

Cover Page

Order ID : Q2032

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number

Q2032-01
Q2032-02
Q2032-03
Q2032-04
Q2032-05
Q2032-06
Q2032-07
Q2032-08
Q2032-09
Q2032-11
Q2032-12

Client Sample Number

TP-11
TP-29
TP-29-99
TP-24
Q2032-04MS
Q2032-04MSD
TP-37
TP-32
COMP-1
FB-05132025
TB

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 5/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2032

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: 05/23/2025

LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-02	TP-29	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/15/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-03	TP-29-99	SOIL			05/13/25			05/13/25
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-04	TP-24	SOIL			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Gasoline Range Organics	8015D			05/15/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-07	TP-37	SOIL			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	

LAB CHRONICLE

Q2032-08	TP-32	SOIL			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/20/25	05/21/25	
			Gasoline Range Organics	8015D			05/16/25	
			Herbicide	8151A		05/16/25	05/19/25	
			PCB	8082A		05/16/25	05/16/25	
			Pesticide-TCL	8081B		05/16/25	05/16/25	
Q2032-09	COMP-1	TCLP			05/13/25			05/13/25
			TCLP Herbicide	8151A		05/19/25	05/20/25	
			TCLP Pesticide	8081B		05/19/25	05/19/25	
Q2032-11	FB-05132025	Water			05/13/25			05/13/25
			Diesel Range Organics	8015D		05/16/25	05/19/25	
			Gasoline Range Organics	8015D			05/14/25	
			Herbicide	8151A		05/14/25	05/15/25	
			PCB	8082A		05/14/25	05/15/25	
			Pesticide-TCL	8081B		05/14/25	05/14/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q2032

Order ID: Q2032

Client: CDM Smith

Project ID: South River WM Replacement

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

Total Concentration: 0.000



QC SUMMARY

Surrogate Summary

SDG No.: Q2032

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PD088583.D	PIBLK-PD088583.D	Decachlorobiphenyl	1	20	18.4	92		43	140
		Tetrachloro-m-xylene	1	20	16.5	83		77	126
		Decachlorobiphenyl	2	20	18.0	90		43	140
		Tetrachloro-m-xylene	2	20	16.9	84		77	126
I.BLK-PD088613.D	PIBLK-PD088613.D	Decachlorobiphenyl	1	20	15.0	75		43	140
		Tetrachloro-m-xylene	1	20	17.3	87		77	126
		Decachlorobiphenyl	2	20	15.6	78		43	140
		Tetrachloro-m-xylene	2	20	18.1	91		77	126
PB168066BL	PB168066BL	Decachlorobiphenyl	1	20	19.6	98		43	140
		Tetrachloro-m-xylene	1	20	18.2	91		77	126
		Decachlorobiphenyl	2	20	19.2	96		43	140
		Tetrachloro-m-xylene	2	20	19.9	100		77	126
PB167994TB	PB167994TB	Decachlorobiphenyl	1	20	20.7	104		43	140
		Tetrachloro-m-xylene	1	20	19.2	96		77	126
		Decachlorobiphenyl	2	20	20.4	102		43	140
		Tetrachloro-m-xylene	2	20	20.9	104		77	126
Q2027-03MS	B27-SOIL-SAMPLEMS	Decachlorobiphenyl	1	20	13.0	65		43	140
		Tetrachloro-m-xylene	1	20	16.6	83		77	126
		Decachlorobiphenyl	2	20	12.3	62		43	140
		Tetrachloro-m-xylene	2	20	18.1	90		77	126
Q2027-03MSD	B27-SOIL-SAMPLEMSD	Decachlorobiphenyl	1	20	13.0	65		43	140
		Tetrachloro-m-xylene	1	20	16.6	83		77	126
		Decachlorobiphenyl	2	20	12.7	64		43	140
		Tetrachloro-m-xylene	2	20	18.6	93		77	126
Q2032-09	COMP-1	Decachlorobiphenyl	1	20	21.6	108		43	140
		Tetrachloro-m-xylene	1	20	20.4	102		77	126
		Decachlorobiphenyl	2	20	20.6	103		43	140
		Tetrachloro-m-xylene	2	20	20.1	101		77	126
I.BLK-PD088625.D	PIBLK-PD088625.D	Decachlorobiphenyl	1	20	19.5	97		43	140
		Tetrachloro-m-xylene	1	20	17.9	89		77	126
		Decachlorobiphenyl	2	20	19.1	95		43	140
		Tetrachloro-m-xylene	2	20	18.5	92		77	126
I.BLK-PD088628.D	PIBLK-PD088628.D	Decachlorobiphenyl	1	20	20.2	101		43	140
		Tetrachloro-m-xylene	1	20	18.4	92		77	126
		Decachlorobiphenyl	2	20	19.7	99		43	140
		Tetrachloro-m-xylene	2	20	18.8	94		77	126
PB168066BS	PB168066BS	Decachlorobiphenyl	1	20	23.8	119		43	140
		Tetrachloro-m-xylene	1	20	21.2	106		77	126
		Decachlorobiphenyl	2	20	23.5	117		43	140
		Tetrachloro-m-xylene	2	20	22.7	113		77	126
I.BLK-PD088641.D	PIBLK-PD088641.D	Decachlorobiphenyl	1	20	18.0	90		43	140

Surrogate Summary

SDG No.: Q2032

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PD088641.D	PIBLK-PD088641.D	Tetrachloro-m-xylene	1	20	18.2	91		77	126
		Decachlorobiphenyl	2	20	17.7	88		43	140
		Tetrachloro-m-xylene	2	20	18.9	95		77	126

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2032</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PD088621.D</u>

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec Qual	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q2027-03MS (Column 1)	B27-SOIL-SAMPLEMS gamma-BHC (Lindane)	5	0	5.60	ug/L	112		60	152	
	Heptachlor	5	0	4.90	ug/L	98		56	147	
	Heptachlor epoxide	5	0	5.50	ug/L	110		77	143	
	Endrin	5	0	5.60	ug/L	112		76	144	
	Methoxychlor	5	0	4.90	ug/L	98		70	142	
Client Sample ID: Q2027-03MS (Column 2)	B27-SOIL-SAMPLEMS gamma-BHC (Lindane)	5	0	5.20	ug/L	104		60	152	
	Heptachlor	5	0	5.40	ug/L	108		56	147	
	Heptachlor epoxide	5	0	5.20	ug/L	104		77	143	
	Endrin	5	0	5.30	ug/L	106		76	144	
	Methoxychlor	5	0	4.80	ug/L	96		70	142	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2032</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PD088622.D</u>

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q2027-03MSD (Column 1)	B27-SOIL-SAMPLEMSD											
	gamma-BHC (Lindane)	5	0	5.60	ug/L	112		0		60	152	20
	Heptachlor	5	0	4.90	ug/L	98		0		56	147	20
	Heptachlor epoxide	5	0	5.50	ug/L	110		0		77	143	20
	Endrin	5	0	5.60	ug/L	112		0		76	144	20
	Methoxychlor	5	0	4.90	ug/L	98		0		70	142	20
Client Sample ID: Q2027-03MSD (Column 2)	B27-SOIL-SAMPLEMSD											
	gamma-BHC (Lindane)	5	0	5.30	ug/L	106		2		60	152	20
	Heptachlor	5	0	5.50	ug/L	110		2		56	147	20
	Heptachlor epoxide	5	0	5.30	ug/L	106		2		77	143	20
	Endrin	5	0	5.30	ug/L	106		0		76	144	20
	Methoxychlor	5	0	4.90	ug/L	98		2		70	142	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2032</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>PD088633.D</u>

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB168066BS (Column 1)	gamma-BHC (Lindane)	5	5.30	ug/L	106				82	129		
	Heptachlor	5	5.30	ug/L	106				79	127		
	Heptachlor epoxide	5	5.40	ug/L	108				81	124		
	Endrin	5	5.30	ug/L	106				81	128		
	Methoxychlor	5	4.60	ug/L	92				78	108		
PB168066BS (Column 2)	gamma-BHC (Lindane)	5	5.30	ug/L	106				82	129		
	Heptachlor	5	5.10	ug/L	102				79	127		
	Heptachlor epoxide	5	5.30	ug/L	106				81	124		
	Endrin	5	5.20	ug/L	104				81	128		
	Methoxychlor	5	4.60	ug/L	92				78	108		

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168066BL

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032

SAS No.: Q2032 SDG NO.: Q2032

Lab Sample ID: PB168066BL

Lab File ID: PD088616.D

Matrix: (soil/water) water

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 05/19/2025

Date Analyzed (1): 05/19/2025

Date Analyzed (2): 05/19/2025

Time Analyzed (1): 20:26

Time Analyzed (2): 20:26

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
PB167994TB	PB167994TB	PD088618.D	05/19/2025	05/19/2025
B27-SOIL-SAMPLEMS	Q2027-03MS	PD088621.D	05/19/2025	05/19/2025
B27-SOIL-SAMPLEMSD	Q2027-03MSD	PD088622.D	05/19/2025	05/19/2025
COMP-1	Q2032-09	PD088624.D	05/19/2025	05/19/2025
PB168066BS	PB168066BS	PD088633.D	05/20/2025	05/20/2025

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	05/19/25
Client Sample ID:	PB167994TB	SDG No.:	Q2032
Lab Sample ID:	PB167994TB	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
PD088618.D	1	05/19/25 09:20	05/19/25 20:54	PB168066

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.7		43 - 140	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.9		77 - 126	104%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088618.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 20:54
Operator : AR\AJ
Sample : PB167994TB
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB167994TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:45:07 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...	3.551	2.882	41487945	315.7E6	19.174	20.868
28) SA Decachlor...	9.077	8.076	70864179	371.8E6	20.706	20.364

Target Compounds

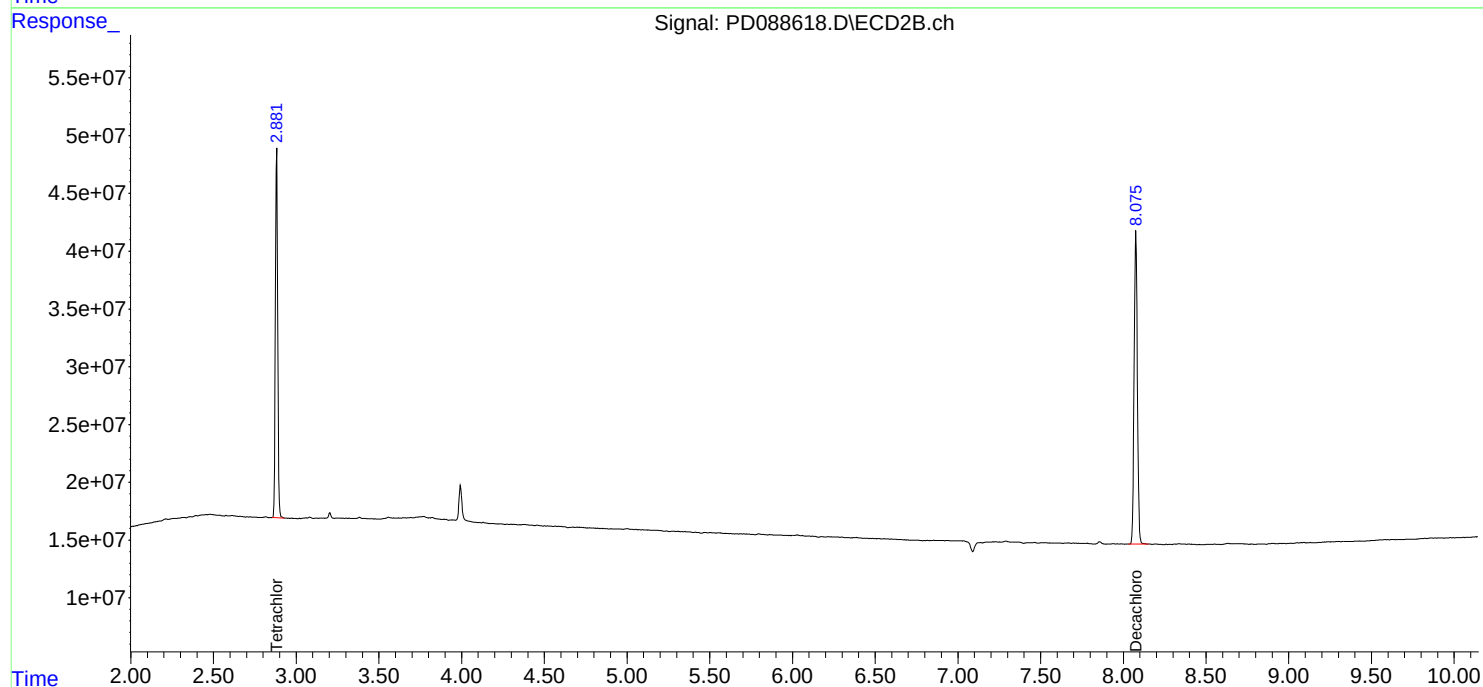
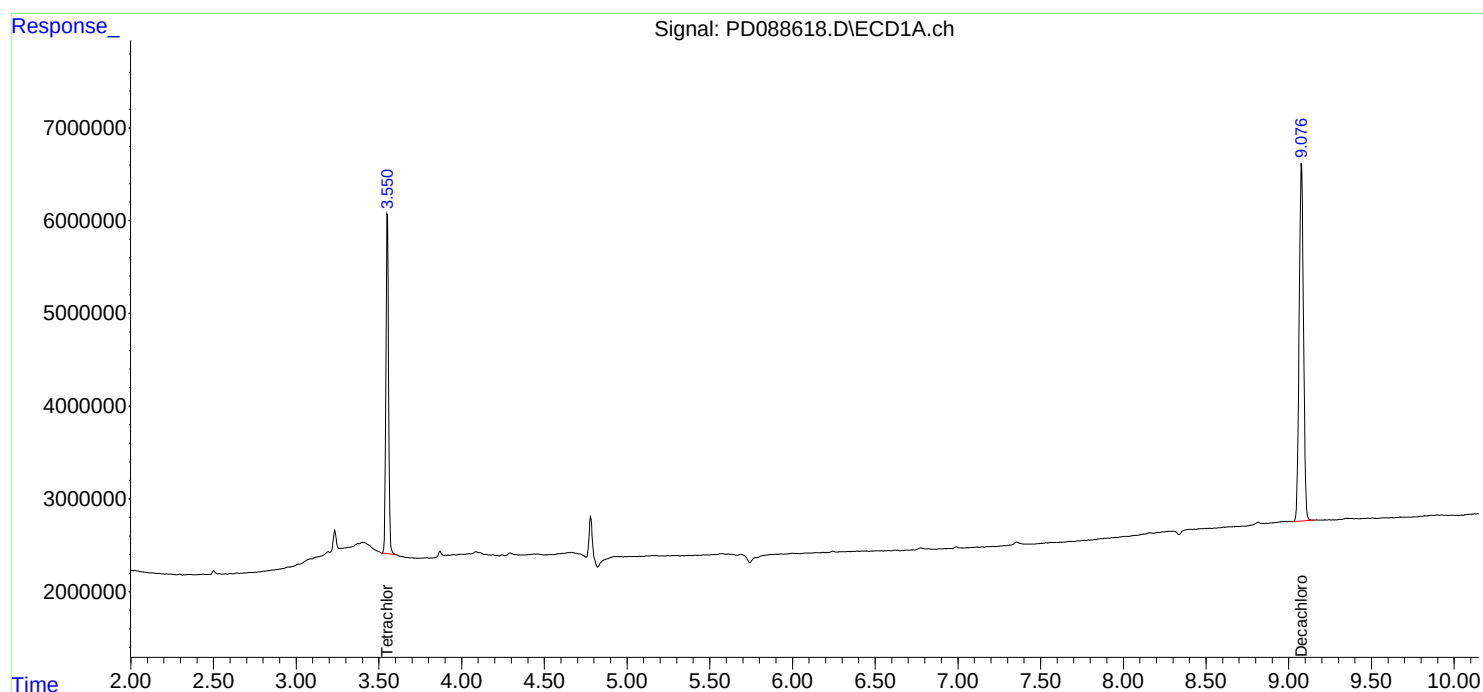
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

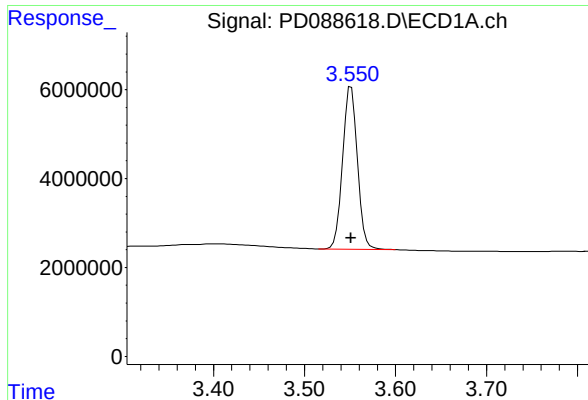
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088618.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 20:54
Operator : AR\AJ
Sample : PB167994TB
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB167994TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:45:07 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

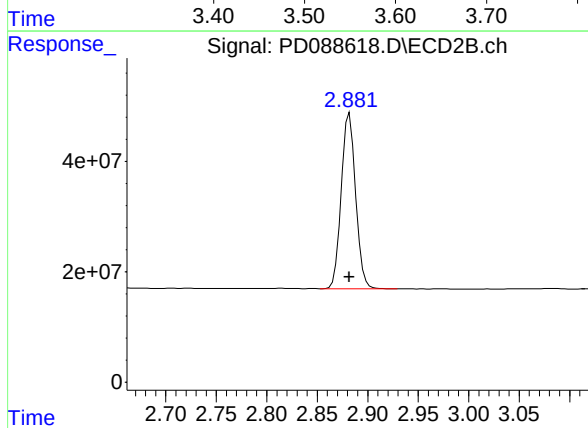




#1 Tetrachloro-m-xylene

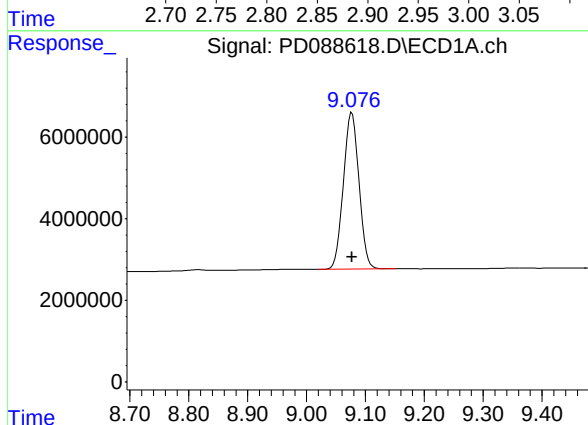
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 41487945
Conc: 19.17 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167994TB



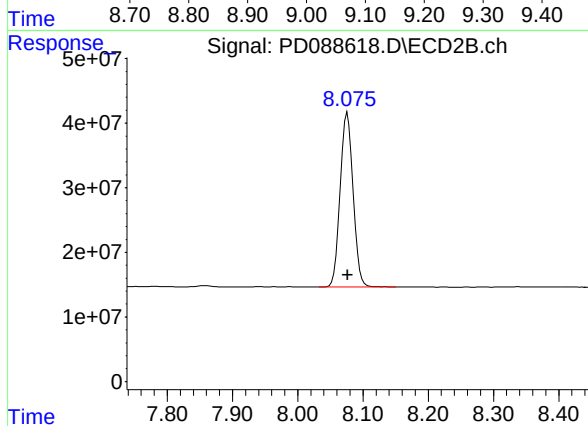
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 315662897
Conc: 20.87 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 70864179
Conc: 20.71 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 371771068
Conc: 20.36 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	COMP-1	SDG No.:	Q2032
Lab Sample ID:	Q2032-09	Matrix:	TCLP
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Pesticide
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088624.D	1	05/19/25 09:20	05/19/25 22:16	PB168066

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	21.6		43 - 140	108%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		77 - 126	102%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
 Data File : PD088624.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 May 2025 22:16
 Operator : AR\AJ
 Sample : Q2032-09
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 COMP-1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 20 04:46:45 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...	3.551	2.882	44096430	304.9E6	20.380	20.155
28) SA Decachlor...	9.076	8.076	73943462	376.7E6	21.606	20.634

Target Compounds

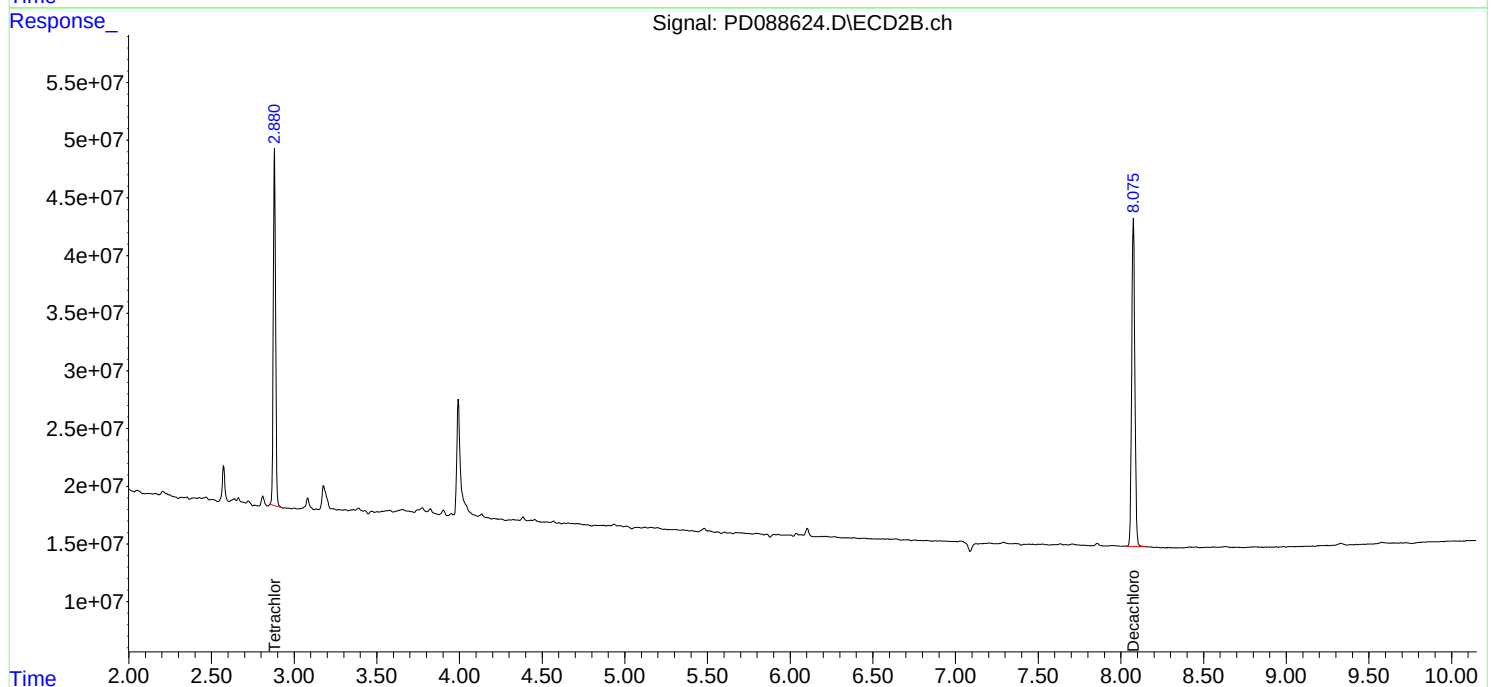
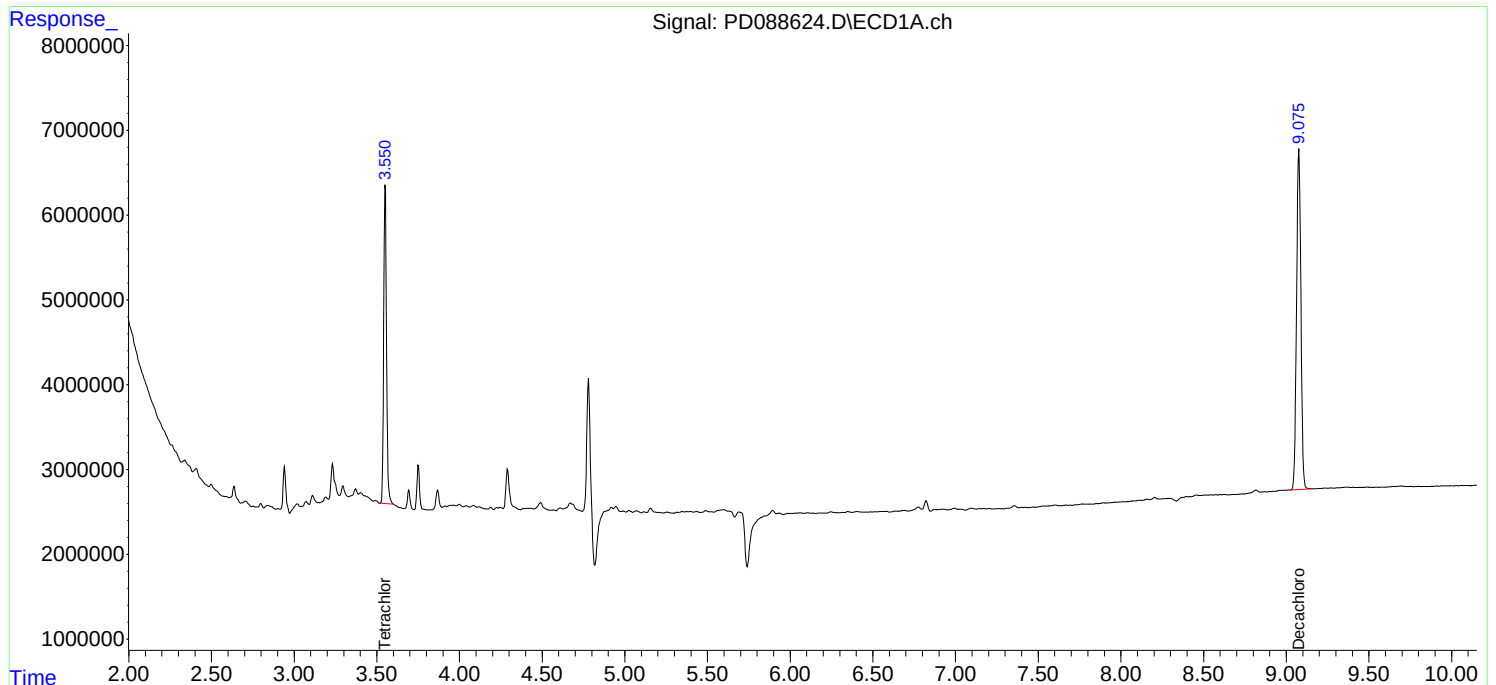
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

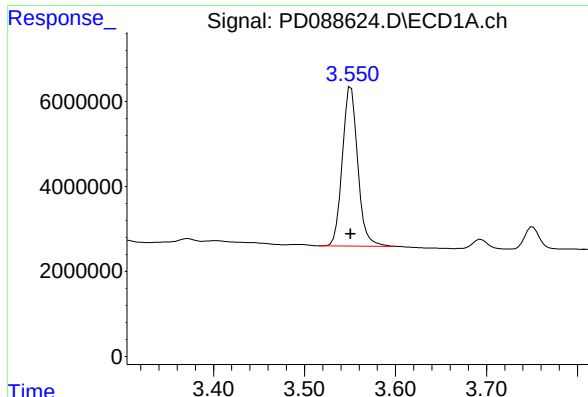
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088624.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 22:16
Operator : AR\AJ
Sample : Q2032-09
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
COMP-1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:46:45 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

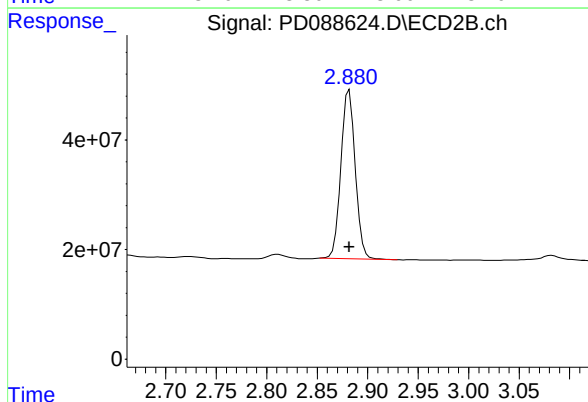




#1 Tetrachloro-m-xylene

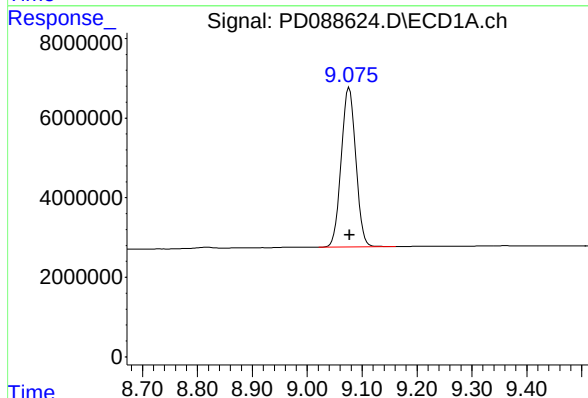
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 44096430
Conc: 20.38 ng/ml

Instrument :
ECD_D
ClientSampleId :
COMP-1



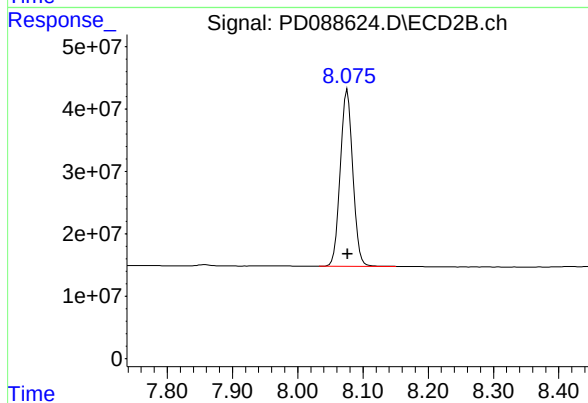
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 304879504
Conc: 20.15 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: 0.000 min
Response: 73943462
Conc: 21.61 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 376692215
Conc: 20.63 ng/ml



CALIBRATION SUMMARY

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

[illegible]

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

[illegible]



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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 =	<u>PD088586.D</u>	CF 075 =	<u>PD088587.D</u>		
CF 050 =		<u>PD088588.D</u>	CF 025 =	<u>PD088589.D</u>	CF 005 =	<u>PD088590.D</u>	
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



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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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 =	<u>PD088586.D</u>	CF 075 =	<u>PD088587.D</u>		
CF 050 =		<u>PD088588.D</u>	CF 025 =	<u>PD088589.D</u>	CF 005 =	<u>PD088590.D</u>	
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



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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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		CALIBRATION FACTOR
				FROM	TO	
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



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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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		CALIBRATION FACTOR
				FROM	TO	
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

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
2) 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

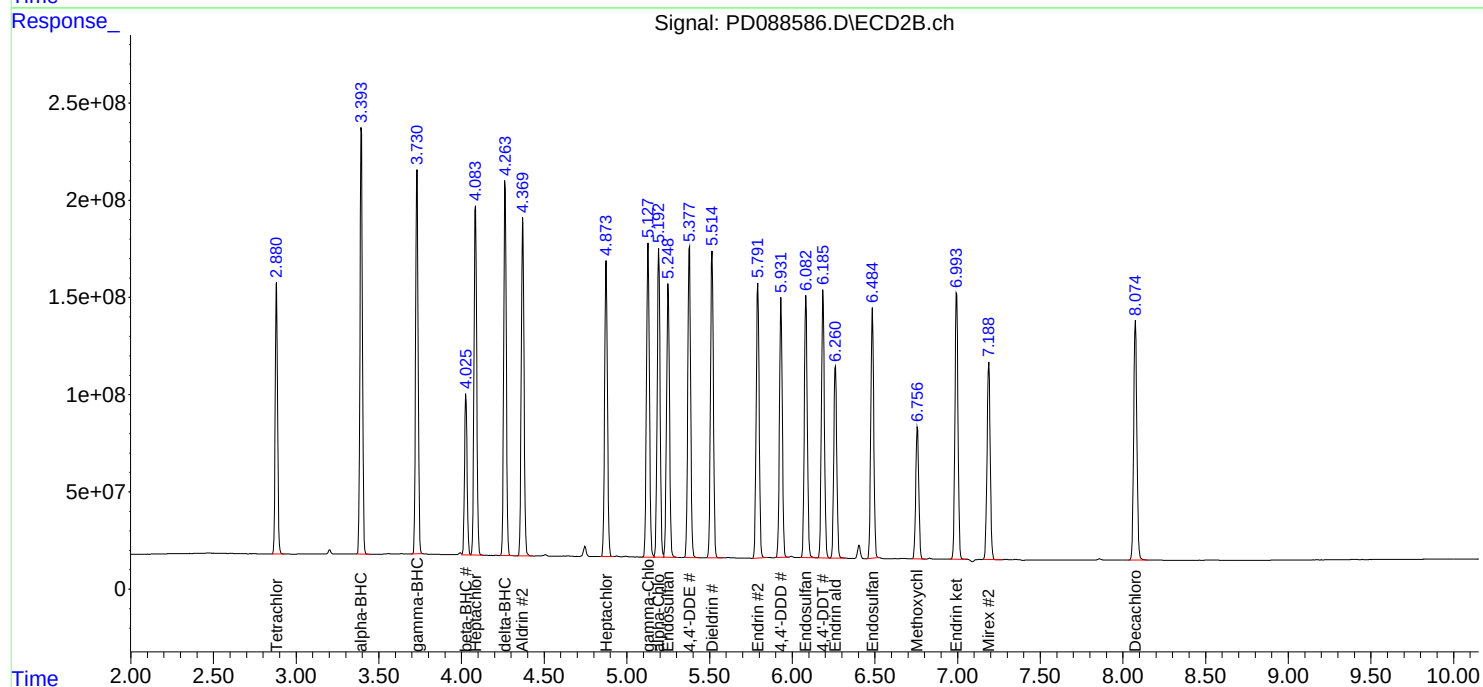
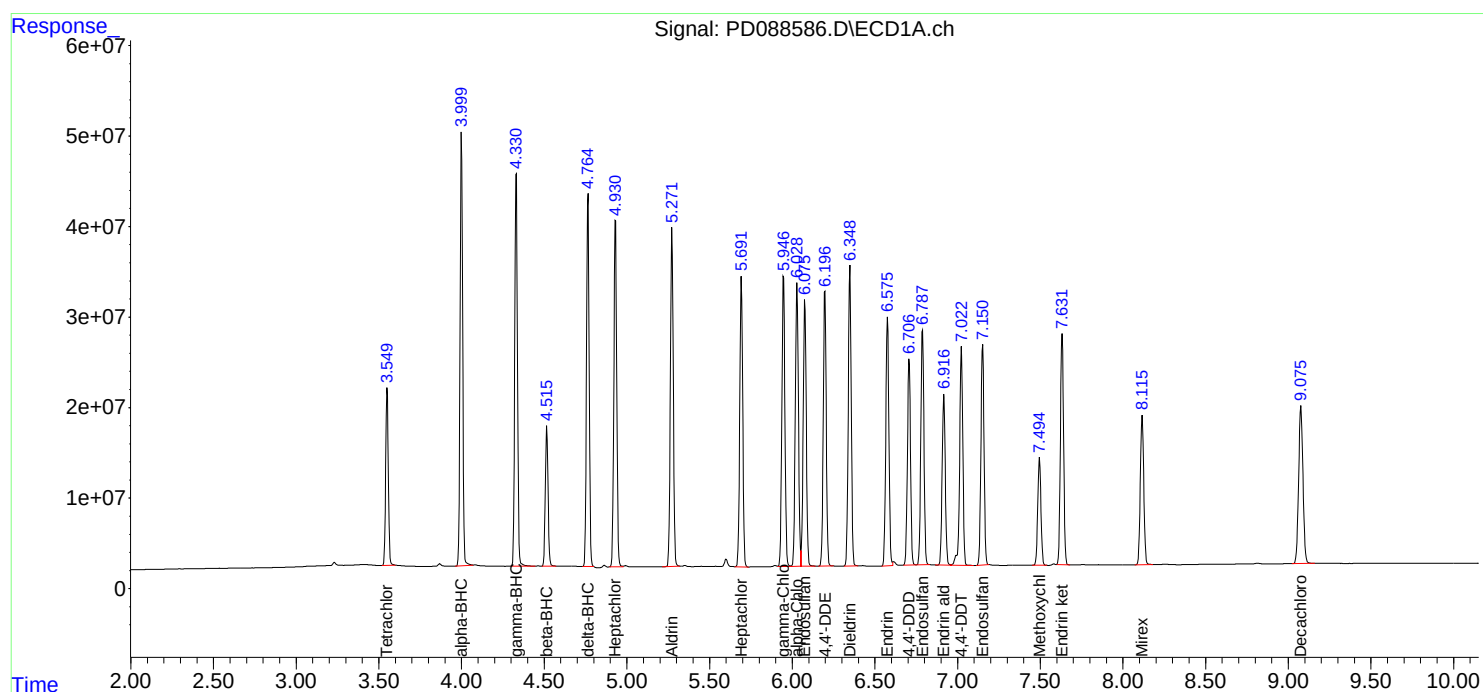
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



