ	Ok,M
21	Q2198-04MSD	PD088839.D	09 Jun 2025 14:53	AR\AJ	Ok,M

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD060925

Review By	Abdul	Review On	6/10/2025 8:35:58 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:06 AM		
SubDirectory	PD060925	HP Acquire Method		HP Processing Method	pd051925 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	I.BLK	PD088840.D	09 Jun 2025 15:30	AR\AJ	Ok
23	PSTDCCC050	PD088841.D	09 Jun 2025 15:44	AR\AJ	Ok,M
24	PB168363BL	PD088842.D	09 Jun 2025 16:20	AR\AJ	Ok
25	PB168363BS	PD088843.D	09 Jun 2025 16:34	AR\AJ	Ok
26	PB168333TB	PD088844.D	09 Jun 2025 16:47	AR\AJ	Ok
27	Q2137-05	PD088845.D	09 Jun 2025 17:01	AR\AJ	Ok,M
28	Q2137-05MS	PD088846.D	09 Jun 2025 17:15	AR\AJ	Ok,M
29	Q2137-05MSD	PD088847.D	09 Jun 2025 17:28	AR\AJ	Ok,M
30	Q2262-02	PD088848.D	09 Jun 2025 17:42	AR\AJ	Ok
31	Q2262-04	PD088849.D	09 Jun 2025 17:56	AR\AJ	Ok
32	I.BLK	PD088850.D	09 Jun 2025 18:09	AR\AJ	Ok
33	PSTDCCC050	PD088851.D	09 Jun 2025 18:23	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 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#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088582.D	19 May 2025 10:36		AR\AJ	Ok
2	I.BLK	I.BLK	PD088583.D	19 May 2025 10:50		AR\AJ	Ok
3	PEM	PEM	PD088584.D	19 May 2025 11:04		AR\AJ	Ok,M
4	RESCHK	RESCHK	PD088585.D	19 May 2025 11:17		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PD088586.D	19 May 2025 11:31		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PD088587.D	19 May 2025 11:45		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PD088588.D	19 May 2025 11:58		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PD088589.D	19 May 2025 12:12		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PD088590.D	19 May 2025 12:25		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PD088591.D	19 May 2025 12:39		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PD088592.D	19 May 2025 12:52		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PD088593.D	19 May 2025 13:06		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PD088594.D	19 May 2025 13:19		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PD088595.D	19 May 2025 13:33		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PD088596.D	19 May 2025 13:47		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PD088597.D	19 May 2025 14:00		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PD088598.D	19 May 2025 14:14		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PD088599.D	19 May 2025 14:27		AR\AJ	Ok,M

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 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	

19	PTOXICC100	PTOXICC100	PD088600.D	19 May 2025 14:41		AR\AJ	Ok
20	PSTDICV050	ICVPD051925	PD088601.D	19 May 2025 14:55		AR\AJ	Ok
21	PCHLORICV500	ICVPD051925CHLOR	PD088602.D	19 May 2025 15:08		AR\AJ	Ok,M
22	PTOXICV500	ICVPD051925TOX	PD088603.D	19 May 2025 15:22		AR\AJ	Ok
23	I.BLK	I.BLK	PD088604.D	19 May 2025 15:35		AR\AJ	Ok
24	PEM	PEM	PD088605.D	19 May 2025 15:49		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PD088606.D	19 May 2025 16:02		AR\AJ	Ok
26	PTOXCCC500	PTOXCCC500	PD088607.D	19 May 2025 16:16		AR\AJ	Ok
27	PB167959BS	PB167959BS	PD088608.D	19 May 2025 16:32	TOX BS	AR\AJ	Ok
28	Q1984-09RE	OU4-TS-25-050725RE	PD088609.D	19 May 2025 16:50	DCB Low in both column	AR\AJ	Confirms
29	Q1984-11RE	OU4-TS-26-050725RE	PD088610.D	19 May 2025 17:04	DCB Low in both column	AR\AJ	Confirms
30	Q1984-13RE	OU4-TS-27-050725RE	PD088611.D	19 May 2025 17:18	DCB Low in both column	AR\AJ	Confirms
31	Q1984-15RE	OU4-TS-28-050725RE	PD088612.D	19 May 2025 17:31	DCB Low in both column	AR\AJ	Confirms
32	I.BLK	I.BLK	PD088613.D	19 May 2025 17:45		AR\AJ	Ok,M
33	PSTDCCC050	PSTDCCC050	PD088614.D	19 May 2025 18:45		AR\AJ	Ok,M
34	PTOXCCC500	PTOXCCC500	PD088615.D	19 May 2025 19:32		AR\AJ	Ok
35	PB168066BL	PB168066BL	PD088616.D	19 May 2025 20:26		AR\AJ	Ok
36	PB168066BS	PB168066BS	PD088617.D	19 May 2025 20:40	Recovery fail for comp # 17 & 20	AR\AJ	Not Ok
37	PB167994TB	PB167994TB	PD088618.D	19 May 2025 20:54		AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 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	

38	Q2014-05	MOO-25-0148	PD088619.D	19 May 2025 21:08	TCMX having F flag in both column, already run	AR\AJ	Not Ok
39	Q2027-03	B27-SOIL-SAMPLE	PD088620.D	19 May 2025 21:21		AR\AJ	Ok,M
40	Q2027-03MS	B27-SOIL-SAMPLEMS	PD088621.D	19 May 2025 21:35		AR\AJ	Ok,M
41	Q2027-03MSD	B27-SOIL-SAMPLEMS	PD088622.D	19 May 2025 21:49		AR\AJ	Ok,M
42	Q2027-04	B28-SOIL-SAMPLE	PD088623.D	19 May 2025 22:02		AR\AJ	Ok
43	Q2032-09	COMP-1	PD088624.D	19 May 2025 22:16		AR\AJ	Ok
44	I.BLK	I.BLK	PD088625.D	19 May 2025 22:30		AR\AJ	Ok
45	PSTDCCC050	PSTDCCC050	PD088626.D	19 May 2025 22:43		AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD060925

