

DATA PACKAGE
GC SEMI-VOLATILES

PROJECT NAME : NJ WASTE WATER PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q3015

ATTENTION : Mohammad Ahmed



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3015

Project ID : NJ Waste Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q3015-01
Q3015-02
Q3015-03
Q3015-04
Q3015-05
Q3015-06
Q3015-07
Q3015-08
Q3015-09
Q3015-10
Q3015-11
Q3015-12
Q3015-13
Q3015-14
Q3015-15
Q3015-16
Q3015-17
Q3015-18
Q3015-19
Q3015-20
Q3015-21
Q3015-22

Client Sample Number

WP0925-PT-VOA-WP
WP0925-PT-VOA-WP
WP0925-PT-BN-WP
WP0925-PT-BN-WP
WP0925-PT-BN-WP
WP0925-PT-ACIDS-WP
WP0925-PT-ACIDS-WP
WP0925-PT-ACIDS-WP
WP0925-PT-PEST-WP
WP0925-PT-PEST-WP
WP0925-PT-CHLR-WP
WP0925-PT-CHLR-WP
WP0925-PT-TXP-WP
WP0925-PT-TXP-WP
WP0925-PT-PCBW-WP
WP0925-PT-PCBW-WP
WP0925-PT-HERB-WP
WP0925-RR-GAS-WP
WP0925-RR-DIES-WP
WP0925-RR-8011-WP
WP0925-RR-PAH-WP
WP0925-RR-TRIAZINE-WP

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: 10/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ Waste Water PT

Project # N/A

Order ID # Q3015

Test Name: PESTICIDE Group2

A. Number of Samples and Date of Receipt:

2 Water samples were received on 09/04/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: PESTICIDE Group2. This data package contains results for PESTICIDE Group2.

C. Analytical Techniques:

The analysis was performed on instrument ECD_D. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df.; Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11. The analysis of PESTICIDE Group2s was based on method 608.3,8081B and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Retention Times were met for all analysis.

The Blank Spike met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

E. Additional Comments:

F. Manual Integration Comments:

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

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed



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Phone: 908 789 8900 Fax: 908 789 8922

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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



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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3015

MATRIX: Water

METHOD: 608.3,8081B/3510

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified.			✓
2. Standard Summary Submitted.			✓
3. Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			✓
4. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5. Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all compounds.			✓
7. Retention Time Shift Meet Criteria (if applicable) Comments:			✓
8. Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓
9. Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓



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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3015

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/10/2025

LAB CHRONICLE

OrderID:	Q3015	OrderDate:	9/4/2025 10:14:00 AM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ Waste Water PT
Contact:	Mohammad Ahmed	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3015-09	WP0925-PT-PEST-WP	WATER	PESTICIDE Group1	8081B	09/02/25	09/08/25	09/08/25	09/04/25
Q3015-09DL	WP0925-PT-PEST-WP DL	WATER	PESTICIDE Group1	8081B	09/02/25	09/08/25	09/08/25	09/04/25
Q3015-09DL 2	WP0925-PT-PEST-WP DL2	WATER	PESTICIDE Group1	8081B	09/02/25	09/08/25	09/08/25	09/04/25
Q3015-11	WP0925-PT-CHLR-WP	WATER	PESTICIDE Group2	8081B	09/02/25	09/10/25	09/10/25	09/04/25
Q3015-15	WP0925-PT-PCBW-W P	WATER	PCB	8082A	09/02/25	09/08/25	09/09/25	09/04/25
Q3015-17	WP0925-PT-HERB-WP	WATER	Herbicide group1	8151A	09/02/25	09/05/25	09/09/25	09/04/25
Q3015-18	WP0925-RR-GAS-WP	Water	Gasoline Range Organics	8015D	09/02/25		09/17/25	09/04/25
Q3015-19	WP0925-RR-DIES-WP	Water	Diesel Range Organics	8015D	09/02/25	09/17/25	09/18/25	09/04/25

Hit Summary Sheet
SW-846

SDG No.: Q3015

Order ID: Q3015

Client: Alliance Technical Group, LLC - Newark

Project ID: NJ Waste Water PT

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	WP0925-PT-CHLR-WP						
Q3015-11	WP0925-PT-CHLR-W WATER	Chlordane	7.60		0.088	0.50	ug/L
Total Concentration:			7.600				



QC SUMMARY

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Surrogate Summary

SDG No.: Q3015

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%)	
								Low	High
I.BLK-PD089983.D	PIBLK-PD089983.D	Decachlorobiphen	1	20	20.6	103		57	171
		Tetrachloro-m-xyl	1	20	18.7	94		61	148
		Decachlorobiphen	2	20	21.4	107		57	171
		Tetrachloro-m-xyl	2	20	20.2	101		61	148
I.BLK-PD090219.D	PIBLK-PD090219.D	Decachlorobiphen	1	20	19.3	97		57	171
		Tetrachloro-m-xyl	1	20	17.9	89		61	148
		Decachlorobiphen	2	20	20.1	101		57	171
		Tetrachloro-m-xyl	2	20	20.3	101		61	148
Q3015-11	WP0925-PT-CHLR-WP	Decachlorobiphen	1	20	22.8	114		57	171
		Tetrachloro-m-xyl	1	20	19.7	99		61	148
		Decachlorobiphen	2	20	24.1	120		57	171
		Tetrachloro-m-xyl	2	20	27.4	137		61	148
PB169636BL	PB169636BL	Decachlorobiphen	1	20	20.0	100		57	171
		Tetrachloro-m-xyl	1	20	19.1	96		61	148
		Decachlorobiphen	2	20	21.2	106		57	171
		Tetrachloro-m-xyl	2	20	20.7	103		61	148
PB169636BS	PB169636BS	Decachlorobiphen	1	20	18.4	92		57	171
		Tetrachloro-m-xyl	1	20	15.1	75		61	148
		Decachlorobiphen	2	20	19.8	99		57	171
		Tetrachloro-m-xyl	2	20	21.7	109		61	148
I.BLK-PD090232.D	PIBLK-PD090232.D	Decachlorobiphen	1	20	19.9	99		57	171
		Tetrachloro-m-xyl	1	20	17.1	86		61	148
		Decachlorobiphen	2	20	21.2	106		57	171
		Tetrachloro-m-xyl	2	20	20.4	102		61	148



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3015 **Analytical Method:** 8081B
Client: Alliance Technical Group, LLC - Newark **Datafile :** PD090231.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB169636BS (Column 1)	Chlordane	2	1.70	ug/L	85				80	120	
PB169636BS (Column 2)	Chlordane	2	2.00	ug/L	100				80	120	

4C

PESTICIDE METHOD BLANK SUMMARY

Client ID

PB169636BL

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab Sample ID: PB169636BL

Lab File ID: PD090227.D

Matrix: (soil/water) WATER

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 09/10/2025

Date Analyzed (1): 09/10/2025

Date Analyzed (2): 09/10/2025

Time Analyzed (1): 17:02

Time Analyzed (2): 17:02

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
WP0925-PT-CHLR-WP	Q3015-11	PD090224.D	09/10/2025	09/10/2025
PB169636BS	PB169636BS	PD090231.D	09/10/2025	09/10/2025

COMMENTS: _____



SAMPLE DATA

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	09/02/25	
Project:	NJ Waste Water PT		Date Received:	09/04/25	
Client Sample ID:	WP0925-PT-CHLR-WP		SDG No.:	Q3015	
Lab Sample ID:	Q3015-11		Matrix:	WATER	
Analytical Method:	8081B		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group2	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD090224.D	1	09/10/25 08:46	09/10/25 16:15	PB169636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	7.60		0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.1		57 - 171	120%	SPK: 20
877-09-8	Tetrachloro-m-xylene	27.4		61 - 148	137%	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\PD091025\
 Data File : PD090224.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Sep 2025 16:15
 Operator : AR\AJ
 Sample : Q3015-11
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 WP0925-PT-CHLR-WP

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2025
 Supervised By :mohammad ahmed 09/16/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 11 08:20:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
 Quant Title : GC Extractables
 QLast Update : Tue Aug 19 13:16:54 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	2.874	57944371	603.8E6	19.744m	27.382m#
28)	SA Decachlor...	9.074	8.066	98289527	623.1E6	22.774	24.069
Target Compounds							
23)	Chlordane-1	4.716	3.900	109.5E6	700.5E6	637.801m	788.059
24)	Chlordane-2	5.245	4.482	119.9E6	706.3E6	681.054	737.263
25)	Chlordane-3	5.949	5.120	411.5E6	2095.1E6	606.766	756.091
26)	Chlordane-4	6.032	5.185	508.8E6	1892.4E6	612.852	786.222 #
27)	Chlordane-5	6.873	6.084	102.1E6	785.5E6	728.178	714.071

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD091025\
Data File : PD090224.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2025 16:15
Operator : AR\AJ
Sample : Q3015-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

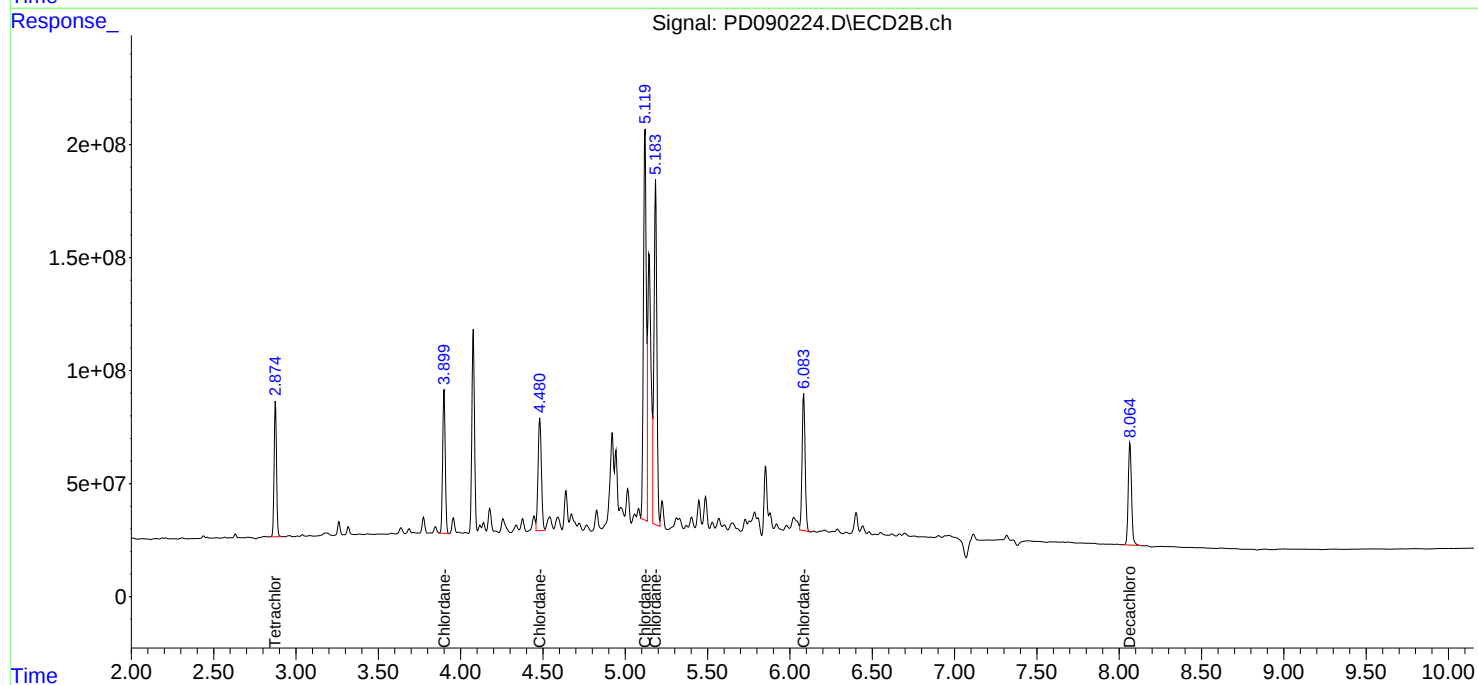
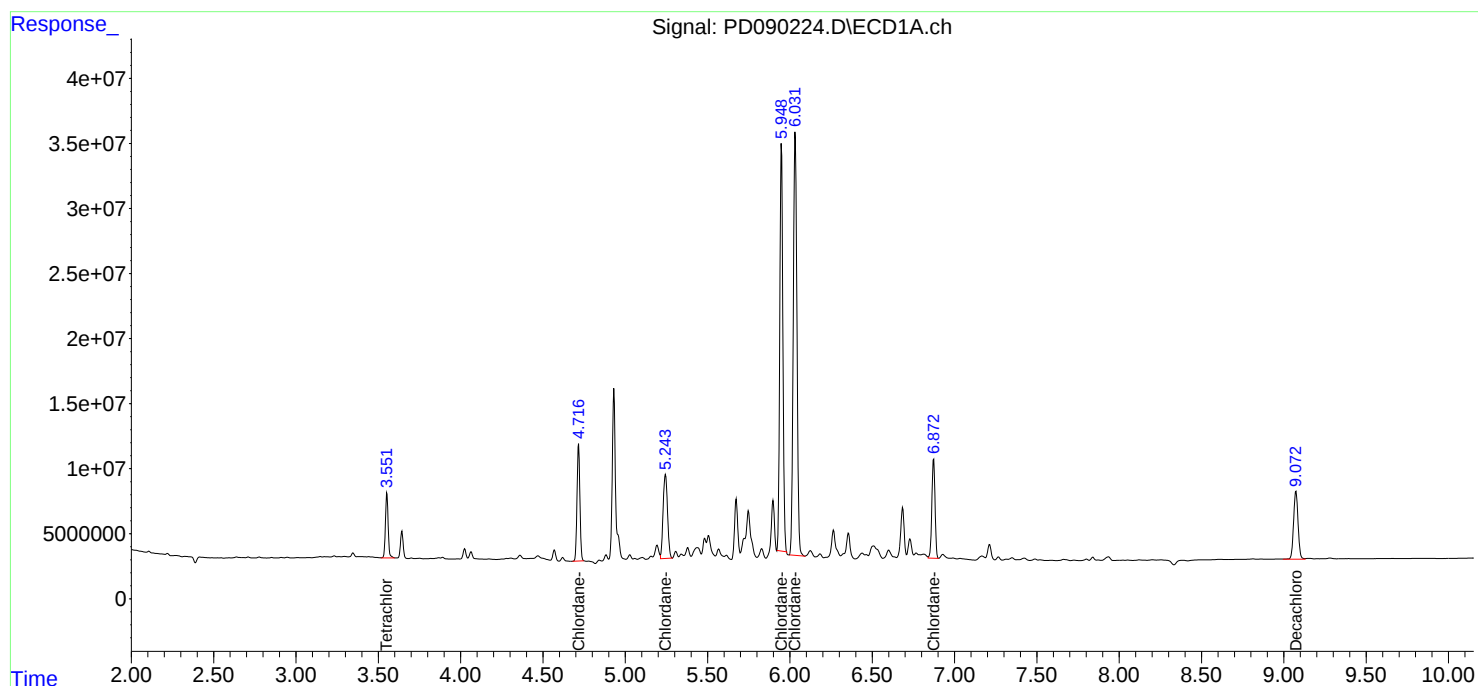
Instrument :
ECD_D
ClientSampleId :
WP0925-PT-CHLR-WP