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
2)	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

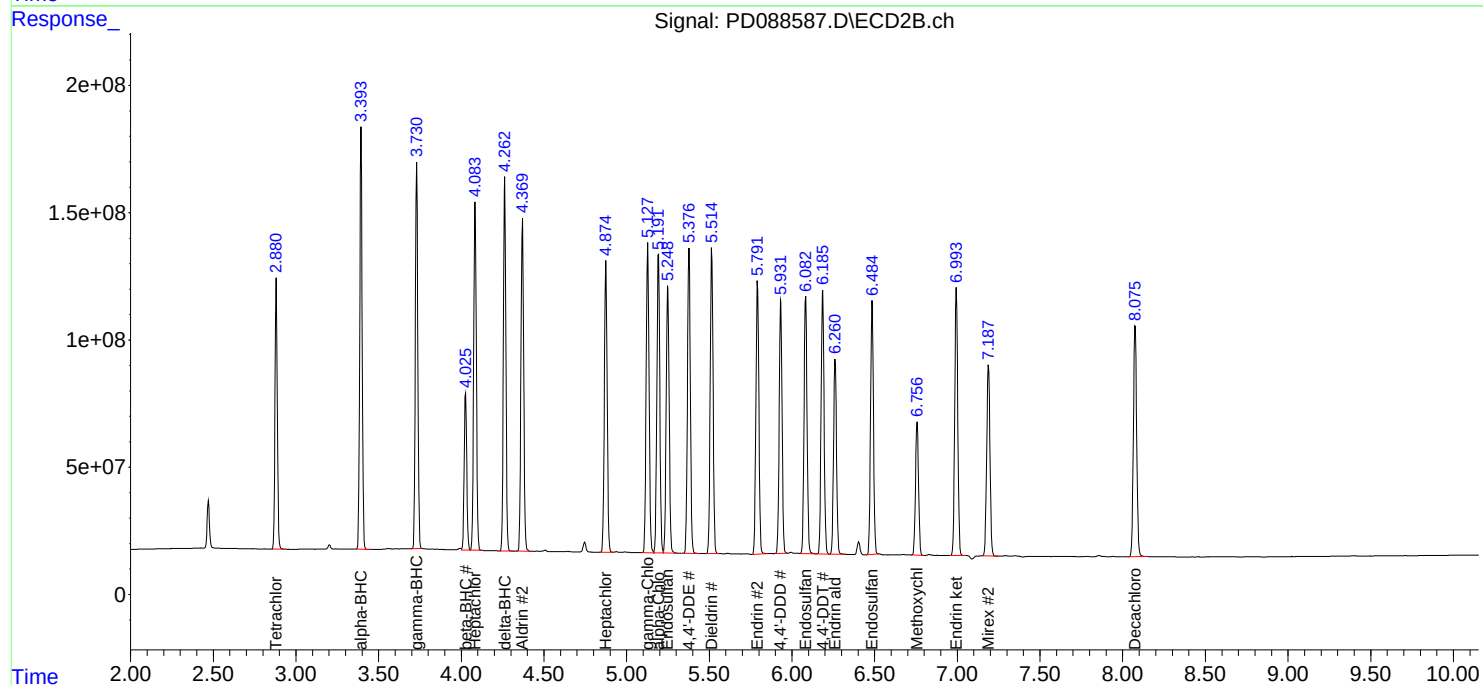
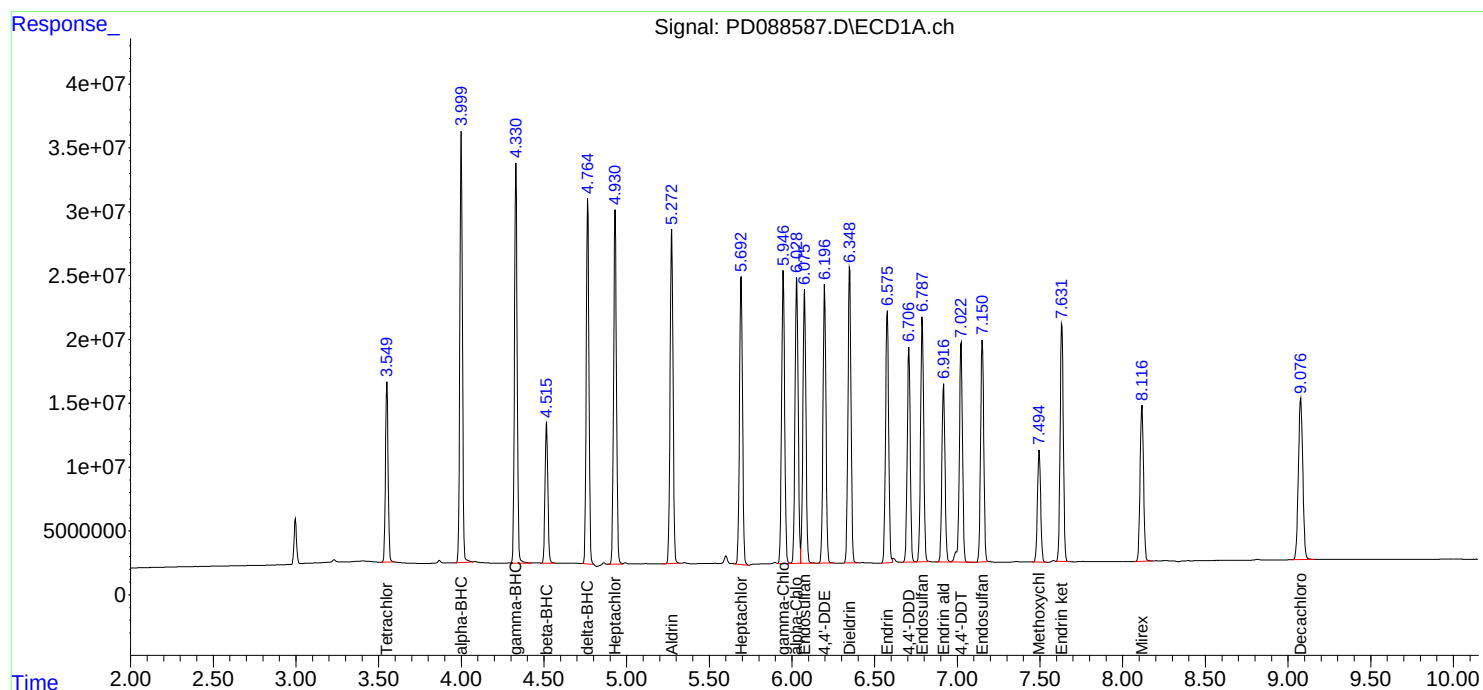
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



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

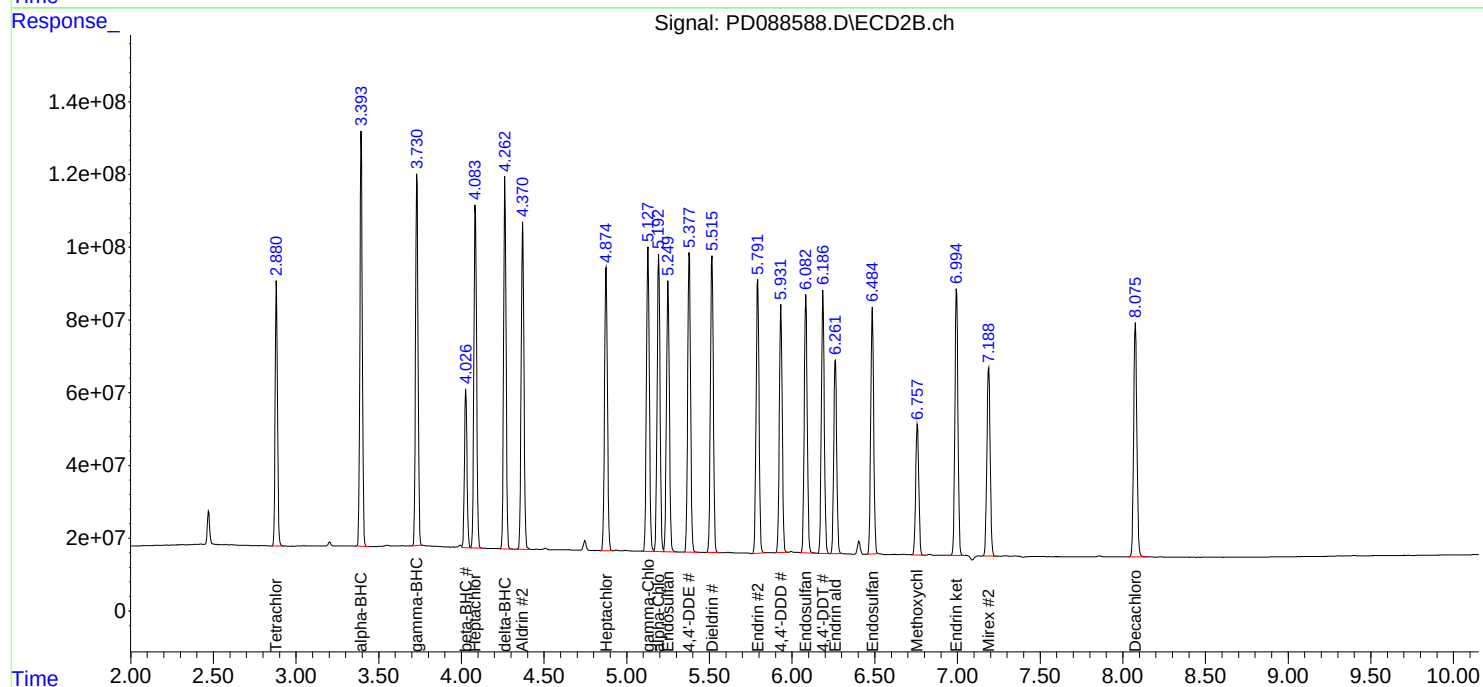
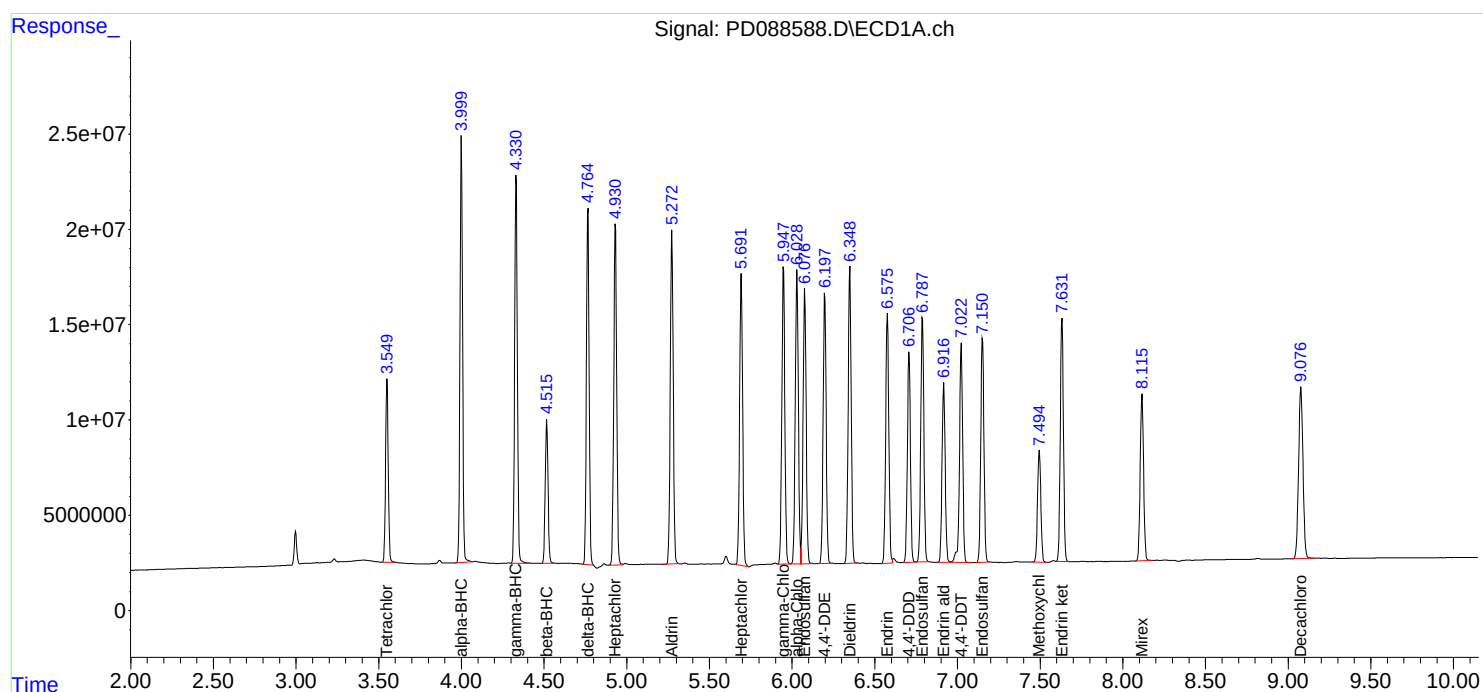
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



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

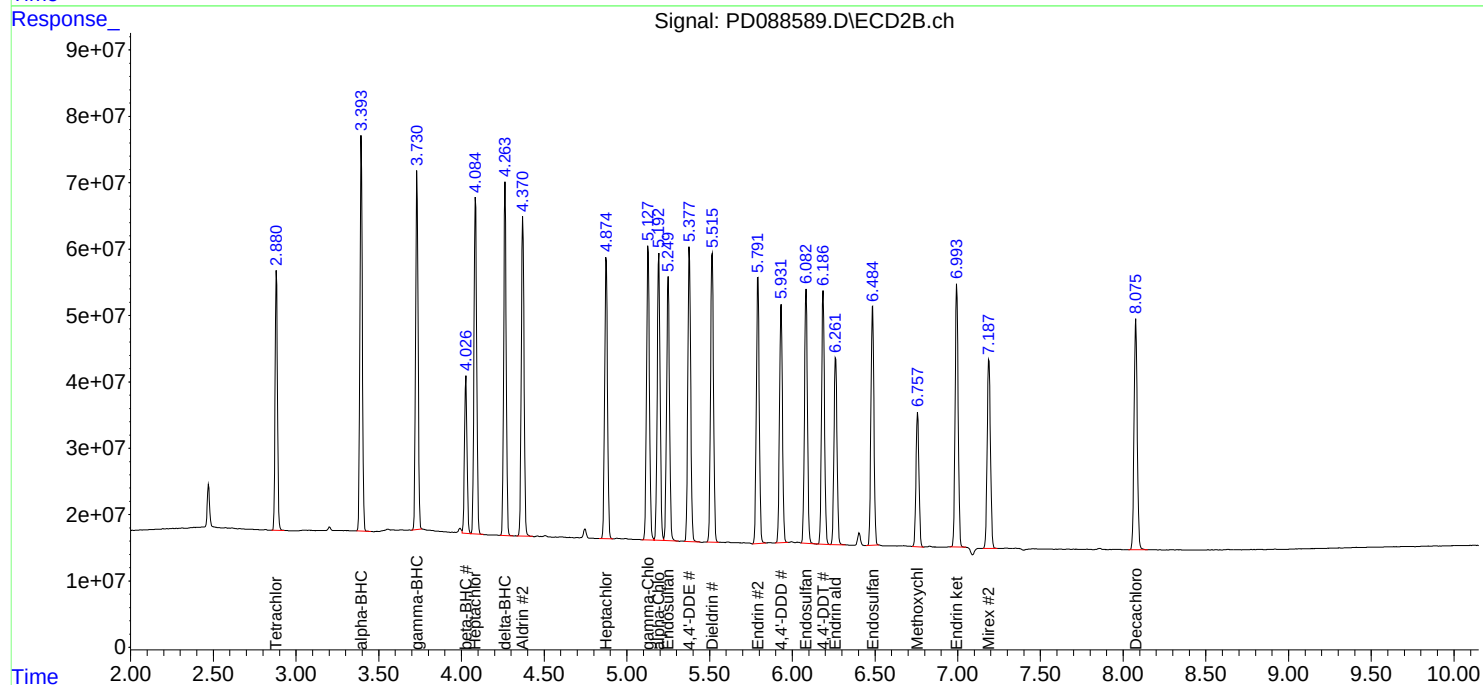
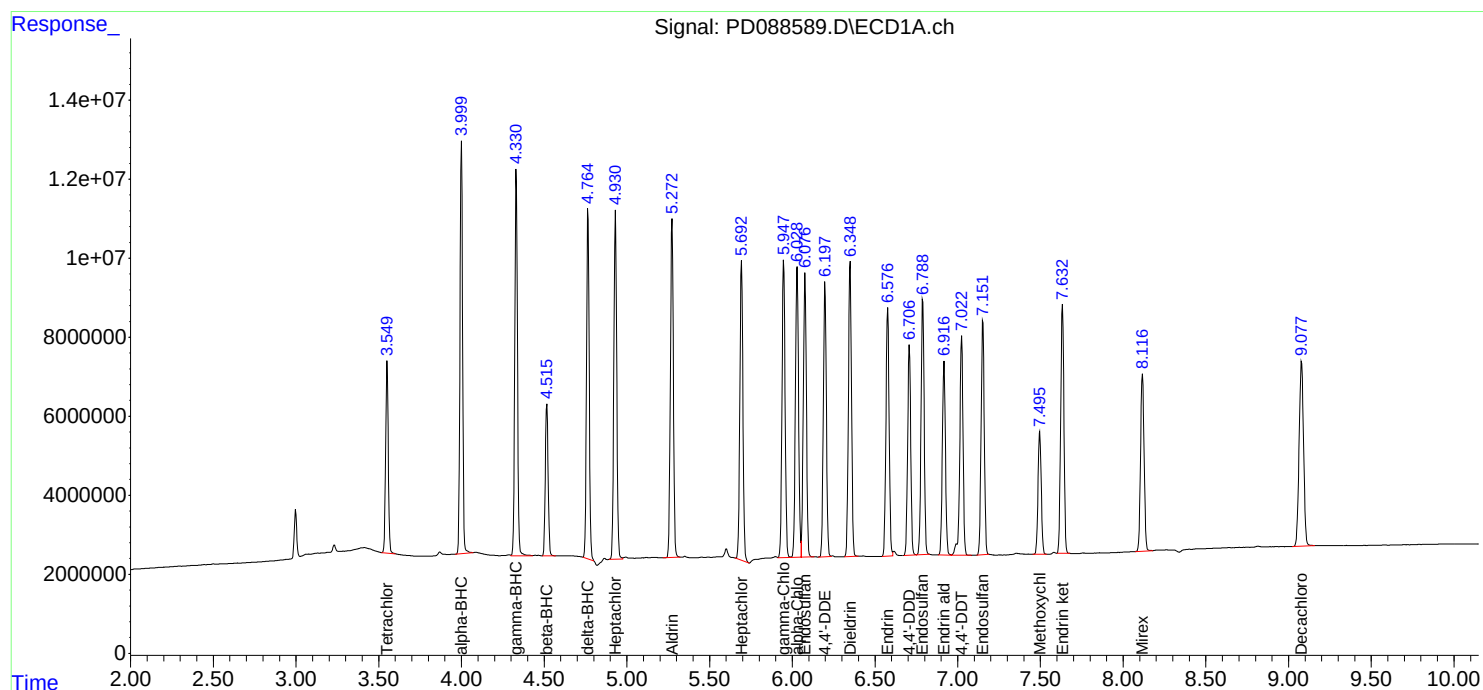
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



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.

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

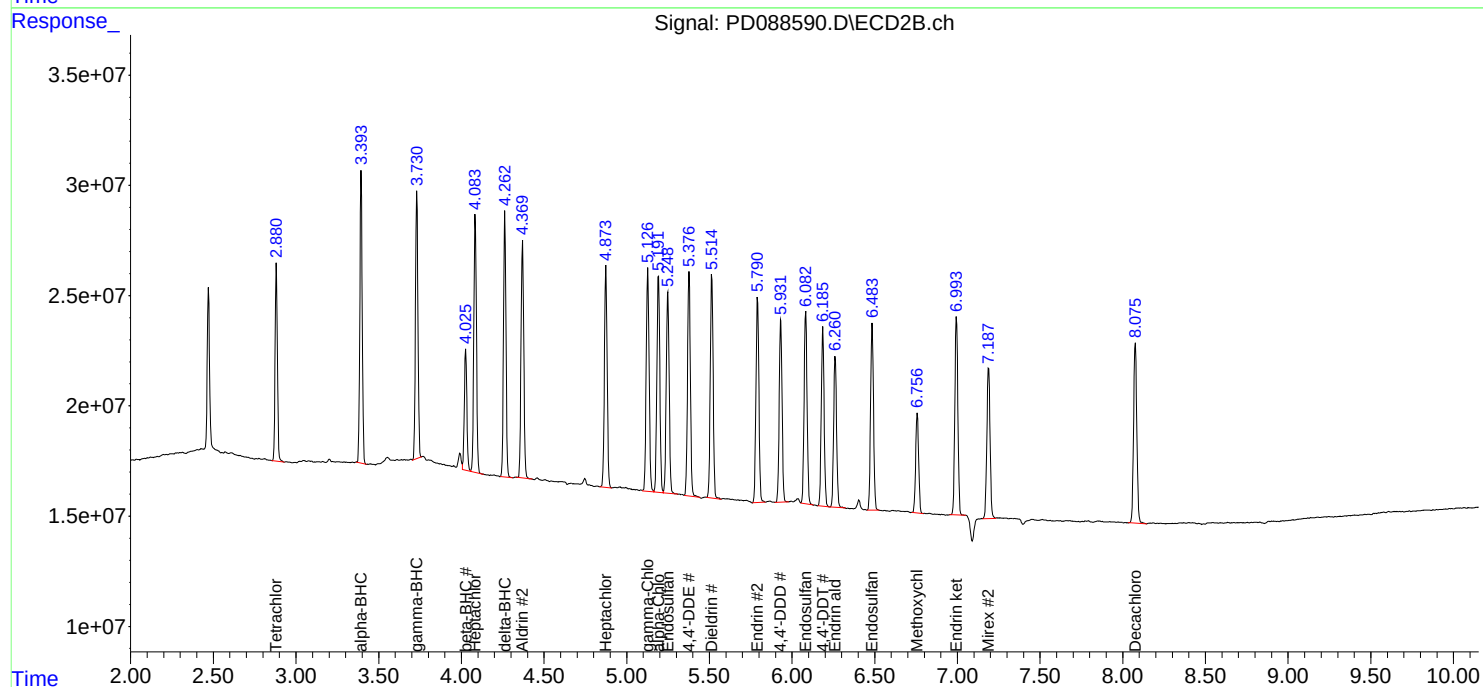
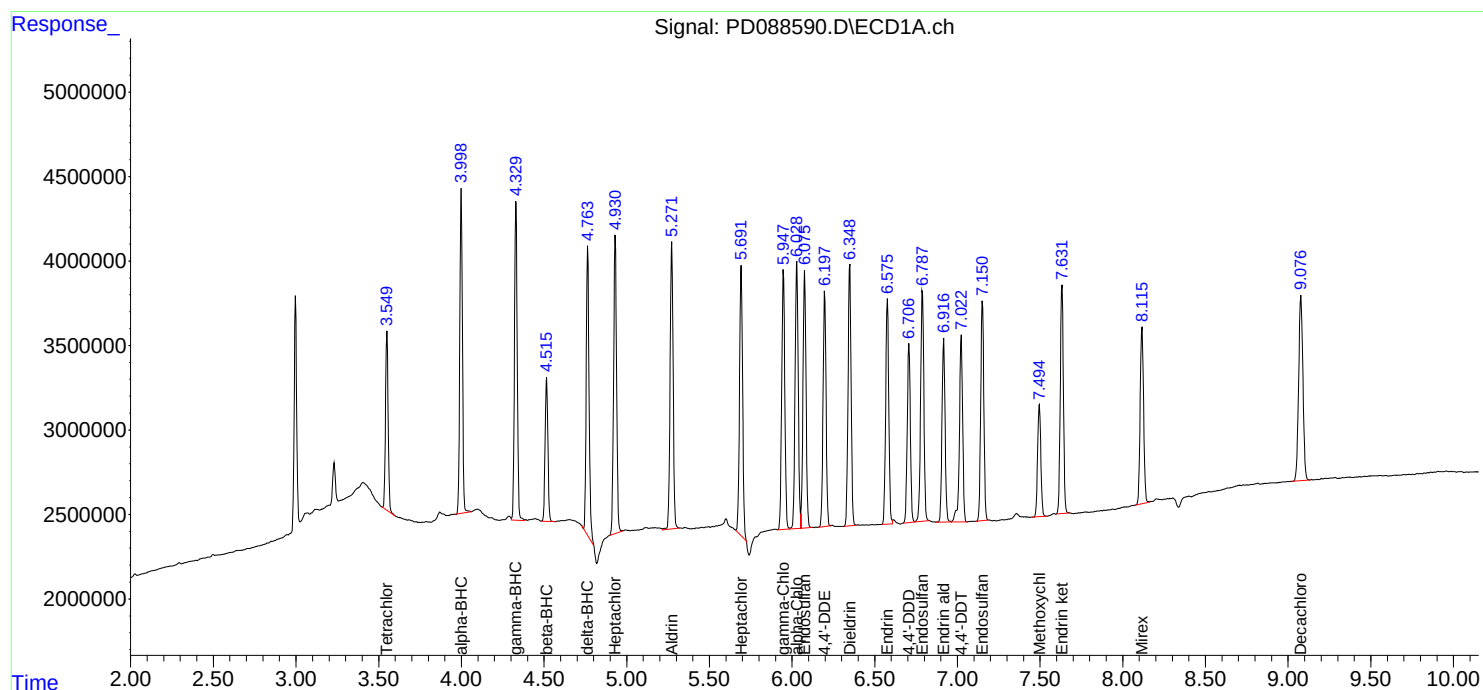
APPROVED

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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



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

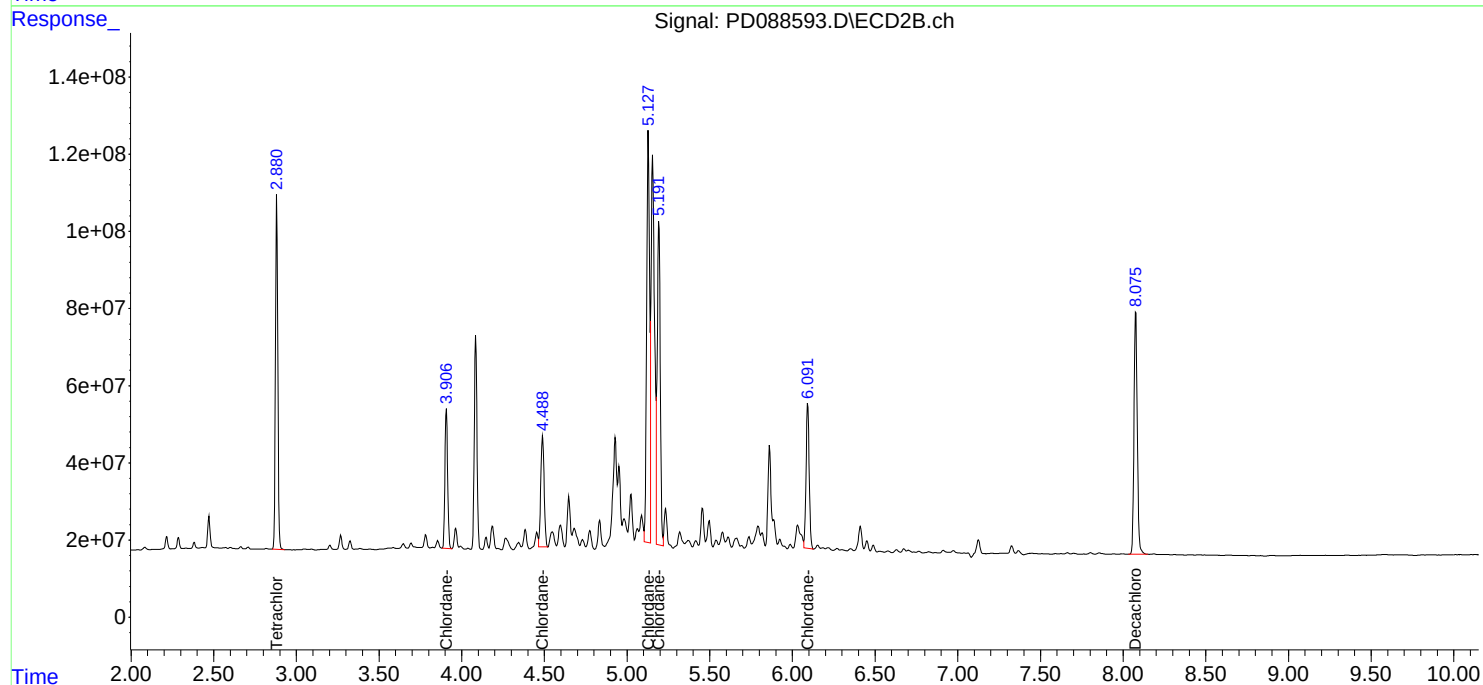
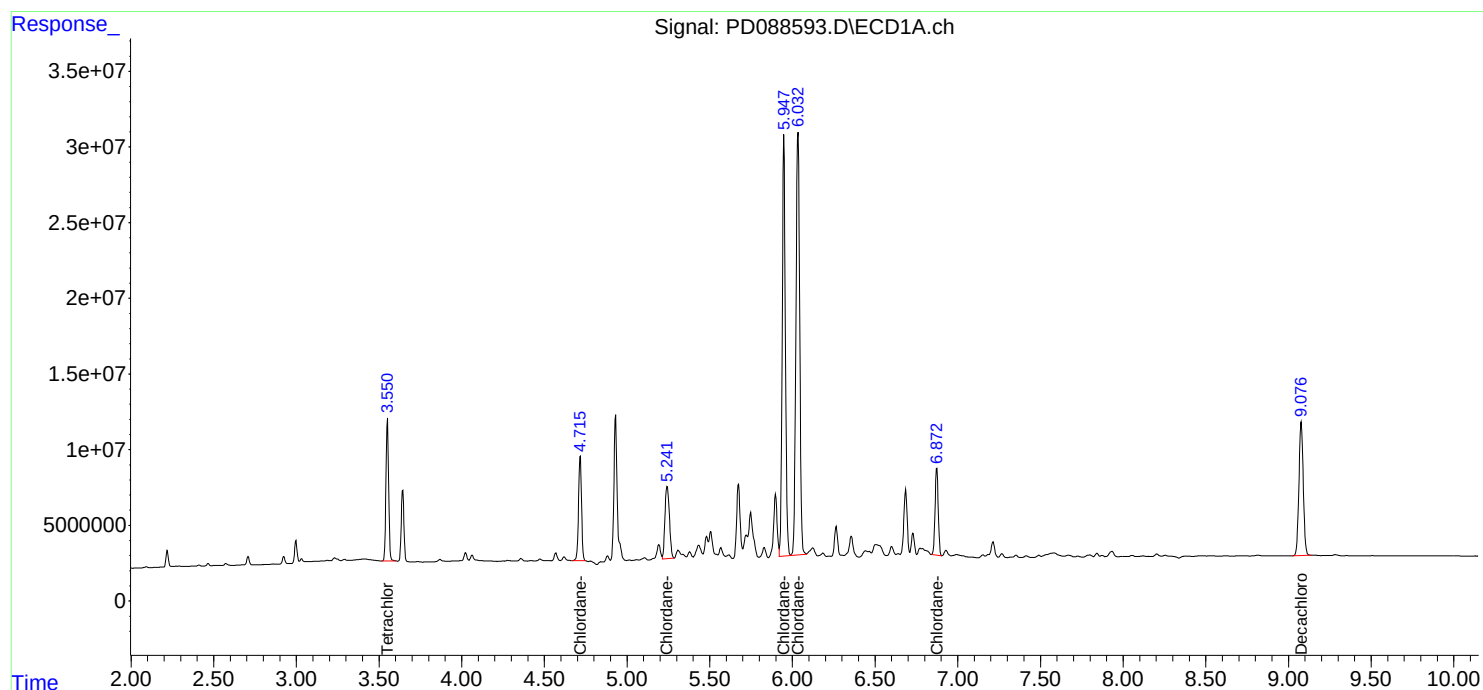
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



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 x 0.25µm

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

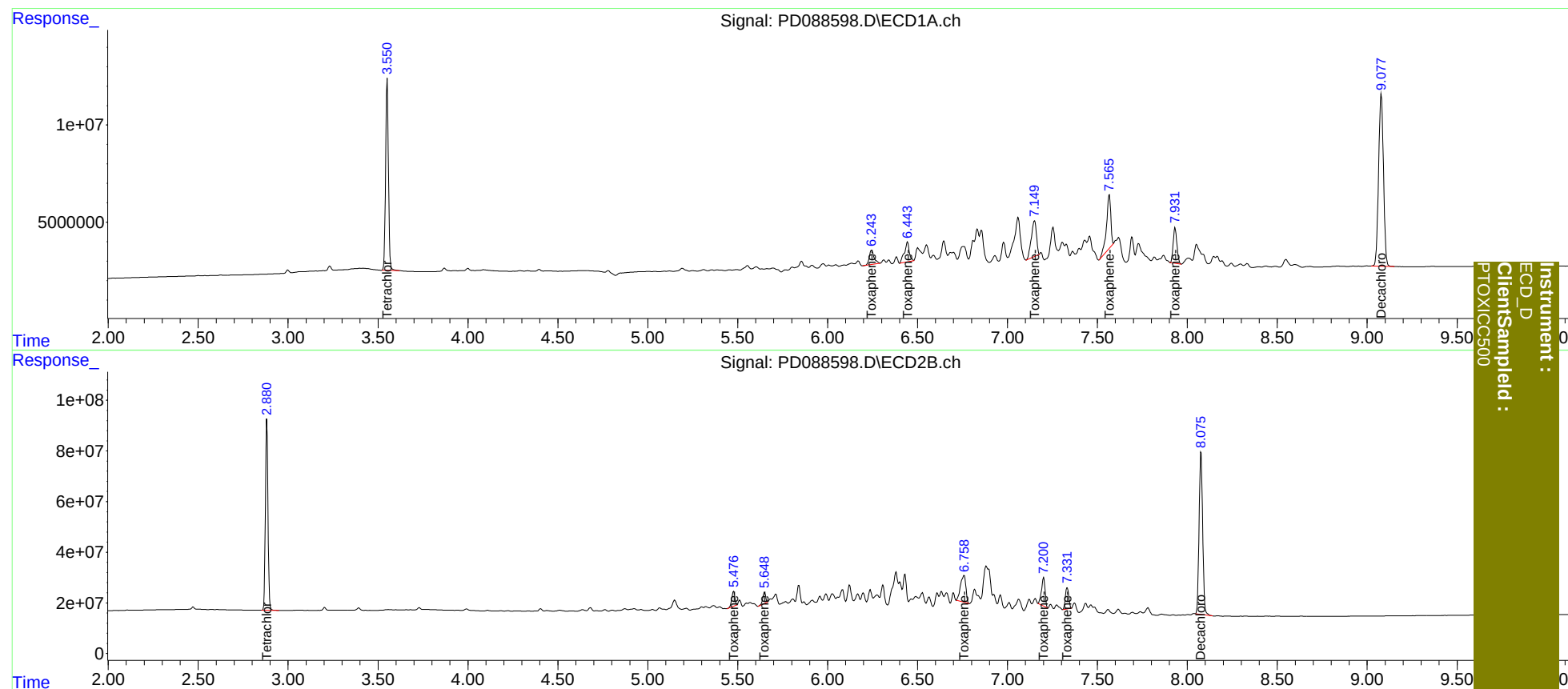
System Monitoring Compounds						
1) SA Tetrachlo...	3.551	2.882	108.0E6	751.0E6	50.000	50.000
7) SA Decachlor...	9.078	8.076	167.6E6	890.4E6	50.000	50.000
Target Compounds						
2) Toxaphene-1	6.244	5.478	13194843	69615460	500.000	500.000
3) Toxaphene-2	6.444	5.649	19059780	47039410	500.000	500.000
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.