Review By	Abdul	Review On	6/10/2025 8:35:58 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:06 AM		
SubDirectory	PD060925	HP Acquire Method		HP Processing Method	pd051925 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#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088819.D	09 Jun 2025 08:36		AR\AJ	Ok
2	I.BLK	I.BLK	PD088820.D	09 Jun 2025 08:50		AR\AJ	Ok
3	PEM	PEM	PD088821.D	09 Jun 2025 10:30		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PD088822.D	09 Jun 2025 10:44		AR\AJ	Ok,M
5	Q2207-09	BU-703-COMP-01	PD088823.D	09 Jun 2025 11:04		AR\AJ	Ok
6	Q2207-18	BU-703-COMP-02	PD088824.D	09 Jun 2025 11:18		AR\AJ	Ok
7	Q2207-27	BU-703-COMP-03	PD088825.D	09 Jun 2025 11:31		AR\AJ	Ok
8	Q2207-36	BU-703-COMP-04	PD088826.D	09 Jun 2025 11:45		AR\AJ	Ok
9	Q2207-45	BU-703-COMP-05	PD088827.D	09 Jun 2025 11:59		AR\AJ	Ok
10	Q2208-09	BU-703-COMP-06	PD088828.D	09 Jun 2025 12:12		AR\AJ	Ok
11	Q2208-18	BU-703-COMP-07	PD088829.D	09 Jun 2025 12:26		AR\AJ	Ok
12	Q2208-27	BU-703-COMP-08	PD088830.D	09 Jun 2025 12:40		AR\AJ	Ok
13	Q2208-36	BU-703-COMP-09	PD088831.D	09 Jun 2025 12:53		AR\AJ	Ok
14	PB168330BL	PB168330BL	PD088832.D	09 Jun 2025 13:14		AR\AJ	Ok
15	PB168330BS	PB168330BS	PD088833.D	09 Jun 2025 13:28		AR\AJ	Ok
16	PB168271TB	PB168271TB	PD088834.D	09 Jun 2025 13:44		AR\AJ	Ok
17	PB168311TB	PB168311TB	PD088835.D	09 Jun 2025 13:58		AR\AJ	Ok
18	Q2198-02	B-202-SB02	PD088836.D	09 Jun 2025 14:11		AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD060925

Review By	Abdul	Review On	6/10/2025 8:35:58 AM		
Supervise By	mohammad	Supervise On	6/11/2025 2:16:06 AM		
SubDirectory	PD060925	HP Acquire Method		HP Processing Method	pd051925 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	

19	Q2198-04	B-207-SB02	PD088837.D	09 Jun 2025 14:25		AR\AJ	Ok
20	Q2198-04MS	B-207-SB02MS	PD088838.D	09 Jun 2025 14:39		AR\AJ	Ok,M
21	Q2198-04MSD	B-207-SB02MSD	PD088839.D	09 Jun 2025 14:53		AR\AJ	Ok,M
22	I.BLK	I.BLK	PD088840.D	09 Jun 2025 15:30		AR\AJ	Ok
23	PSTDCCC050	PSTDCCC050	PD088841.D	09 Jun 2025 15:44		AR\AJ	Ok,M
24	PB168363BL	PB168363BL	PD088842.D	09 Jun 2025 16:20		AR\AJ	Ok
25	PB168363BS	PB168363BS	PD088843.D	09 Jun 2025 16:34		AR\AJ	Ok
26	PB168333TB	PB168333TB	PD088844.D	09 Jun 2025 16:47		AR\AJ	Ok
27	Q2137-05	MOO-25-0151	PD088845.D	09 Jun 2025 17:01		AR\AJ	Ok,M
28	Q2137-05MS	MOO-25-0151MS	PD088846.D	09 Jun 2025 17:15	Coming Flag due to matrix interference and no need to run again.	AR\AJ	Ok,M
29	Q2137-05MSD	MOO-25-0151MSD	PD088847.D	09 Jun 2025 17:28	Coming Flag due to matrix interference and no need to run again.	AR\AJ	Ok,M
30	Q2262-02	ARS20-0032	PD088848.D	09 Jun 2025 17:42		AR\AJ	Ok
31	Q2262-04	ARS20-0001	PD088849.D	09 Jun 2025 17:56		AR\AJ	Ok
32	I.BLK	I.BLK	PD088850.D	09 Jun 2025 18:09		AR\AJ	Ok
33	PSTDCCC050	PSTDCCC050	PD088851.D	09 Jun 2025 18:23		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

SOP ID : M1311-TCLP-16

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 06/04/2025 **Time :** 15:00

End Prep Date : 06/05/2025 **Time :** 09:20

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : IZ

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

Chemical Used	ML/SAMPLE U	Lot Number
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 fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. q2208-36 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/05/25 11:30	JP ICP ROOM	JP RS EXT
	Preparation Group	Analysis Group ICP/ICPMS

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168271

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
PB168271TB	LEB271	16	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q2192-01	SB-1	01	100.02	2000	N/A	N/A	N/A	8.2	1.0	T-1
Q2194-02	COMP-12	02	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q2194-04	COMP-13	03	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2198-02	B-202-SB02	04	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2198-04	~~B-207-SB01~~ B-207-SB02	05	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2206-04	TP-1 SB	06	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2207-09	BU-703-COMP-01 06-11-	07	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q2207-18	BU-703-COMP-02 2025	08	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2207-27	BU-703-COMP-03	09	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2207-36	BU-703-COMP-04	10	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2207-45	BU-703-COMP-05	11	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-09	BU-703-COMP-06	12	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q2208-18	BU-703-COMP-07	13	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-27	BU-703-COMP-08	14	100.01	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q2208-36	BU-703-COMP-09	15	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2

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TCLP Solid Determination

PB168271

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168271TB	LEB271	N/A	N/A	N/A	N/A	N/A	N/A
Q2192-01	SB-1	N/A	N/A	N/A	N/A	100	N/A
Q2194-02	COMP-12	N/A	N/A	N/A	N/A	100	N/A
Q2194-04	COMP-13	N/A	N/A	N/A	N/A	100	N/A
Q2198-02	B-202-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2198-04	~~B-207-SB01~~ B-207-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2206-04	TP-1 TP	N/A	N/A	N/A	N/A	100	N/A
Q2207-09	BU-703-COMP-01 06-11-2025	N/A	N/A	N/A	N/A	100	N/A
Q2207-18	BU-703-COMP-02	N/A	N/A	N/A	N/A	100	N/A
Q2207-27	BU-703-COMP-03	N/A	N/A	N/A	N/A	100	N/A
Q2207-36	BU-703-COMP-04	N/A	N/A	N/A	N/A	100	N/A
Q2207-45	BU-703-COMP-05	N/A	N/A	N/A	N/A	100	N/A
Q2208-09	BU-703-COMP-06	N/A	N/A	N/A	N/A	100	N/A
Q2208-18	BU-703-COMP-07	N/A	N/A	N/A	N/A	100	N/A
Q2208-27	BU-703-COMP-08	N/A	N/A	N/A	N/A	100	N/A
Q2208-36	BU-703-COMP-09	N/A	N/A	N/A	N/A	100	N/A