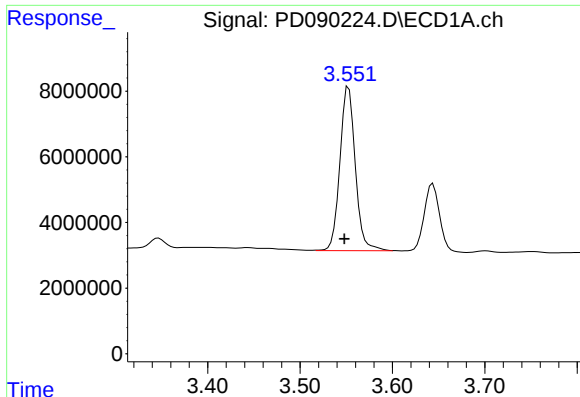
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 08:20:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:16:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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





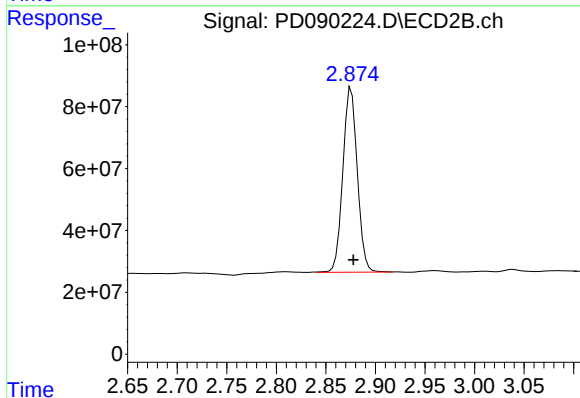
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.003 min
Response: 57944371
Conc: 19.74 ng/ml

Instrument :
ECD_D
ClientSampleId :
WP0925-PT-CHLR-WP

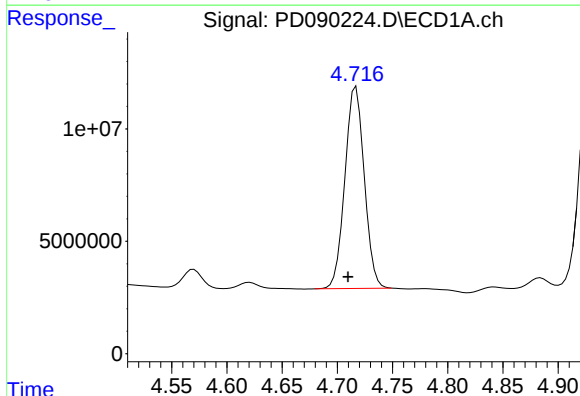
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025



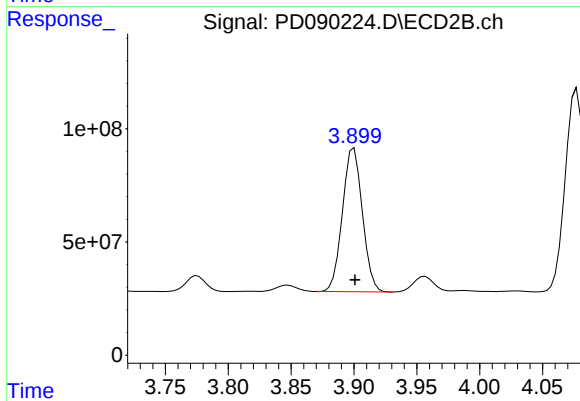
#1 Tetrachloro-m-xylene

R.T.: 2.874 min
Delta R.T.: -0.004 min
Response: 603780103
Conc: 27.38 ng/ml m



#23 Chlordane-1

R.T.: 4.716 min
Delta R.T.: 0.006 min
Response: 109539823
Conc: 637.80 ng/ml m

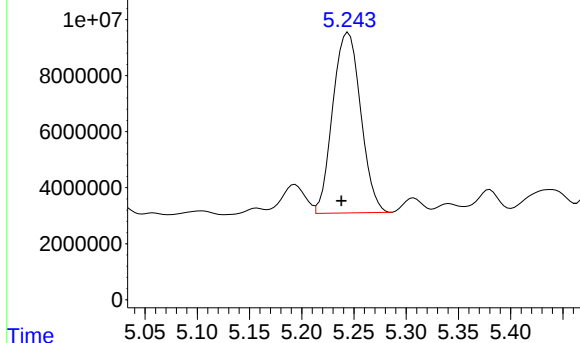


#23 Chlordane-1

R.T.: 3.900 min
Delta R.T.: 0.000 min
Response: 700530024
Conc: 788.06 ng/ml

Response_ Signal: PD090224.D\ECD1A.ch

#24 Chlordane-2



R.T.: 5.245 min
Delta R.T.: 0.007 min
Response: 119880313
Conc: 681.05 ng/ml

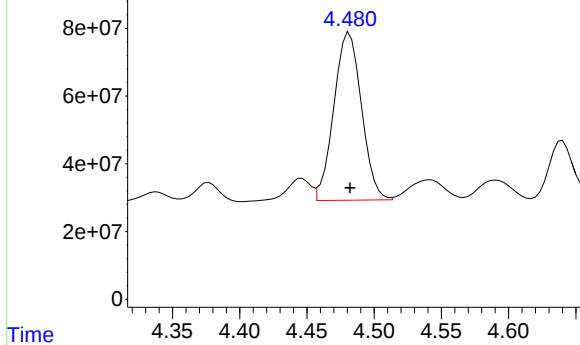
Instrument :
ECD_D
ClientSampleId :
WP0925-PT-CHLR-WP

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025

Response_ Signal: PD090224.D\ECD2B.ch

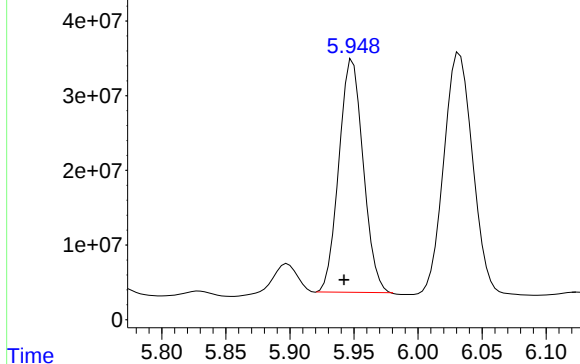
#24 Chlordane-2



R.T.: 4.482 min
Delta R.T.: 0.000 min
Response: 706262883
Conc: 737.26 ng/ml

Response_ Signal: PD090224.D\ECD1A.ch

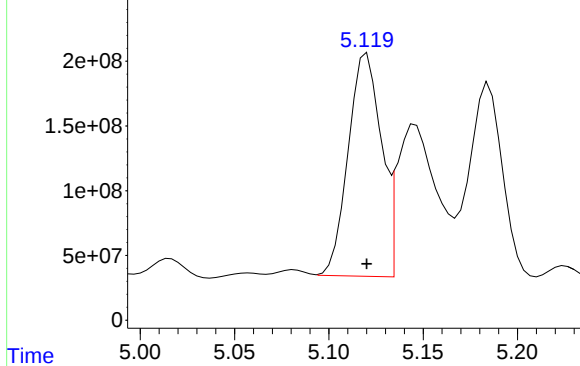
#25 Chlordane-3



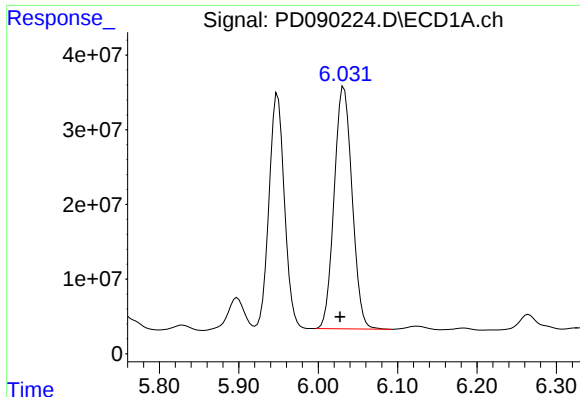
R.T.: 5.949 min
Delta R.T.: 0.007 min
Response: 411510794
Conc: 606.77 ng/ml

Response_ Signal: PD090224.D\ECD2B.ch

#25 Chlordane-3



R.T.: 5.120 min
Delta R.T.: 0.000 min
Response: 2095100160
Conc: 756.09 ng/ml



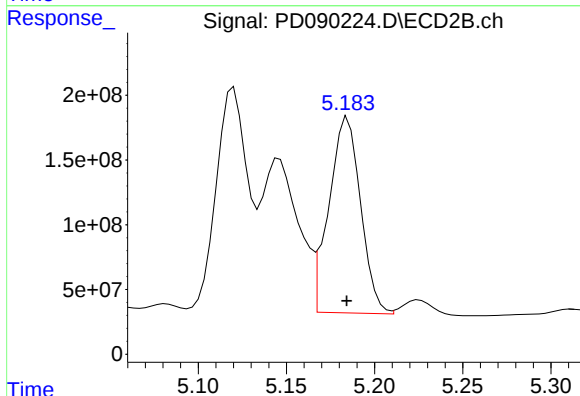
#26 Chlordane-4

R.T.: 6.032 min
Delta R.T.: 0.005 min
Response: 508818756
Conc: 612.85 ng/ml

Instrument :
ECD_D
ClientSampleId :
WP0925-PT-CHLR-WP

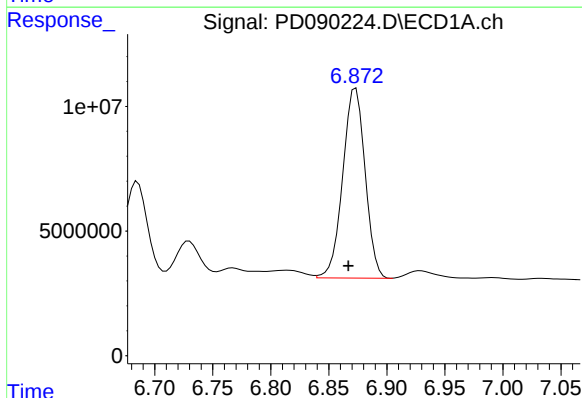
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025



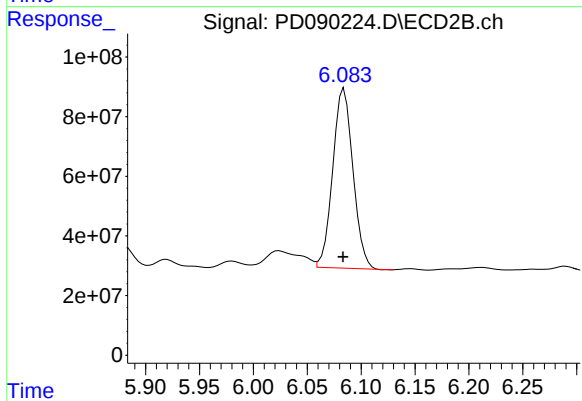
#26 Chlordane-4

R.T.: 5.185 min
Delta R.T.: 0.000 min
Response: 1892375779
Conc: 786.22 ng/ml



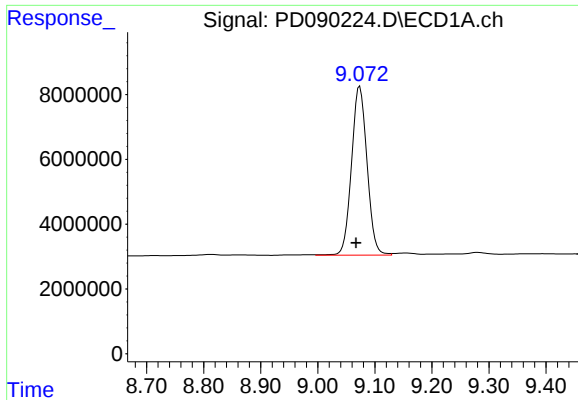
#27 Chlordane-5

R.T.: 6.873 min
Delta R.T.: 0.006 min
Response: 102058681
Conc: 728.18 ng/ml



#27 Chlordane-5

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 785456076
Conc: 714.07 ng/ml



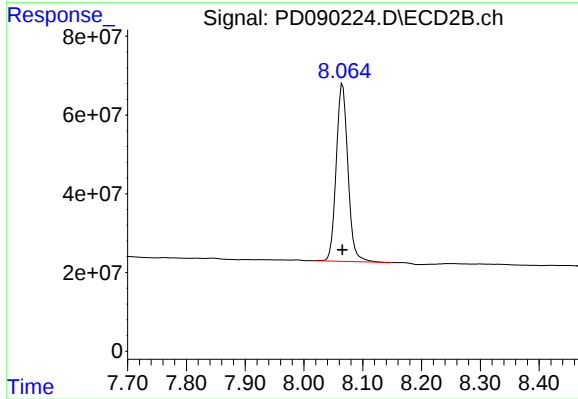
#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: 0.007 min
Response: 98289527
Conc: 22.77 ng/ml