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 x 0.25µm



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

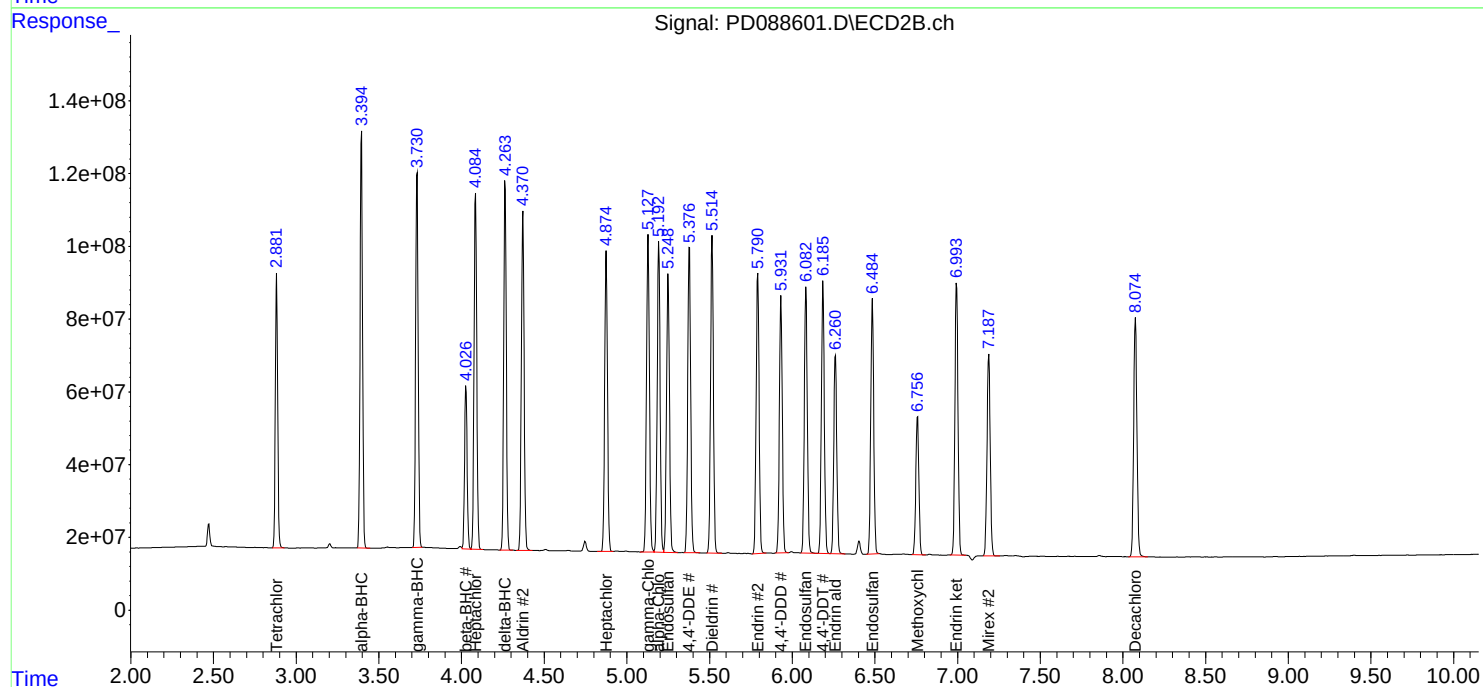
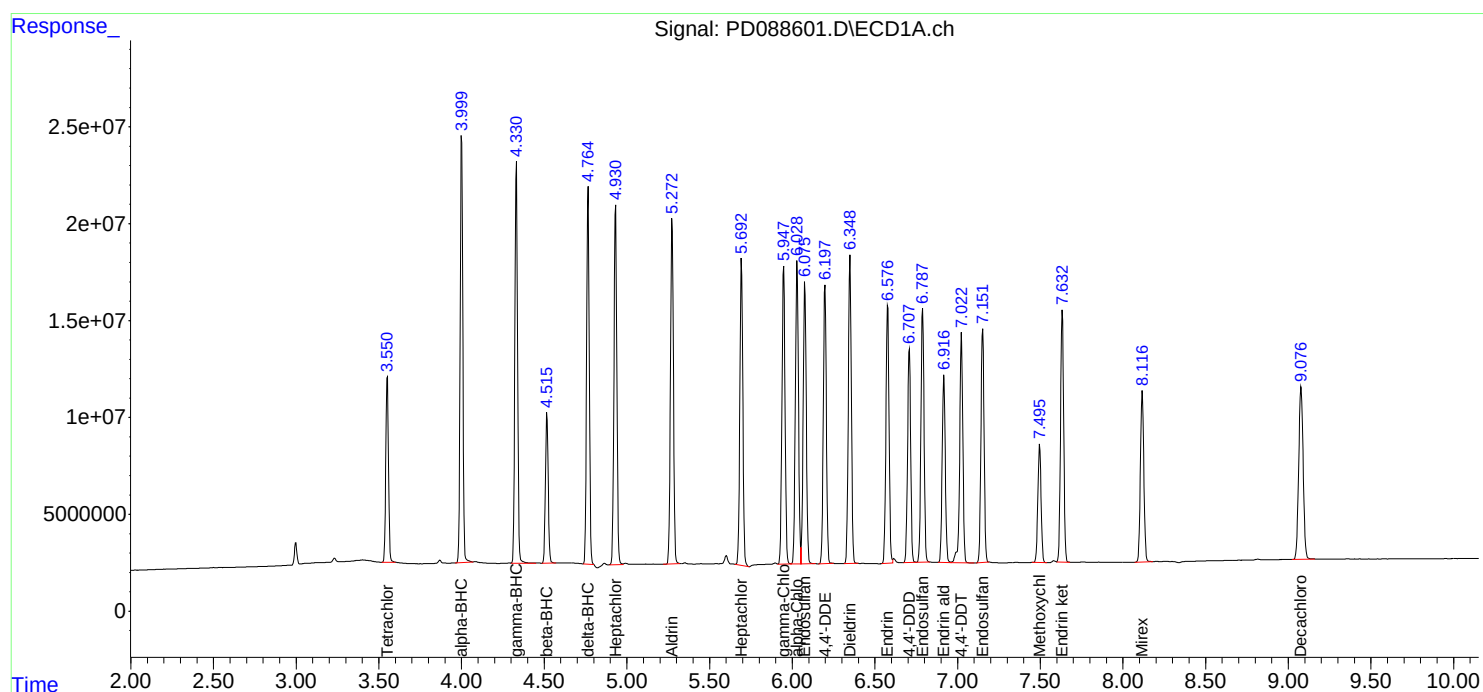
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



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.

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

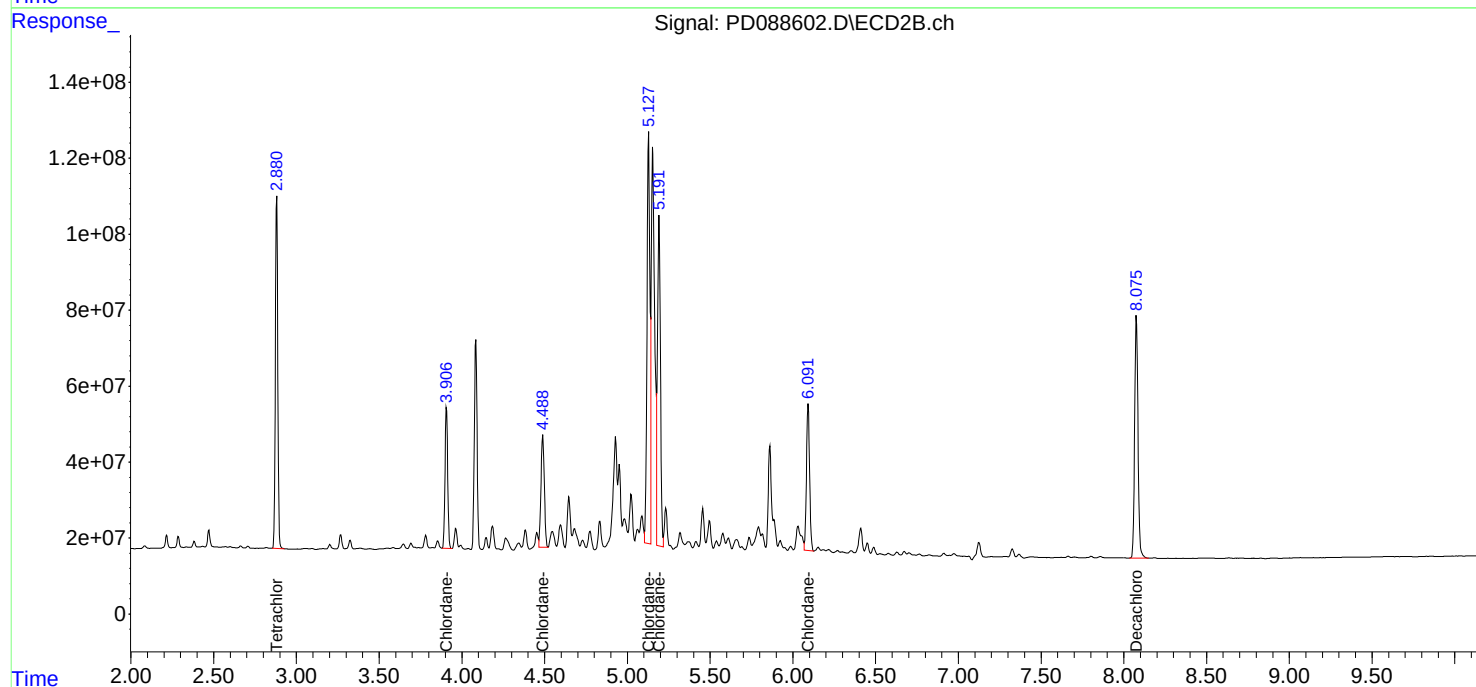
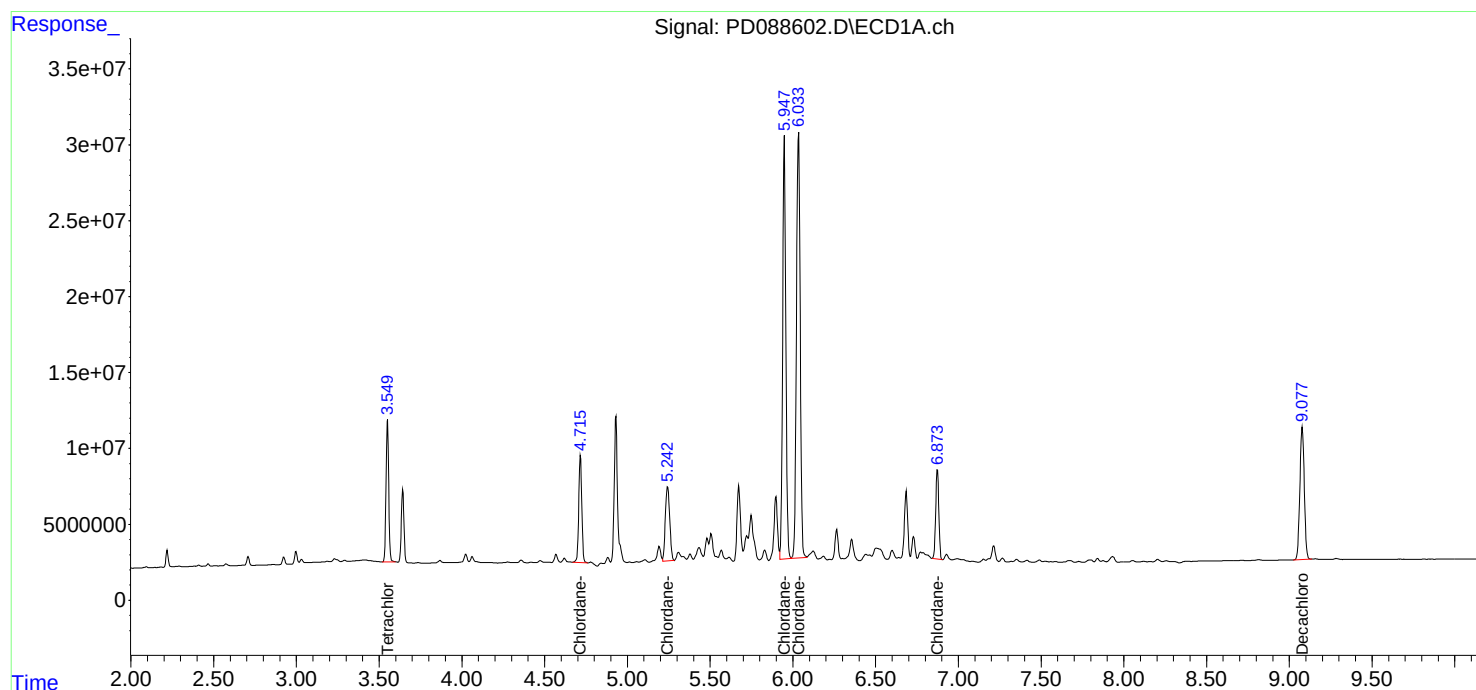
Instrument :
ECD_D
ClientSampleId :
ICVPD051925CHLOR

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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



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 x 0.25µm

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

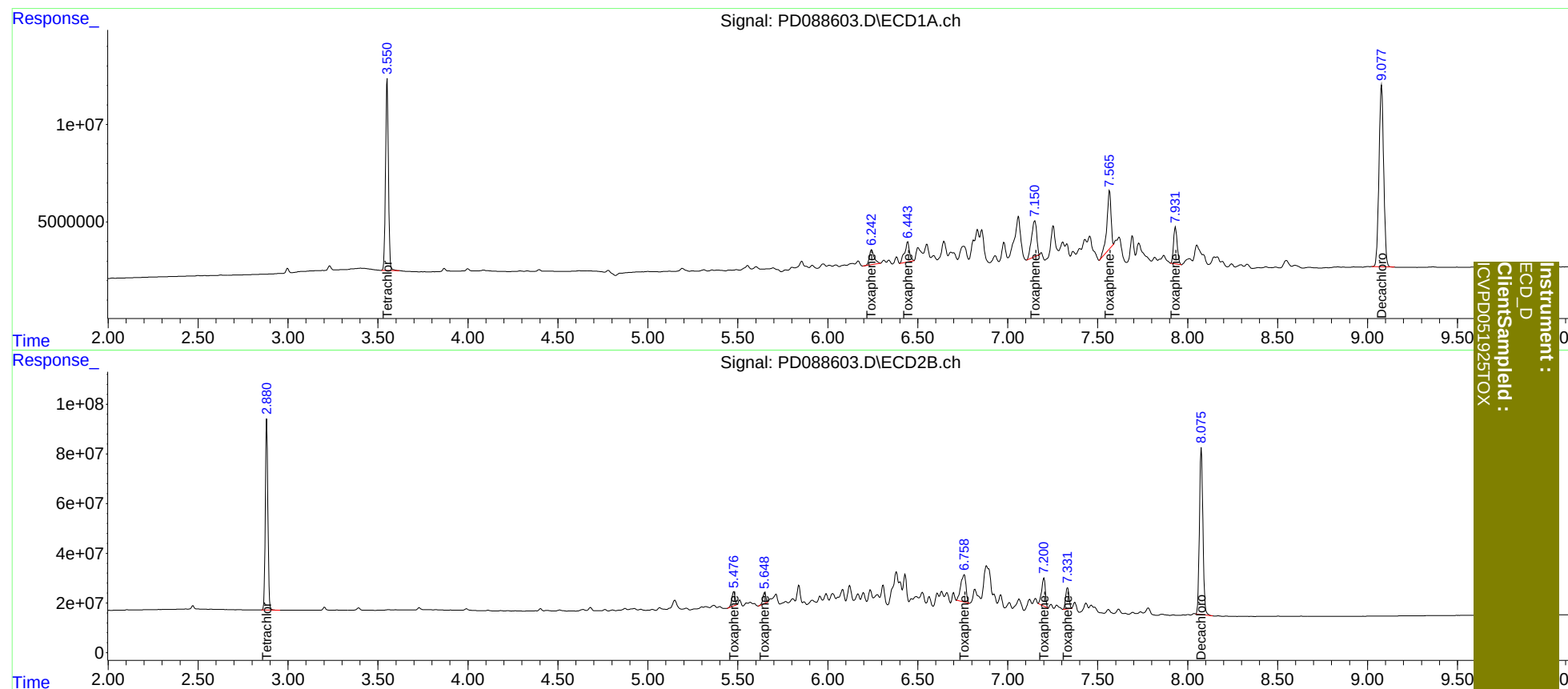
System Monitoring Compounds						
1) SA Tetrachlo...	3.551	2.882	109.9E6	760.5E6	48.865	48.244
7) SA Decachlor...	9.078	8.076	168.7E6	904.3E6	47.896	48.037
Target Compounds						
2) Toxaphene-1	6.244	5.478	13709332	69760879	496.296	486.606
3) Toxaphene-2	6.444	5.649	19243908	48559753	495.137	487.496
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.

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 x 0.25µm





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

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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

Continuing Calib Time: 18:45 Initial Calibration Time(s): 11:31 12:25

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

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



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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

Continuing Calib Time: 18:45 Initial Calibration Time(s): 11:31 12:25

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

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



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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

Client Sample No.: CCAL01 Date Analyzed: 05/19/2025

Lab Sample No.: PSTDCCC050 Data File : PD088614.D Time Analyzed: 18:45

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.078	8.977	9.177	53.900	50.000	7.8
Endrin	6.577	6.477	6.677	51.960	50.000	3.9
gamma-BHC (Lindane)	4.332	4.232	4.432	53.570	50.000	7.1
Heptachlor	4.931	4.832	5.032	51.060	50.000	2.1
Heptachlor epoxide	5.693	5.593	5.793	52.510	50.000	5.0
Methoxychlor	7.496	7.395	7.595	43.320	50.000	-13.4
Tetrachloro-m-xylene	3.551	3.451	3.651	58.460	50.000	16.9



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
 GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 05/19/2025 05/19/2025

Client Sample No.: CCAL01 Date Analyzed: 05/19/2025

Lab Sample No.: PSTDCCC050 Data File : PD088614.D Time Analyzed: 18:45

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.977	8.177	50.220	50.000	0.4
Endrin	5.792	5.692	5.892	50.570	50.000	1.1
gamma-BHC (Lindane)	3.731	3.631	3.831	51.910	50.000	3.8
Heptachlor	4.085	3.985	4.185	49.920	50.000	-0.2
Heptachlor epoxide	4.875	4.775	4.975	51.370	50.000	2.7
Methoxychlor	6.757	6.658	6.858	45.890	50.000	-8.2
Tetrachloro-m-xylene	2.882	2.782	2.982	57.720	50.000	15.4

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
 Data File : PD088614.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 May 2025 18:45
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 05/20/2025

Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 20 04:39:37 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...	3.551	2.882	126.5E6	873.1E6	58.455	57.715
28)	SA Decachlor...	9.078	8.076	184.5E6	916.8E6	53.899	50.219
Target Compounds							
2)	A alpha-BHC	4.001	3.395	262.1E6	1264.5E6	54.868	52.899
3)	MA gamma-BHC...	4.332	3.731	246.6E6	1150.6E6	53.571	51.908
4)	MA Heptachlor	4.931	4.085	228.3E6	1120.9E6	51.060	49.918
5)	MB Aldrin	5.273	4.371	235.4E6	1153.4E6	53.578	52.597
6)	B beta-BHC	4.517	4.027	95168404	514.2E6	52.779	52.777
7)	B delta-BHC	4.765	4.264	235.3E6	1177.2E6	55.681	52.802
8)	B Heptachlo...	5.693	4.875	208.4E6	1020.8E6	52.505	51.372
9)	A Endosulfan I	6.077	5.249	195.0E6	932.7E6	51.816	49.146
10)	B gamma-Chl...	5.948	5.128	210.4E6	1103.0E6	52.755	51.707
11)	B alpha-Chl...	6.029	5.193	208.6E6	1048.4E6	52.078	50.830
12)	B 4,4'-DDE	6.198	5.377	187.0E6	1061.7E6	52.112	50.792m
13)	MA Dieldrin	6.350	5.515	210.2E6	1055.9E6	52.387	50.175
14)	MA Endrin	6.577	5.792	177.5E6	975.2E6	51.964	50.572
15)	B Endosulfa...	6.788	6.083	172.3E6	919.2E6	50.031	50.171
16)	A 4,4'-DDD	6.708	5.932	149.3E6	895.2E6	53.599	51.469
17)	MA 4,4'-DDT	7.024	6.186	141.3E6	818.3E6	45.258	45.115
18)	B Endrin al...	6.918	6.261	126.5E6	675.4E6	49.153	48.487
19)	B Endosulfa...	7.152	6.485	165.0E6	863.0E6	51.505	48.603
20)	A Methoxychlor	7.496	6.757	72360216	439.4E6	43.315	45.891
21)	B Endrin ke...	7.633	6.994	167.2E6	908.1E6	48.851	46.936
22)	Mirex	8.117	7.188	126.0E6	725.4E6	48.484	47.719

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088614.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 18:45
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PSTDCCC050

Manual Integrations

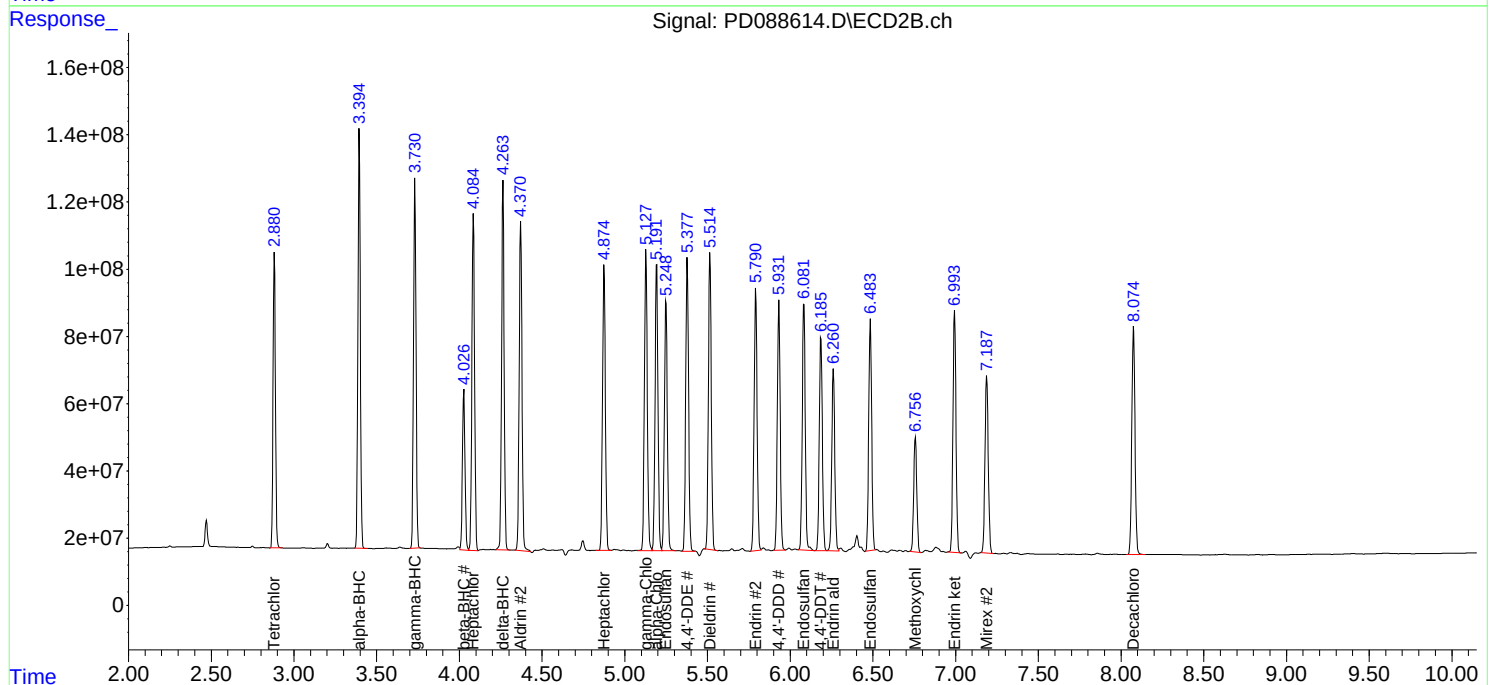
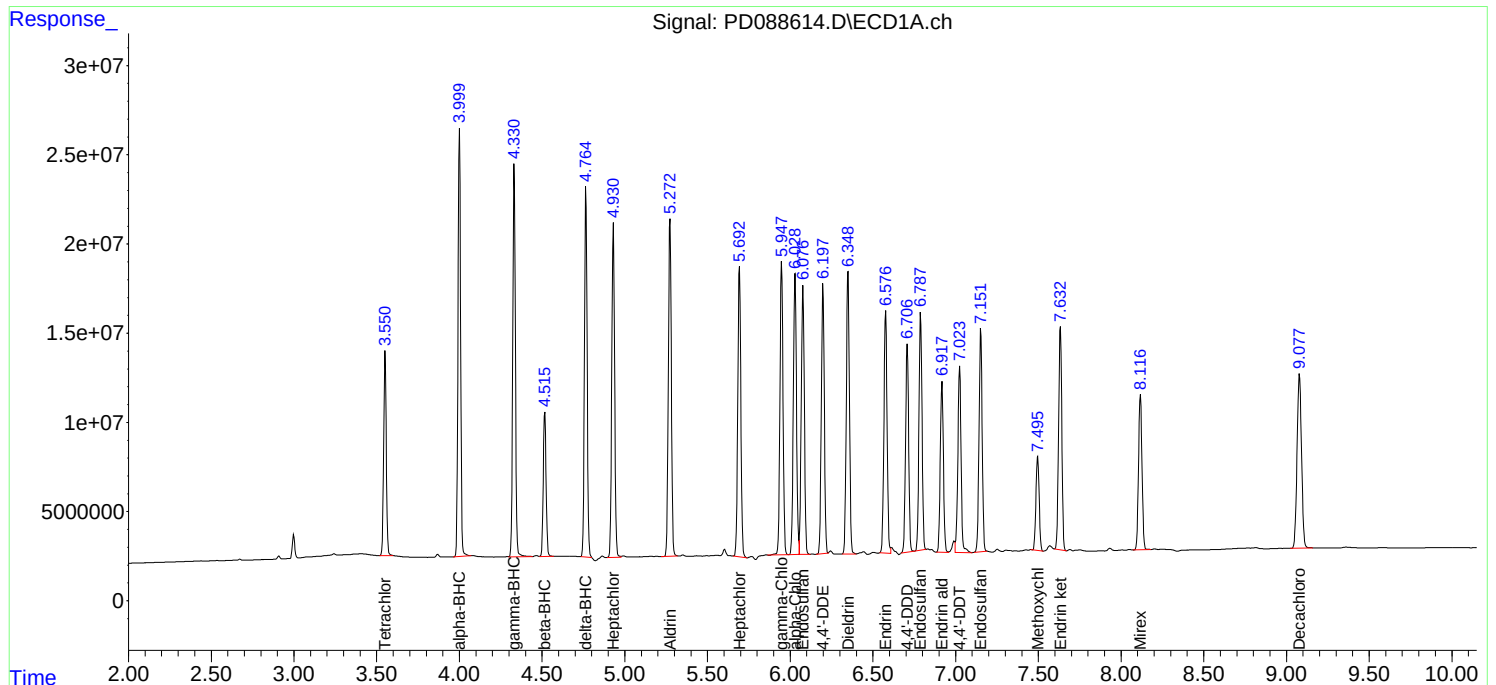
APPROVED

Reviewed By :Abdul Mirza 05/20/2025

Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:37 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





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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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

Continuing Calib Time: 22:43 Initial Calibration Time(s): 11:31 12:25

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

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



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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

Continuing Calib Time: 22:43 Initial Calibration Time(s): 11:31 12:25

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

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



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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

Client Sample No.: CCAL02 Date Analyzed: 05/19/2025

Lab Sample No.: PSTDCCC050 Data File : PD088626.D Time Analyzed: 22:43

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.077	8.977	9.177	55.800	50.000	11.6
Endrin	6.577	6.477	6.677	52.910	50.000	5.8
gamma-BHC (Lindane)	4.332	4.232	4.432	54.090	50.000	8.2
Heptachlor	4.931	4.832	5.032	52.230	50.000	4.5
Heptachlor epoxide	5.692	5.593	5.793	53.180	50.000	6.4
Methoxychlor	7.496	7.395	7.595	45.060	50.000	-9.9
Tetrachloro-m-xylene	3.551	3.451	3.651	58.570	50.000	17.1



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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

Client Sample No.: CCAL02 Date Analyzed: 05/19/2025

Lab Sample No.: PSTDCCC050 Data File : PD088626.D Time Analyzed: 22:43

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.977	8.177	53.680	50.000	7.4
Endrin	5.791	5.692	5.892	51.180	50.000	2.4
gamma-BHC (Lindane)	3.731	3.631	3.831	52.150	50.000	4.3
Heptachlor	4.085	3.985	4.185	50.650	50.000	1.3
Heptachlor epoxide	4.875	4.775	4.975	51.470	50.000	2.9
Methoxychlor	6.757	6.658	6.858	47.690	50.000	-4.6
Tetrachloro-m-xylene	2.882	2.782	2.982	57.660	50.000	15.3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
 Data File : PD088626.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 May 2025 22:43
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PSTDCCC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 20 04:39:58 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...	3.551	2.882	126.7E6	872.2E6	58.574	57.659
28)	SA Decachlor...	9.077	8.076	191.0E6	979.9E6	55.797	53.676
Target Compounds							
2)	A alpha-BHC	4.001	3.394	262.7E6	1260.8E6	54.991	52.746
3)	MA gamma-BHC...	4.332	3.731	249.0E6	1156.0E6	54.091	52.152
4)	MA Heptachlor	4.931	4.085	233.5E6	1137.3E6	52.234	50.647
5)	MB Aldrin	5.273	4.371	237.4E6	1152.9E6	54.014	52.574
6)	B beta-BHC	4.517	4.027	95542156	512.3E6	52.986	52.591
7)	B delta-BHC	4.765	4.264	238.5E6	1175.9E6	56.444	52.745
8)	B Heptachlo...	5.692	4.875	211.1E6	1022.7E6	53.183	51.469
9)	A Endosulfan I	6.076	5.249	198.1E6	931.0E6	52.658	49.056
10)	B gamma-Chl...	5.948	5.128	213.1E6	1108.8E6	53.429	51.980
11)	B alpha-Chl...	6.029	5.192	212.2E6	1054.2E6	52.957	51.112
12)	B 4,4'-DDE	6.198	5.377	189.7E6	1086.1E6	52.847	51.960
13)	MA Dieldrin	6.349	5.515	214.3E6	1068.9E6	53.412	50.794
14)	MA Endrin	6.577	5.791	180.7E6	986.9E6	52.914	51.178
15)	B Endosulfa...	6.788	6.083	176.3E6	938.2E6	51.207	51.209
16)	A 4,4'-DDD	6.707	5.932	153.5E6	905.9E6	55.125	52.085
17)	MA 4,4'-DDT	7.023	6.186	145.5E6	839.0E6	46.612	46.257
18)	B Endrin al...	6.917	6.261	128.0E6	681.5E6	49.727	48.930
19)	B Endosulfa...	7.151	6.484	169.1E6	887.5E6	52.801	49.982
20)	A Methoxychlor	7.496	6.757	75273834	456.6E6	45.059	47.687
21)	B Endrin ke...	7.632	6.994	174.9E6	959.8E6	51.106	49.608
22)	Mirex	8.116	7.188	130.9E6	754.7E6	50.372	49.642

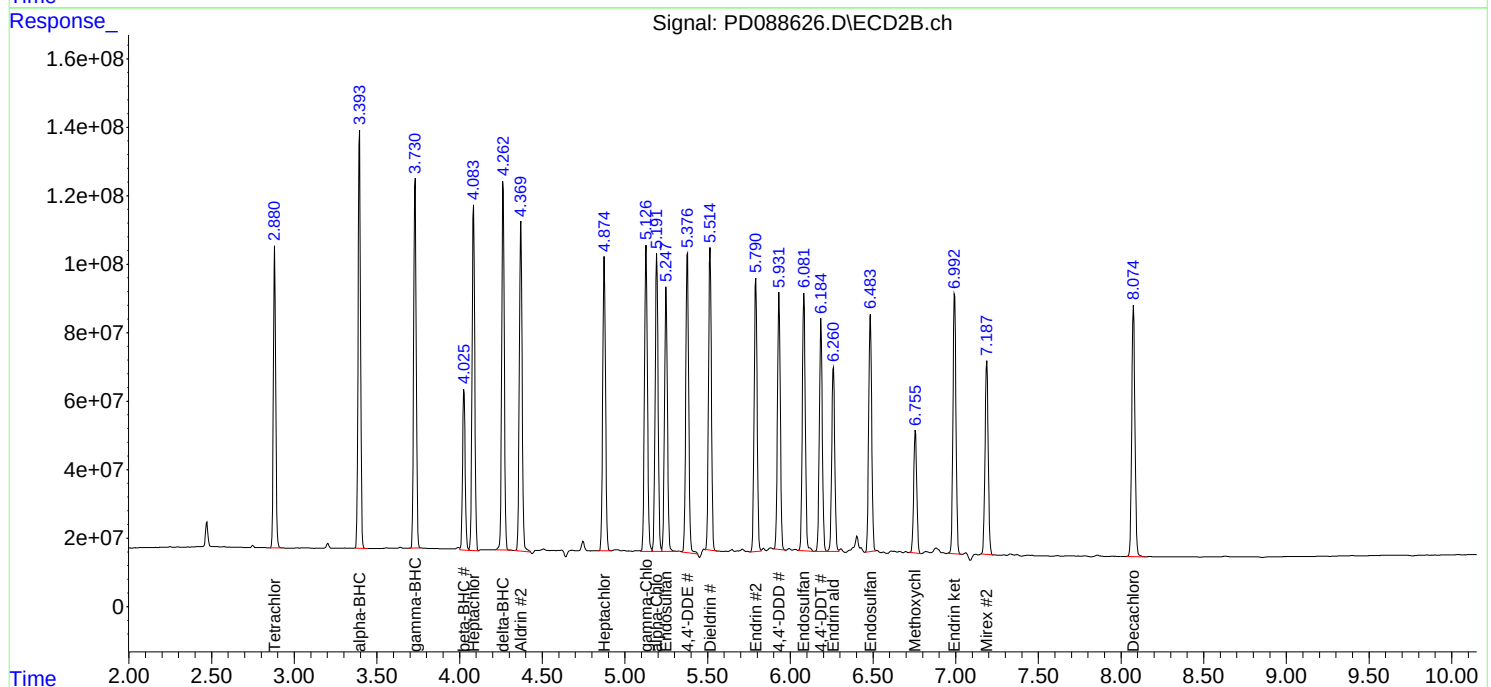
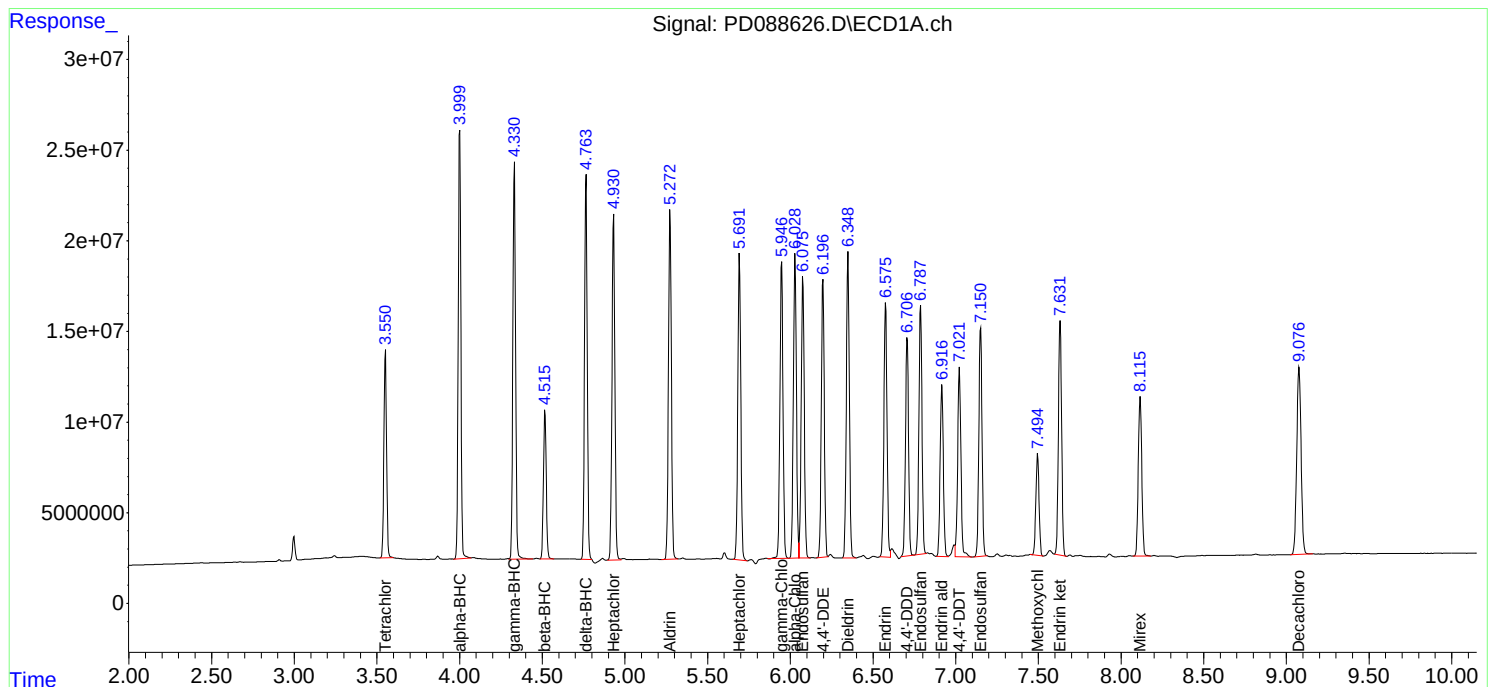
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088626.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 22:43
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:58 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