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TCLP Fluid Determination

PB168271

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
PB168271TB	LEB271	N/A	N/A	N/A	N/A	#1	4.94
Q2192-01	SB-1	5.02	96.5	9.5	4.0	#1	4.94
Q2194-02	COMP-12	5.03	96.5	8.4	3.5	#1	4.94
Q2194-04	COMP-13	5.02	96.5	8.2	3.5	#1	4.94
Q2198-02	B-202-SB02	5.02	96.5	6.6	2.5	#1	4.94
Q2198-04	~~B-207-SB~~01 B-207-SB02	5.03	96.5	8.0	3.0	#1	4.94
Q2206-04	TP-1	5.02	96.5	7.6	2.5	#1	4.94
Q2207-09	BU-703-COMP-01	5.03	96.5	7.0	2.0	#1	4.94
Q2207-18	BU-703-COMP-02 06-11-2025	5.02	96.5	5.5	1.5	#1	4.94
Q2207-27	BU-703-COMP-03	5.01	96.5	6.0	2.0	#1	4.94
Q2207-36	BU-703-COMP-04	5.02	96.5	7.2	2.0	#1	4.94
Q2207-45	BU-703-COMP-05	5.03	96.5	5.5	1.5	#1	4.94
Q2208-09	BU-703-COMP-06	5.02	96.5	5.6	2.0	#1	4.94
Q2208-18	BU-703-COMP-07	5.03	96.5	5.5	1.5	#1	4.94
Q2208-27	BU-703-COMP-08	5.02	96.5	6.0	2.0	#1	4.94
Q2208-36	BU-703-COMP-09	5.01	96.5	7.0	2.5	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP Q2198 **WorkList ID :** 189914 **Department :** TCLP Extraction **Date :** 06-04-2025 09:51:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2192-01	SB-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	06/03/2025	1311
Q2194-02	COMP-12	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311
Q2194-04	COMP-13	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	06/03/2025	1311
Q2198-02	B-202-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	N22	05/31/2025	1311
Q2198-04	~~B-207-SB01~~ B-207-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	N22	06/01/2025	1311
Q2206-04	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/04/2025	1311
Q2207-09	BU-703-COMP-01	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-18	BU-703-COMP-02	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-27	BU-703-COMP-03	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-36	BU-703-COMP-04	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2207-45	BU-703-COMP-05	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-09	BU-703-COMP-06	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-18	BU-703-COMP-07	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-27	BU-703-COMP-08	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311
Q2208-36	BU-703-COMP-09	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	06/02/2025	1311

Date/Time 06/04/25 12:00

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 06/04/25 17:30

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168330

SOP ID:	M3510C,3580A-Extraction Pesticide-16				
Clean Up SOP #:	N/A			**Extraction Start Date :**	06/06/2025
Matrix :	Water			**Extraction Start Time :**	12:32
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	06/06/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	17:10
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,5,6,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP24285
Surrogate	1.0ML	200 PPB	PP24597
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3939
Baked Na2SO4	N/A	EP2620
Hexane	N/A	E3938
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS723.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/6/25	RS (BH-Lab)	R. Patel / PCB Lab
17:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168330

Analytical Method: M3510C,3580A-Extraction Pesticide-16 **Concentration Date:** 06/06/2025

Sample ID	Client Sample ID	Test	g /(mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168271TB	PB168271TB	TCLP Pesticide	100	6	RUPESH	ritesh	10			SEP-1
PB168311TB	PB168311TB	TCLP Pesticide	100	6	RUPESH	ritesh	10			2
PB168330BL	PBLK330	TCLP Pesticide	1000	6	RUPESH	ritesh	10			3
PB168330BS	PLCS330	TCLP Pesticide	1000	6	RUPESH	ritesh	10			4
Q2198-02	B-202-SB02	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		5
Q2198-04	B-207-SB02	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		6
Q2198-04MS	B-207-SB02MS	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		7
Q2198-04MSD	B-207-SB02MSD	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		8
Q2207-09	BU-703-COMP-01	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		9
Q2207-18	BU-703-COMP-02	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		10
Q2207-27	BU-703-COMP-03	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		11
Q2207-36	BU-703-COMP-04	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		12
Q2207-45	BU-703-COMP-05	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		13
Q2208-09	BU-703-COMP-06	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		14
Q2208-18	BU-703-COMP-07	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		15
Q2208-27	BU-703-COMP-08	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		16
Q2208-36	BU-703-COMP-09	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		SEP-1
Q2235-03	WC-A2-08-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		2
Q2236-03	WC-A4-05A-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		3
Q2236-07	WC-A2-04-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		4
Q2236-11	WC-A2-05-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		5
Q2236-15	WC-A2-06-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		6
Q2236-19	WC-A2-07-C	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		7

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* **Extracts relinquished on the same date as received.**

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TCLP EXTRACTION LOGPAGE

PB168271

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
PB168271TB	LEB271	16	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q2192-01	SB-1	01	100.02	2000	N/A	N/A	N/A	8.2	1.0	T-1
Q2194-02	COMP-12	02	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
Q2194-04	COMP-13	03	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2198-02	B-202-SB02	04	100.03	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2198-04	B-207-SB01	05	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2206-04	TP-1	06	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2207-09	BU-703-COMP-01	07	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q2207-18	BU-703-COMP-02	08	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2207-27	BU-703-COMP-03	09	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2207-36	BU-703-COMP-04	10	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2207-45	BU-703-COMP-05	11	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-09	BU-703-COMP-06	12	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q2208-18	BU-703-COMP-07	13	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2208-27	BU-703-COMP-08	14	100.01	2000	N/A	N/A	N/A	5.0	1.5	T-2
Q2208-36	BU-703-COMP-09	15	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-2

06/05/25
11.30

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168311

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
PB168311TB	LEB311	16	N/A	2000	N/A	N/A	N/A	4.93	1.0	T-2
Q2226-04	TP06-MHI-WC	01	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2227-04	TP07-MHH-WC	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2228-04	TP08-MHI-WC	03	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2235-03	WC-A2-08-C	04	100.01	2000	N/A	N/A	N/A	12.0	1.5	T-1
Q2236-03	WC-A4-05A-C	05	100.02	2000	N/A	N/A	N/A	12.0	1.0	T-1
Q2236-07	WC-A2-04-C	06	100.03	2000	N/A	N/A	N/A	12.0	1.5	T-1
Q2236-11	WC-A2-05-C	07	100.00	2000	N/A	N/A	N/A	12.0	1.0	T-1
Q2236-15	WC-A2-06-C	08	100.01	2000	N/A	N/A	N/A	11.5	1.5	T-1
Q2236-19	WC-A2-07-C	09	100.02	2000	N/A	N/A	N/A	11.5	1.0	T-1
Q2240-04	TP-3	10	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
Q2240-08	TP-2	11	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q2240-12	TP-1	12	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q2241-04	TP-N	13	100.04	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q2241-08	TP-S	14	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q2242-04	TP09-MHJ	15	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-2