Instrument :
ECD_D
ClientSampleId :
WP0925-PT-CHLR-WP

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025



#28 Decachlorobiphenyl

R.T.: 8.066 min
Delta R.T.: 0.000 min
Response: 623057973
Conc: 24.07 ng/ml



CALIBRATION SUMMARY

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
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- 14
- 15
- 16
- 17
- 18

Contract:	<u>ALLI03</u>	
SDG NO.:	<u>Q3015</u>	
Calibration Date(s):	<u>08/19/2025</u>	<u>08/19/2025</u>
Calibration Times:	<u>10:30</u>	<u>11:51</u>

LAB FILE ID:		RT 1000 =	<u>PD089986.D</u>	RT 750 =	<u>PD089987.D</u>
RT 500 =	PD089988.D	RT 250 =	PD089989.D	RT 050 =	PD089990.D

[illegible]

Lab Name:	<u>Alliance</u>	Contract:	<u>ALLI03</u>	
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3015</u>	
Instrument ID:	<u>ECD_D</u>	Calibration Date(s):	<u>08/19/2025</u>	<u>08/19/2025</u>
		Calibration Times:	<u>10:30</u>	<u>11:51</u>

LAB FILE ID:	RT 1000 =	<u>PD089986.D</u>	RT 750 =	<u>PD089987.D</u>
	RT 500 =	PD089988.D	RT 250 =	PD089989.D
			RT 050 =	PD089990.D

[illegible]



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: ALLI03
SDG NO.: Q3015

Calibration Date(s): 08/19/2025 08/19/2025
Calibration Times: 10:30 11:51

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

LAB FILE ID:		CF 1000 =	<u>PD089986.D</u>	CF 750 =	<u>PD089987.D</u>			
CF 500 =		<u>PD089988.D</u>	CF 250 =	<u>PD089989.D</u>	CF 050 =	<u>PD089990.D</u>		
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Chlordane-1	(1)	181608000	178357000	184252000	179684000	134829000	171746000	12
Chlordane-2	(2)	173499000	177758000	186362000	188970000	153520000	176022000	8
Chlordane-3	(3)	734580000	729803000	733298000	682260000	511076000	678203000	14
Chlordane-4	(4)	876408000	876098000	892321000	847343000	659067000	830247000	12
Chlordane-5	(5)	146332000	146759000	150779000	145988000	110924000	140156000	12
Decachlorobiphenyl		289274000	300683000	323872000	338848000	326708000	315877000	6
Tetrachloro-m-xylene		213024000	213590000	219628000	216564000	163354000	205232000	11



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: ALLI03
SDG NO.: Q3015

Calibration Date(s): 08/19/2025 08/19/2025
Calibration Times: 10:30 11:51

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

LAB FILE ID:		CF 1000 = <u>PD089986.D</u>		CF 750 = <u>PD089987.D</u>				
CF 500 = <u>PD089988.D</u>		CF 250 = <u>PD089989.D</u>		CF 050 = <u>PD089990.D</u>				
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Chlordane-1	(1)	887489000	907906000	948532000	950221000	750506000	888931000	9
Chlordane-2	(2)	900468000	929634000	987046000	1020050000	952568000	957953000	5
Chlordane-3	(3)	2734010000	2792980000	2921580000	2941130000	2465130000	2770960000	7
Chlordane-4	(4)	2328220000	2397560000	2525200000	2540800000	2242830000	2406920000	5
Chlordane-5	(5)	1091010000	1117460000	1176580000	1173310000	941483000	1099970000	9
Decachlorobiphenyl		1875770000	1931830000	2065370000	2140320000	2117470000	2026150000	6
Tetrachloro-m-xylene		2008460000	2048910000	2114190000	2087090000	1547760000	1961280000	12

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
 Data File : PD089986.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Aug 2025 10:30
 Operator : AR\AJ
 Sample : PCHLORICC1000
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PCHLORICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 19 13:05:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
 Quant Title : GC Extractables
 QLast Update : Tue Aug 19 13:03:08 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.548	2.877	213.0E6	2008.5E6	98.474	97.435
28)	SA Decachlor...	9.067	8.064	289.3E6	1875.8E6	94.357	95.189
Target Compounds							
23)	Chlordane-1	4.712	3.901	181.6E6	887.5E6	992.774	966.752
24)	Chlordane-2	5.239	4.482	173.5E6	900.5E6	964.257	954.131
25)	Chlordane-3	5.943	5.121	734.6E6	2734.0E6	1000.873	966.834
26)	Chlordane-4	6.028	5.184	876.4E6	2328.2E6	991.003	959.414
27)	Chlordane-5	6.867	6.085	146.3E6	1091.0E6	985.034	962.264

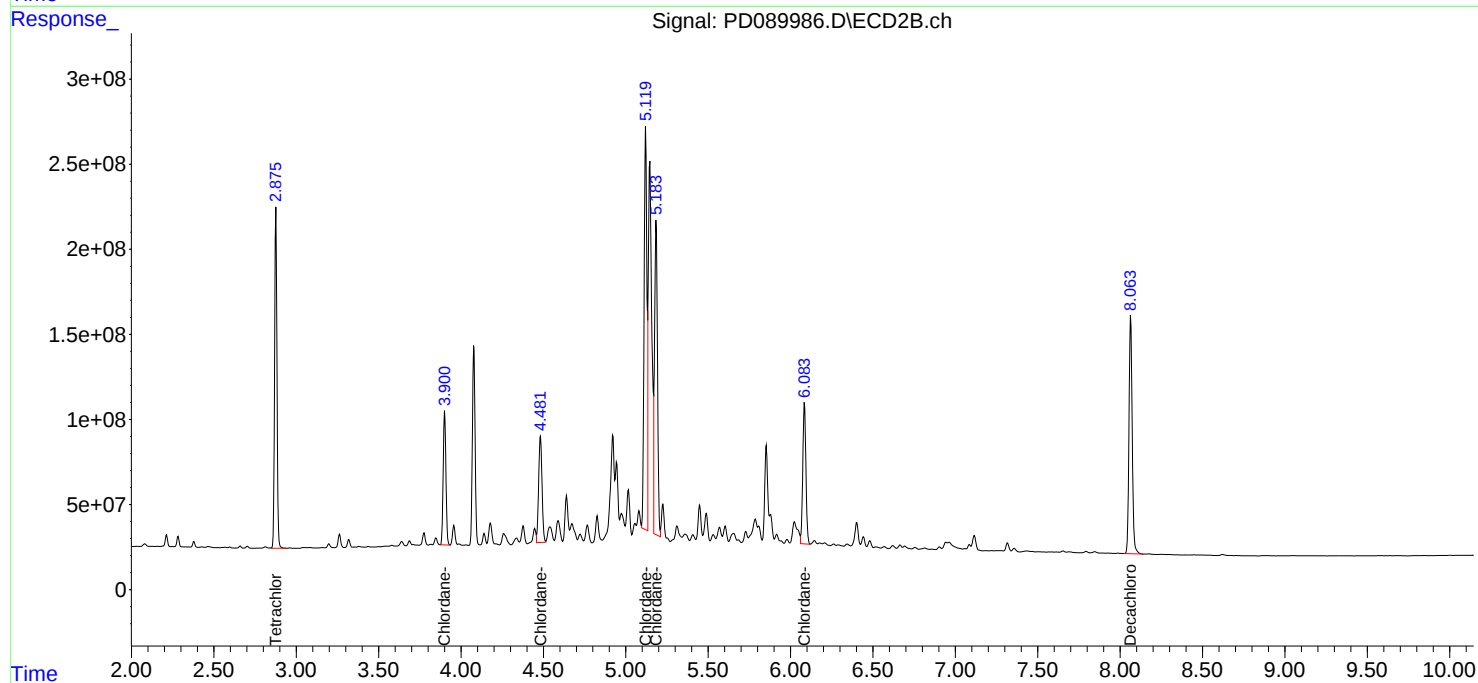
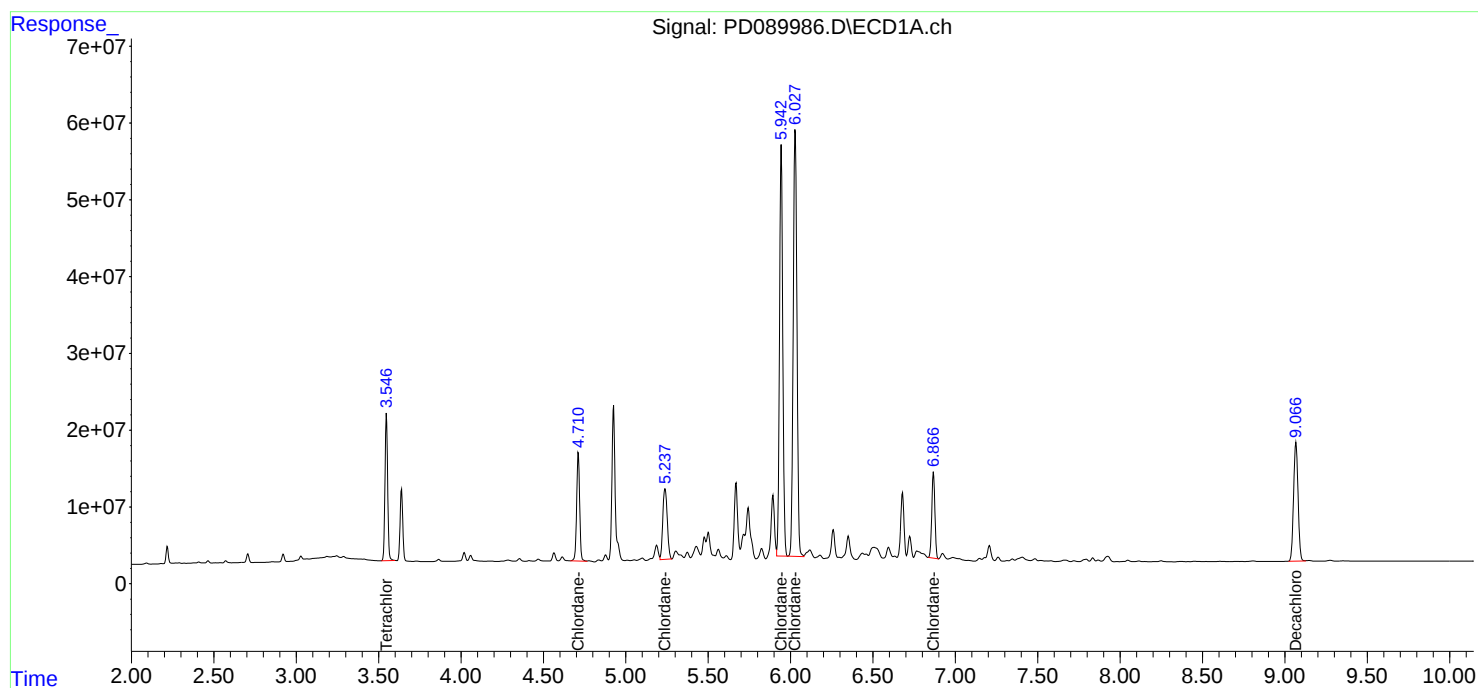
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

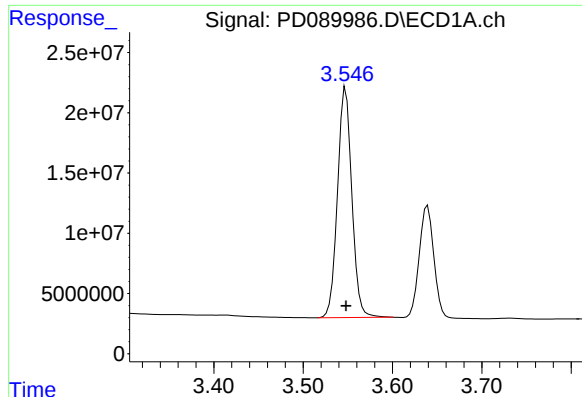
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
Data File : PD089986.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Aug 2025 10:30
Operator : AR\AJ
Sample : PCHLORICC1000
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PCHLORICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:05:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:03:08 2025
Response via : Initial Calibration
Integrator: ChemStation

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

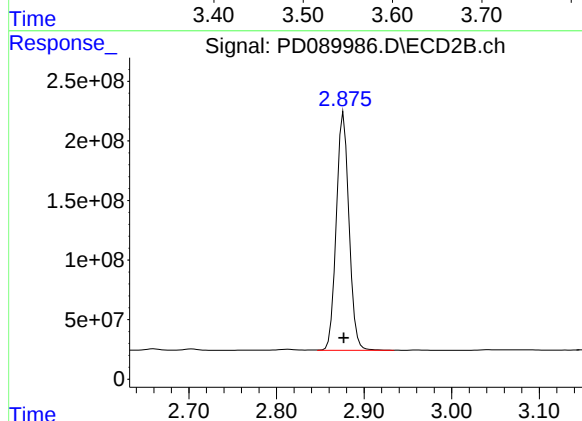




#1 Tetrachloro-m-xylene

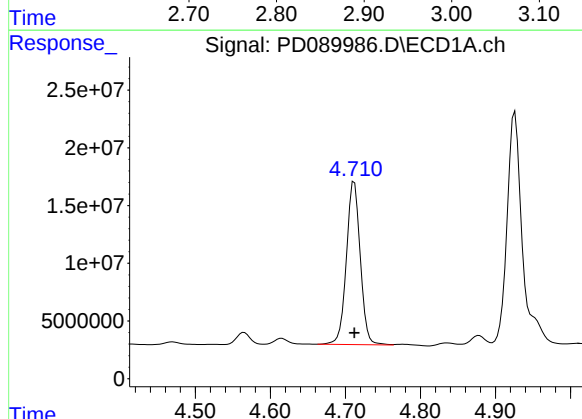
R.T.: 3.548 min
Delta R.T.: 0.000 min
Response: 213023800
Conc: 98.47 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC1000