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

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

Continuing Calib Date: 05/20/2025 Initial Calibration Date(s): 05/19/2025 05/19/2025

Continuing Calib Time: 09:23 Initial Calibration Time(s): 11:31 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.09	9.08	8.98	9.18	-0.01
Tetrachloro-m-xylene	3.56	3.55	3.45	3.65	-0.01
gamma-BHC (Lindane)	4.34	4.33	4.23	4.43	-0.01
Heptachlor	4.94	4.93	4.83	5.03	-0.01
Heptachlor epoxide	5.70	5.69	5.59	5.79	-0.01
Endrin	6.59	6.58	6.48	6.68	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

Continuing Calib Date: 05/20/2025 Initial Calibration Date(s): 05/19/2025 05/19/2025

Continuing Calib Time: 09:23 Initial Calibration Time(s): 11:31 12:25

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

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



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

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032
 GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 05/19/2025 05/19/2025

Client Sample No.: CCAL03 Date Analyzed: 05/20/2025

Lab Sample No.: PSTDCCC050 Data File : PD088630.D Time Analyzed: 09:23

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.087	8.977	9.177	54.480	50.000	9.0
Endrin	6.585	6.477	6.677	50.820	50.000	1.6
gamma-BHC (Lindane)	4.340	4.232	4.432	50.770	50.000	1.5
Heptachlor	4.940	4.832	5.032	50.890	50.000	1.8
Heptachlor epoxide	5.701	5.593	5.793	50.370	50.000	0.7
Methoxychlor	7.504	7.395	7.595	44.830	50.000	-10.3
Tetrachloro-m-xylene	3.559	3.451	3.651	56.100	50.000	12.2



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

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02
Lab Code: CHEM **Case No.:** Q2032 **SAS No.:** Q2032 **SDG NO.:** Q2032
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/20/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088630.D **Time Analyzed:** 09:23

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	8.078	7.977	8.177	52.570	50.000	5.1
Endrin	5.792	5.692	5.892	47.720	50.000	-4.6
gamma-BHC (Lindane)	3.731	3.631	3.831	49.620	50.000	-0.8
Heptachlor	4.085	3.985	4.185	47.730	50.000	-4.5
Heptachlor epoxide	4.875	4.775	4.975	48.770	50.000	-2.5
Methoxychlor	6.759	6.658	6.858	45.580	50.000	-8.8
Tetrachloro-m-xylene	2.881	2.782	2.982	54.650	50.000	9.3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
 Data File : PD088630.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 May 2025 09:23
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 05/21/2025

Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 21 03:29:38 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...	3.559	2.881	121.4E6	826.7E6	56.101	54.650
28) SA Decachlor...	9.087	8.078	186.5E6	959.7E6	54.484	52.566
Target Compounds						
2) A alpha-BHC	4.008	3.394	247.7E6	1193.5E6	51.849	49.929
3) MA gamma-BHC...	4.340	3.731	233.7E6	1099.8E6	50.769	49.618
4) MA Heptachlor	4.940	4.085	227.6E6	1071.8E6	50.894	47.732
5) MB Aldrin	5.281	4.371	227.0E6	1094.5E6	51.654	49.908
6) B beta-BHC	4.525	4.027	89447949	482.9E6	49.606	49.572
7) B delta-BHC	4.772	4.264	233.7E6	1108.9E6	55.290m	49.741
8) B Heptachlo...	5.701	4.875	199.9E6	969.1E6	50.366	48.767
9) A Endosulfan I	6.085	5.250	191.1E6	873.9E6	50.774	46.045
10) B gamma-Chl...	5.956	5.128	205.1E6	1051.4E6	51.413	49.286
11) B alpha-Chl...	6.037	5.193	204.6E6	1001.0E6	51.058	48.534
12) B 4,4'-DDE	6.206	5.377	182.3E6	1016.0E6	50.782	48.608m
13) MA Dieldrin	6.358	5.516	205.8E6	1008.4E6	51.305	47.919
14) MA Endrin	6.585	5.792	173.6E6	920.2E6	50.819	47.718
15) B Endosulfa...	6.796	6.084	171.8E6	895.8E6	49.903	48.890
16) A 4,4'-DDD	6.715	5.933	153.6E6	874.6E6	55.160	50.289
17) MA 4,4'-DDT	7.032	6.187	141.8E6	804.6E6	45.408	44.363
18) B Endrin al...	6.925	6.262	125.3E6	652.2E6	48.676	46.827
19) B Endosulfa...	7.160	6.486	163.8E6	849.5E6	51.151	47.841
20) A Methoxychlor	7.504	6.759	74896461	436.4E6	44.833	45.583
21) B Endrin ke...	7.641	6.996	172.1E6	949.2E6	50.272	49.063
22) Mirex	8.125	7.190	127.4E6	732.6E6	49.017	48.189

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088630.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 09:23
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PSTDCCC050

Manual Integrations

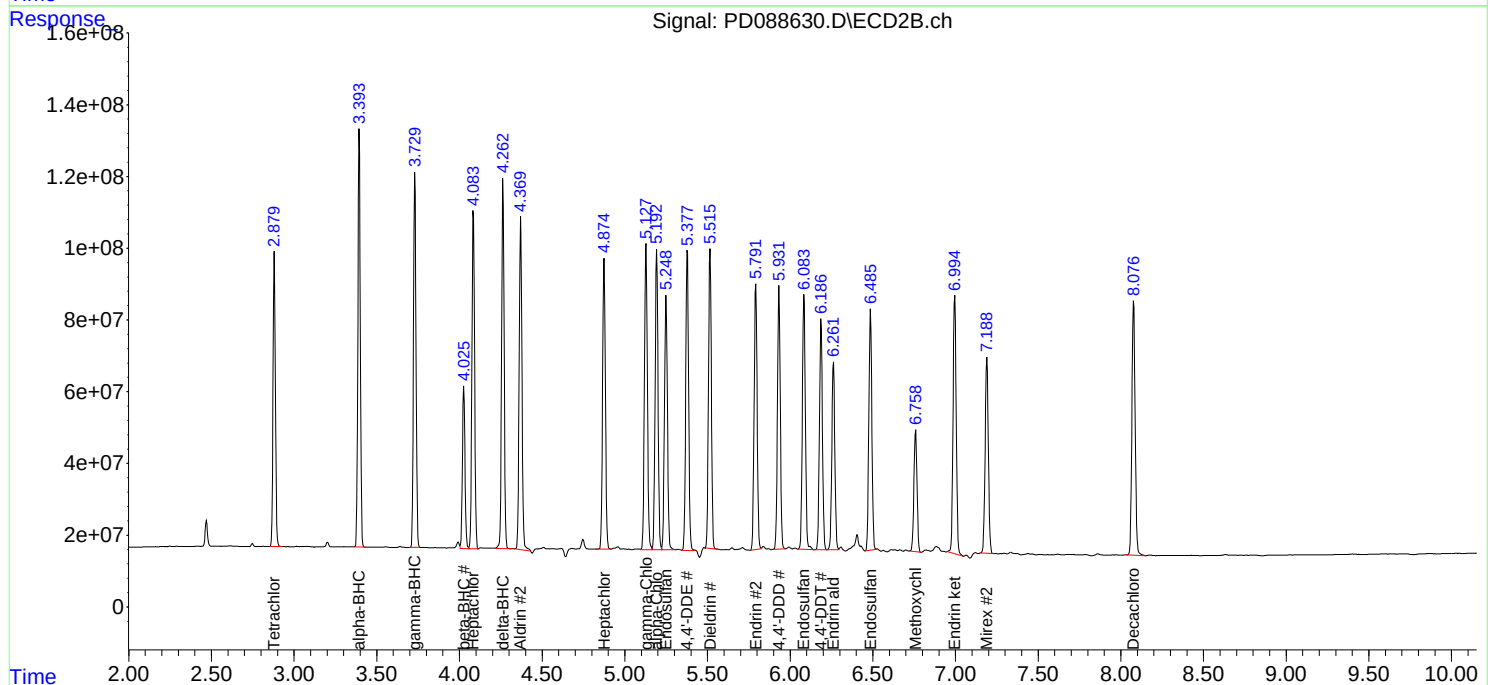
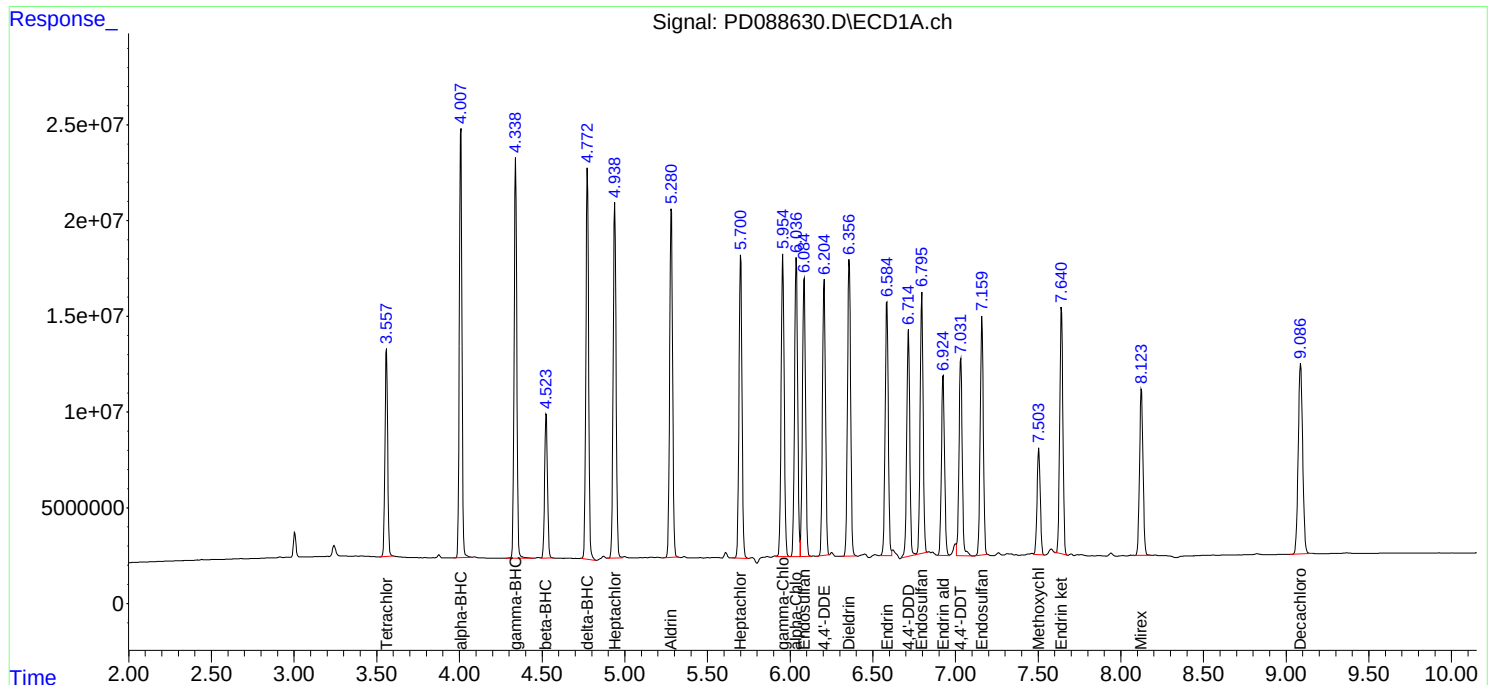
APPROVED

Reviewed By :Abdul Mirza 05/21/2025

Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:29:38 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





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

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

Continuing Calib Date: 05/20/2025 Initial Calibration Date(s): 05/19/2025 05/19/2025

Continuing Calib Time: 13:11 Initial Calibration Time(s): 11:31 12:25

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

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



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

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

Continuing Calib Date: 05/20/2025 Initial Calibration Date(s): 05/19/2025 05/19/2025

Continuing Calib Time: 13:11 Initial Calibration Time(s): 11:31 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.01
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.09	3.99	4.19	0.01
Heptachlor epoxide	4.87	4.88	4.78	4.98	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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

Client Sample No.: CCAL04 Date Analyzed: 05/20/2025

Lab Sample No.: PSTDCCC050 Data File : PD088642.D Time Analyzed: 13:11

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.076	8.977	9.177	51.680	50.000	3.4
Endrin	6.577	6.477	6.677	48.650	50.000	-2.7
gamma-BHC (Lindane)	4.332	4.232	4.432	52.150	50.000	4.3
Heptachlor	4.932	4.832	5.032	50.800	50.000	1.6
Heptachlor epoxide	5.693	5.593	5.793	49.860	50.000	-0.3
Methoxychlor	7.495	7.395	7.595	41.700	50.000	-16.6
Tetrachloro-m-xylene	3.551	3.451	3.651	56.820	50.000	13.6



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

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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

Client Sample No.: CCAL04 Date Analyzed: 05/20/2025

Lab Sample No.: PSTDCCC050 Data File : PD088642.D Time Analyzed: 13:11

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.075	7.977	8.177	48.520	50.000	-3.0
Endrin	5.791	5.692	5.892	48.260	50.000	-3.5
gamma-BHC (Lindane)	3.731	3.631	3.831	50.500	50.000	1.0
Heptachlor	4.084	3.985	4.185	49.120	50.000	-1.8
Heptachlor epoxide	4.874	4.775	4.975	49.530	50.000	-0.9
Methoxychlor	6.756	6.658	6.858	44.770	50.000	-10.5
Tetrachloro-m-xylene	2.882	2.782	2.982	55.910	50.000	11.8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
 Data File : PD088642.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 May 2025 13:11
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 05/21/2025

Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 21 03:31:54 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...	3.551	2.882	122.9E6	845.7E6	56.822	55.910
28)	SA Decachlor...	9.076	8.075	176.9E6	885.8E6	51.678	48.520
Target Compounds							
2)	A alpha-BHC	4.001	3.394	252.6E6	1221.3E6	52.879	51.091
3)	MA gamma-BHC...	4.332	3.731	240.0E6	1119.5E6	52.145	50.505
4)	MA Heptachlor	4.932	4.084	227.2E6	1103.1E6	50.804	49.124
5)	MB Aldrin	5.273	4.370	226.3E6	1117.6E6	51.506	50.964
6)	B beta-BHC	4.517	4.026	91829443	491.9E6	50.927	50.489
7)	B delta-BHC	4.766	4.264	232.5E6	1129.8E6	55.007	50.677
8)	B Heptachlo...	5.693	4.874	197.9E6	984.3E6	49.863	49.533
9)	A Endosulfan I	6.076	5.249	185.8E6	877.7E6	49.388	46.249
10)	B gamma-Chl...	5.948	5.128	199.6E6	1062.9E6	50.032	49.828
11)	B alpha-Chl...	6.029	5.192	198.7E6	1009.3E6	49.607	48.935
12)	B 4,4'-DDE	6.198	5.376	176.7E6	1018.8E6	49.215	48.742m
13)	MA Dieldrin	6.349	5.515	199.3E6	1017.3E6	49.682	48.342
14)	MA Endrin	6.577	5.791	166.1E6	930.6E6	48.649	48.256
15)	B Endosulfa...	6.788	6.082	161.1E6	891.1E6	46.787	48.636
16)	A 4,4'-DDD	6.707	5.931	141.6E6	871.1E6	50.824	50.084
17)	MA 4,4'-DDT	7.023	6.186	132.8E6	801.6E6	42.545	44.195
18)	B Endrin al...	6.918	6.260	117.5E6	649.1E6	45.631	46.600
19)	B Endosulfa...	7.152	6.484	154.9E6	829.6E6	48.349	46.723
20)	A Methoxychlor	7.495	6.756	69657622	428.6E6	41.697	44.766
21)	B Endrin ke...	7.632	6.993	162.2E6	896.3E6	47.392	46.325
22)	Mirex	8.116	7.187	117.9E6	695.5E6	45.379	45.747

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088642.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 13:11
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PSTDCCC050

Manual Integrations

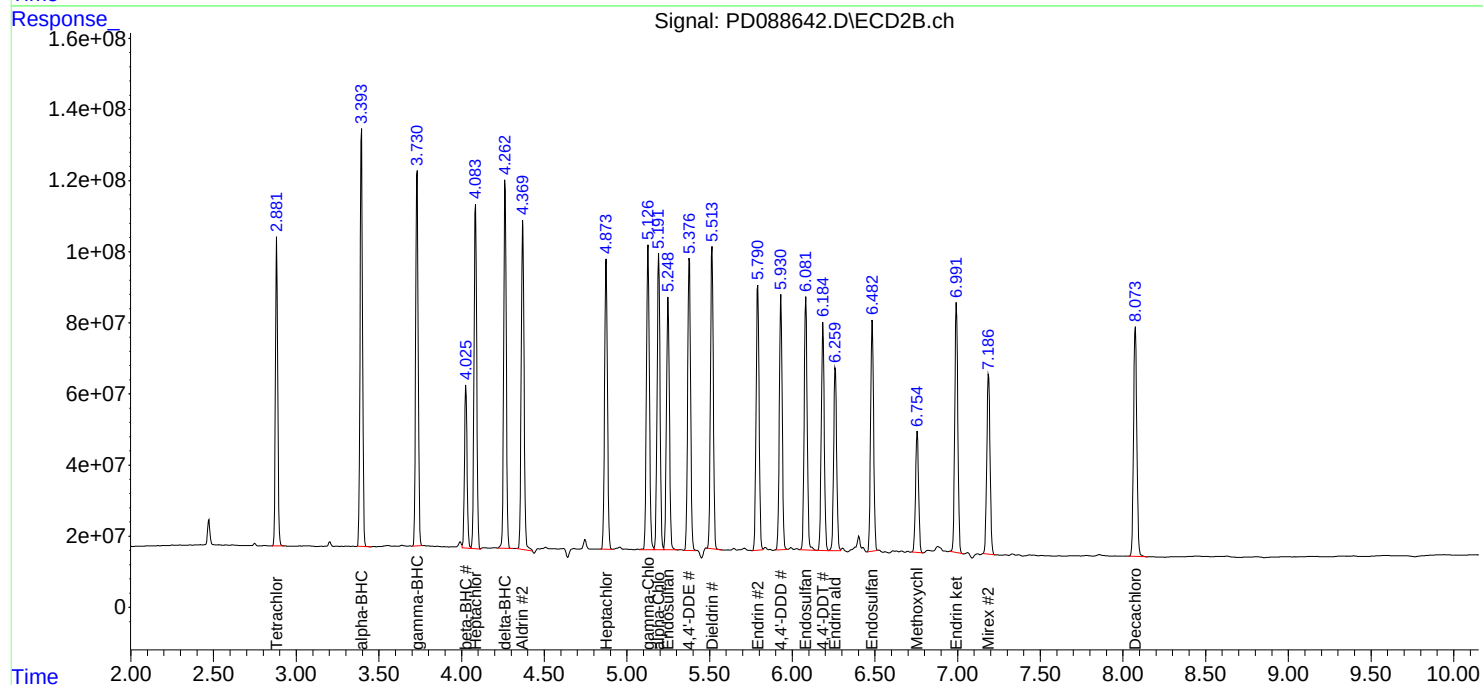
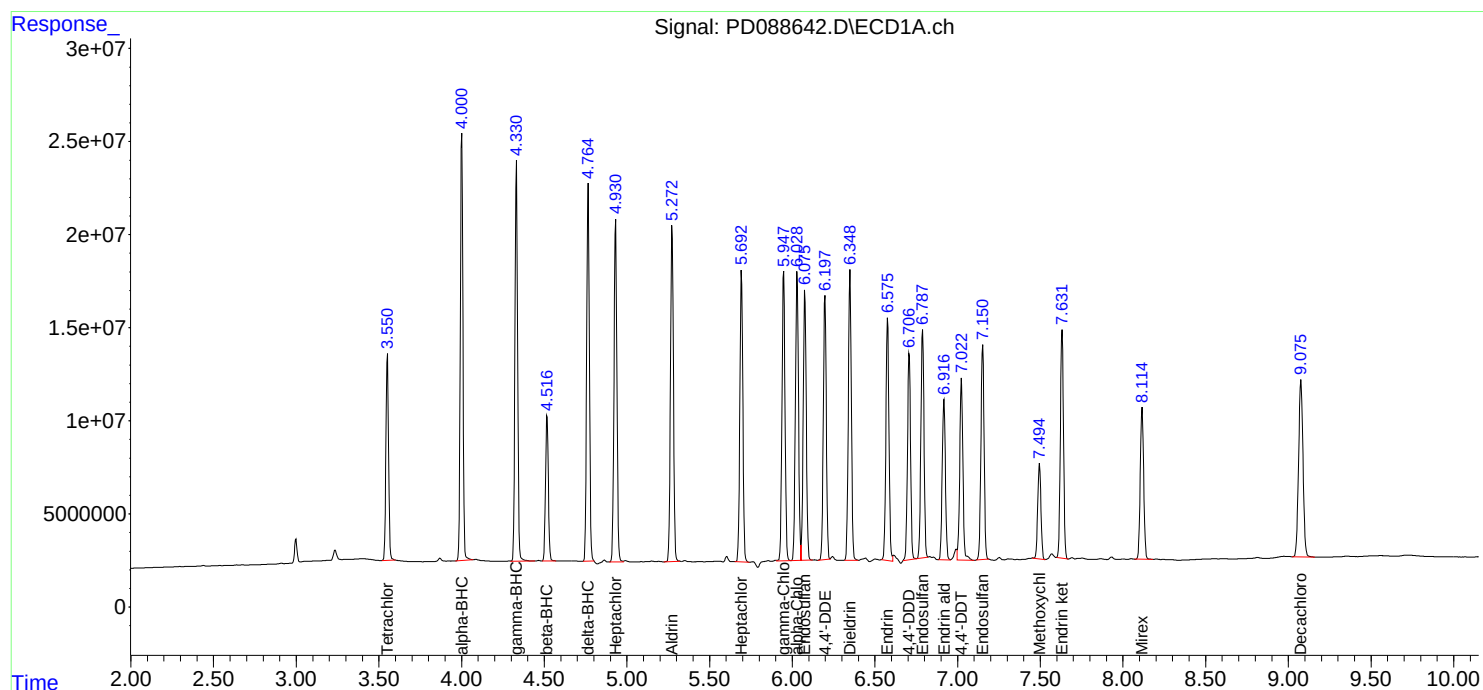
APPROVED

Reviewed By :Abdul Mirza 05/21/2025

Supervised By :mohammad ahmed 05/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:31:54 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



PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
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		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
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
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			

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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.550	2.881	43185677	307.7E6	19.959	20.343
2) 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

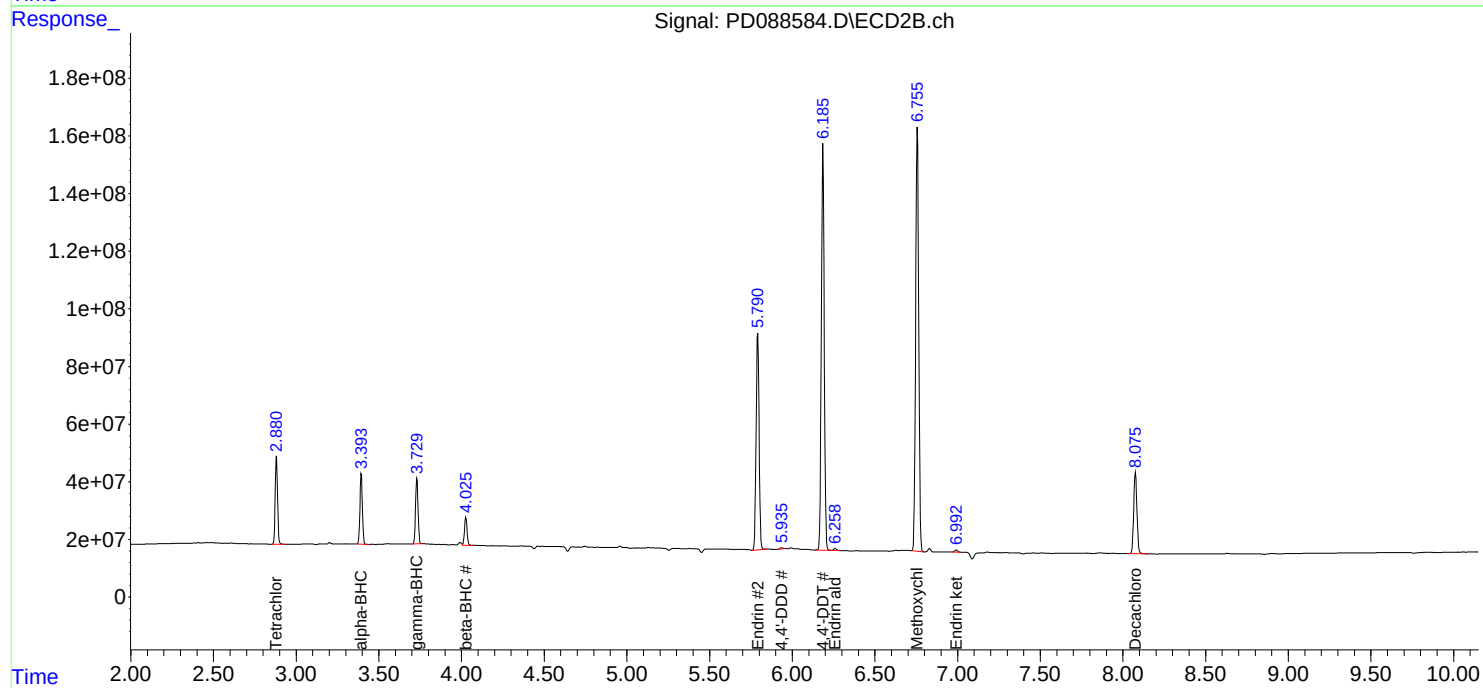
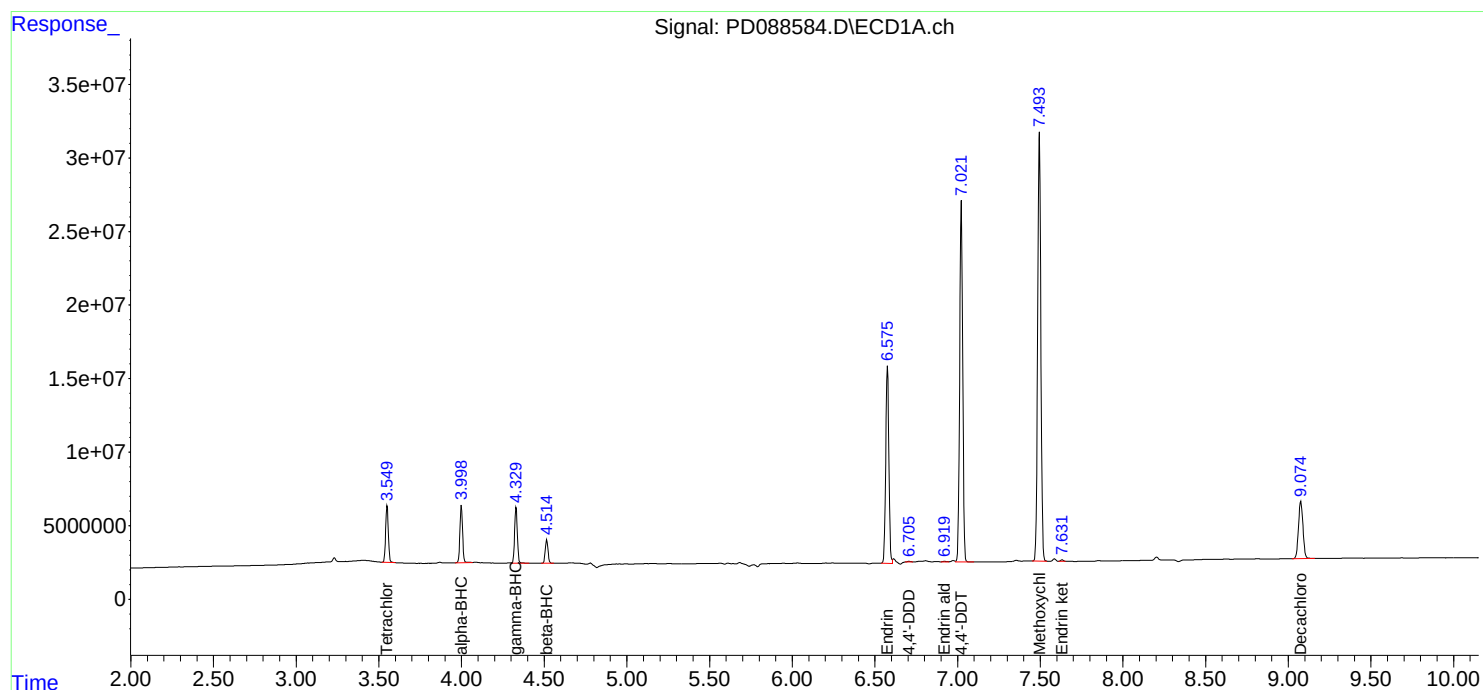
Instrument :
ECD_D
ClientSampleId :
PEM

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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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

Client Sample No. (PEM): PEM - PD088605.D Date Analyzed: 05/19/2025

Lab Sample No.(PEM): PEM Time Analyzed: 15:49

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	9.077	8.980	9.180	22.190	20.000	11.0
Tetrachloro-m-xylene	3.551	3.500	3.600	20.580	20.000	2.9
alpha-BHC	4.000	3.950	4.050	9.360	10.000	-6.4
beta-BHC	4.516	4.470	4.570	10.510	10.000	5.1
gamma-BHC (Lindane)	4.331	4.280	4.380	9.760	10.000	-2.4
Endrin	6.577	6.510	6.650	52.580	50.000	5.2
4,4'-DDT	7.024	6.950	7.090	104.120	100.000	4.1
Methoxychlor	7.497	7.430	7.570	239.500	250.000	-4.2

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

Client Sample No. (PEM): PEM - PD088605.D Date Analyzed: 05/19/2025

Lab Sample No.(PEM): PEM Time Analyzed: 15:49

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	8.076	7.980	8.180	22.350	20.000	11.8
Tetrachloro-m-xylene	2.882	2.830	2.930	21.360	20.000	6.8
alpha-BHC	3.394	3.340	3.440	11.120	10.000	11.2
beta-BHC	4.027	3.980	4.080	11.510	10.000	15.1
gamma-BHC (Lindane)	3.731	3.680	3.780	11.190	10.000	11.9
Endrin	5.792	5.720	5.860	51.270	50.000	2.5
4,4'-DDT	6.186	6.120	6.260	99.720	100.000	-0.3
Methoxychlor	6.757	6.690	6.830	205.690	250.000	-17.7

PEM
 Data File: PD088605.D Date Acquired 5/19/2025 15:49
 Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin	6.58	179557630.1	181819910.5	2262280.36	Down 1.24
Endrin aldehyde	6.92	683872.854			
Endrin ketone	7.63	1578407.509			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.79	988716238.6	1009185478	20469239.6	2.03
Endrin aldehyde #2	6.26	9163216.857			
Endrin ketone #2	6.99	11306022.79			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	325080411.3	325705707.4	625296.175	0.19
4,4'-DDE	0.00	0			
4,4'-DDD	6.70	625296.175			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.19	1808639095	1814683557	6044461.72	0.33
4,4'-DDE #2	0.00	0			
4,4'-DDD #2	5.93	6044461.719			

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
 Data File : PD088605.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 May 2025 15:49
 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 20 04:39:06 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...	3.551	2.882	44529897	323.1E6	20.580	21.359
28) SA Decachlor...	9.077	8.076	75939709	407.9E6	22.189	22.346
Target Compounds						
2) A alpha-BHC	4.000	3.394	44714607	265.9E6	9.361	11.124
3) MA gamma-BHC...	4.331	3.731	44937590	248.0E6	9.763	11.191
6) B beta-BHC	4.516	4.027	18943064	112.1E6	10.506	11.507
14) MA Endrin	6.577	5.792	179.6E6	988.7E6	52.576	51.271
16) A 4,4'-DDD	6.704	5.934	625296	6044462	0.225m	0.348m#
17) MA 4,4'-DDT	7.024	6.186	325.1E6	1808.6E6	104.124	99.719
18) B Endrin al...	6.922	6.258	683873	9163217	0.266	0.658m#
20) A Methoxychlor	7.497	6.757	400.1E6	1969.4E6	239.500	205.688
21) B Endrin ke...	7.632	6.992	1578408	11306023	0.461m	0.584m#

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088605.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 15:49
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