06106125

11:30

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

Prep Standard - Chemical Standard Summary

Order ID : Q2198

Test : TCLP Pesticide

Prepbatch ID : PB168330,

Sequence ID/Qc Batch ID: Pd060925,

Standard ID :

EP2620,PP24095,PP24255,PP24256,PP24257,PP24258,PP24259,PP24260,PP24261,PP24262,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284,PP24285,PP24329,PP24433,PP24597,

Chemical ID :

E3551,E3847,E3876,E3877,E3914,E3932,E3938,E3939,P12603,P12611,P13037,P13040,P13195,P13245,P13356,P13357,P13405,P13785,P13861,P9052,W3177,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2620	05/30/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/30/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
465	200 PPB Pest/PCB Surrogate Spike	PP24597	05/20/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel 05/22/2025

FROM 1.00000ml of P13357 + 999.00000ml of E3932 = Final Quantity: 1000.000 ml

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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	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	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 /	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	/	05/14/2025 / RUPESH	E3938

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)	25A2862010	11/22/2025	05/22/2025 / RUPESH	02/28/2025 / RUPESH	E3939

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

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

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CHEMICAL RECEIPT LOG BOOK

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	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	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	11/20/2025	05/20/2025 / Abdul	04/22/2024 / Abdul	P13357

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

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

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CHEMICAL RECEIPT LOG BOOK

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 QUIMICOS 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_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_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 foreing 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 RB on 7/24/23 E3551

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

avantor™ | J.T.Baker®

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)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

Recd. by RP on 12/13/24

E3847

J Croak

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

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™ | J.T.Baker

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

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

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

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

E 3932

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

avantor | J.T.Baker

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) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	<= 0.05 %	<0.01 %

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

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

E3938

JCroak
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

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

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date:2026-03-19
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	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 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

E3939

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

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

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Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P12614 V P12615 Five

7/3/2023

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

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.)

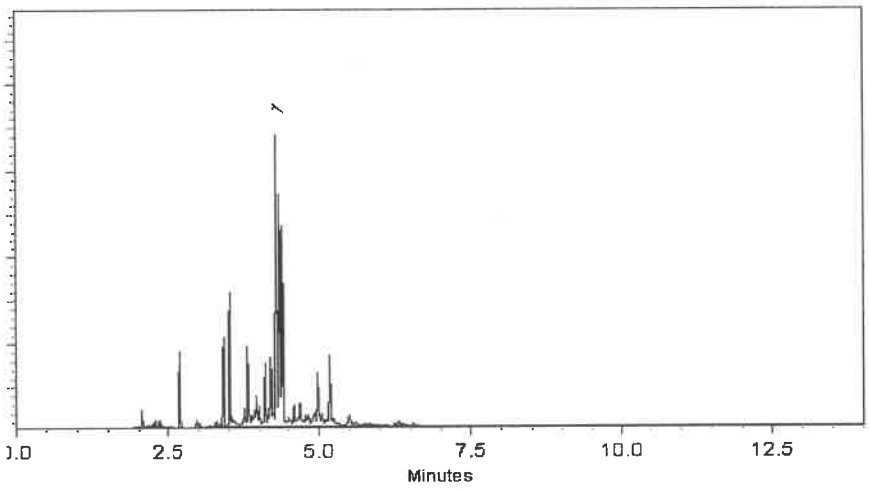
Inj. Temp:
250°C

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 - Operations Tech I

Date Mixed: 06-Jan-2023 **Balance Serial #** B442140311

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

P12691 ↓ P12695

7/3/2023

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Testing Laboratory
Certificate #3222.02

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.

P130397 } 5
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P130431

12.26.2023

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

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 5
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P13043 1
12/26/23

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 20 psi.

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

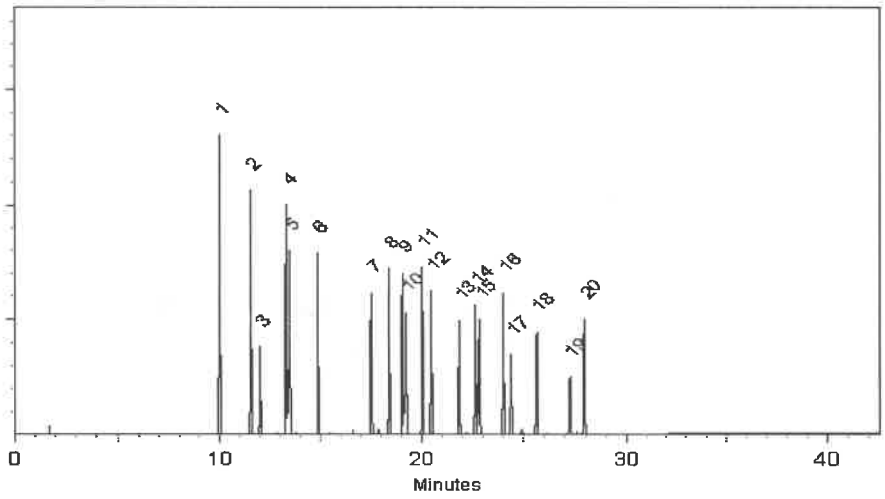
Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
Split ratio 50:1

Inj. Vol
1µl



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

Josh McCloskey - Operations Technician I

Date Mixed: 19-Jun-2023 **Balance Serial #** 1128360905

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 79136
Lot Number: 042022
Description: Mirex