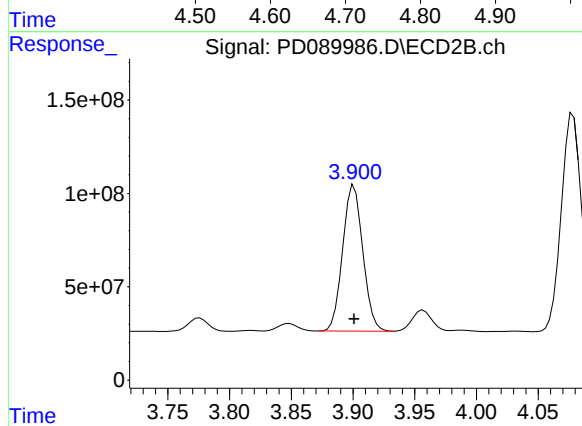
#1 Tetrachloro-m-xylene

R.T.: 2.877 min
Delta R.T.: 0.000 min
Response: 2008459489
Conc: 97.44 ng/ml



#23 Chlordane-1

R.T.: 4.712 min
Delta R.T.: 0.000 min
Response: 181608215
Conc: 992.77 ng/ml



#23 Chlordane-1

R.T.: 3.901 min
Delta R.T.: 0.000 min
Response: 887488686
Conc: 966.75 ng/ml

Response_ Signal: PD089986.D\ECD1A.ch

#24 Chlordane-2

R.T.: 5.239 min
Delta R.T.: 0.000 min
Response: 173499195
Conc: 964.26 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC1000

Time 5.05 5.10 5.15 5.20 5.25 5.30 5.35 5.40

Response_ Signal: PD089986.D\ECD2B.ch

#24 Chlordane-2

R.T.: 4.482 min
Delta R.T.: 0.000 min
Response: 900468222
Conc: 954.13 ng/ml

Time 4.35 4.40 4.45 4.50 4.55 4.60

Response_ Signal: PD089986.D\ECD1A.ch

#25 Chlordane-3

R.T.: 5.943 min
Delta R.T.: 0.000 min
Response: 734580261
Conc: 1000.87 ng/ml

Time 5.75 5.80 5.85 5.90 5.95 6.00 6.05 6.10

Response_ Signal: PD089986.D\ECD2B.ch

#25 Chlordane-3

R.T.: 5.121 min
Delta R.T.: 0.000 min
Response: 2734005257
Conc: 966.83 ng/ml

Time 5.05 5.10 5.15 5.20

Response_ Signal: PD089986.D\ECD1A.ch

#26 Chlordane-4

R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 876408044
Conc: 991.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC1000

Time

Response_ Signal: PD089986.D\ECD2B.ch

#26 Chlordane-4

R.T.: 5.184 min
Delta R.T.: 0.000 min
Response: 2328219422
Conc: 959.41 ng/ml

Time

Response_ Signal: PD089986.D\ECD1A.ch

#27 Chlordane-5

R.T.: 6.867 min
Delta R.T.: 0.000 min
Response: 146332088
Conc: 985.03 ng/ml

Time

Response_ Signal: PD089986.D\ECD2B.ch

#27 Chlordane-5

R.T.: 6.085 min
Delta R.T.: 0.000 min
Response: 1091013214
Conc: 962.26 ng/ml

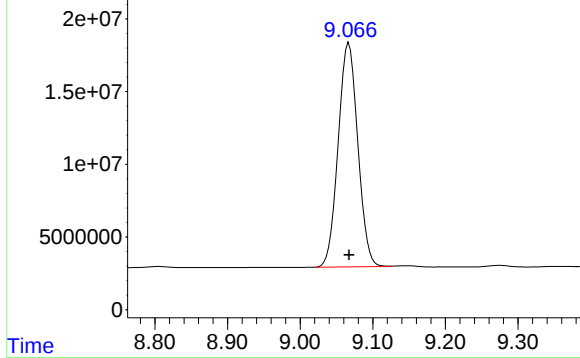
Time

Response_

Signal: PD089986.D\ECD1A.ch

#28 Decachlorobiphenyl

ICAL Form



R.T.: 9.067 min
Delta R.T.: 0.000 min
Response: 289273621
Conc: 94.36 ng/ml

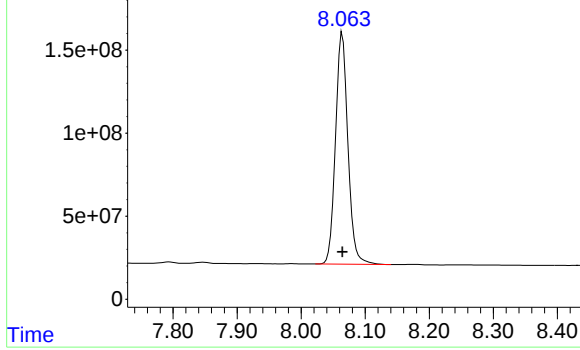
Instrument :
ECD_D
ClientSampleId :
PCHLORICC1000

Time

Response_

Signal: PD089986.D\ECD2B.ch

#28 Decachlorobiphenyl



R.T.: 8.064 min
Delta R.T.: 0.000 min
Response: 1875766141
Conc: 95.19 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
Data File : PD089987.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Aug 2025 11:10
Operator : AR\AJ
Sample : PCHLORICC750
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PCHLORICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:07:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:03:08 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	2.876	160.2E6	1536.7E6	74.365	74.698
28)	SA Decachlor...	9.073	8.067	225.5E6	1448.9E6	74.033	74.011
Target Compounds							
23)	Chlordane-1	4.716	3.901	133.8E6	680.9E6	737.394	744.476
24)	Chlordane-2	5.243	4.482	133.3E6	697.2E6	743.938	742.480
25)	Chlordane-3	5.948	5.121	547.4E6	2094.7E6	747.177	743.819
26)	Chlordane-4	6.033	5.185	657.1E6	1798.2E6	745.312	743.970
27)	Chlordane-5	6.872	6.085	110.1E6	838.1E6	743.931	742.759

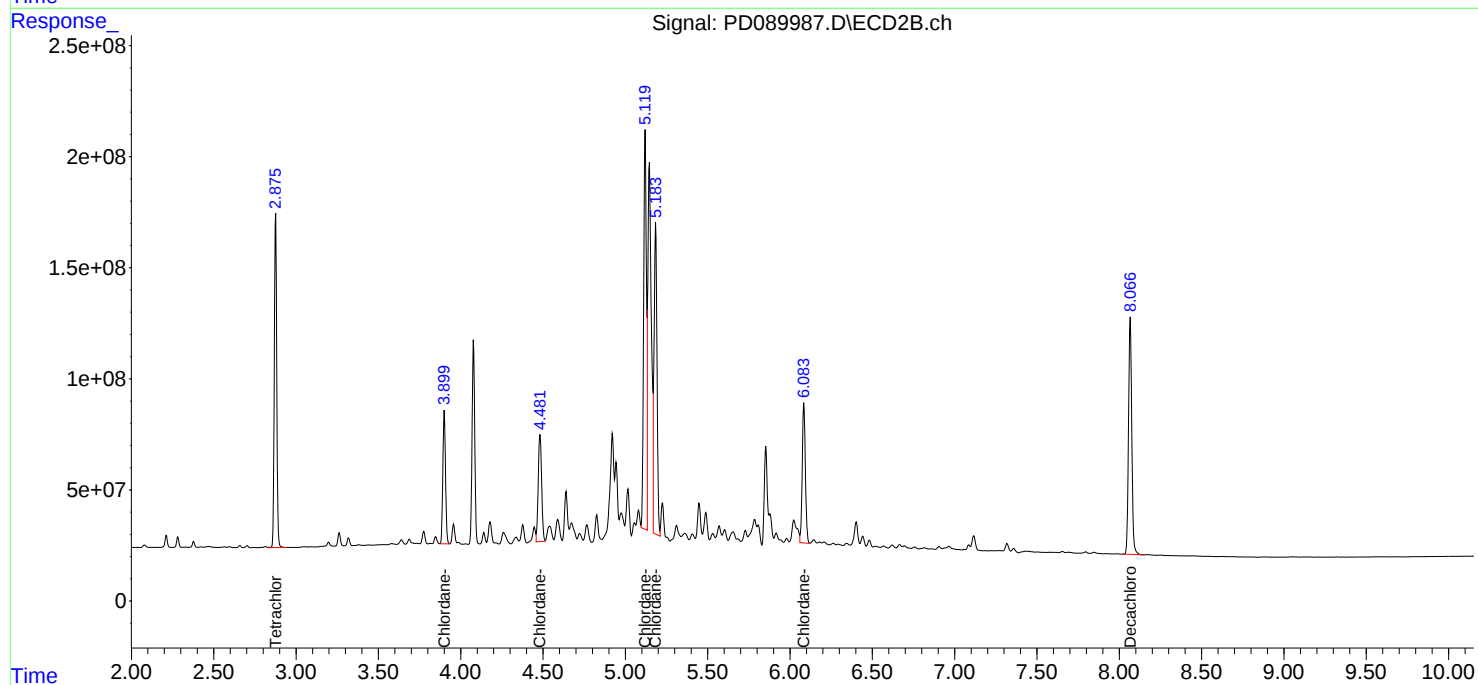
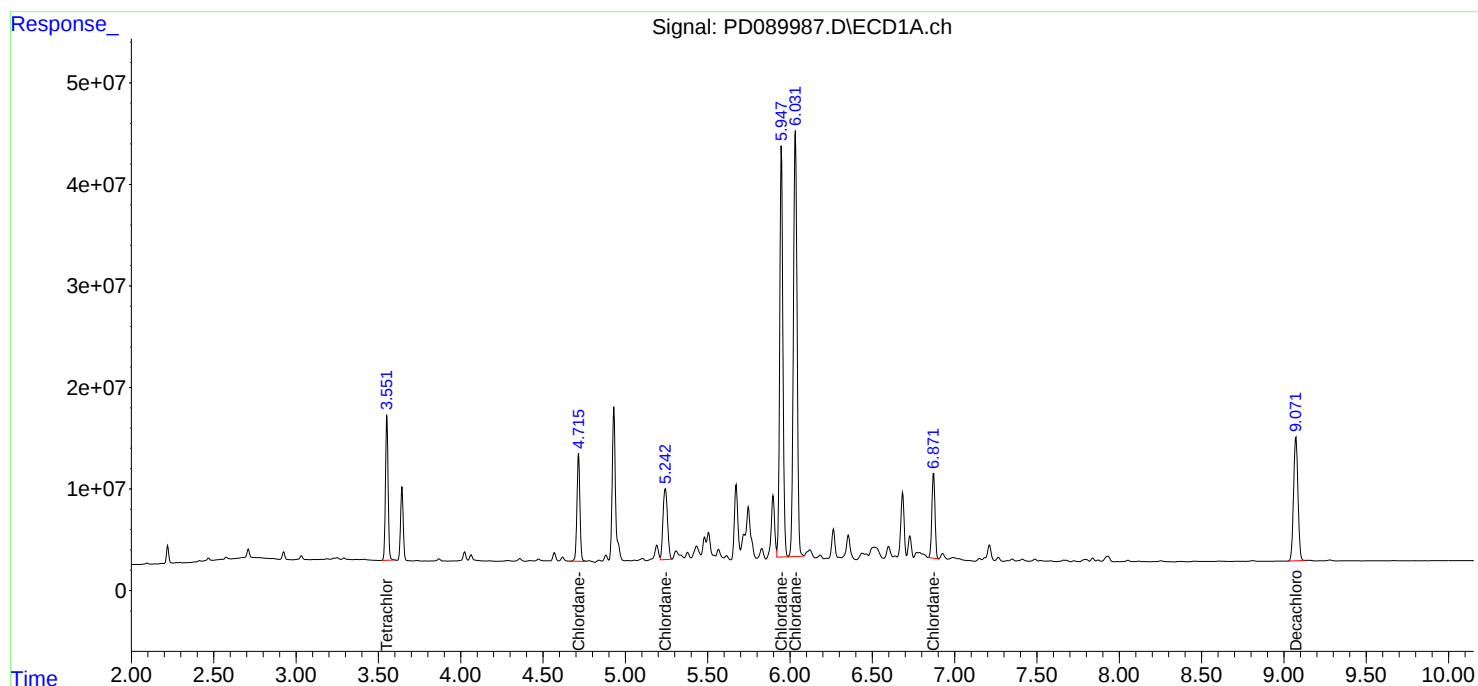
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

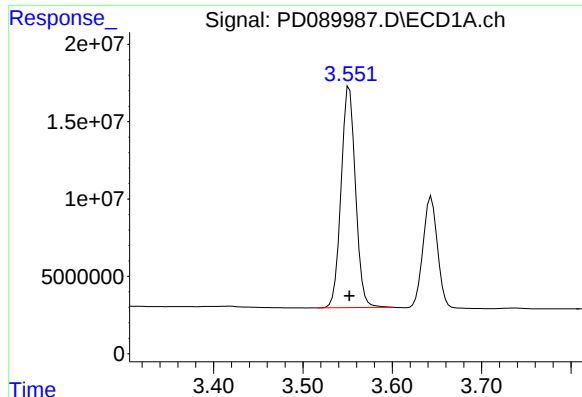
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
Data File : PD089987.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Aug 2025 11:10
Operator : AR\AJ
Sample : PCHLORICC750
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PCHLORICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:07:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:03:08 2025
Response via : Initial Calibration
Integrator: ChemStation