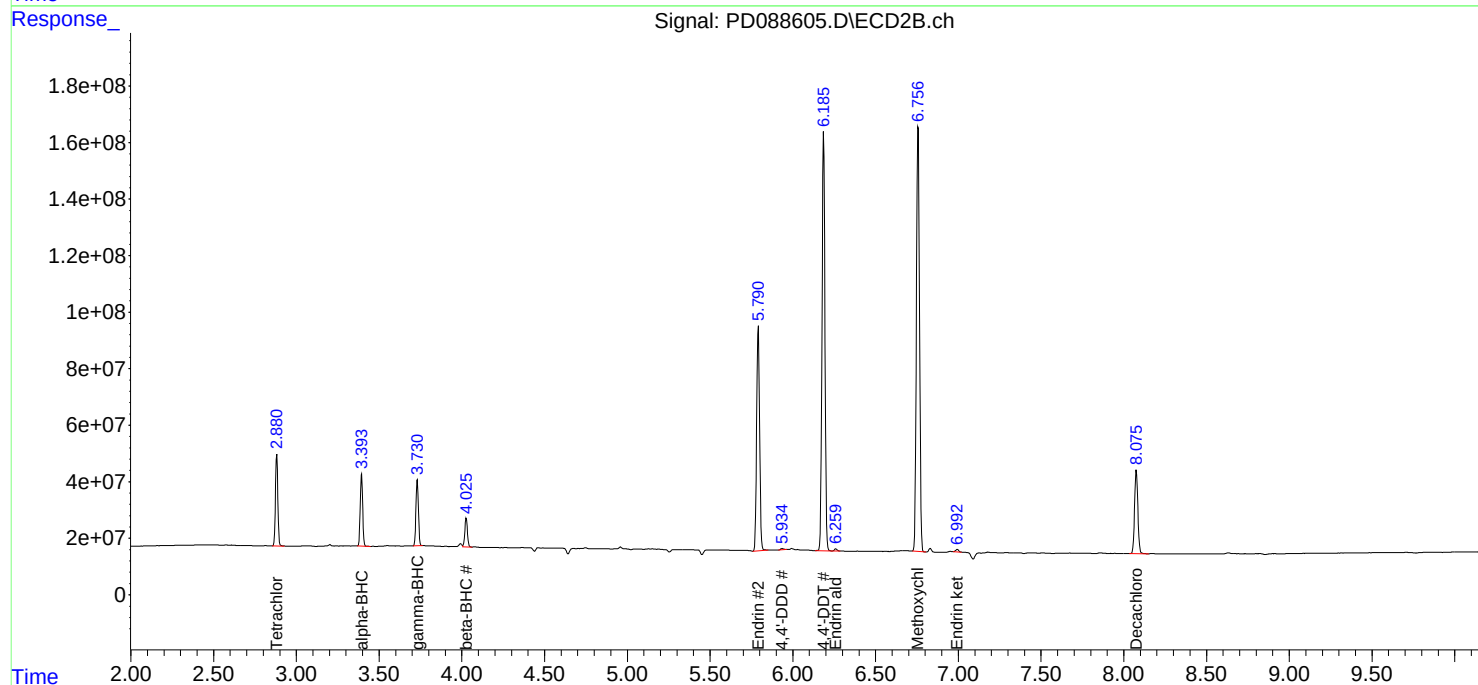
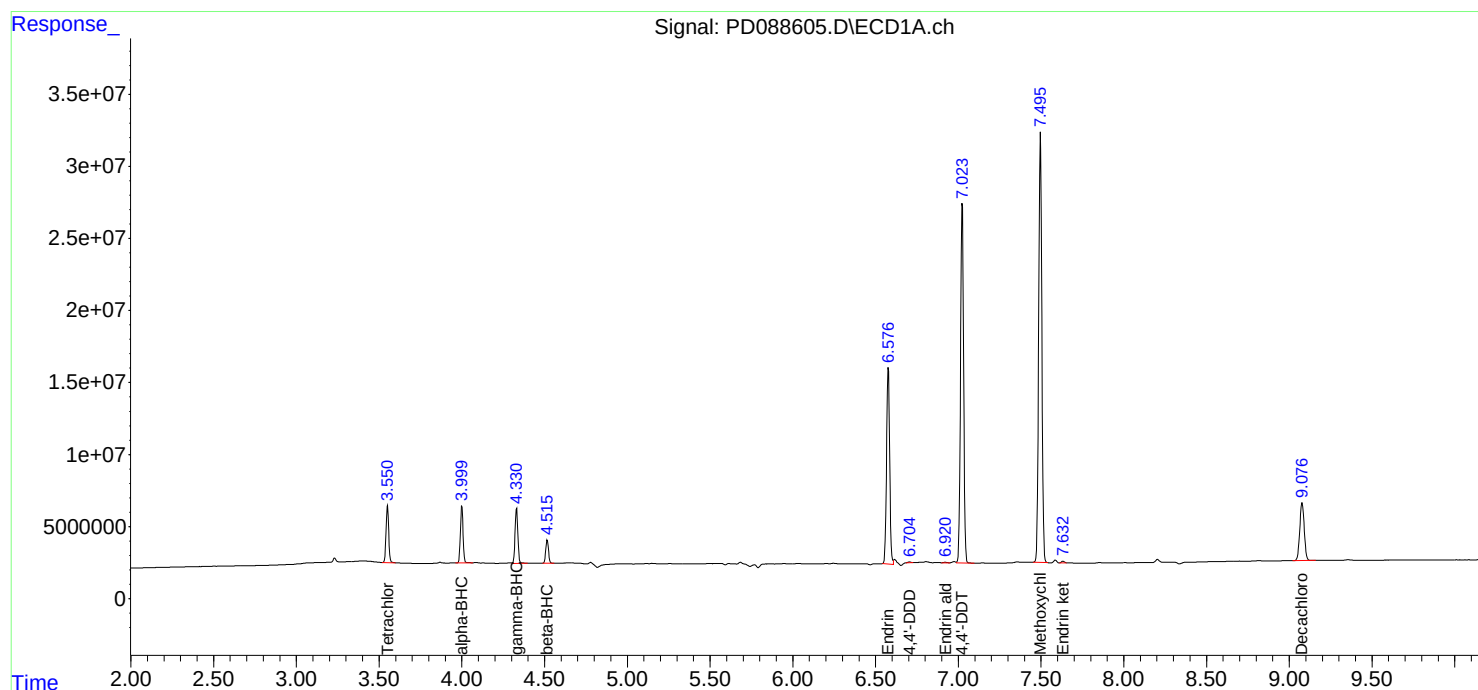
Instrument :
ECD_D
ClientSampleId :
PEM

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 20 04:39:06 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

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

Client Sample No. (PEM): PEM - PD088629.D Date Analyzed: 05/20/2025

Lab Sample No.(PEM): PEM Time Analyzed: 08:25

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	9.075	8.970	9.180	22.900	20.000	14.5
Tetrachloro-m-xylene	3.551	3.500	3.600	21.800	20.000	9.0
alpha-BHC	4.000	3.950	4.050	9.880	10.000	-1.2
beta-BHC	4.516	4.470	4.570	11.100	10.000	11.0
gamma-BHC (Lindane)	4.331	4.280	4.380	10.190	10.000	1.9
Endrin	6.576	6.510	6.650	54.040	50.000	8.1
4,4'-DDT	7.023	6.950	7.090	88.250	100.000	-11.8
Methoxychlor	7.495	7.420	7.570	214.620	250.000	-14.2

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

Client Sample No. (PEM): PEM - PD088629.D Date Analyzed: 05/20/2025

Lab Sample No.(PEM): PEM Time Analyzed: 08:25

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	8.074	7.970	8.170	22.440	20.000	12.2
Tetrachloro-m-xylene	2.881	2.830	2.930	22.580	20.000	12.9
alpha-BHC	3.394	3.340	3.440	11.680	10.000	16.8
beta-BHC	4.026	3.980	4.080	11.910	10.000	19.1
gamma-BHC (Lindane)	3.730	3.680	3.780	11.660	10.000	16.6
Endrin	5.790	5.720	5.860	51.140	50.000	2.3
4,4'-DDT	6.185	6.110	6.260	84.280	100.000	-15.7
Methoxychlor	6.756	6.690	6.830	181.980	250.000	-27.2

PEM

Data File Name PD088629.D

Operator AR\AJ

Date Acquired

5/20/2025 8:25

DDT BREAKDOWN**COLUMN#1**

Name	RT	Response	Response (DDT+DDE+DDD)	Response DDE+DDD	%Break Down
4,4'-DDT	8.4	275528402.9	298787301.4	23258898.45	7.78
4,4'-DDE	7.56	0			
4,4'-DDD	8.14	23258898.45			

COLUMN#2

Name	RT	Response	Response (DDT+DDE+DDD)	Response DDE+DDD	%Break Down
4,4'-DDT #2	9.35	1528602654	1680144884	151542230.4	9.02
4,4'-DDE #2	8.49	0			
4,4'-DDD #2	9.03	151542230.4			

ENDRIN BREAKDOWN**COLUMN#1**

Name	RT	Response	Response (E+EA+EK)	Response (EA+EK)	%Break Down
Endrin	6.58	184551847.6	189347742.3	4795894.682	2.53
Endrin aldehyde	6.92	1013722.621			
Endrin ketone	7.63	3782172.061			

COLUMN#2

Name	RT	Response	Response (E+EA+EK)	Response (EA+EK)	%Break Down
Endrin #2	5.79	986149063	1029178367	43029304.4	4.18
Endrin aldehyde #2	6.26	10143918.51			
Endrin ketone #2	6.99	32885385.89			

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
 Data File : PD088629.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 May 2025 08:25
 Operator : AR\AJ
 Sample : PEM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PEM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 21 03:29:27 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...	3.551	2.881	47160633	341.5E6	21.796	22.576
28) SA Decachlor...	9.075	8.074	78382012	409.7E6	22.903	22.441
Target Compounds						
2) A alpha-BHC	4.000	3.394	47184263	279.1E6	9.878	11.676
3) MA gamma-BHC...	4.331	3.730	46901589	258.4E6	10.190	11.659
6) B beta-BHC	4.516	4.026	20015331	116.1E6	11.100	11.914
14) MA Endrin	6.576	5.790	184.6E6	986.1E6	54.039	51.138
16) A 4,4'-DDD	6.706	5.931	23258898	151.5E6	8.351	8.713
17) MA 4,4'-DDT	7.023	6.185	275.5E6	1528.6E6	88.253	84.279
18) B Endrin al...	6.919	6.259	1013723	10143919	0.394	0.728 #
20) A Methoxychlor	7.495	6.756	358.5E6	1742.4E6	214.619	181.980
21) B Endrin ke...	7.632	6.992	3782172	32885386	1.105	1.700 #

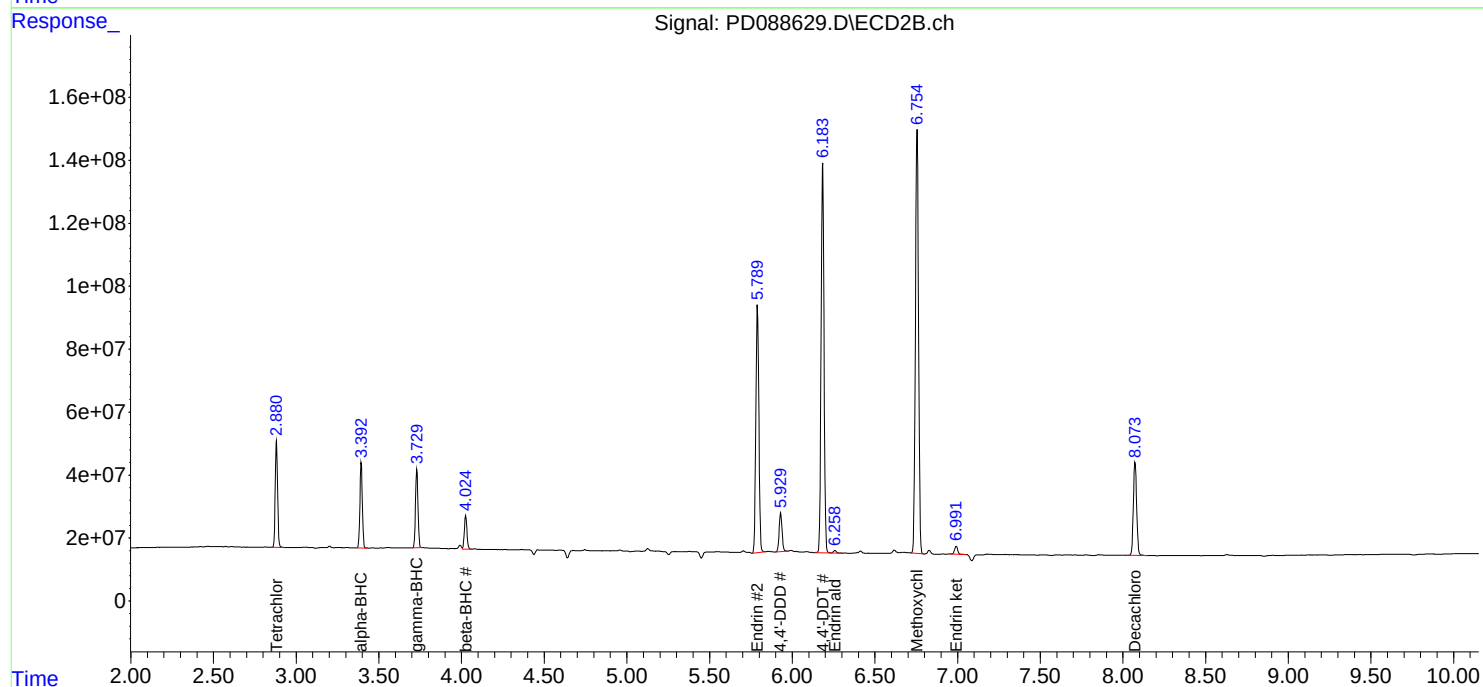
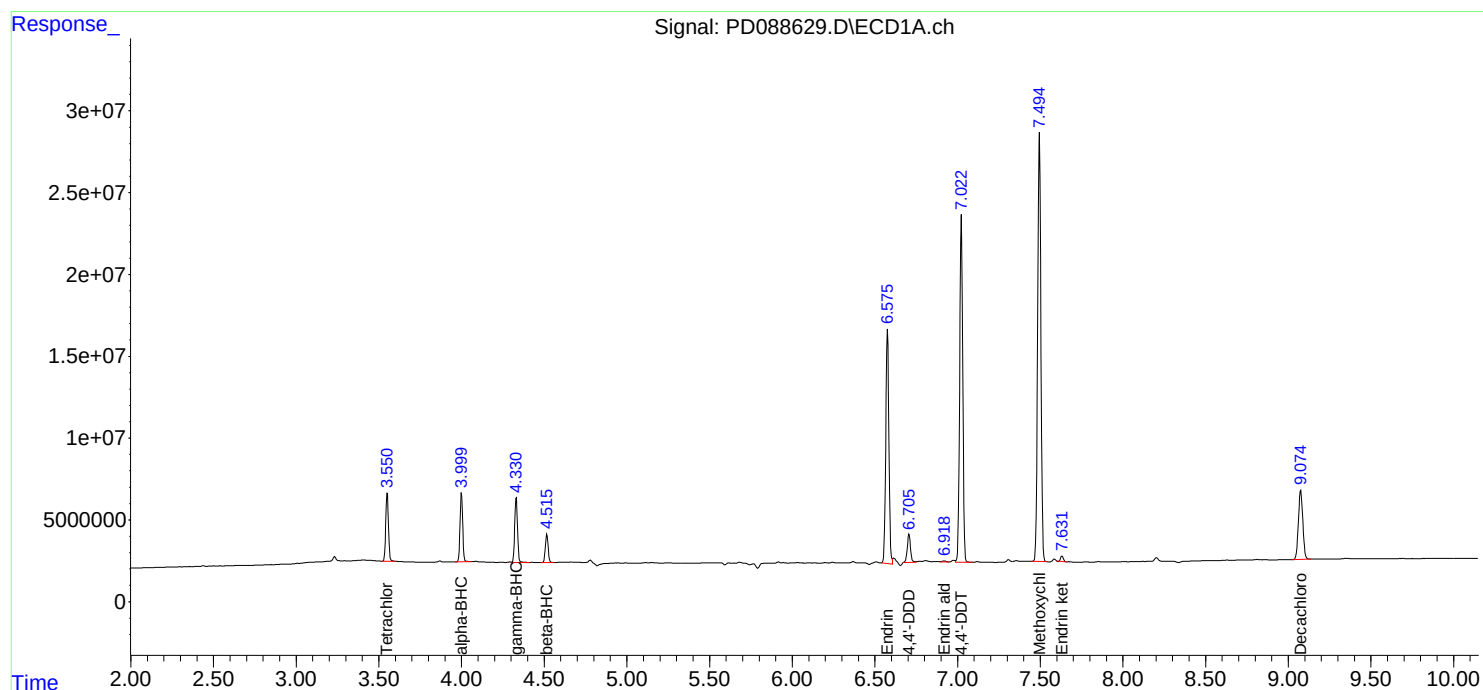
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088629.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 08:25
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:29:27 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



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%

PD051925.M Mon May 19 14:07:57 2025

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

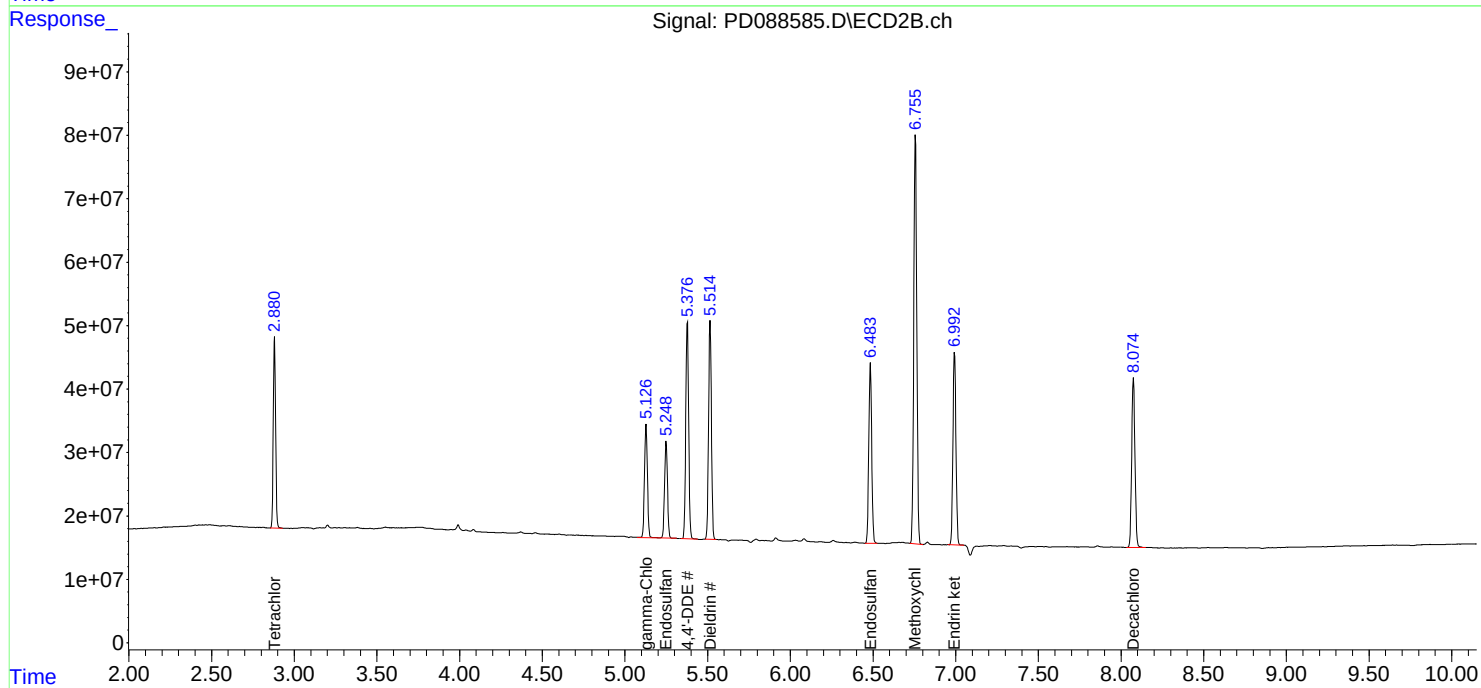
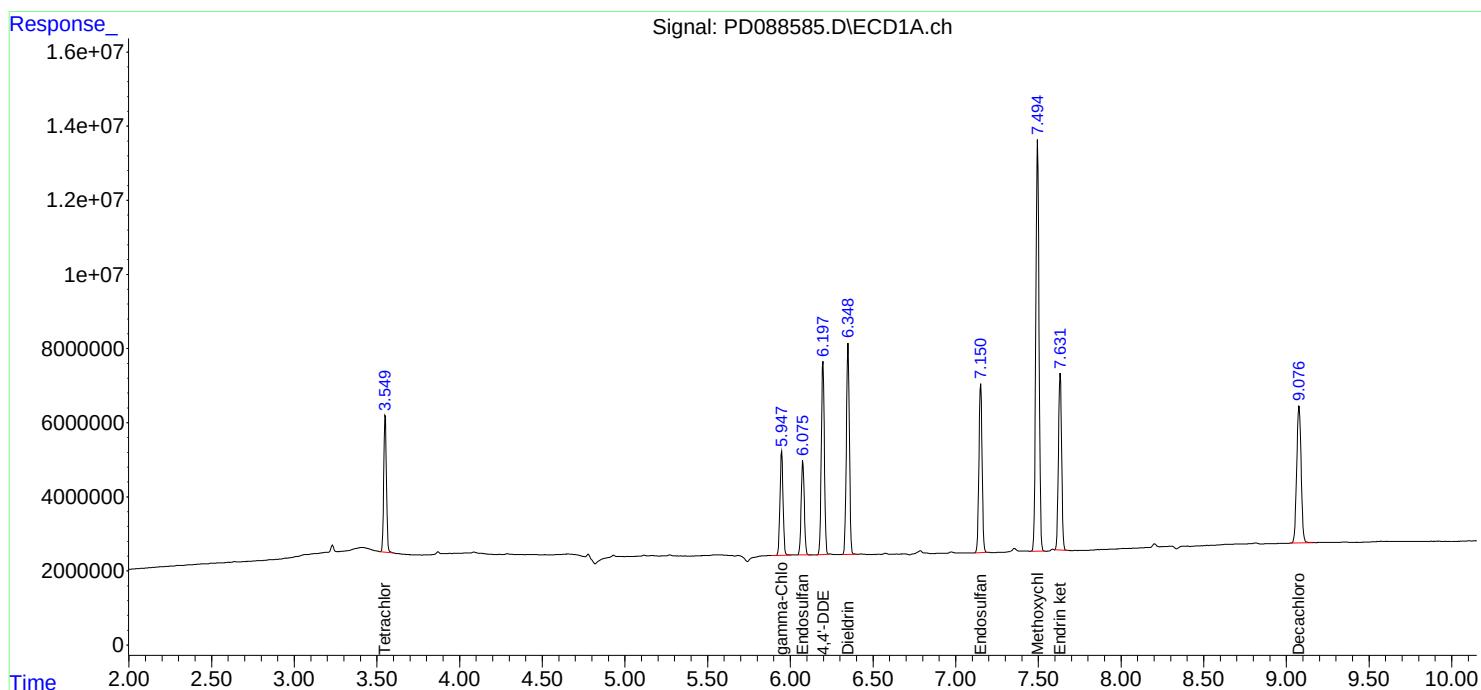
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Analytical Sequence

Client: CDM Smith	SDG No.: Q2032
Project: South River WM Replacement	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 #
IBLK	IBLK	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
PSTDICCC100	PSTDICCC100	05/19/2025	11:31	PD088586.D	9.08	3.55
PSTDICCC075	PSTDICCC075	05/19/2025	11:45	PD088587.D	9.08	3.55
PSTDICCC050	PSTDICCC050	05/19/2025	11:58	PD088588.D	9.08	3.55
PSTDICCC025	PSTDICCC025	05/19/2025	12:12	PD088589.D	9.08	3.55
PSTDICCC005	PSTDICCC005	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
PEM	PEM	05/19/2025	15:49	PD088605.D	9.08	3.55
IBLK	IBLK	05/19/2025	17:45	PD088613.D	9.08	3.55
PSTDCCC050	PSTDCCC050	05/19/2025	18:45	PD088614.D	9.08	3.55
PB168066BL	PB168066BL	05/19/2025	20:26	PD088616.D	9.08	3.55
PB167994TB	PB167994TB	05/19/2025	20:54	PD088618.D	9.08	3.55
B27-SOIL-SAMPLEMS	Q2027-03MS	05/19/2025	21:35	PD088621.D	9.08	3.55
B27-SOIL-SAMPLEMSD	Q2027-03MSD	05/19/2025	21:49	PD088622.D	9.08	3.55
COMP-1	Q2032-09	05/19/2025	22:16	PD088624.D	9.08	3.55
IBLK	IBLK	05/19/2025	22:30	PD088625.D	9.08	3.55
PSTDCCC050	PSTDCCC050	05/19/2025	22:43	PD088626.D	9.08	3.55
IBLK	IBLK	05/20/2025	08:11	PD088628.D	9.08	3.55
PEM	PEM	05/20/2025	08:25	PD088629.D	9.08	3.55
PSTDCCC050	PSTDCCC050	05/20/2025	09:23	PD088630.D	9.09	3.56
PB168066BS	PB168066BS	05/20/2025	11:01	PD088633.D	9.08	3.55
IBLK	IBLK	05/20/2025	12:58	PD088641.D	9.08	3.55
PSTDCCC050	PSTDCCC050	05/20/2025	13:11	PD088642.D	9.08	3.55

Analytical Sequence

Client: CDM Smith	SDG No.: Q2032
Project: South River WM Replacement	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 #
IBLK	IBLK	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
PEM	PEM	05/19/2025	15:49	PD088605.D	8.08	2.88
IBLK	IBLK	05/19/2025	17:45	PD088613.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/19/2025	18:45	PD088614.D	8.08	2.88
PB168066BL	PB168066BL	05/19/2025	20:26	PD088616.D	8.08	2.88
PB167994TB	PB167994TB	05/19/2025	20:54	PD088618.D	8.08	2.88
B27-SOIL-SAMPLEMS	Q2027-03MS	05/19/2025	21:35	PD088621.D	8.08	2.88
B27-SOIL-SAMPLEMSD	Q2027-03MSD	05/19/2025	21:49	PD088622.D	8.07	2.88
COMP-1	Q2032-09	05/19/2025	22:16	PD088624.D	8.08	2.88
IBLK	IBLK	05/19/2025	22:30	PD088625.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/19/2025	22:43	PD088626.D	8.08	2.88
IBLK	IBLK	05/20/2025	08:11	PD088628.D	8.08	2.88
PEM	PEM	05/20/2025	08:25	PD088629.D	8.07	2.88
PSTDCCC050	PSTDCCC050	05/20/2025	09:23	PD088630.D	8.08	2.88
PB168066BS	PB168066BS	05/20/2025	11:01	PD088633.D	8.08	2.88
IBLK	IBLK	05/20/2025	12:58	PD088641.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/20/2025	13:11	PD088642.D	8.08	2.88

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B27-SOIL-SAMPLEMS

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032

SAS No.: Q2032 SDG NO.: Q2032

Lab Sample ID: Q2027-03MS

Date(s) Analyzed: 05/19/2025 05/19/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Methoxychlor	1	7.50	7.45	7.55	4.90	2.1
	2	6.76	6.71	6.81	4.80	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	5.60	7.4
	2	3.73	3.68	3.78	5.20	
Heptachlor	1	4.93	4.88	4.98	4.90	9.7
	2	4.09	4.04	4.14	5.40	
Heptachlor epoxide	1	5.69	5.64	5.74	5.50	5.6
	2	4.88	4.83	4.93	5.20	
Endrin	1	6.58	6.53	6.63	5.60	5.5
	2	5.79	5.74	5.84	5.30	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

B27-SOIL-SAMPLEMSD

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032

SAS No.: Q2032 SDG NO.: Q2032

Lab Sample ID: Q2027-03MSD

Date(s) Analyzed: 05/19/2025 05/19/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Methoxychlor	1	7.49	7.44	7.54	4.90	0
	2	6.76	6.71	6.81	4.90	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	5.60	5.5
	2	3.73	3.68	3.78	5.30	
Heptachlor	1	4.93	4.88	4.98	4.90	11.5
	2	4.08	4.03	4.13	5.50	
Heptachlor epoxide	1	5.69	5.64	5.74	5.50	3.7
	2	4.87	4.82	4.92	5.30	
Endrin	1	6.58	6.53	6.63	5.60	5.5
	2	5.79	5.74	5.84	5.30	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168066BS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2032

SAS No.: Q2032 **SDG NO.:** Q2032

Lab Sample ID: PB168066BS

Date(s) Analyzed: 05/20/2025 05/20/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Methoxychlor	1	7.50	7.45	7.55	4.60	0
	2	6.76	6.71	6.81	4.60	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	5.30	0
	2	3.73	3.68	3.78	5.30	
Heptachlor	1	4.93	4.88	4.98	5.30	3.8
	2	4.08	4.03	4.13	5.10	
Heptachlor epoxide	1	5.70	5.65	5.75	5.40	1.9
	2	4.87	4.82	4.92	5.30	
Endrin	1	6.58	6.53	6.63	5.30	1.9
	2	5.79	5.74	5.84	5.20	



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith			Date Collected:			
Project:	South River WM Replacement			Date Received:			
Client Sample ID:	PB168066BL			SDG No.:	Q2032		
Lab Sample ID:	PB168066BL			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
PD088616.D	1	05/19/25 09:20	05/19/25 20:26	PB168066

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	19.6		43 - 140	98%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.9		77 - 126	100%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of OC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088616.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 20:26
Operator : AR\AJ
Sample : PB168066BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168066BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:44 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...	3.551	2.882	39459466	301.5E6	18.237	19.930
28) SA Decachlor...	9.077	8.076	67104214	350.6E6	19.608	19.206

Target Compounds

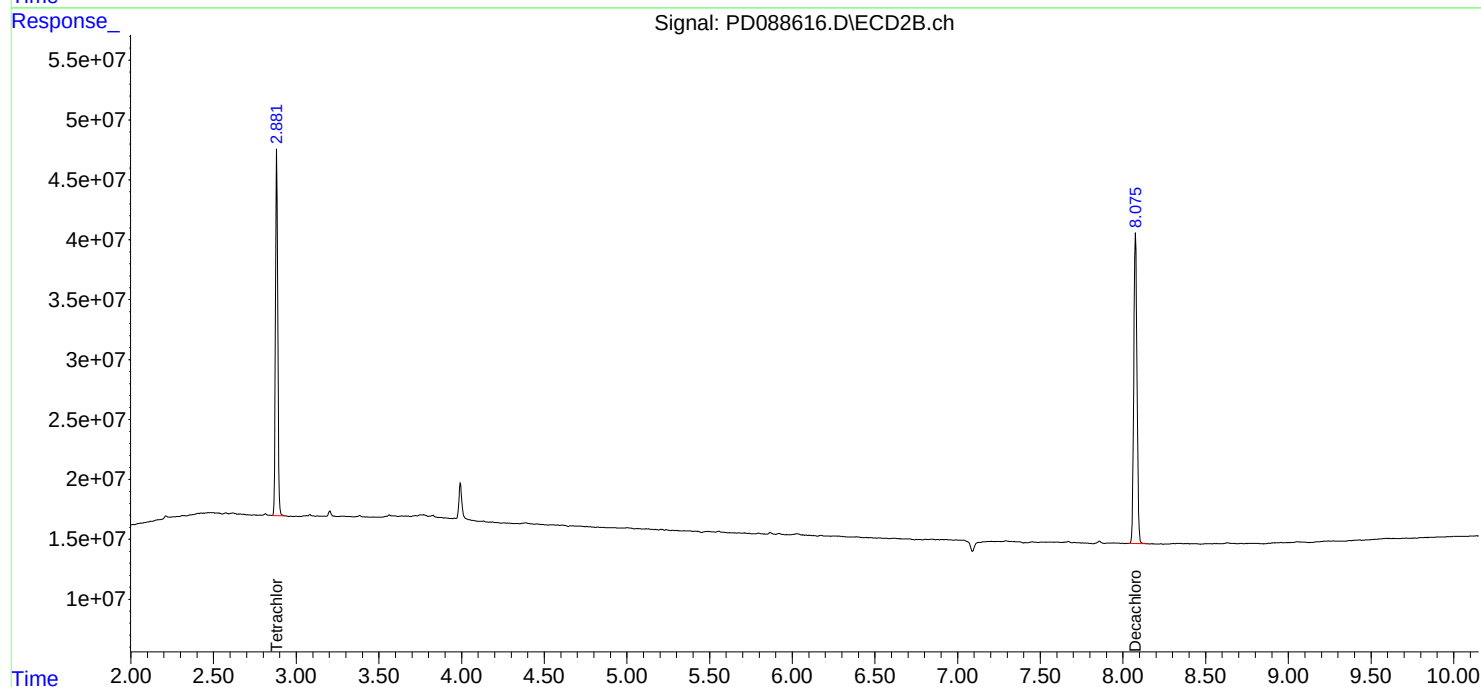
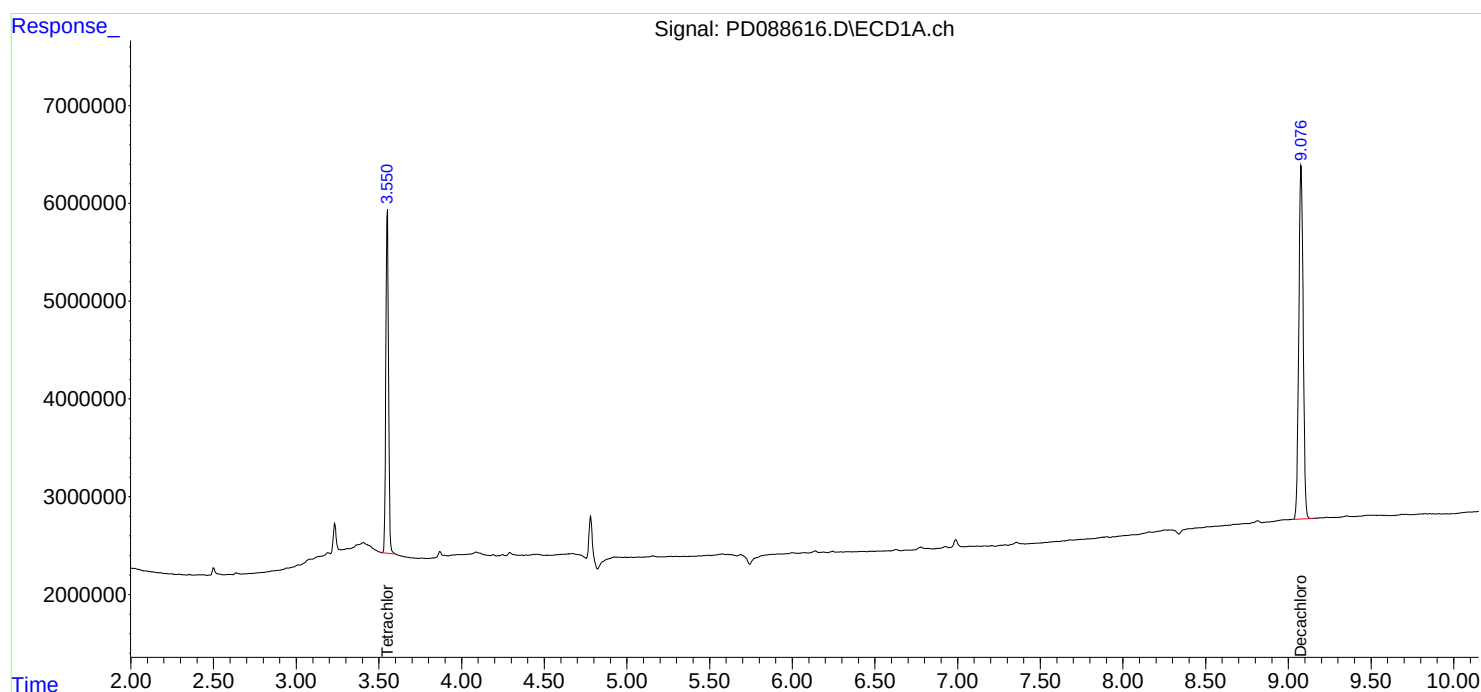
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