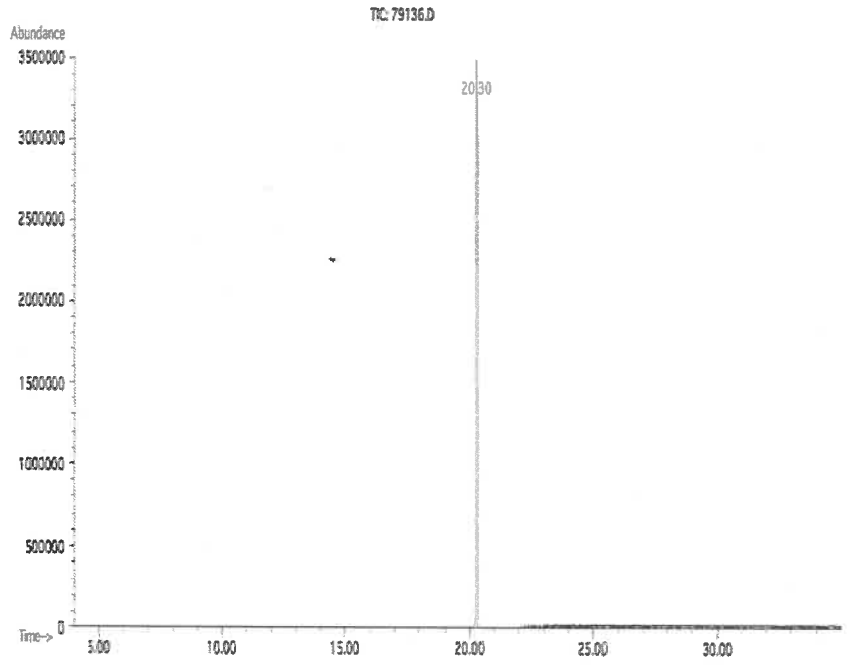
Solvent(s): Acetone **Lot#** 81025

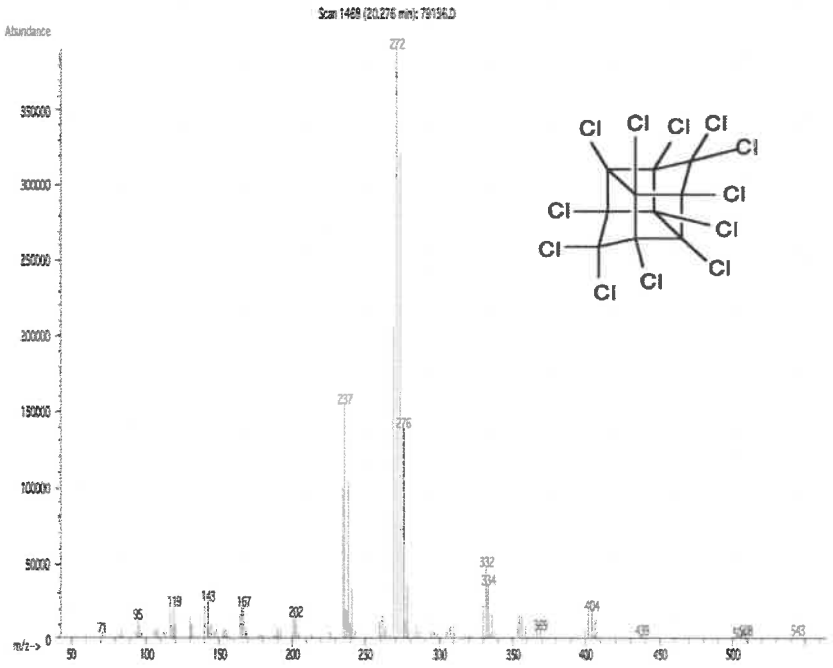
Expiration Date: 042027
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.006 Flask Uncertainty

Prashant Chauhan	042022	
Formulated By:	Prashant Chauhan	DATE
Pedro L. Rentas	042022	
Reviewed By:	Pedro L. Rentas	DATE

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





P13195
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P13199
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(5)
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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 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).

P13195
↓
P13199

(5)

Bauer (?)
01/17/2024

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Certificate of Analysis

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P12603 (3)
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P12605

7/3/2023

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

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

* 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.)

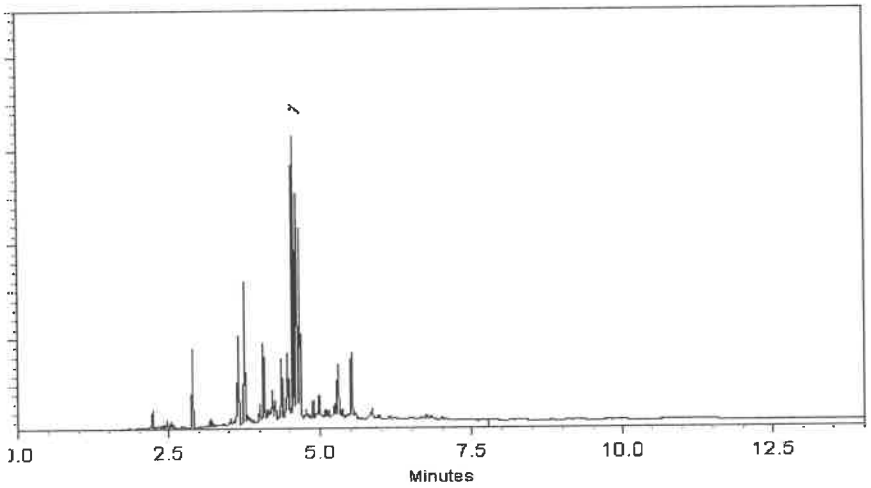
Inj. Temp:
250°C

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.

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

P12603 & P12605 (3)

7/3/2023

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

P 13034 } 5
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P 13038

12.26.2023

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

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) 5
↓
P13038 1

12/26/2023

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 20 psi.

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

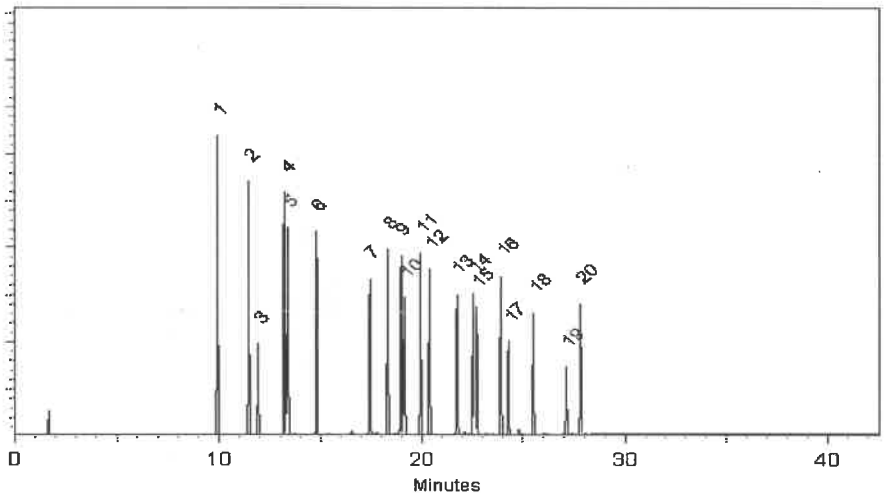
Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
Split ratio 50:1

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

Date Mixed: 31-Jul-2023 **Balance Serial #** B442140311

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 19161
Lot Number: 013124
Description: CLP Pesticides & PCB's Resolution Check Standard
9 components

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

Expiration Date: 013129
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Volume(s) shown below were combined and diluted to (mL): 100.0 ± 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	013124 DATE
Reviewed By:	Pedro L. Rentas	013124 DATE

	Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) 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)	orl-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)	orl-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	orl-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)	orl-rat 38300ug/kg
5.	Endosulfan sulfate	19361	013124	0.010	1.00	0.004	204.2	2.0	0.03	1031-07-8	N/A	orl-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	orl-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 } (5)
thru
P13247

02/9/2024

- 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 ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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P13348 → P13357 (10)

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

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:
hellum-constant pressure 20 psi.