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

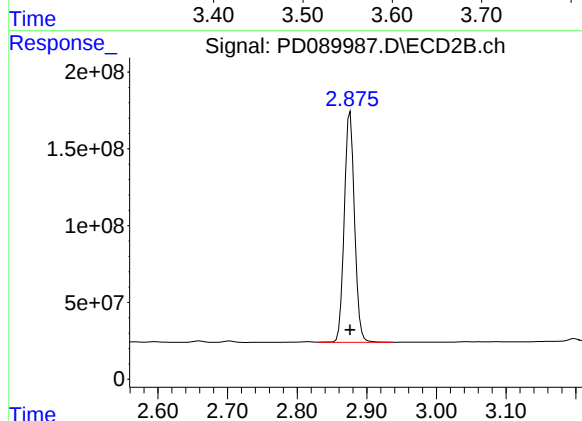




#1 Tetrachloro-m-xylene

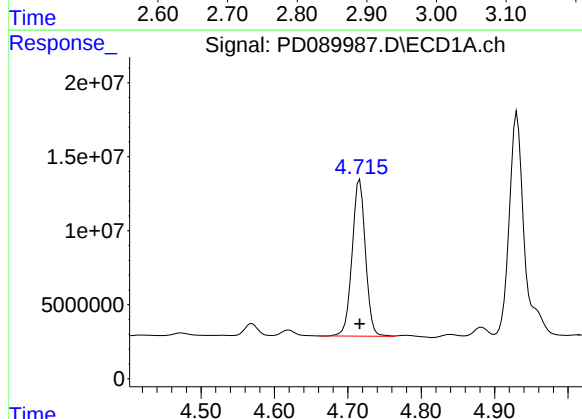
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 160192305
Conc: 74.36 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC750



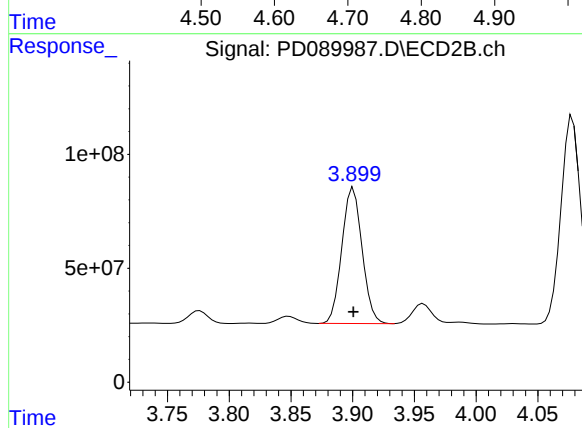
#1 Tetrachloro-m-xylene

R.T.: 2.876 min
Delta R.T.: 0.000 min
Response: 1536685842
Conc: 74.70 ng/ml



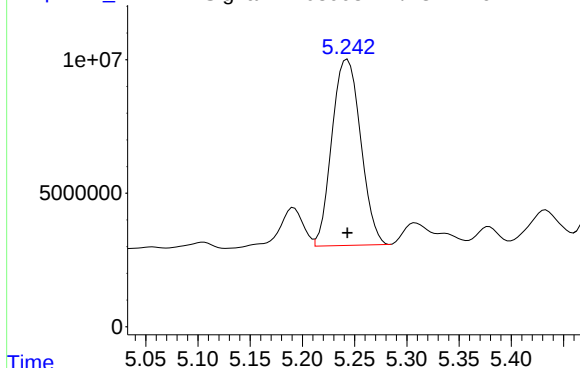
#23 Chlordane-1

R.T.: 4.716 min
Delta R.T.: 0.000 min
Response: 133767438
Conc: 737.39 ng/ml



#23 Chlordane-1

R.T.: 3.901 min
Delta R.T.: 0.000 min
Response: 680929241
Conc: 744.48 ng/ml

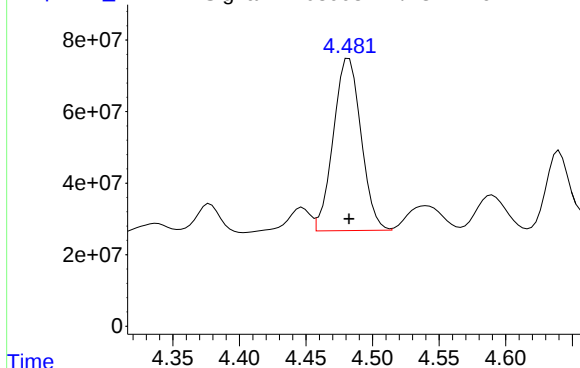


R.T.: 5.243 min
Delta R.T.: 0.000 min
Response: 133318353
Conc: 743.94 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC750

Time Response_ Signal: PD089987.D\ECD2B.ch

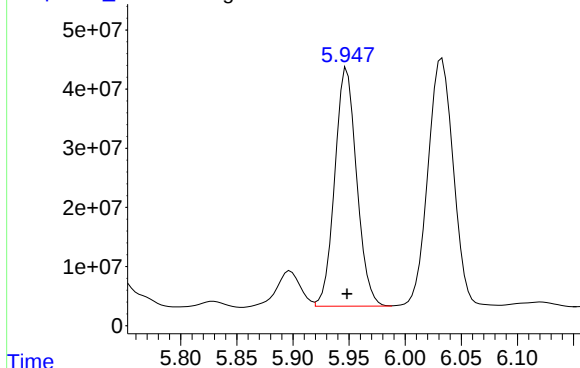
#24 Chlordane-2



R.T.: 4.482 min
Delta R.T.: 0.000 min
Response: 697225804
Conc: 742.48 ng/ml

Time Response_ Signal: PD089987.D\ECD1A.ch

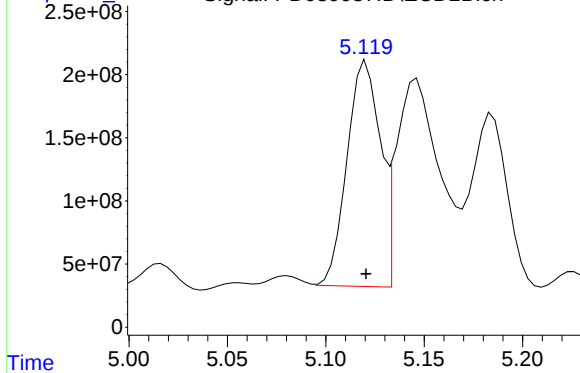
#25 Chlordane-3



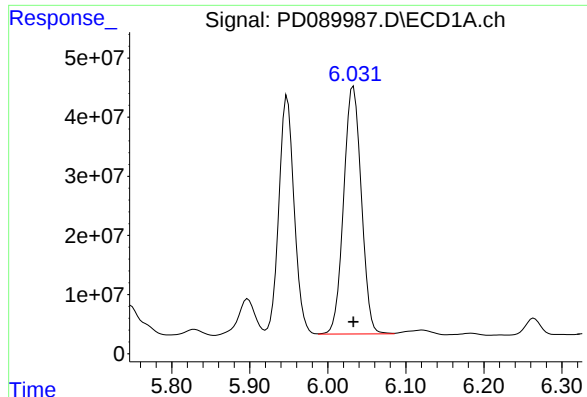
R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 547352282
Conc: 747.18 ng/ml

Time Response_ Signal: PD089987.D\ECD2B.ch

#25 Chlordane-3



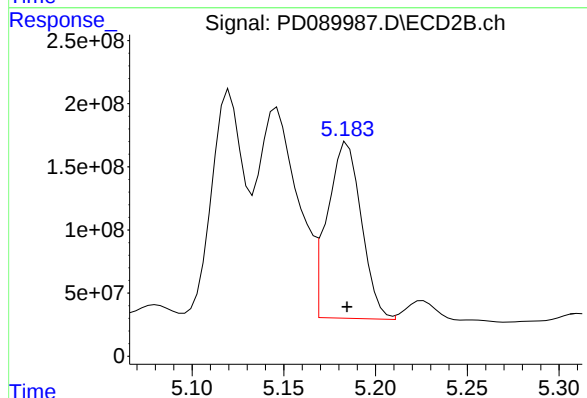
R.T.: 5.121 min
Delta R.T.: 0.000 min
Response: 2094732756
Conc: 743.82 ng/ml



#26 Chlordane-4

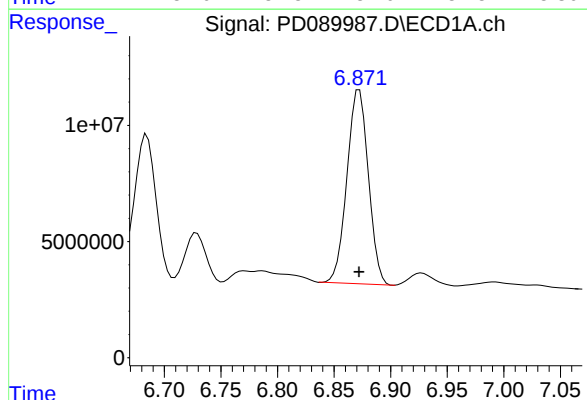
R.T.: 6.033 min
Delta R.T.: 0.000 min
Response: 657073207
Conc: 745.31 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC750



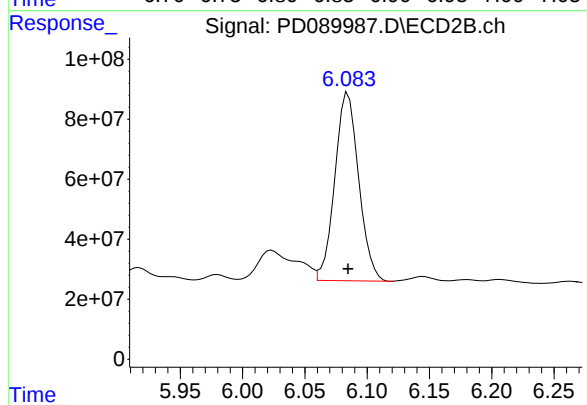
#26 Chlordane-4

R.T.: 5.185 min
Delta R.T.: 0.000 min
Response: 1798170679
Conc: 743.97 ng/ml



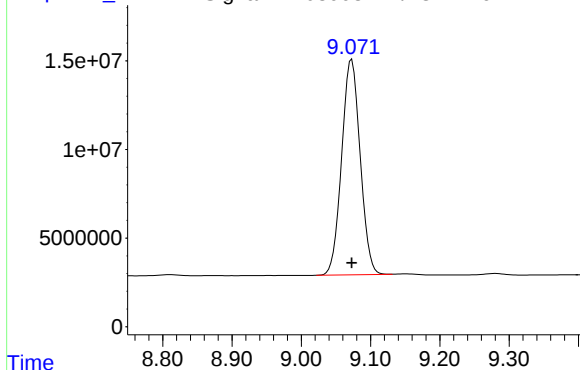
#27 Chlordane-5

R.T.: 6.872 min
Delta R.T.: 0.000 min
Response: 110069468
Conc: 743.93 ng/ml



#27 Chlordane-5

R.T.: 6.085 min
Delta R.T.: 0.000 min
Response: 838092830
Conc: 742.76 ng/ml



R.T.: 9.073 min
Delta R.T.: 0.000 min
Response: 225512430
Conc: 74.03 ng/ml

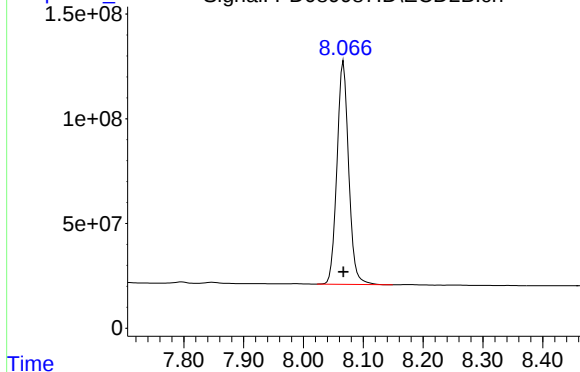
Instrument :
ECD_D
ClientSampleId :
PCHLORICC750

Time

Response

Signal: PD089987.D\ECD2B.ch

#28 Decachlorobiphenyl



R.T.: 8.067 min
Delta R.T.: 0.000 min
Response: 1448874185
Conc: 74.01 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
Data File : PD089988.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Aug 2025 11:24
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:03:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:03:08 2025
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.549	2.876	109.8E6	1057.1E6	50.000	50.000
28) SA Decachlor...	9.068	8.064	161.9E6	1032.7E6	50.000	50.000
Target Compounds						
23) Chlordane-1	4.713	3.901	92125896	474.3E6	500.000	500.000
24) Chlordane-2	5.239	4.482	93180795	493.5E6	500.000	500.000
25) Chlordane-3	5.944	5.120	366.6E6	1460.8E6	500.000	500.000
26) Chlordane-4	6.029	5.184	446.2E6	1262.6E6	500.000	500.000
27) Chlordane-5	6.868	6.084	75389263	588.3E6	500.000	500.000