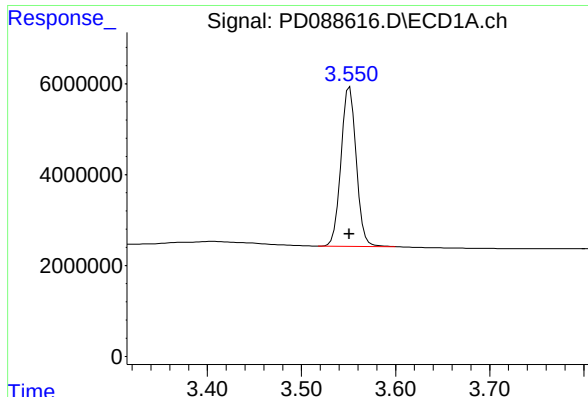
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088616.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 20:26
Operator : AR\AJ
Sample : PB168066BL
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168066BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:44 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

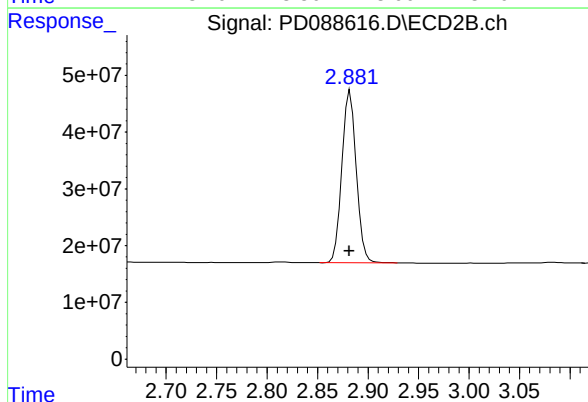




#1 Tetrachloro-m-xylene

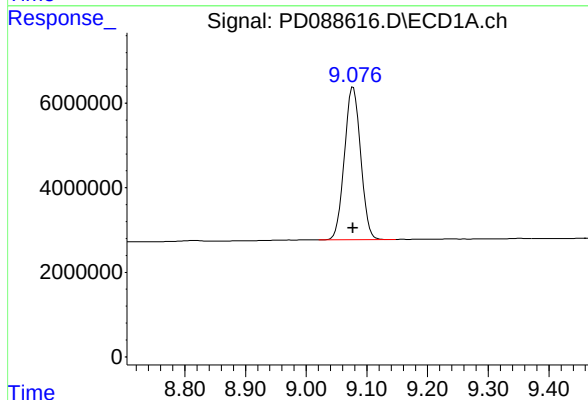
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 39459466
Conc: 18.24 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB168066BL



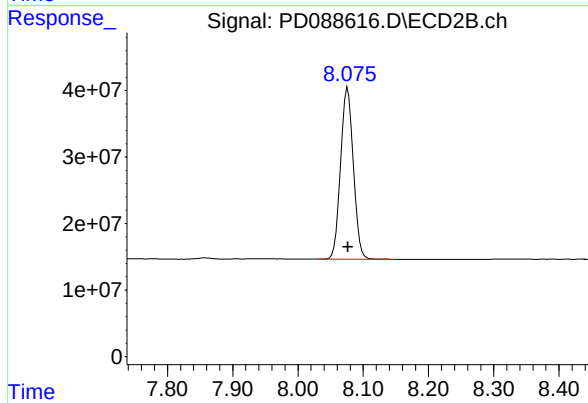
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 301471451
Conc: 19.93 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 67104214
Conc: 19.61 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 350638456
Conc: 19.21 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/19/25
Client Sample ID:	PIBLK-PD088583.D	SDG No.:	Q2032
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		43 - 140	92%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.9		77 - 126	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

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

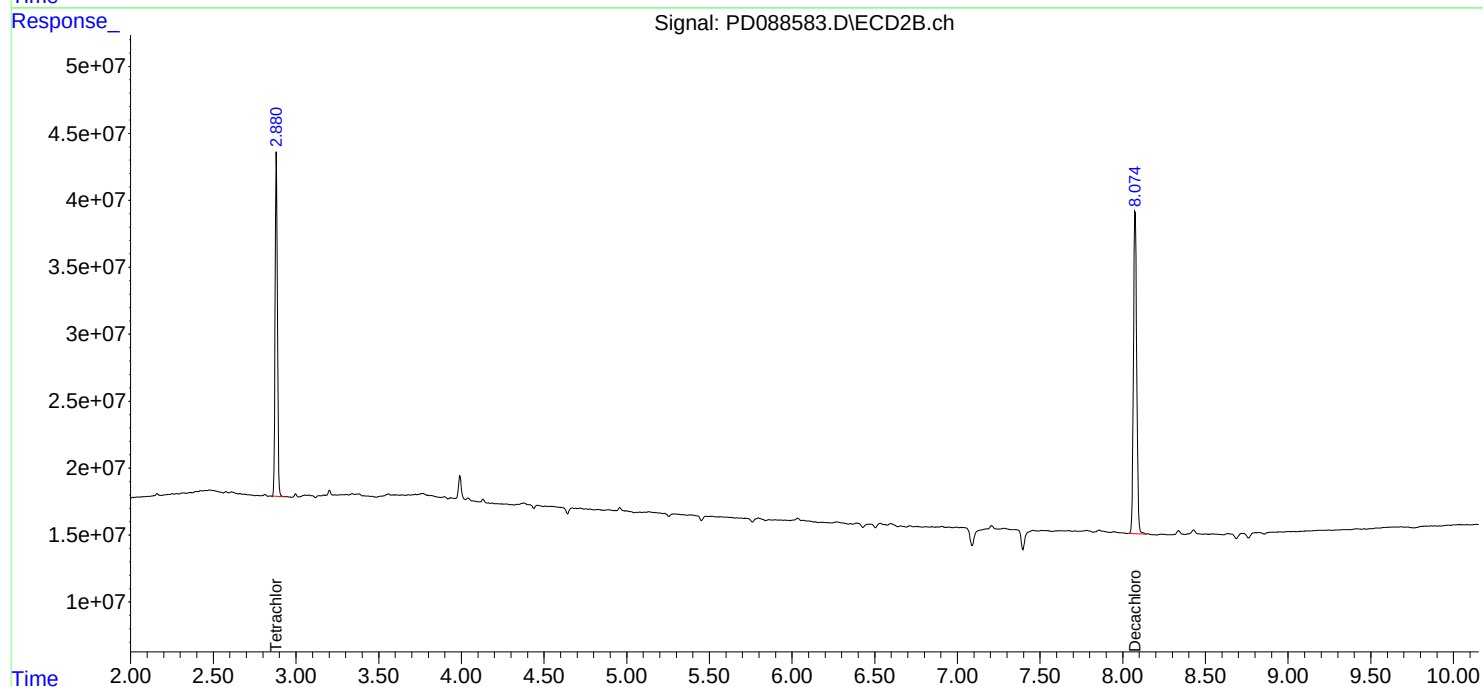
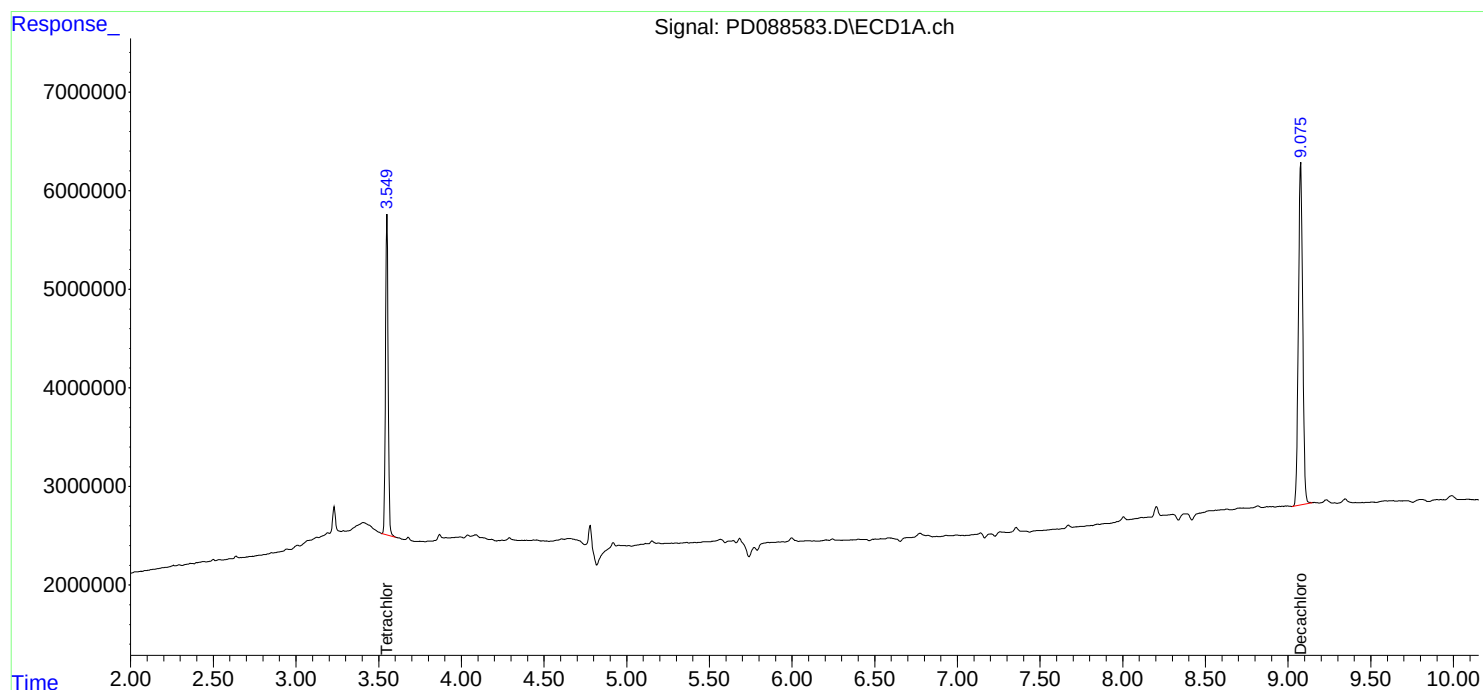
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

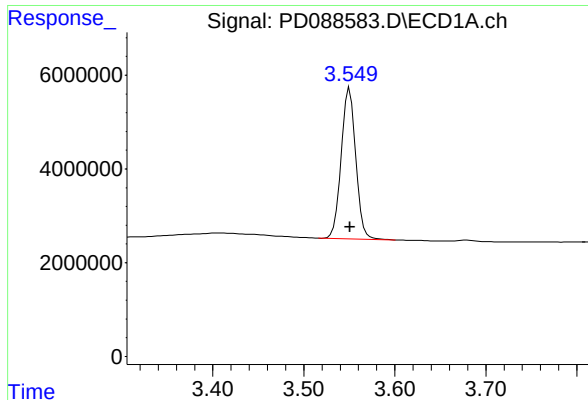
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088583.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 10:50
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

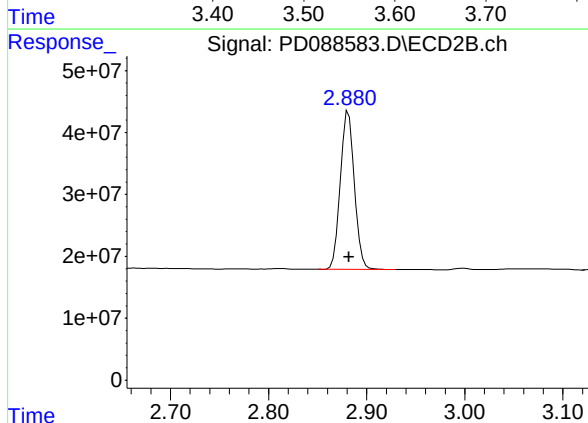




#1 Tetrachloro-m-xylene

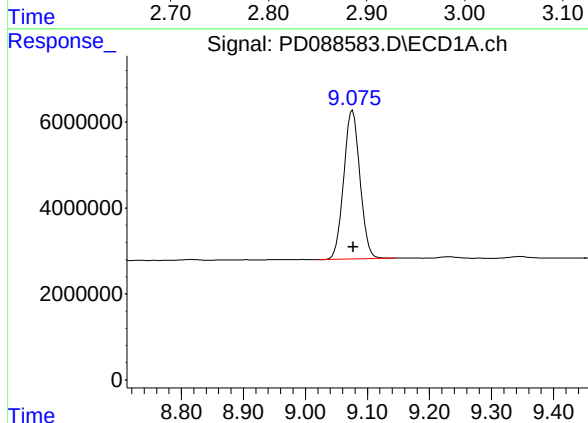
R.T.: 3.550 min
Delta R.T.: 0.000 min
Response: 35746806
Conc: 16.52 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



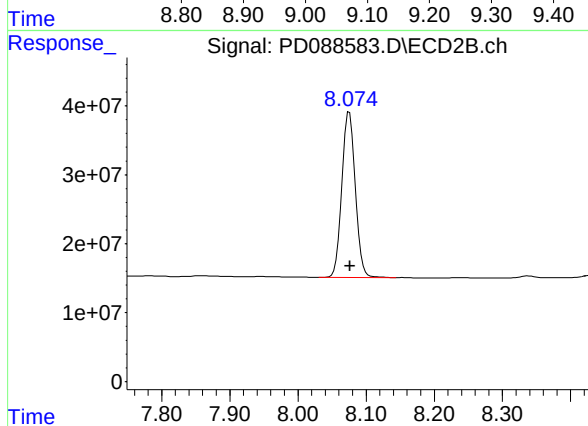
#1 Tetrachloro-m-xylene

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

Report of Analysis

Client:	CDM Smith			Date Collected:	05/19/25	
Project:	South River WM Replacement			Date Received:	05/19/25	
Client Sample ID:	PIBLK-PD088613.D			SDG No.:	Q2032	
Lab Sample ID:	I.BLK-PD088613.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
PD088613.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	15.6		43 - 140	78%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.1		77 - 126	91%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of OC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
 Data File : PD088613.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 May 2025 17:45
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 I.BLK

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 20 04:39:28 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...	3.551	2.882	37470058	274.4E6	17.317	18.139
28) SA Decachlor...	9.076	8.076	51411928	284.4E6	15.022m	15.578

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 : PD088613.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:45
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

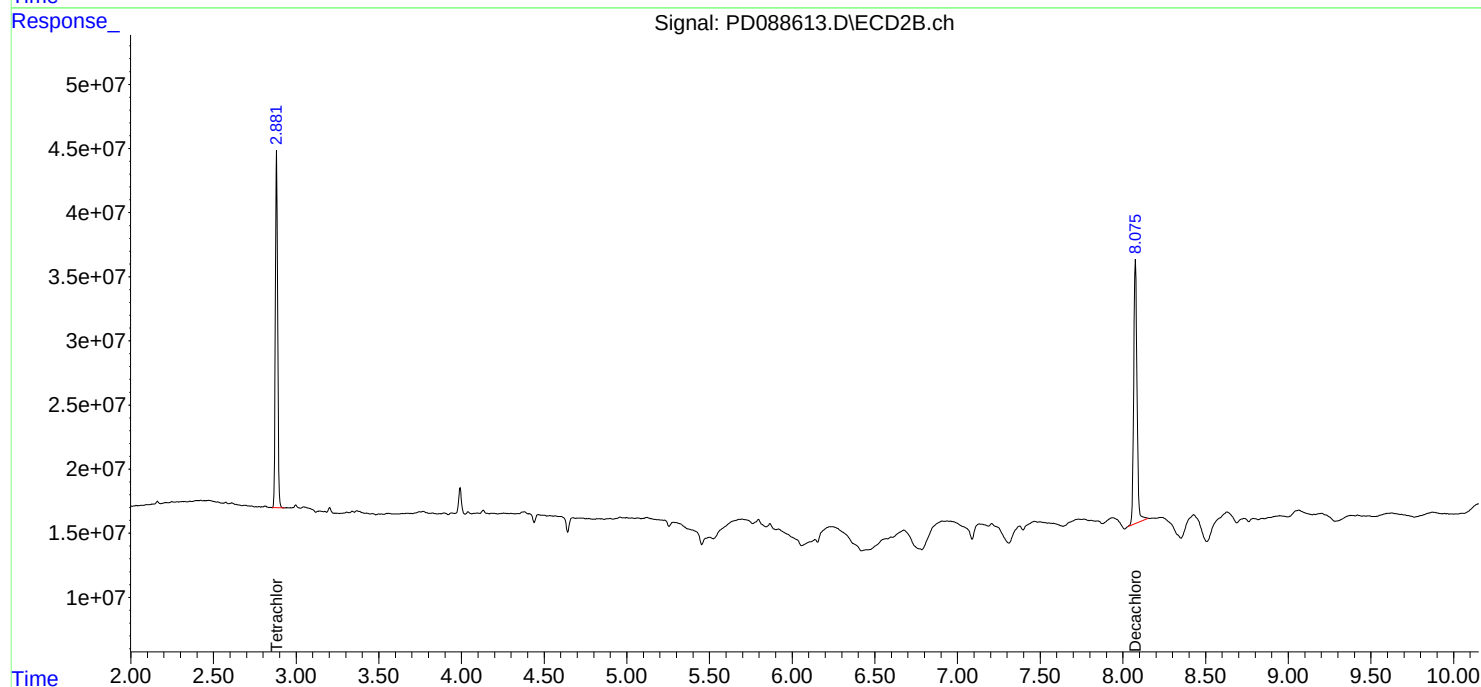
Instrument :
ECD_D
ClientSampleId :
I.BLK

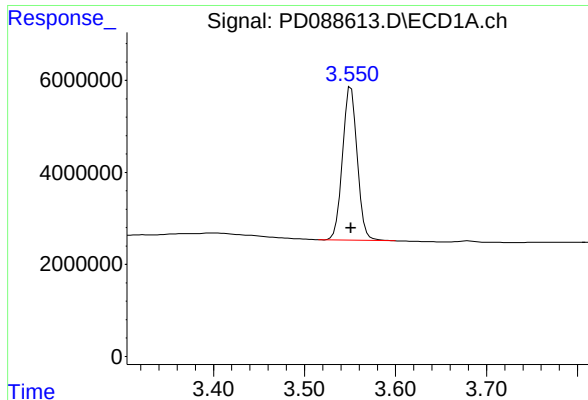
Manual Integrations
APPROVED

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 20 04:39:28 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





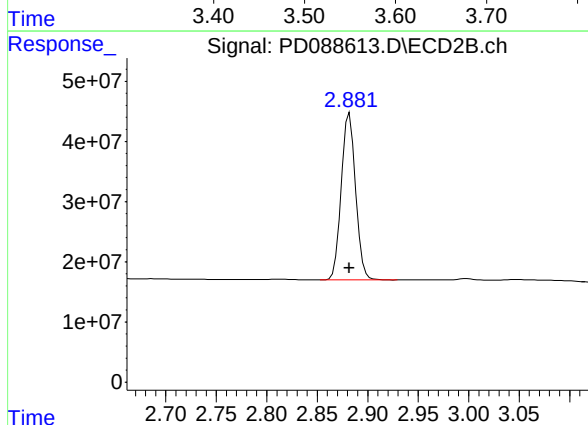
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 37470058
Conc: 17.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK

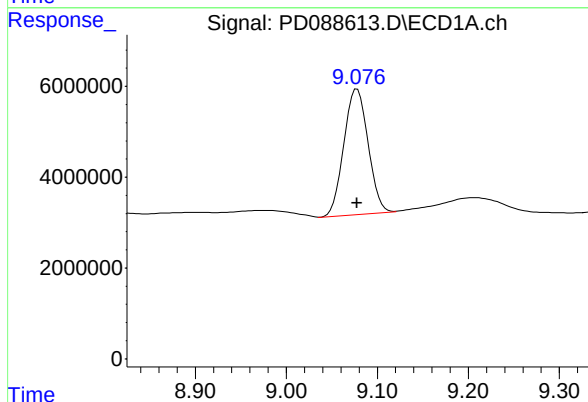
Manual Integrations
APPROVED

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



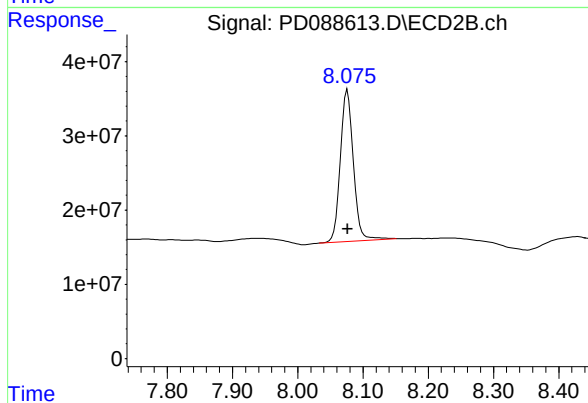
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 274393079
Conc: 18.14 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.001 min
Response: 51411928
Conc: 15.02 ng/ml m



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 284390691
Conc: 15.58 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/19/25
Client Sample ID:	PIBLK-PD088625.D	SDG No.:	Q2032
Lab Sample ID:	I.BLK-PD088625.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
PD088625.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	19.5		43 - 140	97%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.5		77 - 126	92%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088625.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 22:30
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: May 20 04:39:48 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...	3.551	2.882	38626215	279.5E6	17.852	18.479
28) SA Decachlor...	9.076	8.076	66673232	347.7E6	19.482	19.045

Target Compounds

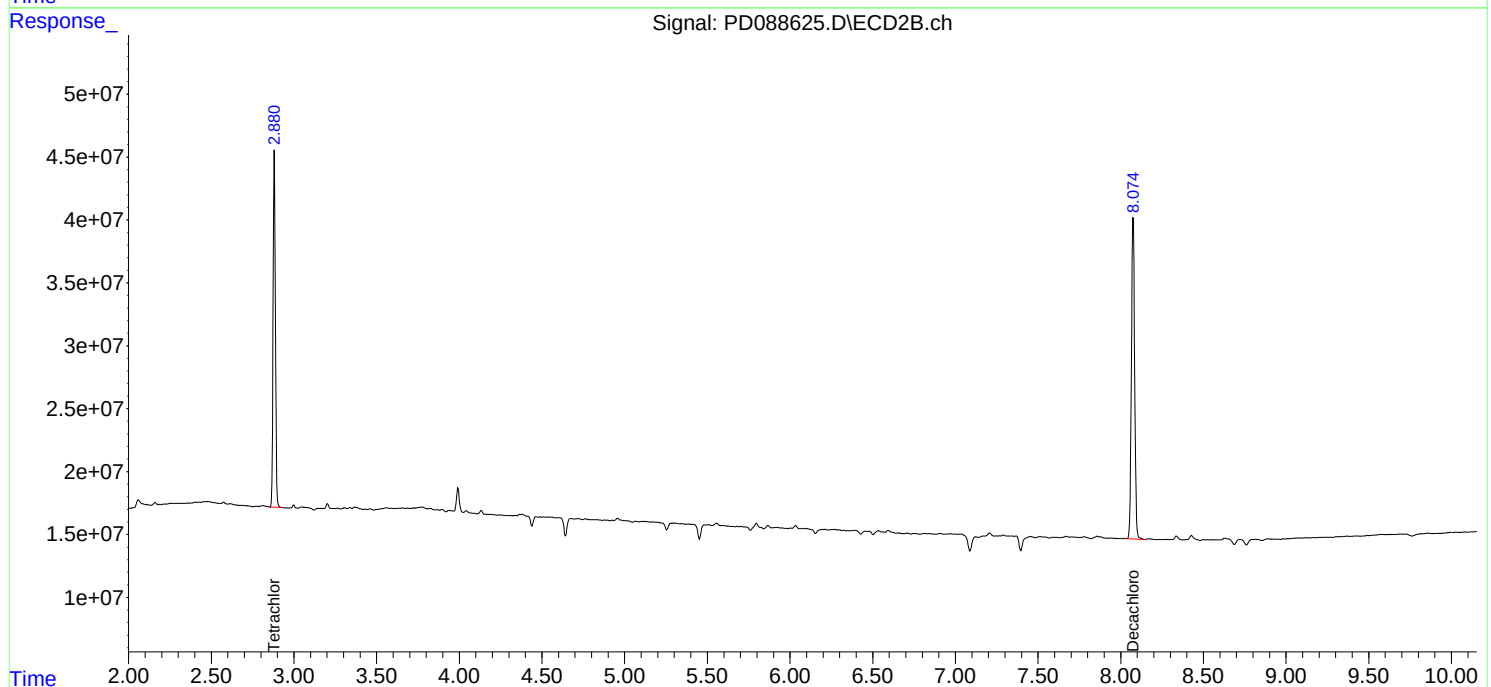
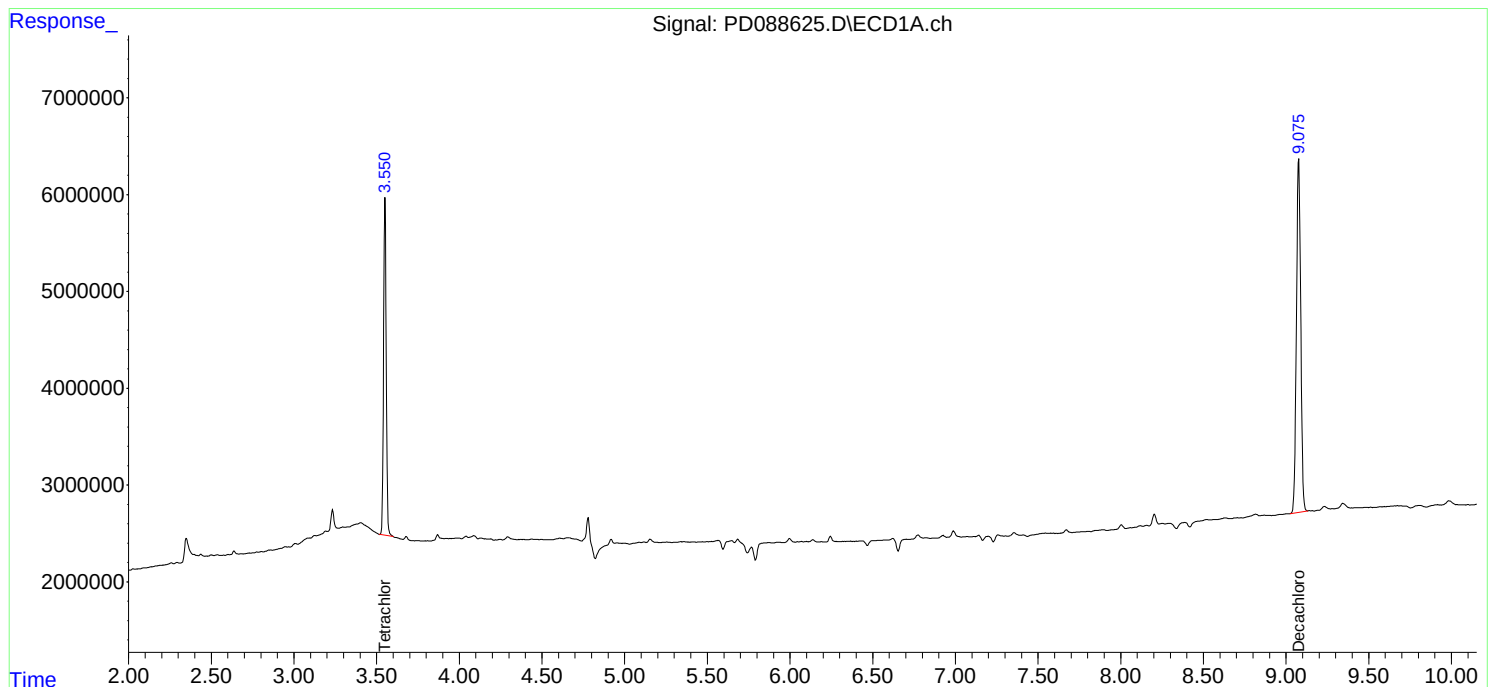
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

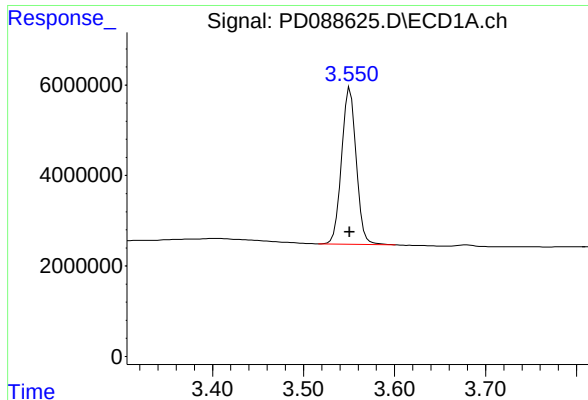
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088625.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 22:30
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:48 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

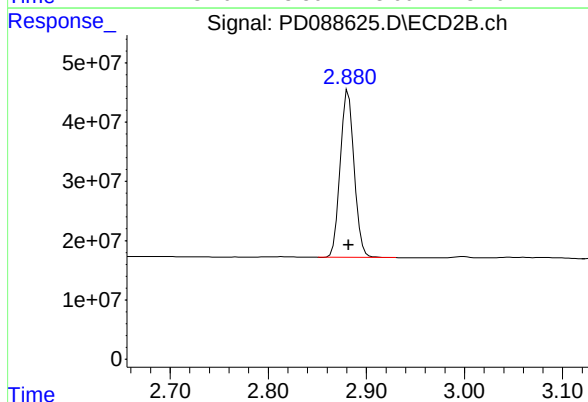




#1 Tetrachloro-m-xylene

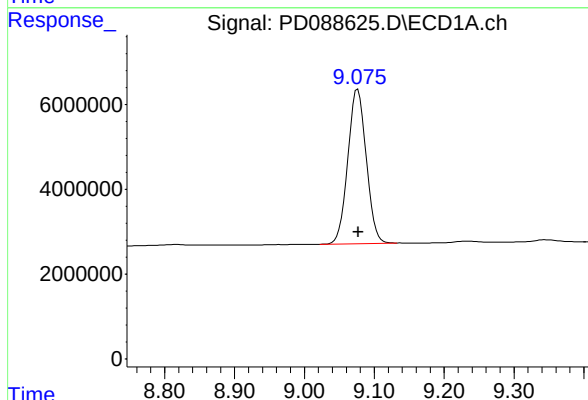
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 38626215
Conc: 17.85 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



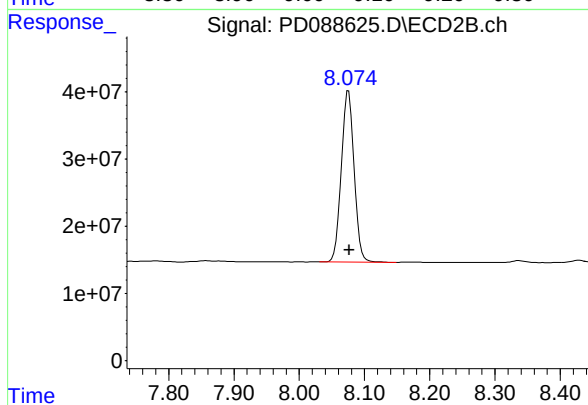
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 279532074
Conc: 18.48 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.001 min
Response: 66673232
Conc: 19.48 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 347696453
Conc: 19.05 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	PIBLK-PD088628.D	SDG No.:	Q2032
Lab Sample ID:	I.BLK-PD088628.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
PD088628.D	1		05/20/25	PD052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.2		43 - 140	101%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.8		77 - 126	94%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
 Data File : PD088628.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 May 2025 08:11
 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 21 03:29:15 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...	3.551	2.881	39763189	284.8E6	18.377	18.831
28) SA Decachlor...	9.078	8.075	69048684	360.3E6	20.176	19.737

Target Compounds

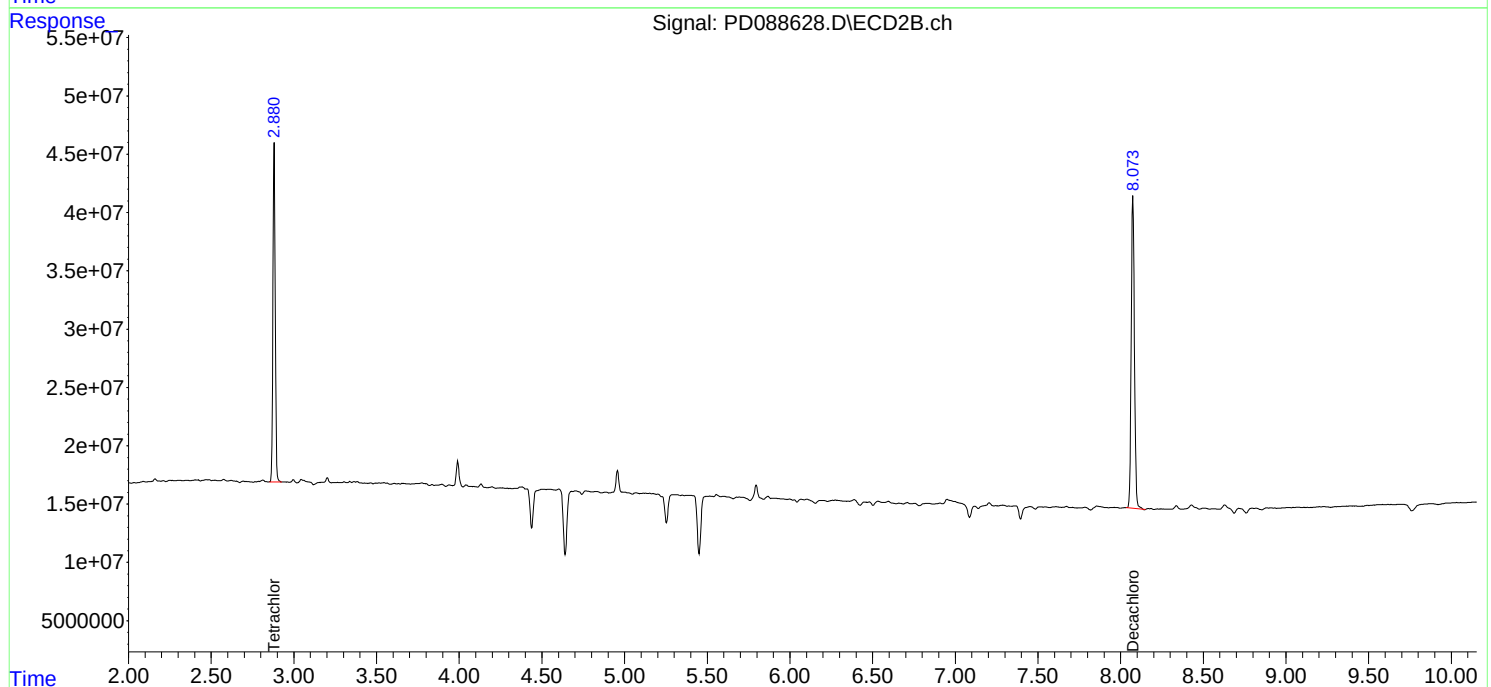
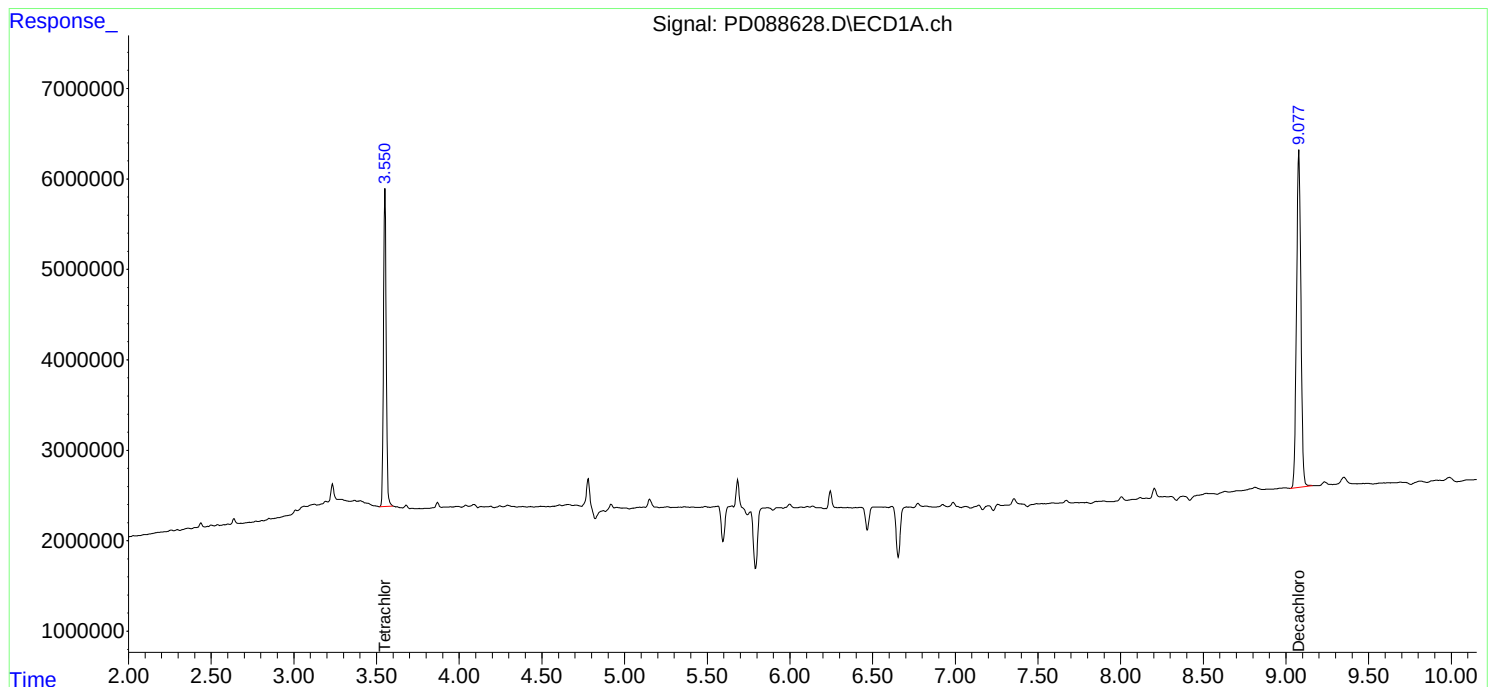
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