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

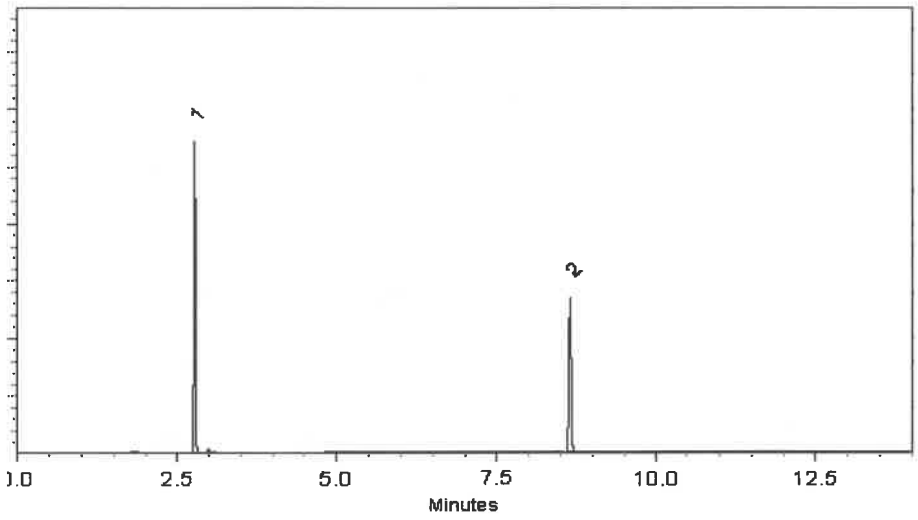
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P13348 (10)

↓

P13357

04/25/2025

RESTEK
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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P13348 → P13357 (10)

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

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:
hellum-constant pressure 20 psi.

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

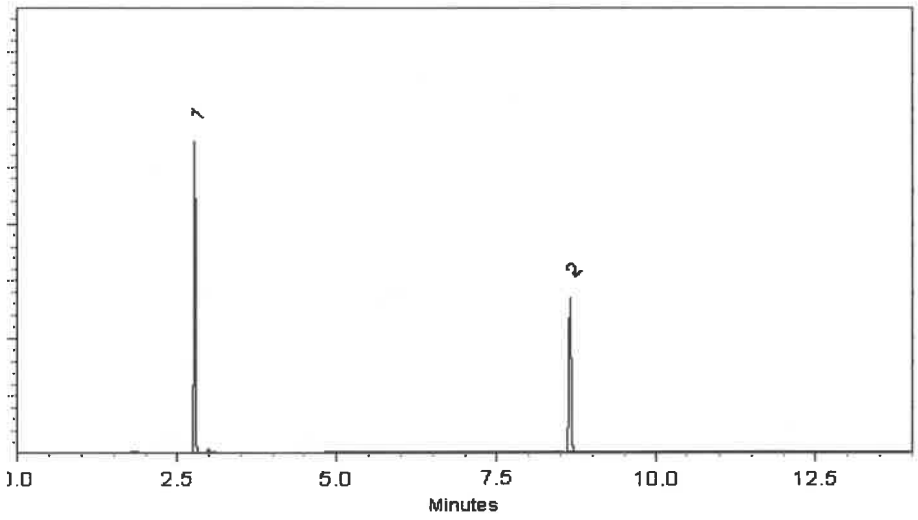
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P13348 (10)

↓

P13357

04/25/2025

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

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.

P13402 & P13406 (5)

5/22/2024

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

Description : Toxaphene Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

Solvent: Hexane

CAS # 110-54-3

Purity 99%

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.)

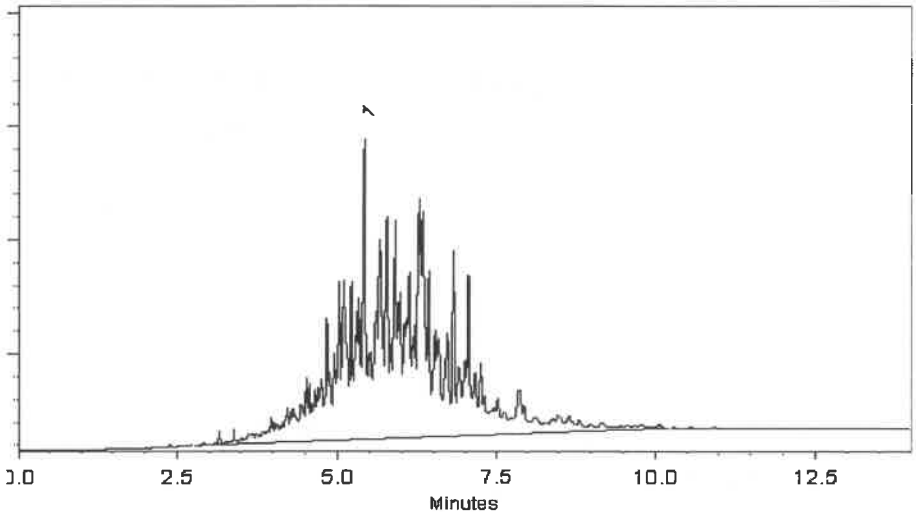
Inj. Temp:
250°C

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

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

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CERTIFIED REFERENCE MATERIAL

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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 ↓ P19789 AJ 11/19/24

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.)