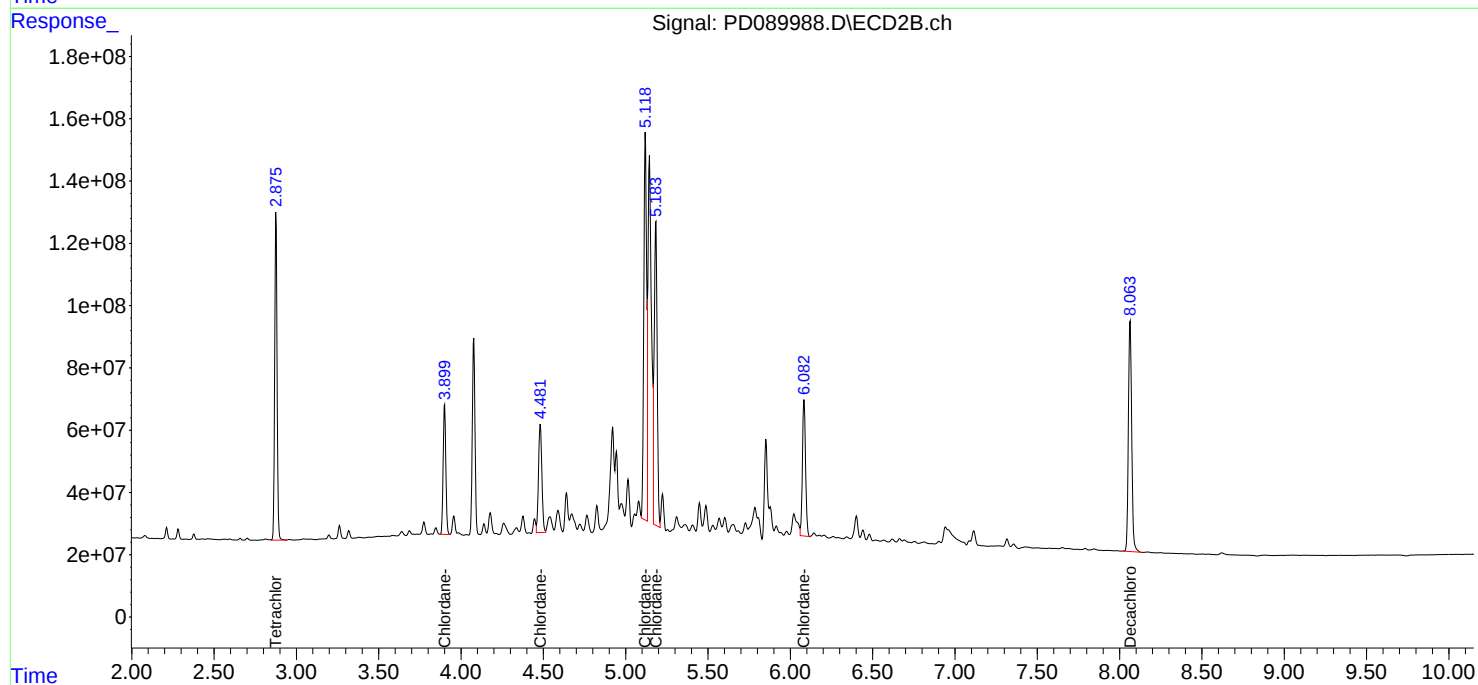
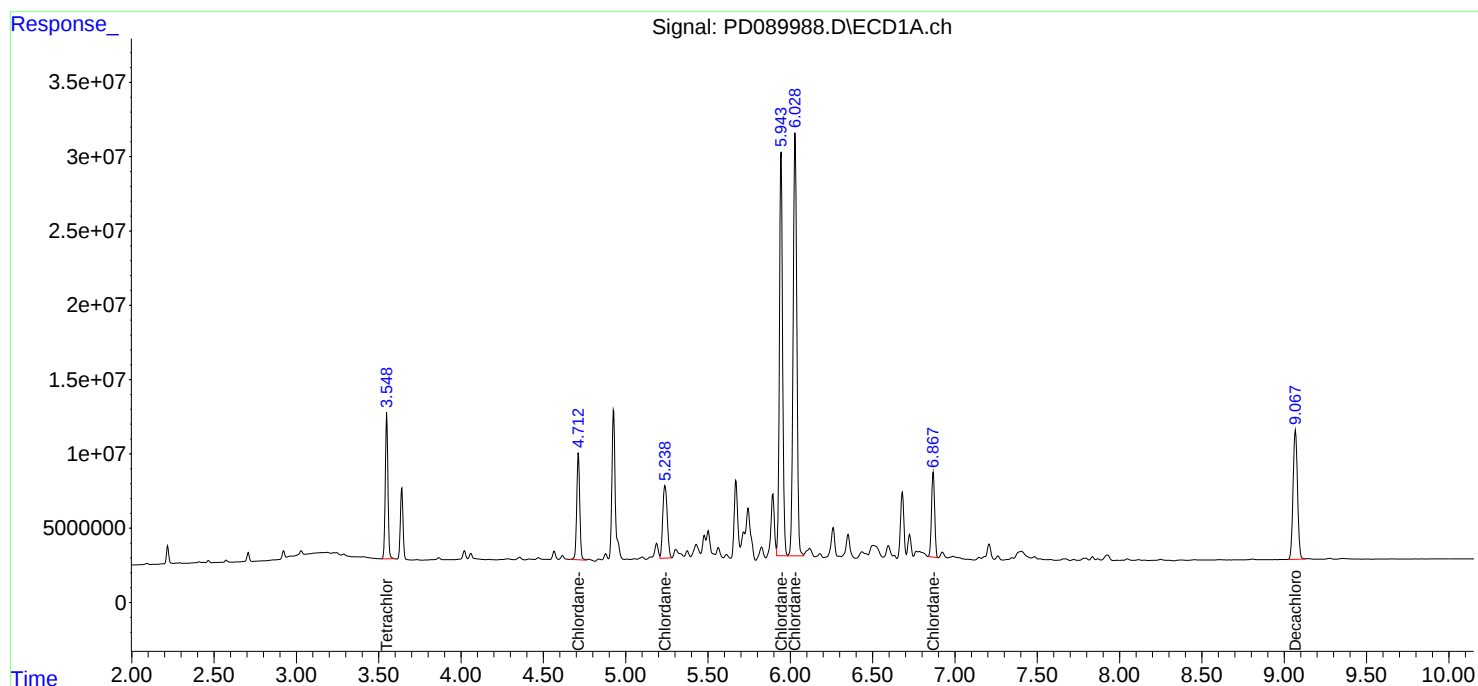
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

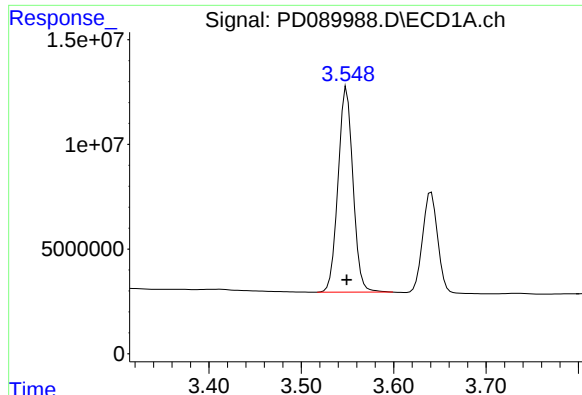
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
Data File : PD089988.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Aug 2025 11:24
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:03:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:03:08 2025
Response via : Initial Calibration
Integrator: ChemStation

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

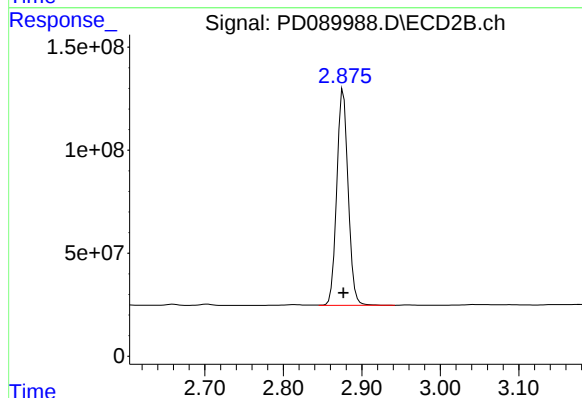




#1 Tetrachloro-m-xylene

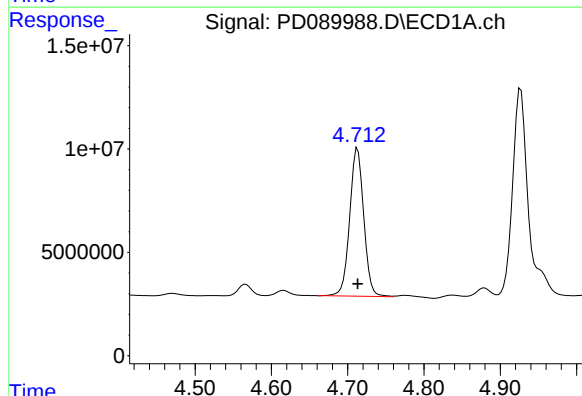
R.T.: 3.549 min
Delta R.T.: 0.000 min
Response: 109813767
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500



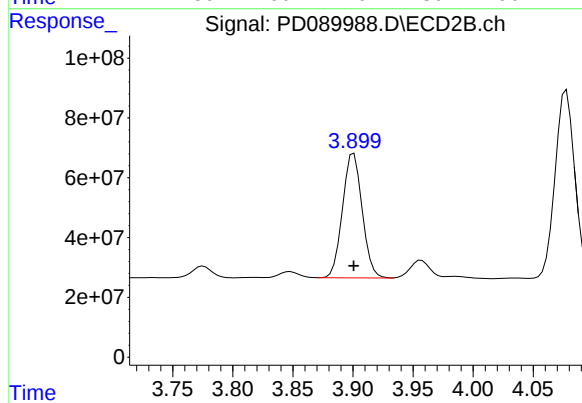
#1 Tetrachloro-m-xylene

R.T.: 2.876 min
Delta R.T.: 0.000 min
Response: 1057096075
Conc: 50.00 ng/ml



#23 Chlordane-1

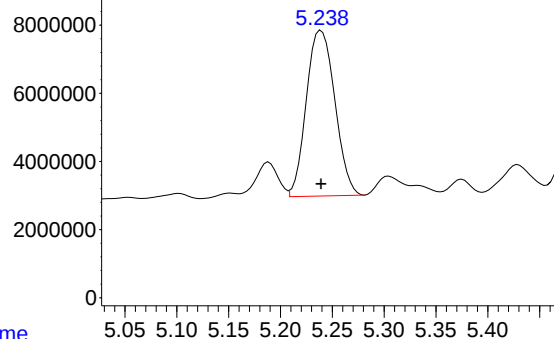
R.T.: 4.713 min
Delta R.T.: 0.000 min
Response: 92125896
Conc: 500.00 ng/ml



#23 Chlordane-1

R.T.: 3.901 min
Delta R.T.: 0.000 min
Response: 474266214
Conc: 500.00 ng/ml

Response_ Signal: PD089988.D\ECD1A.ch

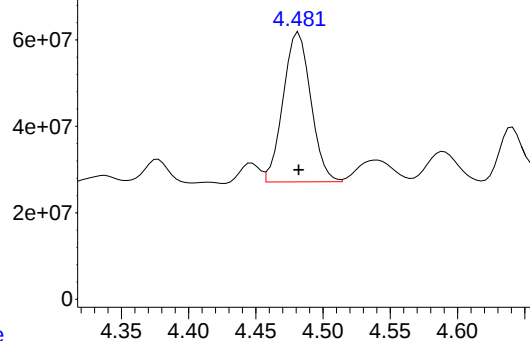


#24 Chlordane-2

R.T.: 5.239 min
Delta R.T.: 0.000 min
Response: 93180795
Conc: 500.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500

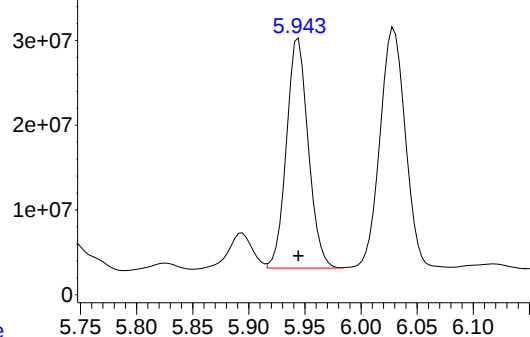
Time Response_ Signal: PD089988.D\ECD2B.ch



#24 Chlordane-2

R.T.: 4.482 min
Delta R.T.: 0.000 min
Response: 493523178
Conc: 500.00 ng/ml

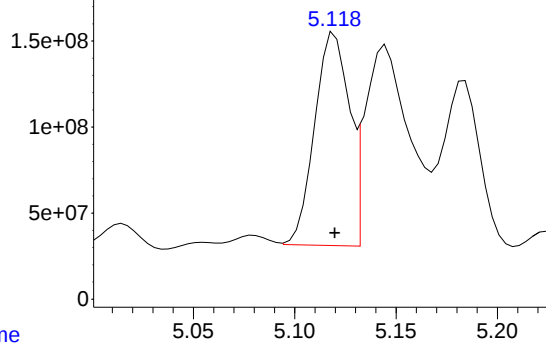
Time Response_ Signal: PD089988.D\ECD1A.ch



#25 Chlordane-3

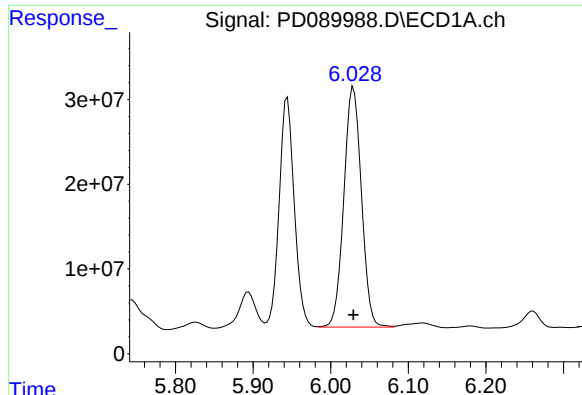
R.T.: 5.944 min
Delta R.T.: 0.000 min
Response: 366649042
Conc: 500.00 ng/ml

Time Response_ Signal: PD089988.D\ECD2B.ch



#25 Chlordane-3

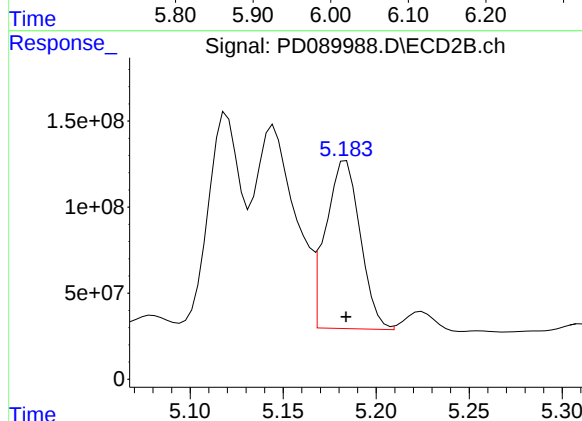
R.T.: 5.120 min
Delta R.T.: 0.000 min
Response: 1460789048
Conc: 500.00 ng/ml



#26 Chlordane-4

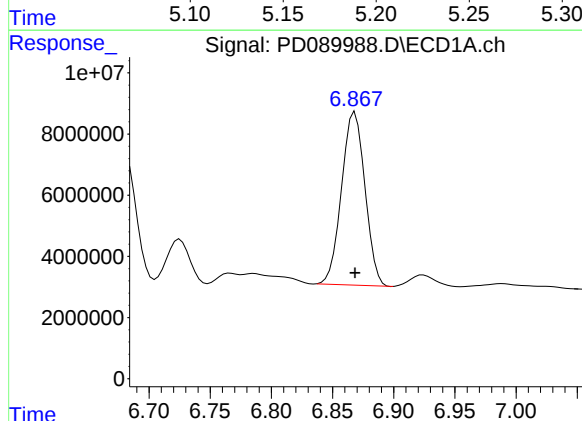
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 446160270
Conc: 500.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500