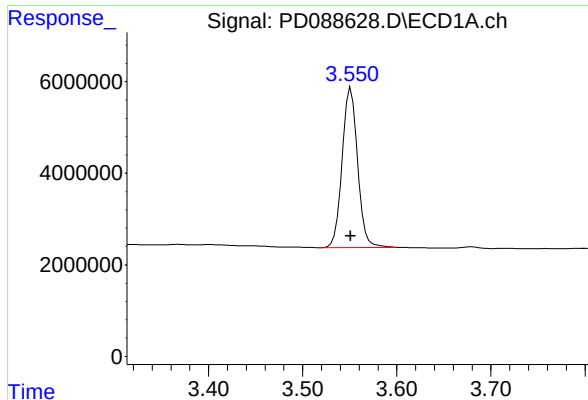
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088628.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 08:11
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:29:15 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

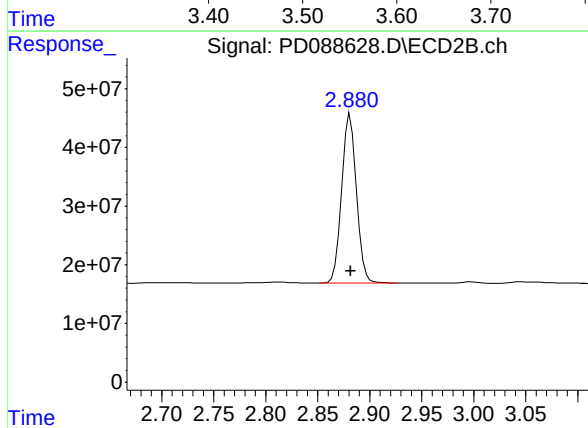




#1 Tetrachloro-m-xylene

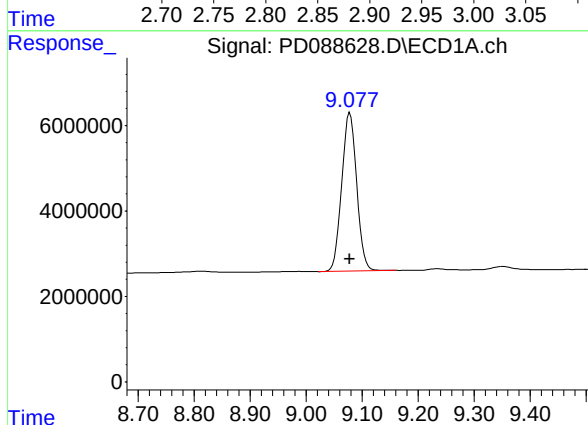
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 39763189
Conc: 18.38 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



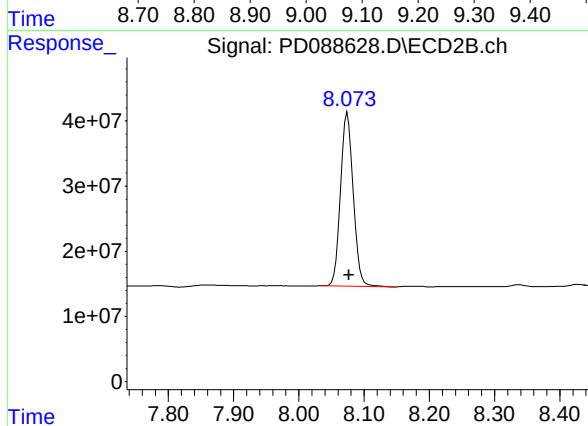
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: 0.000 min
Response: 284849574
Conc: 18.83 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 69048684
Conc: 20.18 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 360328979
Conc: 19.74 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	PIBLK-PD088641.D	SDG No.:	Q2032
Lab Sample ID:	I.BLK-PD088641.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
PD088641.D	1		05/20/25	PD052025

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	18.0		43 - 140	90%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.9		77 - 126	95%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
 Data File : PD088641.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 May 2025 12:58
 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 21 03:31:40 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	2.882	39323560	286.4E6	18.174	18.933
28) SA Decachlor...	9.076	8.075	61661993	322.9E6	18.018	17.689

Target Compounds

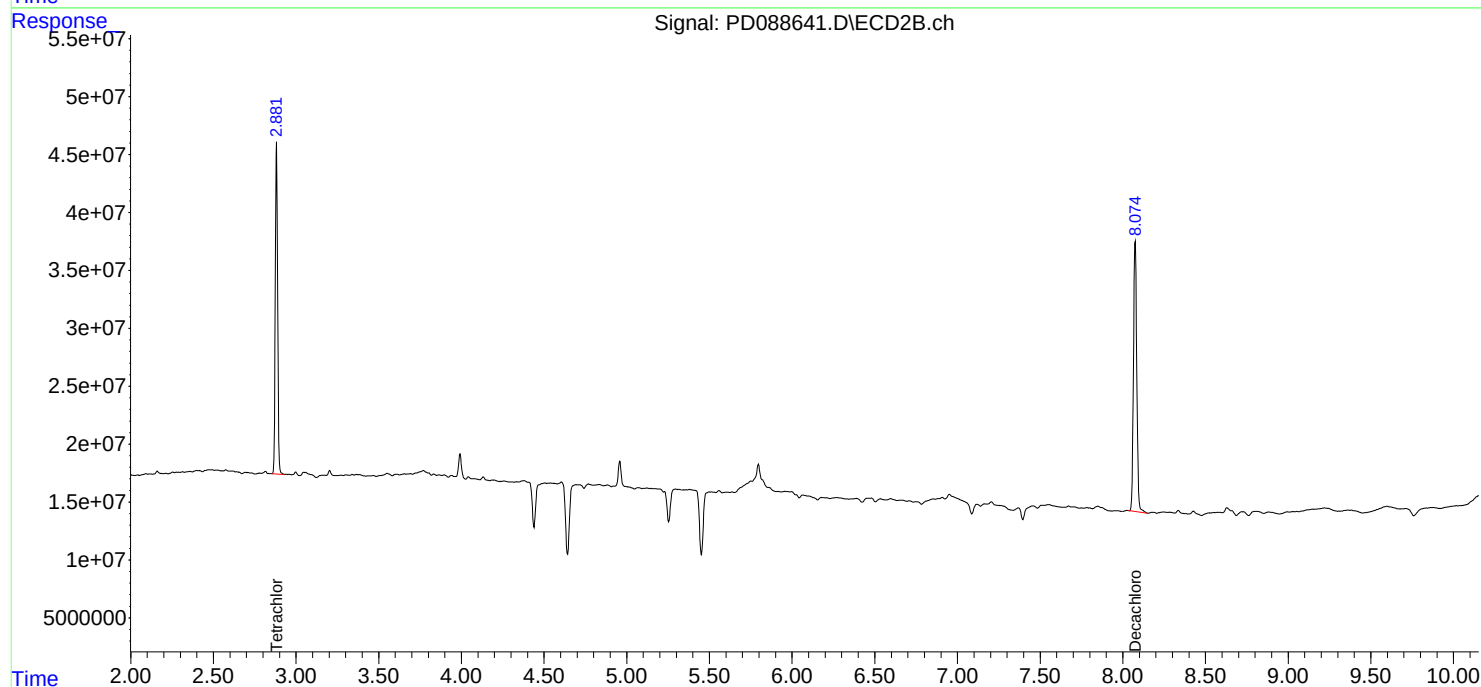
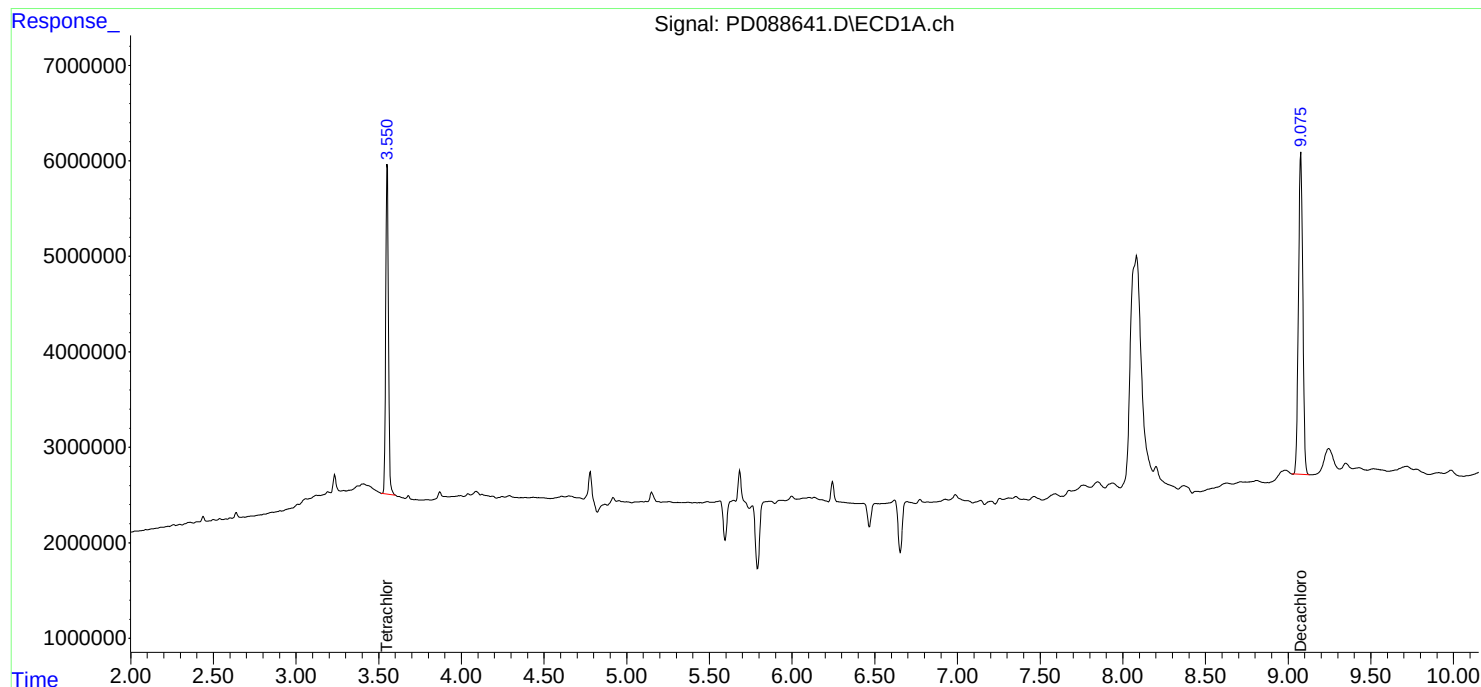
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

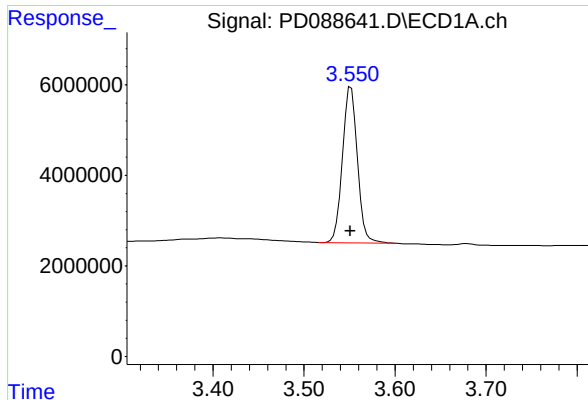
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088641.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 12:58
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:31:40 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

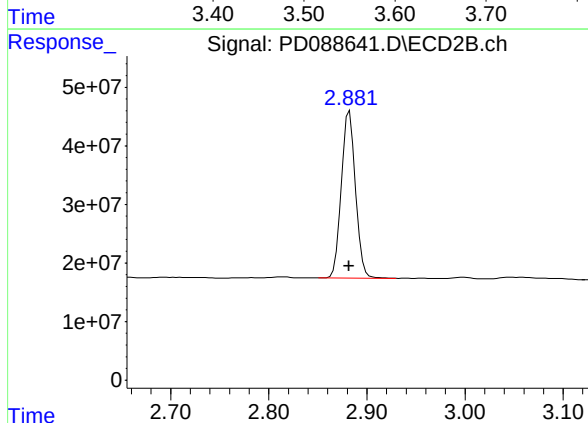




#1 Tetrachloro-m-xylene

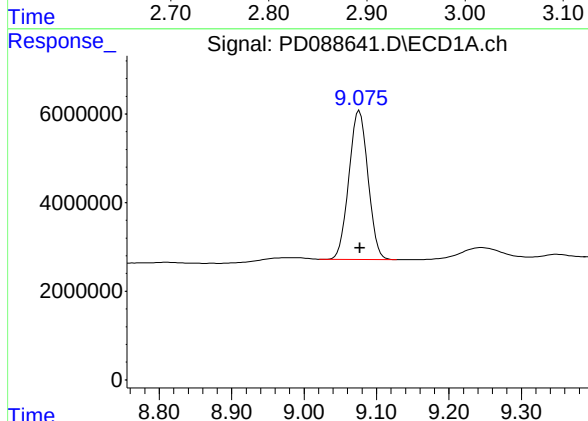
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 39323560
Conc: 18.17 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



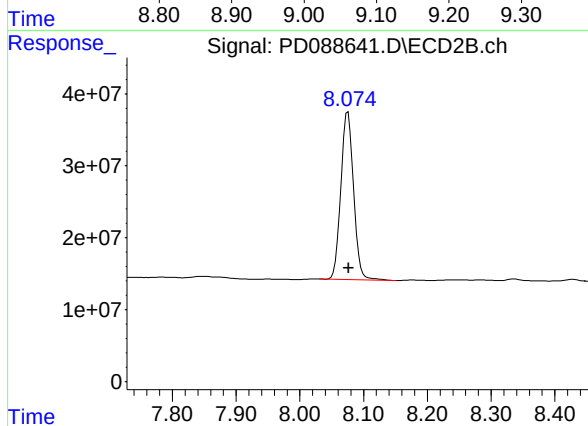
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 286395323
Conc: 18.93 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.001 min
Response: 61661993
Conc: 18.02 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.001 min
Response: 322938700
Conc: 17.69 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168066BS	SDG No.:	Q2032
Lab Sample ID:	PB168066BS	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
PD088633.D	1	05/19/25 09:20	05/20/25 11:01	PB168066

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.30		0.037	0.50	ug/L
76-44-8	Heptachlor	5.30		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.40		0.096	0.50	ug/L
72-20-8	Endrin	5.30		0.032	0.50	ug/L
72-43-5	Methoxychlor	4.60		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	23.8		43 - 140	119%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.7		77 - 126	113%	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\PD052025\
 Data File : PD088633.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 May 2025 11:01
 Operator : AR\AJ
 Sample : PB168066BS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PB168066BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 21 03:30:10 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...	3.553	2.881	45797347	343.3E6	21.166	22.693
28)	SA Decachlor...	9.079	8.076	81423465	428.9E6	23.792	23.493
Target Compounds							
2)	A alpha-BHC	4.003	3.394	254.6E6	1269.7E6	53.311	53.119
3)	MA gamma-BHC...	4.334	3.731	245.3E6	1182.0E6	53.287	53.324
4)	MA Heptachlor	4.934	4.084	235.8E6	1149.3E6	52.745	51.184
5)	MB Aldrin	5.275	4.370	239.8E6	1174.9E6	54.566	53.576
6)	B beta-BHC	4.519	4.026	94315767	516.2E6	52.306	52.988
7)	B delta-BHC	4.768	4.263	226.8E6	1125.6E6	53.662	50.488
8)	B Heptachlo...	5.695	4.874	215.1E6	1056.4E6	54.198	53.164
9)	A Endosulfan I	6.079	5.249	204.5E6	1008.0E6	54.344	53.113
10)	B gamma-Chl...	5.950	5.127	218.1E6	1140.4E6	54.666	53.459
11)	B alpha-Chl...	6.031	5.192	217.7E6	1096.6E6	54.333	53.168
12)	B 4,4'-DDE	6.200	5.377	197.3E6	1112.4E6	54.970	53.219
13)	MA Dieldrin	6.352	5.514	220.8E6	1126.7E6	55.035	53.540
14)	MA Endrin	6.579	5.791	182.5E6	996.2E6	53.425	51.661
15)	B Endosulfa...	6.791	6.082	185.1E6	971.9E6	53.750	53.046
16)	A 4,4'-DDD	6.709	5.931	164.8E6	990.4E6	59.157	56.947
17)	MA 4,4'-DDT	7.025	6.186	141.4E6	811.5E6	45.276	44.743
18)	B Endrin al...	6.919	6.261	132.3E6	704.8E6	51.401	50.599
19)	B Endosulfa...	7.154	6.484	169.9E6	919.9E6	53.036	51.806
20)	A Methoxychlor	7.498	6.757	76445892	443.0E6	45.761	46.268
21)	B Endrin ke...	7.635	6.994	186.6E6	1032.6E6	54.500	53.373
22)	Mirex	8.119	7.188	136.1E6	784.7E6	52.394	51.620

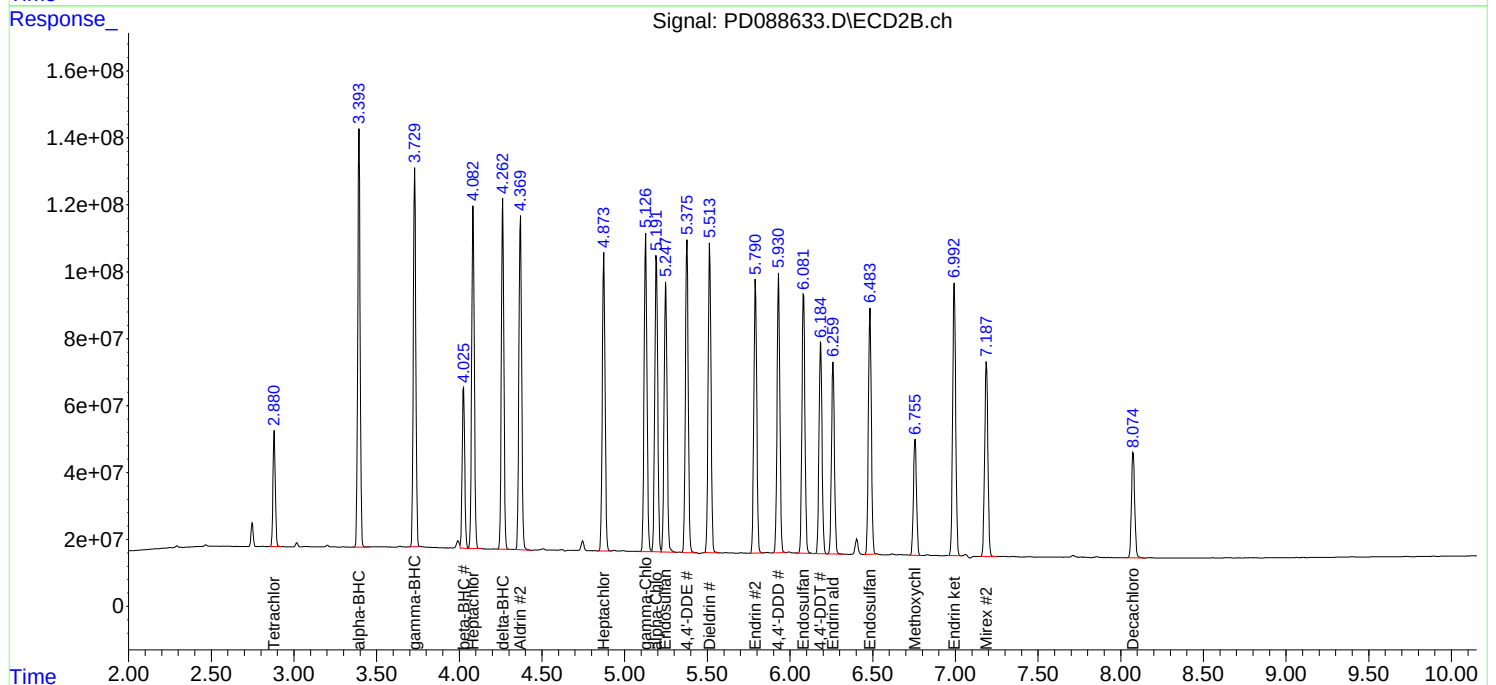
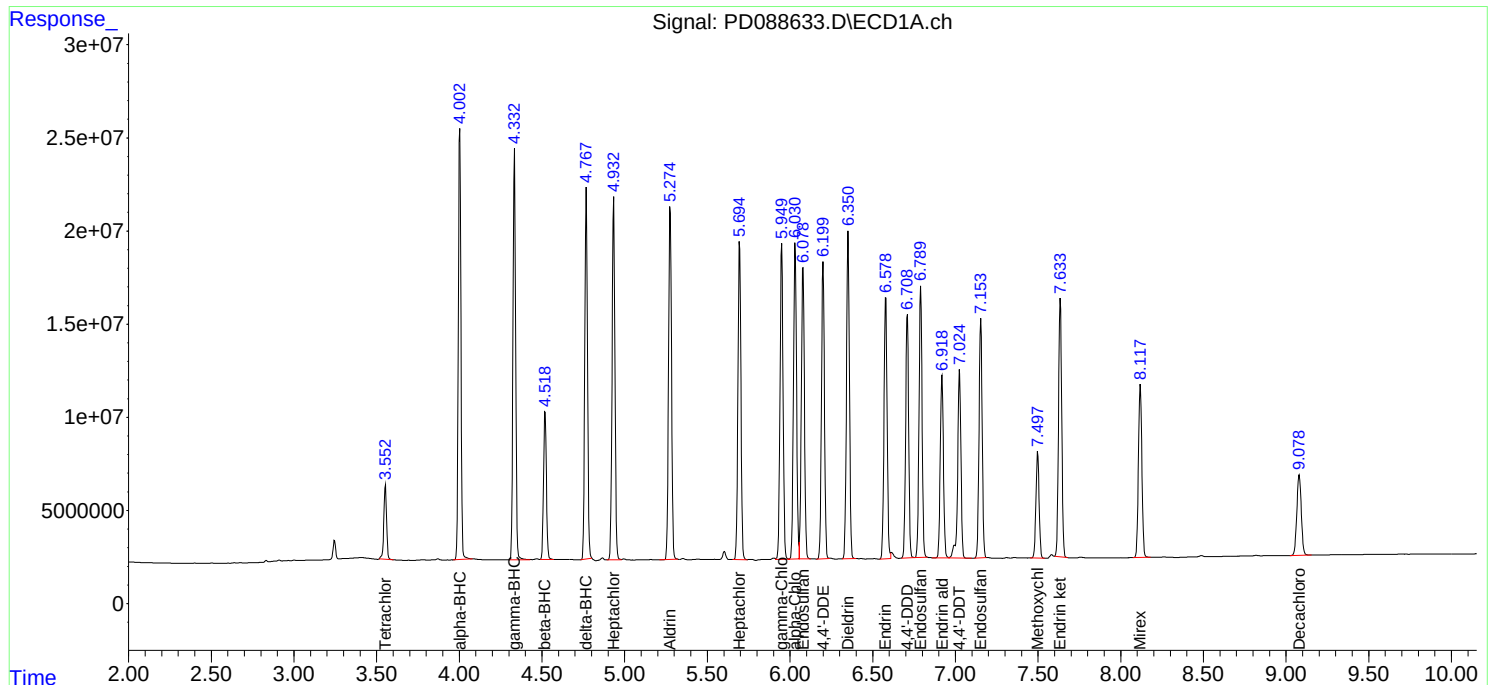
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD052025\
Data File : PD088633.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 May 2025 11:01
Operator : AR\AJ
Sample : PB168066BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB168066BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 21 03:30:10 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 x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Report of Analysis

Client:	CDM Smith	Date Collected:	05/12/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	B27-SOIL-SAMPLEMS	SDG No.:	Q2032
Lab Sample ID:	Q2027-03MS	Matrix:	TCLP
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	100	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TCLP Pesticide
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088621.D	1	05/19/25 09:20	05/19/25 21:35	PB168066

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.60		0.037	0.50	ug/L
76-44-8	Heptachlor	5.40		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.50		0.096	0.50	ug/L
72-20-8	Endrin	5.60		0.032	0.50	ug/L
72-43-5	Methoxychlor	4.90		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	13.0		43 - 140	65%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.1		77 - 126	90%	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\PD051925\
 Data File : PD088621.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 May 2025 21:35
 Operator : AR\AJ
 Sample : Q2027-03MS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

B27-SOIL-SAMPLEMS

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 20 04:45:41 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...	3.551	2.883	36025239	273.2E6	16.649	18.061
28)	SA Decachlor...	9.077	8.076	44525169	224.9E6	13.010	12.320
Target Compounds							
2)	A alpha-BHC	4.001	3.395	262.6E6	1239.1E6	54.983	51.839
3)	MA gamma-BHC...	4.332	3.732	258.4E6	1153.1E6	56.135	52.024
4)	MA Heptachlor	4.931	4.085	220.0E6	1218.8E6	49.208	54.278
5)	MB Aldrin	5.273	4.371	224.1E6	1055.0E6	50.998	48.109
6)	B beta-BHC	4.515	4.027	94604981	512.0E6	52.466m	52.561
7)	B delta-BHC	4.764	4.264	291.5E6	1195.4E6	68.975m	53.618
8)	B Heptachlo...	5.693	4.875	218.6E6	1031.6E6	55.071	51.916
9)	A Endosulfan I	6.077	5.250	208.9E6	985.0E6	55.515	51.900
10)	B gamma-Chl...	5.948	5.128	219.0E6	1104.7E6	54.908	51.788
11)	B alpha-Chl...	6.029	5.193	218.5E6	1064.5E6	54.548	51.610
12)	B 4,4'-DDE	6.198	5.378	195.6E6	1058.1E6	54.507	50.621
13)	MA Dieldrin	6.350	5.516	225.9E6	1100.0E6	56.312	52.270
14)	MA Endrin	6.577	5.792	192.0E6	1013.1E6	56.224	52.535
15)	B Endosulfa...	6.788	6.083	189.1E6	956.1E6	54.901	52.186
16)	A 4,4'-DDD	6.708	5.932	160.2E6	938.6E6	57.529	53.964
17)	MA 4,4'-DDT	7.023	6.187	155.8E6	857.1E6	49.897	47.257
18)	B Endrin al...	6.917	6.262	139.8E6	716.3E6	54.294	51.429
19)	B Endosulfa...	7.152	6.485	175.6E6	927.5E6	54.830	52.236
20)	A Methoxychlor	7.495	6.757	82293688	460.7E6	49.261	48.111
21)	B Endrin ke...	7.633	6.995	187.6E6	991.9E6	54.794	51.270
22)	Mirex	8.116	7.189	132.2E6	732.5E6	50.865	48.182

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 21:35
Operator : AR\AJ
Sample : Q2027-03MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

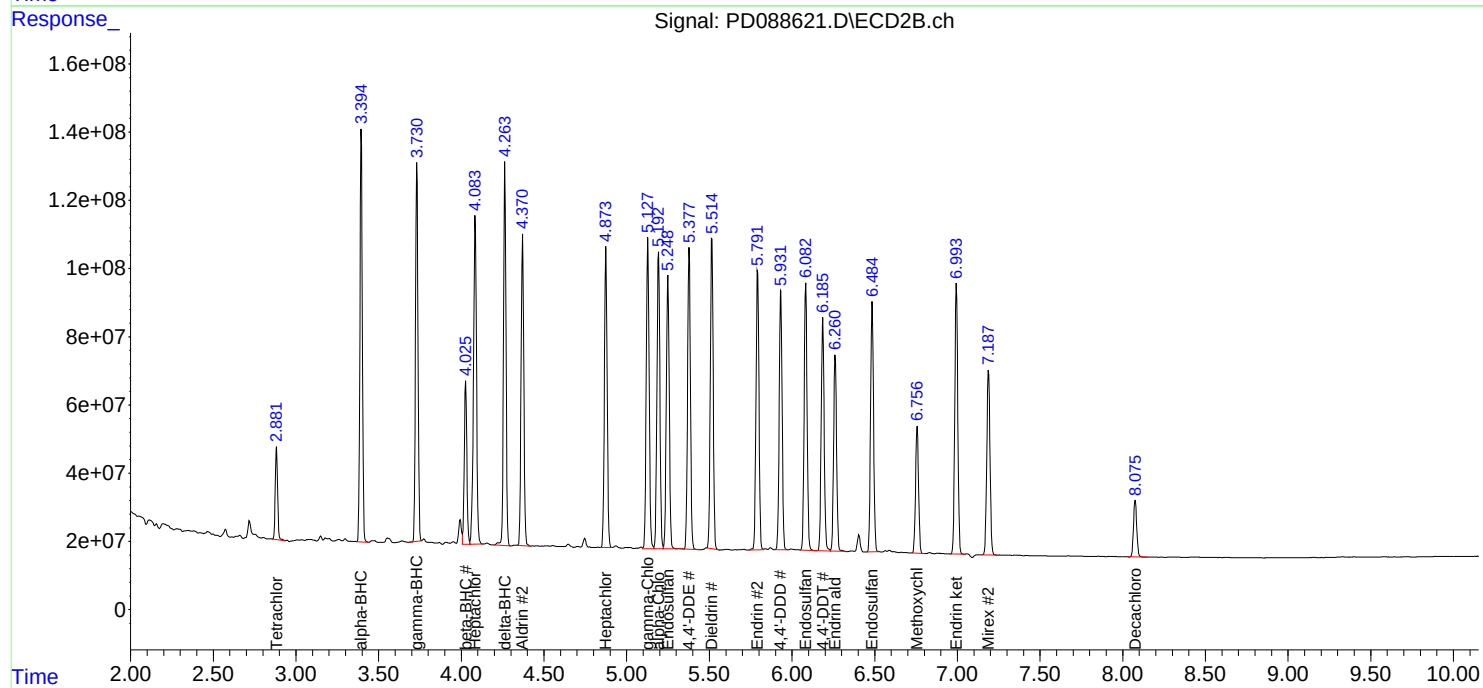
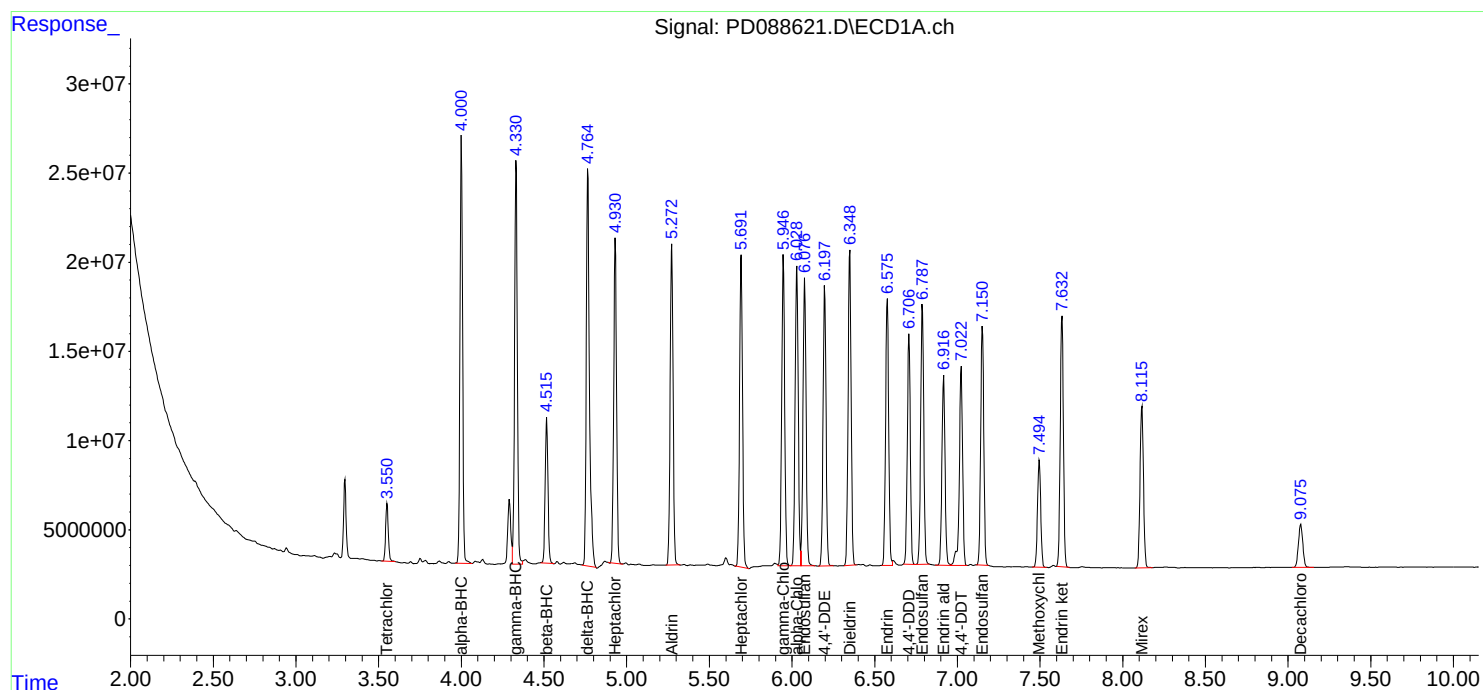
Instrument :
ECD_D
ClientSampleId :
B27-SOIL-SAMPLEMS

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 20 04:45:41 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



Report of Analysis

Client:	CDM Smith	Date Collected:	05/12/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	B27-SOIL-SAMPLEMSD	SDG No.:	Q2032
Lab Sample ID:	Q2027-03MSD	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
PD088622.D	1	05/19/25 09:20	05/19/25 21:49	PB168066

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	5.60		0.037	0.50	ug/L
76-44-8	Heptachlor	5.50		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.50		0.096	0.50	ug/L
72-20-8	Endrin	5.60		0.032	0.50	ug/L
72-43-5	Methoxychlor	4.90		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	13.0		43 - 140	65%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.6		77 - 126	93%	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\PD051925\
 Data File : PD088622.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 May 2025 21:49
 Operator : AR\AJ
 Sample : Q2027-03MSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 B27-SOIL-SAMPLEMSD