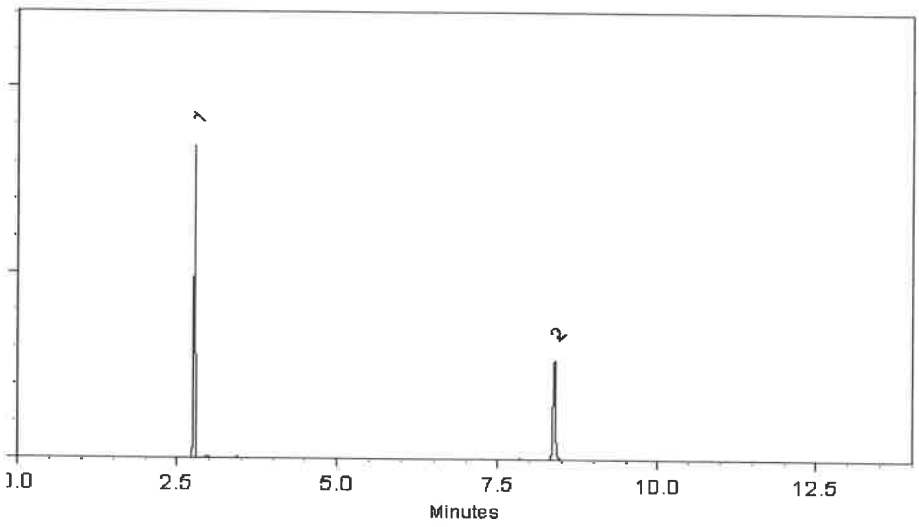
Inj. Temp:
250°C

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.

Aaron Enyart - Operations Tech I

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

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

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Fax: 1-814-353-1309

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chromatographic plus

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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 (2)

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.)

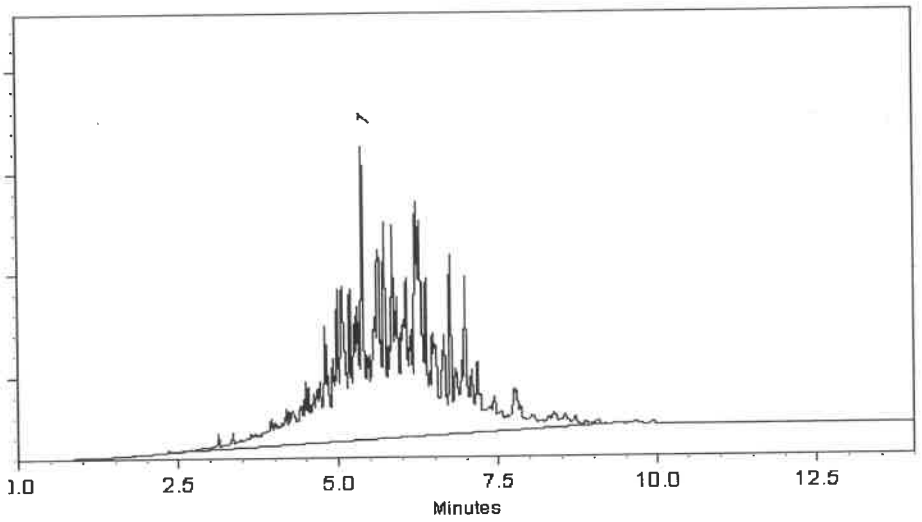
Inj. Temp:
250°C

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

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

Received by SG on 11/1/19
P9044 - P9053

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

Solvent(s):	Lot#
Methylene chloride	102669

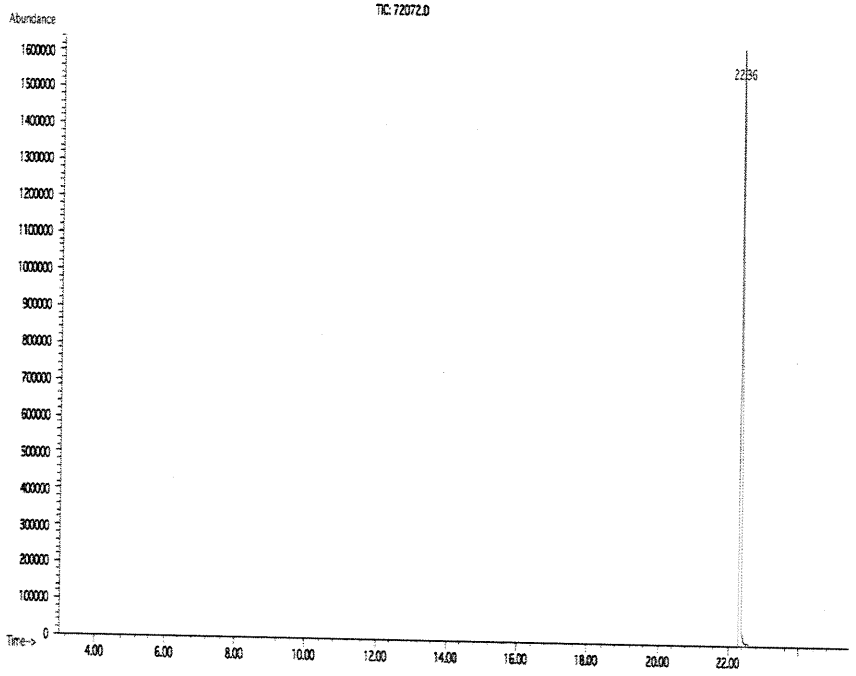
5E-05 Balance Uncertainty

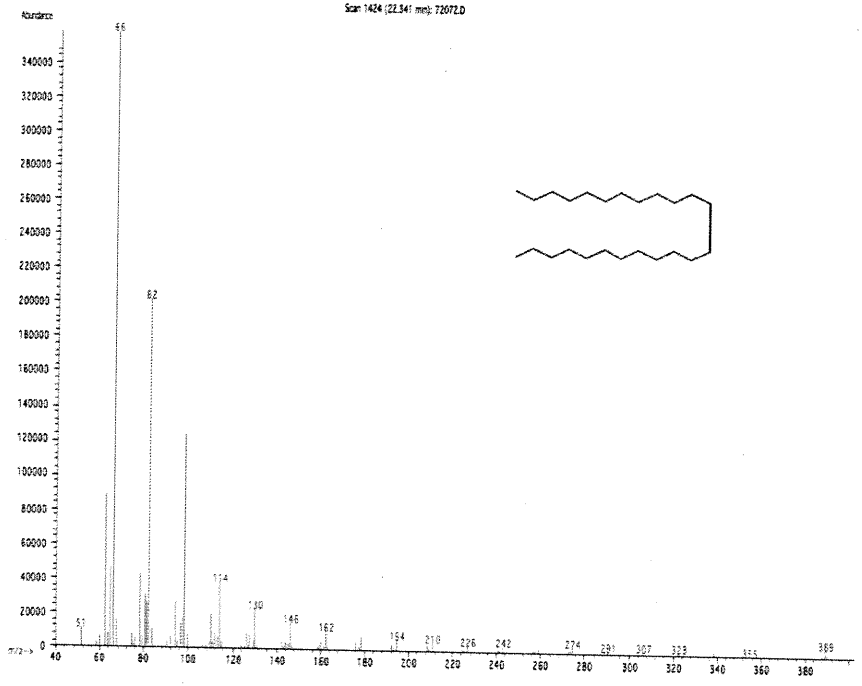
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

Formulated By:	Prashant Chauhan	112018 DATE
Reviewed By:	Pedro Rentas	112018 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. n-Tetracosane-d50	2072	PR-17753/09216TC1	1000	98	0.2	0.20411	0.20415	1000.2	4.2	16416-32-3	N/A	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.