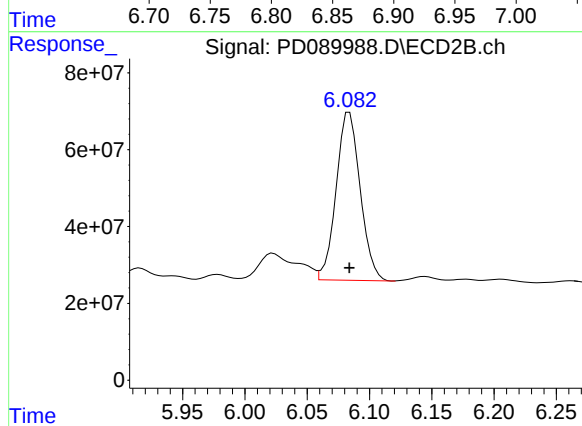
#26 Chlordane-4

R.T.: 5.184 min
Delta R.T.: 0.000 min
Response: 1262600245
Conc: 500.00 ng/ml



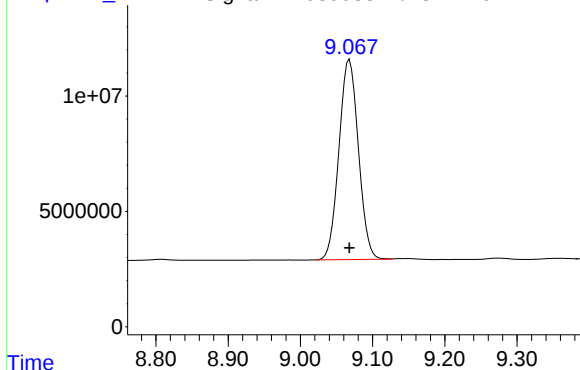
#27 Chlordane-5

R.T.: 6.868 min
Delta R.T.: 0.000 min
Response: 75389263
Conc: 500.00 ng/ml



#27 Chlordane-5

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 588291533
Conc: 500.00 ng/ml



R.T.: 9.068 min
Delta R.T.: 0.000 min
Response: 161936087
Conc: 50.00 ng/ml

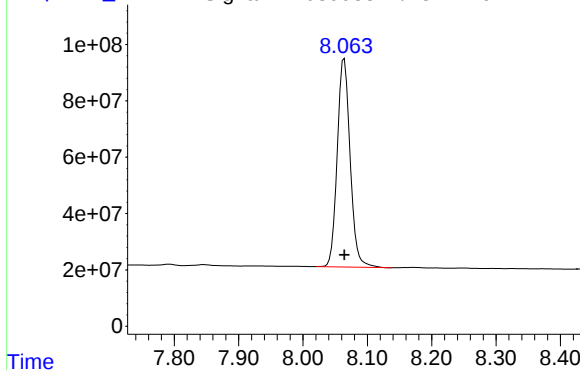
Instrument :
ECD_D
ClientSampleId :
PCHLORICC500

Time

Response_

Signal: PD089988.D\ECD2B.ch

#28 Decachlorobiphenyl



R.T.: 8.064 min
Delta R.T.: 0.000 min
Response: 1032683856
Conc: 50.00 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
 Data File : PD089989.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Aug 2025 11:37
 Operator : AR\AJ
 Sample : PCHLORICC250
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PCHLORICC250

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 19 13:09:36 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
 Quant Title : GC Extractables
 QLast Update : Tue Aug 19 13:03:08 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.548	2.877	54140886	521.8E6	25.100	25.272
28)	SA Decachlor...	9.068	8.065	84712007	535.1E6	27.050	26.710
Target Compounds							
23)	Chlordane-1	4.711	3.901	44921056	237.6E6	248.217	257.223
24)	Chlordane-2	5.238	4.482	47242413	255.0E6	260.078	265.832
25)	Chlordane-3	5.943	5.120	170.6E6	735.3E6	236.901	258.228
26)	Chlordane-4	6.029	5.184	211.8E6	635.2E6	242.641	259.483
27)	Chlordane-5	6.867	6.084	36496936	293.3E6	247.497	257.397

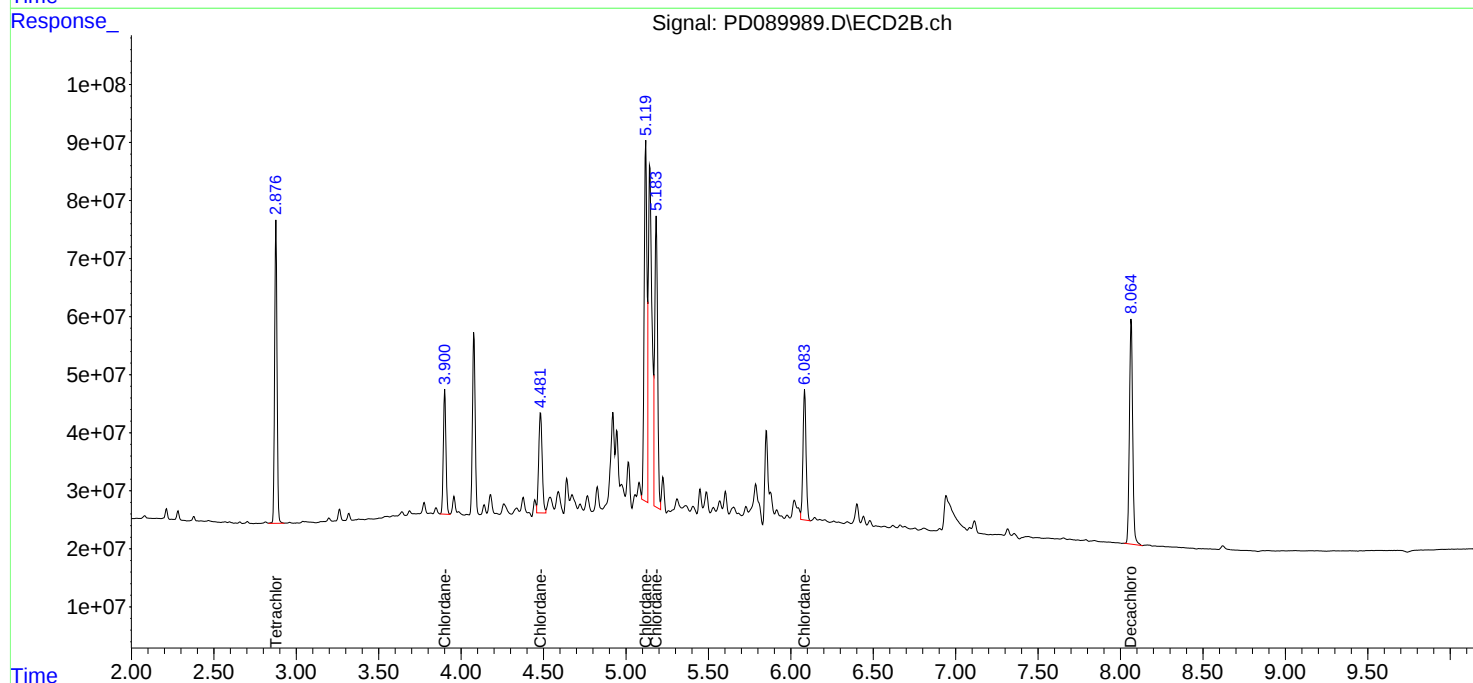
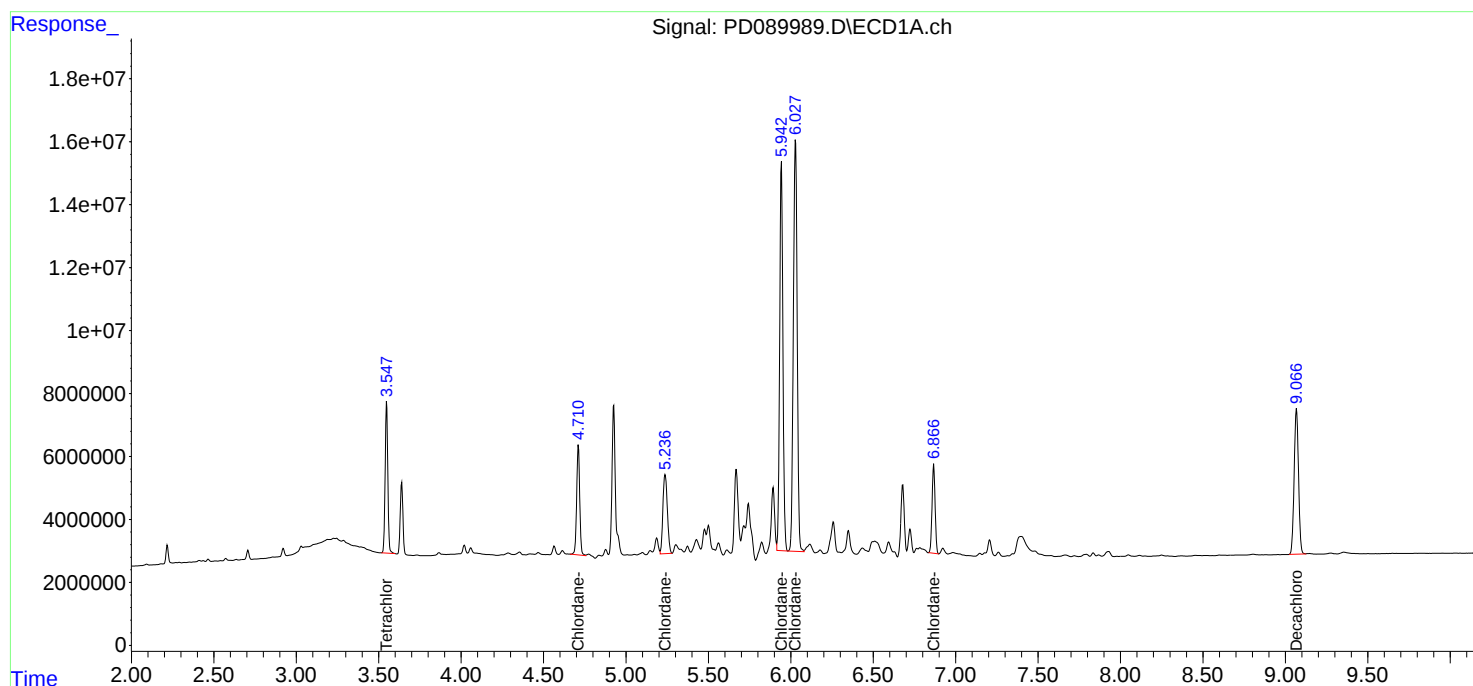
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

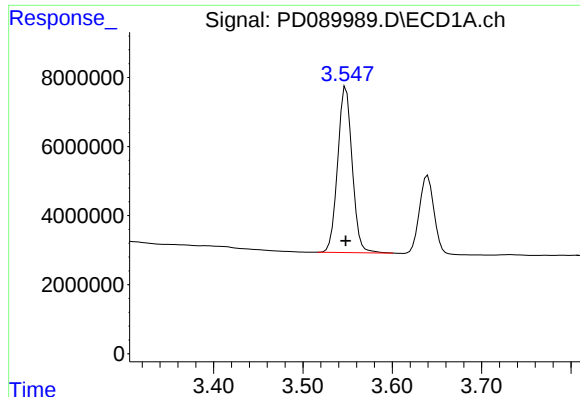
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
Data File : PD089989.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Aug 2025 11:37
Operator : AR\AJ
Sample : PCHLORICC250
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PCHLORICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:09:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:03:08 2025
Response via : Initial Calibration
Integrator: ChemStation

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

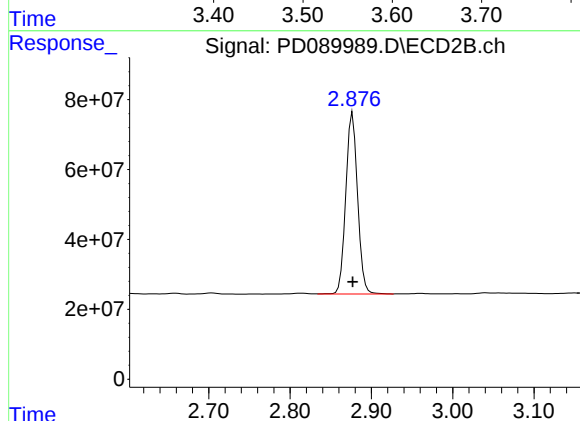




#1 Tetrachloro-m-xylene

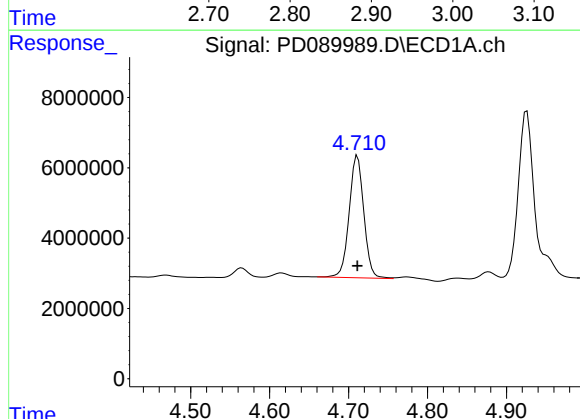
R.T.: 3.548 min
Delta R.T.: 0.000 min
Response: 54140886
Conc: 25.10 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC250