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 20 04:46:15 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...	3.551	2.882	36019627	281.0E6	16.647	18.579
28) SA Decachlor...	9.075	8.074	44561010	232.1E6	13.021	12.713
Target Compounds						
2) A alpha-BHC	4.000	3.395	262.8E6	1255.1E6	55.023	52.508
3) MA gamma-BHC...	4.331	3.731	258.8E6	1168.4E6	56.219	52.714
4) MA Heptachlor	4.930	4.084	220.1E6	1232.7E6	49.219	54.895
5) MB Aldrin	5.272	4.370	223.8E6	1066.6E6	50.925	48.638
6) B beta-BHC	4.516	4.026	97929820	520.1E6	54.310	53.388
7) B delta-BHC	4.763	4.263	291.8E6	1204.3E6	69.038m	54.017
8) B Heptachlo...	5.692	4.874	217.9E6	1044.2E6	54.885	52.549
9) A Endosulfan I	6.076	5.248	209.4E6	994.6E6	55.656	52.405
10) B gamma-Chl...	5.947	5.127	219.0E6	1116.0E6	54.904	52.316
11) B alpha-Chl...	6.028	5.192	219.3E6	1076.6E6	54.746	52.199
12) B 4,4'-DDE	6.197	5.376	195.8E6	1068.9E6	54.554	51.136
13) MA Dieldrin	6.348	5.514	226.0E6	1109.6E6	56.326	52.726
14) MA Endrin	6.576	5.790	192.2E6	1024.2E6	56.274	53.109
15) B Endosulfa...	6.787	6.082	189.2E6	970.2E6	54.932	52.951
16) A 4,4'-DDD	6.706	5.930	160.5E6	948.3E6	57.624	54.524
17) MA 4,4'-DDT	7.022	6.184	154.9E6	868.5E6	49.616	47.886
18) B Endrin al...	6.916	6.260	138.8E6	727.3E6	53.903	52.218
19) B Endosulfa...	7.151	6.484	176.0E6	939.7E6	54.943	52.924
20) A Methoxychlor	7.494	6.755	82400192	467.1E6	49.325	48.785
21) B Endrin ke...	7.631	6.993	188.1E6	1010.5E6	54.942	52.227
22) Mirex	8.115	7.187	132.4E6	746.2E6	50.943	49.082

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088622.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 21:49
Operator : AR\AJ
Sample : Q2027-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

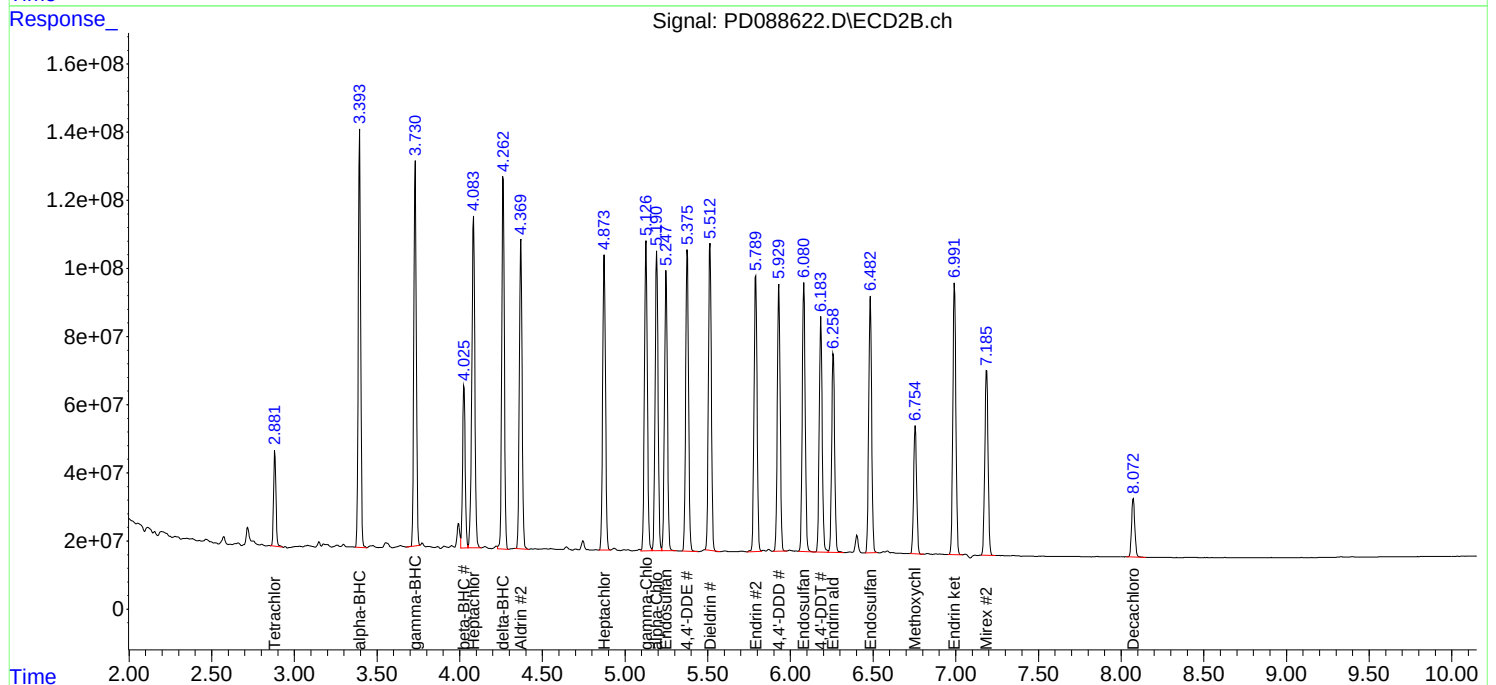
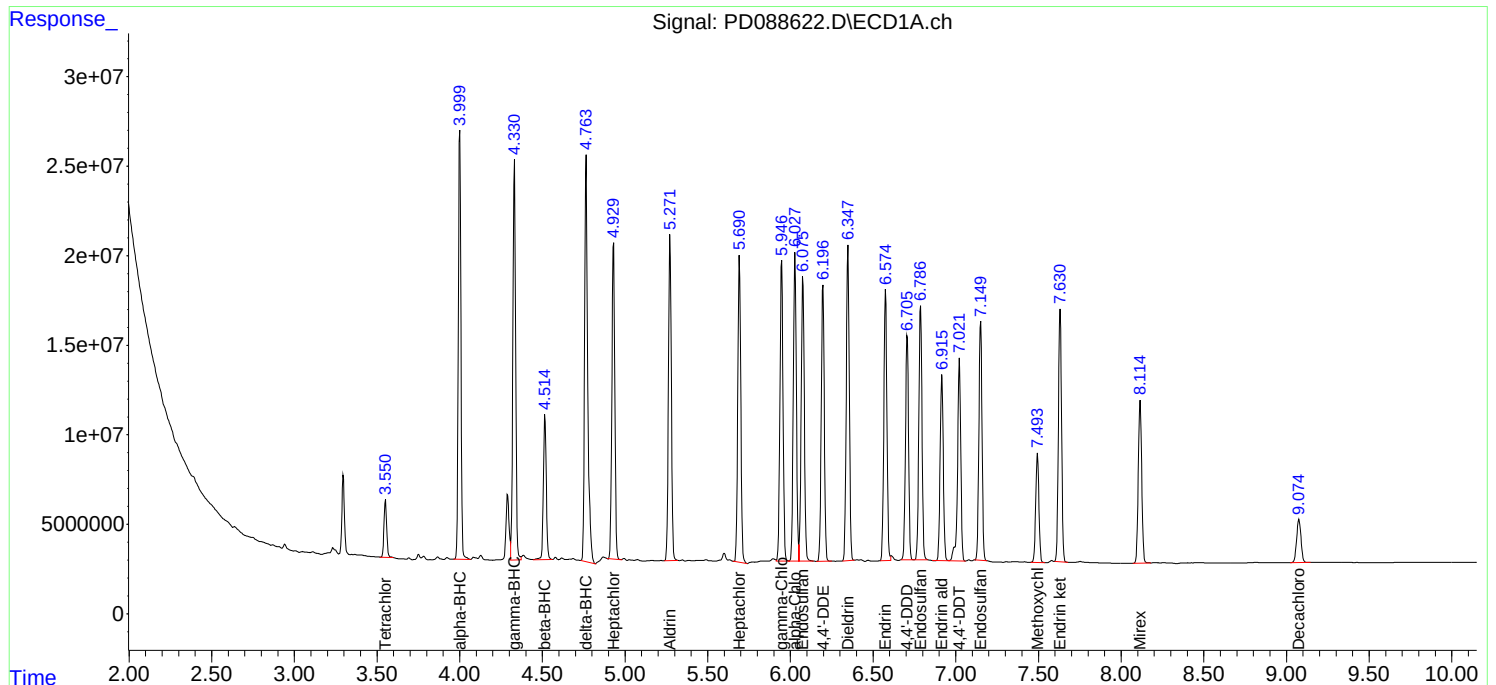
Instrument :
ECD_D
ClientSampleId :
B27-SOIL-SAMPLEMSD

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 20 04:46:15 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



Manual Integration Report

Sequence:	PD051925	Instrument	ECD_d
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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

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
Q2027-03MS	PD088621.D	beta-BHC	Abdul	5/20/2025 9:04:12 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q2027-03MS	PD088621.D	delta-BHC	Abdul	5/20/2025 9:04:12 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q2027-03MSD	PD088622.D	delta-BHC	Abdul	5/20/2025 9:04:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software

Manual Integration Report

Sequence:	PD052025	Instrument	ECD_d
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PD088630.D	4,4"-DDE #2	Abdul	5/21/2025 10:23:42 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PSTDCCC050	PD088630.D	delta-BHC	Abdul	5/21/2025 10:23:42 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PSTDCCC050	PD088642.D	4,4"-DDE #2	Abdul	5/21/2025 10:24:15 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PEM	PD088657.D	Endrin ketone	Abdul	5/21/2025 10:24:51 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PSTDCCC050	PD088658.D	4,4"-DDE #2	Abdul	5/21/2025 10:28:05 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PSTDCCC050	PD088658.D	4,4"-DDT	Abdul	5/21/2025 10:28:05 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PSTDCCC050	PD088674.D	4,4"-DDE #2	Abdul	5/21/2025 10:25:19 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software
PSTDCCC050	PD088674.D	4,4"-DDT	Abdul	5/21/2025 10:25:19 AM	mohammad	5/22/2025 6:40:41	Peak Integrated by Software

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch 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
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M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD052025

Review By	Abdul	Review On	5/21/2025 10:28:21 AM
Supervise By	mohammad	Supervise On	5/22/2025 6:40:41 AM
SubDirectory	PD052025	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	PD088627.D	20 May 2025 07:58	AR\AJ	Ok
2	I.BLK	PD088628.D	20 May 2025 08:11	AR\AJ	Ok
3	PEM	PD088629.D	20 May 2025 08:25	AR\AJ	Ok
4	PSTDCCC050	PD088630.D	20 May 2025 09:23	AR\AJ	Ok,M
5	PB168050BL	PD088631.D	20 May 2025 09:40	AR\AJ	Ok
6	PB168050BS	PD088632.D	20 May 2025 10:47	AR\AJ	Ok
7	PB168066BS	PD088633.D	20 May 2025 11:01	AR\AJ	Ok
8	Q2068-01	PD088634.D	20 May 2025 11:16	AR\AJ	Ok,M
9	Q2062-01	PD088635.D	20 May 2025 11:37	AR\AJ	Ok,M
10	Q2062-01MS	PD088636.D	20 May 2025 11:50	AR\AJ	Ok,M
11	Q2062-01MSD	PD088637.D	20 May 2025 12:04	AR\AJ	Ok,M
12	Q2062-05	PD088638.D	20 May 2025 12:17	AR\AJ	Ok,M
13	Q2062-09	PD088639.D	20 May 2025 12:31	AR\AJ	Ok,M
14	Q2062-13	PD088640.D	20 May 2025 12:44	AR\AJ	Ok,M
15	I.BLK	PD088641.D	20 May 2025 12:58	AR\AJ	Ok
16	PSTDCCC050	PD088642.D	20 May 2025 13:11	AR\AJ	Ok,M
17	Q2062-17	PD088643.D	20 May 2025 13:25	AR\AJ	Ok,M
18	Q2062-21	PD088644.D	20 May 2025 13:39	AR\AJ	Ok,M
19	Q2071-01	PD088645.D	20 May 2025 13:52	AR\AJ	Ok
20	Q2071-05	PD088646.D	20 May 2025 14:06	AR\AJ	Ok,M
21	Q2071-09	PD088647.D	20 May 2025 14:19	AR\AJ	Ok

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD052025

Review By	Abdul	Review On	5/21/2025 10:28:21 AM
Supervise By	mohammad	Supervise On	5/22/2025 6:40:41 AM
SubDirectory	PD052025	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	Q2071-13	PD088648.D	20 May 2025 14:33	AR\AJ	Ok
23	Q2071-17	PD088649.D	20 May 2025 14:47	AR\AJ	Ok,M
24	Q2065-01	PD088650.D	20 May 2025 15:00	AR\AJ	ReRun
25	Q2067-01	PD088651.D	20 May 2025 15:14	AR\AJ	ReRun
26	Q2068-03	PD088652.D	20 May 2025 15:28	AR\AJ	Ok,M
27	PB168082BL	PD088653.D	20 May 2025 15:41	AR\AJ	Ok
28	PB168082BS	PD088654.D	20 May 2025 15:55	AR\AJ	Ok
29	PB168082BSD	PD088655.D	20 May 2025 16:16	AR\AJ	Ok,M
30	I.BLK	PD088656.D	20 May 2025 16:30	AR\AJ	Ok
31	PEM	PD088657.D	20 May 2025 16:44	AR\AJ	Ok,M
32	PSTDCCC050	PD088658.D	20 May 2025 16:57	AR\AJ	Ok,M
33	PB168075BL	PD088659.D	20 May 2025 17:11	AR\AJ	Ok
34	PB168075BS	PD088660.D	20 May 2025 17:25	AR\AJ	Ok,M
35	Q2074-01	PD088661.D	20 May 2025 17:38	AR\AJ	Ok,M
36	Q2074-02	PD088662.D	20 May 2025 17:52	AR\AJ	Ok
37	Q2074-03	PD088663.D	20 May 2025 18:06	AR\AJ	Ok,M
38	Q2074-04	PD088664.D	20 May 2025 18:19	AR\AJ	Ok
39	Q2074-04MS	PD088665.D	20 May 2025 18:33	AR\AJ	Ok,M
40	Q2074-04MSD	PD088666.D	20 May 2025 18:47	AR\AJ	Ok,M
41	Q2074-05	PD088667.D	20 May 2025 19:00	AR\AJ	Ok
42	Q2074-06	PD088668.D	20 May 2025 19:14	AR\AJ	Ok
43	Q2074-07	PD088669.D	20 May 2025 19:28	AR\AJ	Ok,M
44	Q2074-08	PD088670.D	20 May 2025 19:41	AR\AJ	Ok

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD052025

Review By	Abdul	Review On	5/21/2025 10:28:21 AM
Supervise By	mohammad	Supervise On	5/22/2025 6:40:41 AM
SubDirectory	PD052025	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	Q2080-01	PD088671.D	20 May 2025 19:55	AR\AJ	Ok
46	Q2080-07	PD088672.D	20 May 2025 20:09	AR\AJ	Ok
47	I.BLK	PD088673.D	20 May 2025 20:22	AR\AJ	Ok
48	PSTDCCC050	PD088674.D	20 May 2025 20:36	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch 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,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	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

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch 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,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	PTOXICC100	PTOXICC100	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

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD051925

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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,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

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

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD052025

Review By	Abdul	Review On	5/21/2025 10:28:21 AM
Supervise By	mohammad	Supervise On	5/22/2025 6:40:41 AM
SubDirectory	PD052025	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,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088627.D	20 May 2025 07:58		AR\AJ	Ok
2	I.BLK	I.BLK	PD088628.D	20 May 2025 08:11		AR\AJ	Ok
3	PEM	PEM	PD088629.D	20 May 2025 08:25		AR\AJ	Ok
4	PSTDCCC050	PSTDCCC050	PD088630.D	20 May 2025 09:23		AR\AJ	Ok,M
5	PB168050BL	PB168050BL	PD088631.D	20 May 2025 09:40		AR\AJ	Ok
6	PB168050BS	PB168050BS	PD088632.D	20 May 2025 10:47		AR\AJ	Ok
7	PB168066BS	PB168066BS	PD088633.D	20 May 2025 11:01		AR\AJ	Ok
8	Q2068-01	LAW-25-0075	PD088634.D	20 May 2025 11:16		AR\AJ	Ok,M
9	Q2062-01	L1-WC-1	PD088635.D	20 May 2025 11:37		AR\AJ	Ok,M
10	Q2062-01MS	L1-WC-1MS	PD088636.D	20 May 2025 11:50		AR\AJ	Ok,M
11	Q2062-01MSD	L1-WC-1MSD	PD088637.D	20 May 2025 12:04		AR\AJ	Ok,M
12	Q2062-05	L1-WC-2	PD088638.D	20 May 2025 12:17		AR\AJ	Ok,M
13	Q2062-09	L1-WC-3	PD088639.D	20 May 2025 12:31		AR\AJ	Ok,M
14	Q2062-13	L1-WC-4	PD088640.D	20 May 2025 12:44		AR\AJ	Ok,M
15	I.BLK	I.BLK	PD088641.D	20 May 2025 12:58		AR\AJ	Ok
16	PSTDCCC050	PSTDCCC050	PD088642.D	20 May 2025 13:11		AR\AJ	Ok,M
17	Q2062-17	L1-WC-5	PD088643.D	20 May 2025 13:25		AR\AJ	Ok,M
18	Q2062-21	L1-WC-6	PD088644.D	20 May 2025 13:39		AR\AJ	Ok,M

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD052025

Review By	Abdul	Review On	5/21/2025 10:28:21 AM
Supervise By	mohammad	Supervise On	5/22/2025 6:40:41 AM
SubDirectory	PD052025	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,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2071-01	L1-WC-7	PD088645.D	20 May 2025 13:52		AR\AJ	Ok
20	Q2071-05	L1-WC-8	PD088646.D	20 May 2025 14:06		AR\AJ	Ok,M
21	Q2071-09	L1-WC-9	PD088647.D	20 May 2025 14:19		AR\AJ	Ok
22	Q2071-13	L2-WC-5	PD088648.D	20 May 2025 14:33		AR\AJ	Ok
23	Q2071-17	L2-WC-6	PD088649.D	20 May 2025 14:47		AR\AJ	Ok,M
24	Q2065-01	VACTRUCK-728068	PD088650.D	20 May 2025 15:00	TCMX low in both column	AR\AJ	ReRun
25	Q2067-01	303-PPR-FRAC	PD088651.D	20 May 2025 15:14	TCMX low in both column	AR\AJ	ReRun
26	Q2068-03	LAW-25-0074	PD088652.D	20 May 2025 15:28	DCB low in 2nd column & TCMX high in 2nd column	AR\AJ	Ok,M
27	PB168082BL	PB168082BL	PD088653.D	20 May 2025 15:41		AR\AJ	Ok
28	PB168082BS	PB168082BS	PD088654.D	20 May 2025 15:55		AR\AJ	Ok
29	PB168082BSD	PB168082BSD	PD088655.D	20 May 2025 16:16		AR\AJ	Ok,M
30	I.BLK	I.BLK	PD088656.D	20 May 2025 16:30		AR\AJ	Ok
31	PEM	PEM	PD088657.D	20 May 2025 16:44		AR\AJ	Ok,M
32	PSTDCCC050	PSTDCCC050	PD088658.D	20 May 2025 16:57		AR\AJ	Ok,M
33	PB168075BL	PB168075BL	PD088659.D	20 May 2025 17:11		AR\AJ	Ok
34	PB168075BS	PB168075BS	PD088660.D	20 May 2025 17:25		AR\AJ	Ok,M
35	Q2074-01	TP-12	PD088661.D	20 May 2025 17:38		AR\AJ	Ok,M
36	Q2074-02	TP-7	PD088662.D	20 May 2025 17:52		AR\AJ	Ok
37	Q2074-03	TP-15	PD088663.D	20 May 2025 18:06		AR\AJ	Ok,M

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD052025

Review By	Abdul	Review On	5/21/2025 10:28:21 AM
Supervise By	mohammad	Supervise On	5/22/2025 6:40:41 AM
SubDirectory	PD052025	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,P P24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284		
CCC	PP24261,PP24273,PP24279,PP24284		
Internal Standard/PEM			
ICV/I.BLK	PP24273,PP24279,PP24284		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

38	Q2074-04	TP-20	PD088664.D	20 May 2025 18:19		AR\AJ	Ok
39	Q2074-04MS	TP-20MS	PD088665.D	20 May 2025 18:33		AR\AJ	Ok,M
40	Q2074-04MSD	TP-20MSD	PD088666.D	20 May 2025 18:47		AR\AJ	Ok,M
41	Q2074-05	TP-38	PD088667.D	20 May 2025 19:00		AR\AJ	Ok
42	Q2074-06	TP-19	PD088668.D	20 May 2025 19:14		AR\AJ	Ok
43	Q2074-07	TP-40	PD088669.D	20 May 2025 19:28		AR\AJ	Ok,M
44	Q2074-08	TP-18	PD088670.D	20 May 2025 19:41		AR\AJ	Ok
45	Q2080-01	PL-HRH-COMP-01	PD088671.D	20 May 2025 19:55		AR\AJ	Ok
46	Q2080-07	PL-HRH-COMP-02	PD088672.D	20 May 2025 20:09		AR\AJ	Ok
47	I.BLK	I.BLK	PD088673.D	20 May 2025 20:22		AR\AJ	Ok
48	PSTDCCC050	PSTDCCC050	PD088674.D	20 May 2025 20:36		AR\AJ	Ok,M

M : Manual Integration

SOP ID :	M1311-TCLP-15	
SDG No :	N/A	Start Prep Date : 05/14/2025 Time : 16:10
Weigh By :	JP	End Prep Date : 05/15/2025 Time : 09:15
Balance ID :	WC SC-7	Combination Ratio : 20
pH Meter ID :	WC PH METER-1	ZHE Cleaning Batch : N/A 10
Extraction By :	JP	Initial Room Temperature: 23 °C
Filter By :	JP	Final Room Temperature: 21 °C
Pippete ID :	WC	TCLP Technician Signature : 10
Tumbler ID :	T-1 / T-2	Supervisor By : 12
TCLP Filter ID :	115525	

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

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

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. Q2048-16 IS USED FOR MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/15/25 11:45	JP 100 Room	5129 RJ 1641
	Preparation Group	Analysis Group

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
PB167994TB	LEB994	18	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-2
Q2019-04	MH-K	01	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q2020-04	TP-A	02	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2023-02	HEATER-PAD	03	100.03	2000	N/A	N/A	N/A	12.0	1.0	T-1
Q2027-03	B27-SOIL-SAMPLE	04	100.04	2000	N/A	N/A	N/A	9.1	1.0	T-1
Q2027-04	B28-SOIL-SAMPLE	05	100.02	2000	N/A	N/A	N/A	10.0	1.5	T-1
Q2032-09	COMP-1	06	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2034-04	L3-WC-1	07	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2034-08	L3-WC-2	08	100.01	2000	N/A	N/A	N/A	5.0	1.0	T-1
Q2034-12	L3-WC-3	09	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q2034-16	L3-WC-4	10	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2034-20	L3-WC-5	11	100.04	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2034-24	L3-WC-6	12	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q2038-02	72-11991	13	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q2048-04	L2-WC-1	14	100.01	2000	N/A	N/A	N/A	4.0	1.0	T-2
Q2048-08	L2-WC-2	15	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q2048-12	L2-WC-3	16	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q2048-16	L2-WC-4	17	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167994TB	LEB994	N/A	N/A	N/A	N/A	N/A	N/A
Q2019-04	MH-K	N/A	N/A	N/A	N/A	100	N/A
Q2020-04	TP-A	N/A	N/A	N/A	N/A	100	N/A
Q2023-02	HEATER-PAD	N/A	N/A	N/A	N/A	100	N/A
Q2027-03	B27-SOIL-SAMPLE	N/A	N/A	N/A	N/A	100	N/A
Q2027-04	B28-SOIL-SAMPLE	N/A	N/A	N/A	N/A	100	N/A
Q2032-09	COMP-1	N/A	N/A	N/A	N/A	100	N/A
Q2034-04	L3-WC-1	N/A	N/A	N/A	N/A	100	N/A
Q2034-08	L3-WC-2	N/A	N/A	N/A	N/A	100	N/A
Q2034-12	L3-WC-3	N/A	N/A	N/A	N/A	100	N/A
Q2034-16	L3-WC-4	N/A	N/A	N/A	N/A	100	N/A
Q2034-20	L3-WC-5	N/A	N/A	N/A	N/A	100	N/A
Q2034-24	L3-WC-6	N/A	N/A	N/A	N/A	100	N/A
Q2038-02	72-11991	N/A	N/A	N/A	N/A	100	N/A
Q2048-04	L2-WC-1	N/A	N/A	N/A	N/A	100	N/A
Q2048-08	L2-WC-2	N/A	N/A	N/A	N/A	100	N/A
Q2048-12	L2-WC-3	N/A	N/A	N/A	N/A	100	N/A
Q2048-16	L2-WC-4	N/A	N/A	N/A	N/A	100	N/A

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

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167994TB	LEB994	N/A	N/A	N/A	N/A	#1	4.94
Q2019-04	MH-K	5.02	96.5	8.2	3.0	#1	4.94
Q2020-04	TP-A	5.03	96.5	8.4	3.5	#1	4.94
Q2023-02	HEATER-PAD	5.02	96.5	12.5	4.5	#1	4.94
Q2027-03	B27-SOIL-SAMPLE	5.03	96.5	11.0	4.5	#1	4.94
Q2027-04	B28-SOIL-SAMPLE	5.04	96.5	11.5	4.0	#1	4.94
Q2032-09	COMP-1	5.02	96.5	5.5	1.5	#1	4.94
Q2034-04	L3-WC-1	5.03	96.5	5.5	1.5	#1	4.94
Q2034-08	L3-WC-2	5.02	96.5	5.6	2.0	#1	4.94
Q2034-12	L3-WC-3	5.01	96.5	7.0	2.5	#1	4.94
Q2034-16	L3-WC-4	5.02	96.5	7.6	2.0	#1	4.94
Q2034-20	L3-WC-5	5.03	96.5	5.6	1.5	#1	4.94
Q2034-24	L3-WC-6	5.04	96.5	5.5	1.5	#1	4.94
Q2038-02	72-11991	5.03	96.5	7.2	2.5	#1	4.94
Q2048-04	L2-WC-1	5.02	96.5	6.4	2.0	#1	4.94
Q2048-08	L2-WC-2	5.01	96.5	6.0	2.5	#1	4.94
Q2048-12	L2-WC-3	5.02	96.5	6.2	2.0	#1	4.94
Q2048-16	L2-WC-4	5.03	96.5	6.2	2.5	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP Q2034

WorkList ID : 189510

Department : TCLP Extraction

Date : 05-14-2025 10:41:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2019-04	MH-K	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/13/2025	1311
Q2020-04	TP-A	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/12/2025	1311
Q2023-02	HEATER-PAD	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/13/2025	1311
Q2027-03	B27-SOIL-SAMPLE	Solid	TCLP Extraction	Cool 4 deg C	SCAL01	L41	05/12/2025	1311
Q2027-04	B28-SOIL-SAMPLE	Solid	TCLP Extraction	Cool 4 deg C	SCAL01	L41	05/12/2025	1311
Q2032-09	COMP-1	Solid	TCLP Extraction	Cool 4 deg C	CAMP02	L41	05/13/2025	1311
Q2034-04	L3-WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/13/2025	1311
Q2034-08	L3-WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/13/2025	1311
Q2034-12	L3-WC-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/13/2025	1311
Q2034-16	L3-WC-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/13/2025	1311
Q2034-20	L3-WC-5	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/13/2025	1311
Q2034-24	L3-WC-6	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/13/2025	1311
Q2038-02	72-11991	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	05/14/2025	1311
Q2048-04	L2-WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/14/2025	1311
Q2048-08	L2-WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/14/2025	1311
Q2048-12	L2-WC-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/14/2025	1311
Q2048-16	L2-WC-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/14/2025	1311

Date/Time 05-14-25 14:35
 Raw Sample Received by: SP WPC
 Raw Sample Relinquished by: CP SM

05-14-25 18:00
 Date/Time 05-14-25
 Raw Sample Received by: CP SM
 Raw Sample Relinquished by: SP WPC

SOP ID: M3510C,3580A-Extraction Pesticide-16

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 05/19/2025

Extraction Start Time : 09:20

Extraction End Date : 05/19/2025

Extraction End Time : 14:00

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP24285
Surrogate	1.0ML	200 PPB	PP24460
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	E3930
Baked Na2SO4	N/A	EP2611
Hexane	N/A	E3934
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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

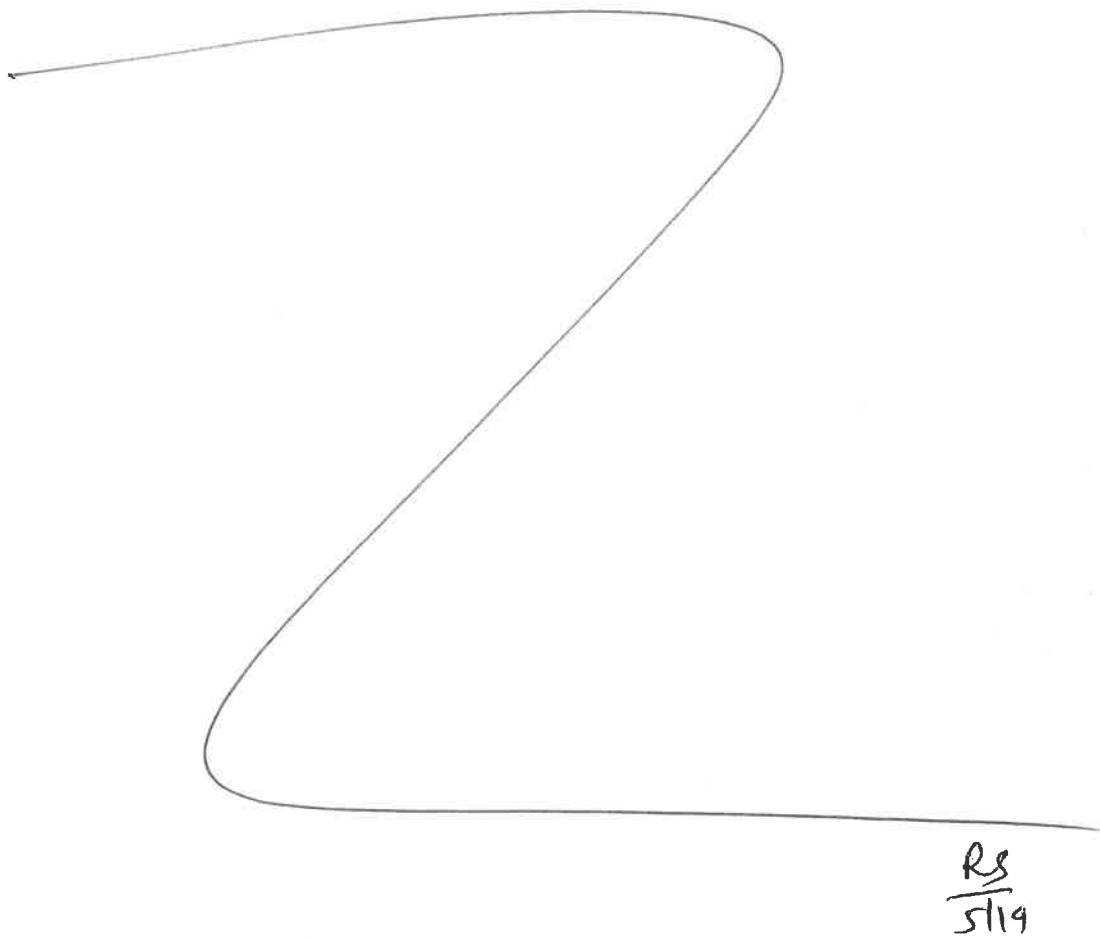
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/19/25	RS (Ext Lab)	R. Pest / PCB Lab
14:05	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction Pesticide-16

Concentration Date: 05/19/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167994TB	PB167994TB	TCLP Pesticide	100	6	RUPESH	ritesh	10			SEP-9
PB168066BL	PBLK066	TCLP Pesticide	1000	6	RUPESH	ritesh	10			10
PB168066BS	PLCS066	TCLP Pesticide	100	6	RUPESH	ritesh	10			11
Q2027-03	B27-SOIL-SAMPLE	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		12
Q2027-03MS	B27-SOIL-SAMPLEMS	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		13
Q2027-03MS D	B27-SOIL-SAMPLEMSD	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		14
Q2027-04	B28-SOIL-SAMPLE	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		15
Q2032-09	COMP-1	TCLP Pesticide	100	6	RUPESH	ritesh	10	A		16



RS
5/19

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
PB167994TB	LEB994	18	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-2
Q2019-04	MH-K	01	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q2020-04	TP-A	02	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2023-02	HEATER-PAD	03	100.03	2000	N/A	N/A	N/A	12.0	1.0	T-1
Q2027-03	B27-SOIL-SAMPLE	04	100.04	2000	N/A	N/A	N/A	9.1	1.0	T-1
Q2027-04	B28-SOIL-SAMPLE	05	100.02	2000	N/A	N/A	N/A	10.0	1.5	T-1
Q2032-09	COMP-1	06	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2034-04	L3-WC-1	07	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2034-08	L3-WC-2	08	100.01	2000	N/A	N/A	N/A	5.0	1.0	T-1
Q2034-12	L3-WC-3	09	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q2034-16	L3-WC-4	10	100.03	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2034-20	L3-WC-5	11	100.04	2000	N/A	N/A	N/A	3.0	1.5	T-2
Q2034-24	L3-WC-6	12	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q2038-02	72-11991	13	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q2048-04	L2-WC-1	14	100.01	2000	N/A	N/A	N/A	4.0	1.0	T-2
Q2048-08	L2-WC-2	15	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q2048-12	L2-WC-3	16	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q2048-16	L2-WC-4	17	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-2

05/15/25
11:45



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 732-590-4679 FAX: 732-225-7851

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 732-590-4679 FAX: 732-225-7851

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 732-590-4679

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

1. 2. 3. 4. 5. 6. 7. 8. 9.
TCL VOC
TCL SVOC
METALS
PCB
PESTICIDES
HERBICIDES
DRO/GRO
FULL TCLP
RCRA CHARAL

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	TP-11	SOIL		X	5/13/25	0830	6	X	X	X	X	X	X	X			E
2.	TP-29	SOIL		X	5/13/25	1010	6	X	X	X	X	X	X	X			E
3.	TP-29-99	SOIL		X	5/13/25	1010	6	X	X	X	X	X	X	X			E
4.	TP-24	SOIL		X	5/13/25	1130	18	X	X	X	X	X	X	X			E; MS/MSD
5.	TP-37	SOIL		X	5/13/25	1250	6	X	X	X	X	X	X	X			E
6.	TP-32	SOIL		X	5/13/25	1330	6	X	X	X	X	X	X	X			E
7.	COMP-1	SOIL	X		5/13/25	1405	4								X	X	E
8.	FB-05132025	ADUERS		X	5/13/25	1445	10	X	X	X	X	X	X	X			E, A, B
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. [Signature]	DATE/TIME: 5/13/25 1505	RECEIVED BY: [Signature] 1505	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP. 3.2 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY:	Comments:
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 5-13-25	RECEIVED BY:	

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

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2032	CAMP02	Order Date : 5/13/2025 4:01:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 1
Client Contact : Marcie Ann Encinas		Receive DateTime : 5/13/2025 4:20:00 PM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order :	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2032-01	TP-11	Solid	05/13/2025	08:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-02	TP-29	Solid	05/13/2025	10:10	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-03	TP-29-99	Solid	05/13/2025	10:10	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-04	TP-24	Solid	05/13/2025	11:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-05	Q2032-04MS	Solid	05/13/2025	11:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-06	Q2032-04MSD	Solid	05/13/2025	11:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-07	TP-37	Solid	05/13/2025	12:50	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-08	TP-32	Solid	05/13/2025	13:30					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2032	CAMP02	Order Date : 5/13/2025 4:01:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 1
Client Contact : Marcie Ann Encinas		Receive Date/Time : 5/13/2025 4:20:00 PM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order :	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2032-11	FB-05132025	Water	05/13/2025	14:45	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2032-12	TB	Water	05/13/2025	00:00	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time : 5/14/25 0940

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room

9:50 Rg # 4
Rg # 6
B22