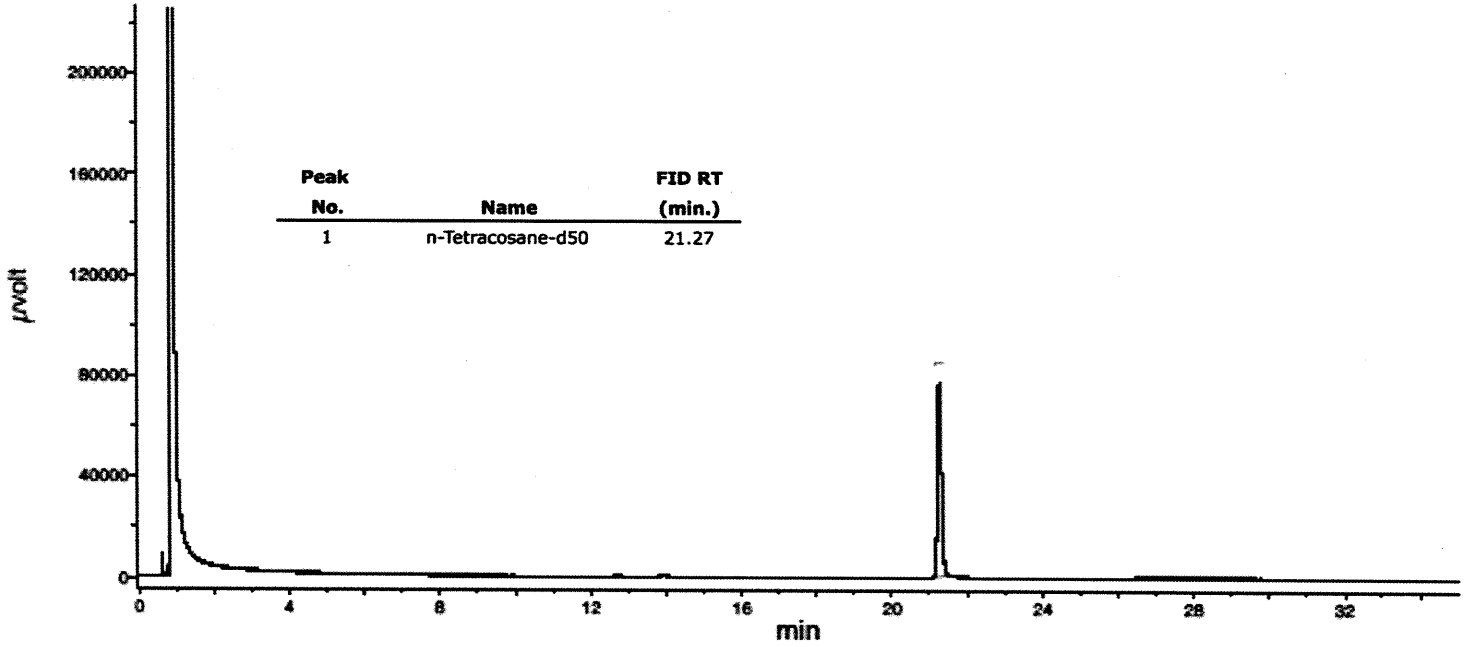
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value,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

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 1.5um 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 uL, Range = 3



Peak No.	Name	FID RT (min.)
1	n-Tetracosane-d50	21.27

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

avantor™ | J.T.Baker®

W3147

W3147 update. 02/03/2025 JP

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)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2198
COC Number 2046410

CLIENT INFORMATION	CLIENT PROJECT INFORMATION	CLIENT BILLING INFORMATION
REPORT TO BE SENT TO: COMPANY: Gannet Fleming	PROJECT NAME: AMTRAK Sawtooth	BILL TO: Alliance PO#:
ADDRESS: 1010 Adams Avenue	PROJECT NO.: 950000878 LOCATION: Kearny, NJ	ADDRESS: 284 Sheffield
CITY Audubon STATE: PA ZIP: 19403	PROJECT MANAGER: Joe Krupensky	CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Joe Krupensky	e-mail: QAQC@BEMSYS.com	ATTENTION: Samantha Beasly PHONE: 9887283143
PHONE: 610-310-8342 FAX:	PHONE: 6103108342 FAX:	

DATA TURNAROUND INFORMATION

FAX (RUSH) ____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 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 + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other
❑ EDD FORMAT BCM BPD

ANALYSIS

1. TCL VOC + 10
2. SVOC - BNA - 20
3. PCB
4. ~~Pesticides~~
5. TAL Metals
6. Cr(III), Cr(IV)
7. Full TCLP, RCRA
8. EPH
9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	COMP	GRAB	DATE	TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	B-202-SB02	S		X	5/31/25	1605	6	X	X	X		X	X	X	X	X	
2.	B-202-GW01	GW		X	|	2000	8	X	X	X		X	X	X	X	X	
3.	B-207-SB02	S		X	6/1/25	11:00	7	X	X	X		X	X	X	X	X	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES — ← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Vanda Pujara	06/02 - 9:52	1. [signature] 0452 6-3-25
2.		2.
3. [signature]	1902 6-3-25	3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 3.3 °C
Comments:

Page ____ of
CLIENT: ❑ Hand Delivered ❑ Other
Shipment Complete ❑ YES ❑ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

Laboratory Certification

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

QA Control Code: A2070148

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2198 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 6/3/2025 2:31:00 PM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 6/3/2025 ~~12:00:00~~ AM
Purchase Order : 19:02

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2198-01	B-202-SB02	Solid	05/31/2025	16:55	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2198-03	~~B-207-SB01~~ B-207-SB02	Solid	06/01/2025	~~20:00~~ 11:04	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2198-05	B-202-GW01	Water	05/31/2025	~~11:04~~ 20:00	VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 6/4/25 1040

Samples received on 6/3/25
Samples placed in SM-REF-2

Received By :
Date / Time : 06/04/25 10:40

Storage Area : VOA Refridgerator Room

Reg #4
Reg #6
FR2 - 2