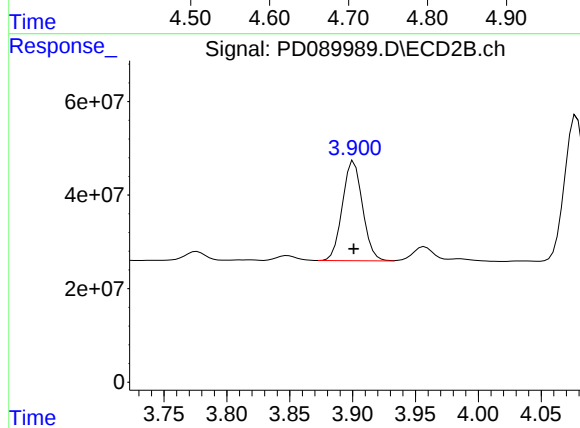
#1 Tetrachloro-m-xylene

R.T.: 2.877 min
Delta R.T.: 0.000 min
Response: 521771959
Conc: 25.27 ng/ml



#23 Chlordane-1

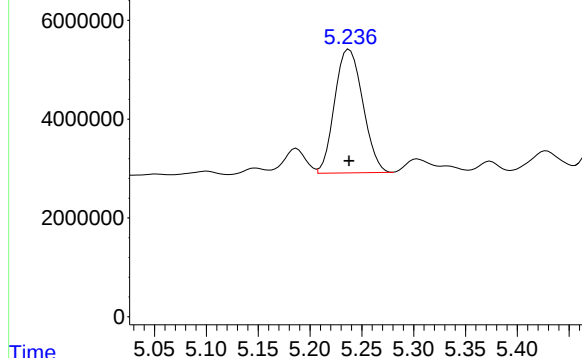
R.T.: 4.711 min
Delta R.T.: 0.000 min
Response: 44921056
Conc: 248.22 ng/ml



#23 Chlordane-1

R.T.: 3.901 min
Delta R.T.: 0.000 min
Response: 237555319
Conc: 257.22 ng/ml

Response_ Signal: PD089989.D\ECD1A.ch

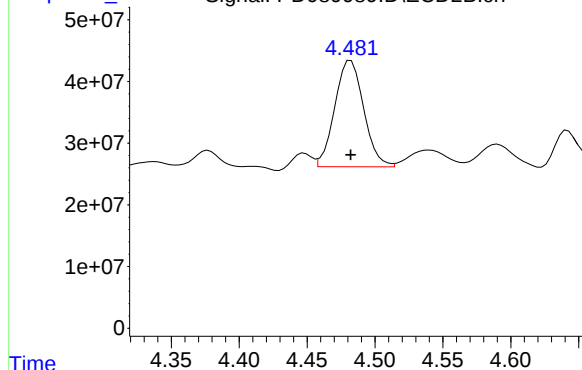


#24 Chlordane-2

R.T.: 5.238 min
Delta R.T.: 0.000 min
Response: 47242413
Conc: 260.08 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC250

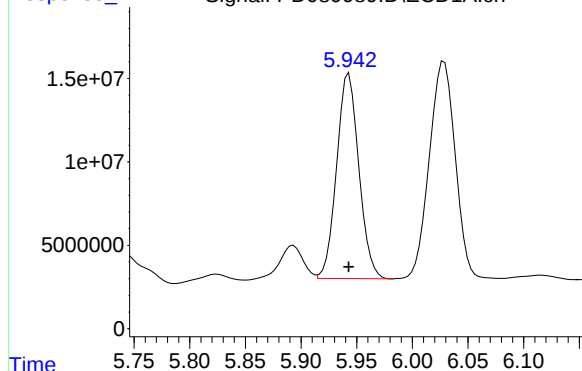
Time Response_ Signal: PD089989.D\ECD2B.ch



#24 Chlordane-2

R.T.: 4.482 min
Delta R.T.: 0.000 min
Response: 255011985
Conc: 265.83 ng/ml

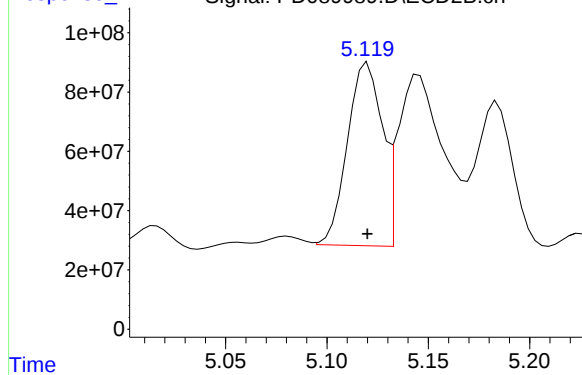
Time Response_ Signal: PD089989.D\ECD1A.ch



#25 Chlordane-3

R.T.: 5.943 min
Delta R.T.: 0.000 min
Response: 170564875
Conc: 236.90 ng/ml

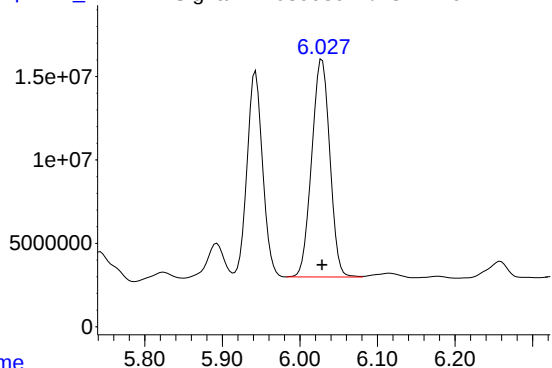
Time Response_ Signal: PD089989.D\ECD2B.ch



#25 Chlordane-3

R.T.: 5.120 min
Delta R.T.: 0.000 min
Response: 735283180
Conc: 258.23 ng/ml

Response_ Signal: PD089989.D\ECD1A.ch

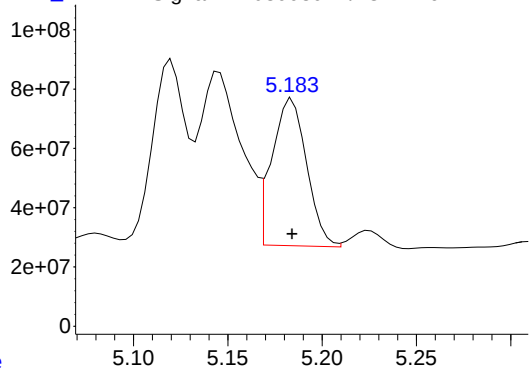


#26 Chlordane-4

R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 211835785
Conc: 242.64 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC250

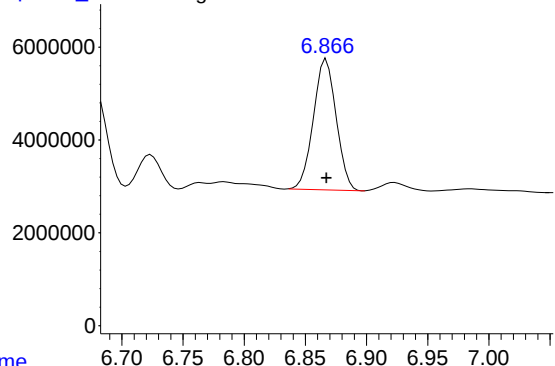
Time Response_ Signal: PD089989.D\ECD2B.ch



#26 Chlordane-4

R.T.: 5.184 min
Delta R.T.: 0.000 min
Response: 635200327
Conc: 259.48 ng/ml

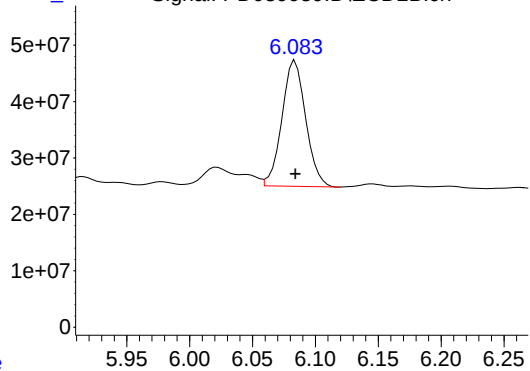
Time Response_ Signal: PD089989.D\ECD1A.ch



#27 Chlordane-5

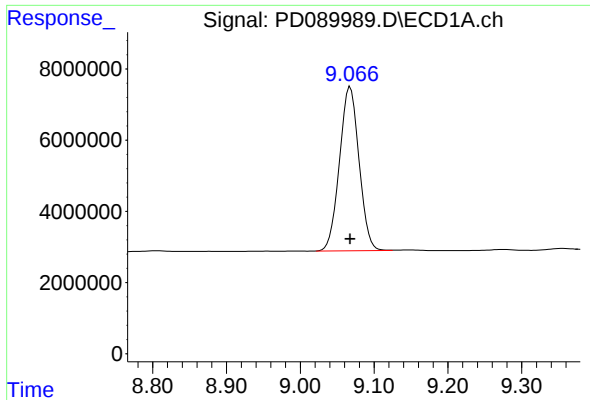
R.T.: 6.867 min
Delta R.T.: 0.000 min
Response: 36496936
Conc: 247.50 ng/ml

Time Response_ Signal: PD089989.D\ECD2B.ch



#27 Chlordane-5

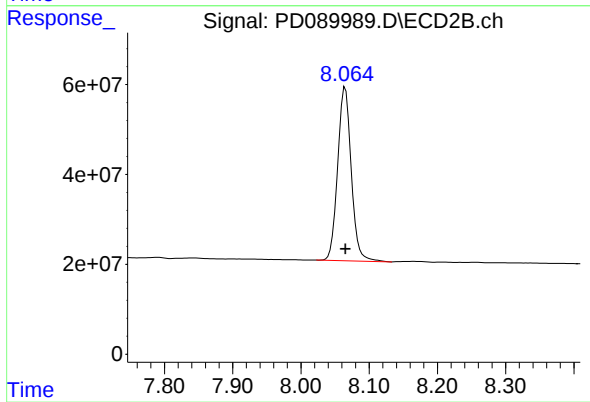
R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 293326941
Conc: 257.40 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.068 min
Delta R.T.: 0.000 min
Response: 84712007
Conc: 27.05 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC250



#28 Decachlorobiphenyl

R.T.: 8.065 min
Delta R.T.: 0.000 min
Response: 535080575
Conc: 26.71 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
 Data File : PD089990.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Aug 2025 11:51
 Operator : AR\AJ
 Sample : PCHLORICC050
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PCHLORICC050

Manual Integrations APPROVED

Reviewed By : Abdul Mirza 08/20/2025
 Supervised By : mohammad ahmed 08/22/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 19 13:12:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
 Quant Title : GC Extractables
 QLast Update : Tue Aug 19 13:03:08 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.548	2.877	8167709	77387807	3.980	3.946
28) SA Decachlor...	9.067	8.065	16335402	105.9E6	5.171	5.301
Target Compounds						
23) Chlordane-1	4.710	3.901	6741447	37525313	39.213m	42.214
24) Chlordane-2	5.238	4.482	7675996	47628411	43.608	50.950
25) Chlordane-3	5.942	5.120	25553823	123.3E6	37.679	44.481
26) Chlordane-4	6.028	5.184	32953372	112.1E6	39.691	46.591
27) Chlordane-5	6.867	6.083	5546188	47074152	39.571	42.796

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
Data File : PD089990.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Aug 2025 11:51
Operator : AR\AJ
Sample : PCHLORICC050
Misc :
ALS Vial : 9 Sample Multiplier: 1

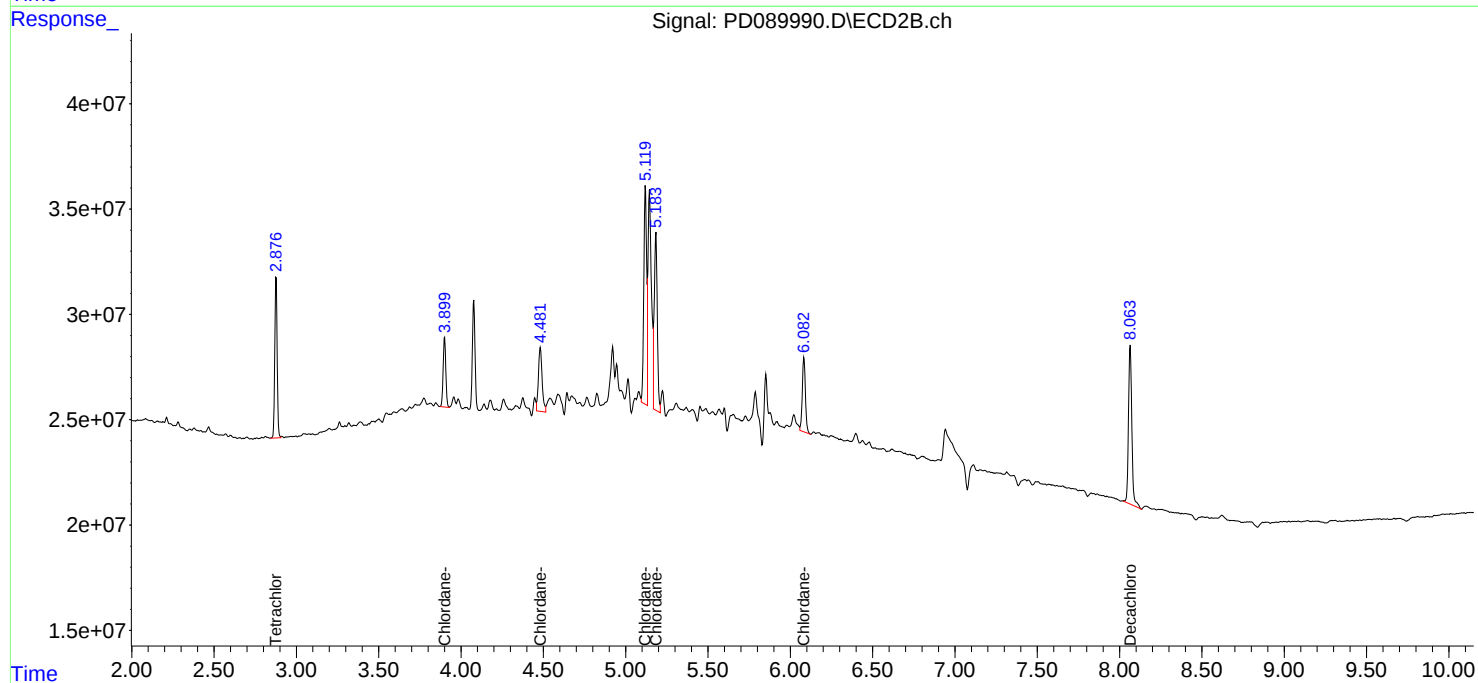
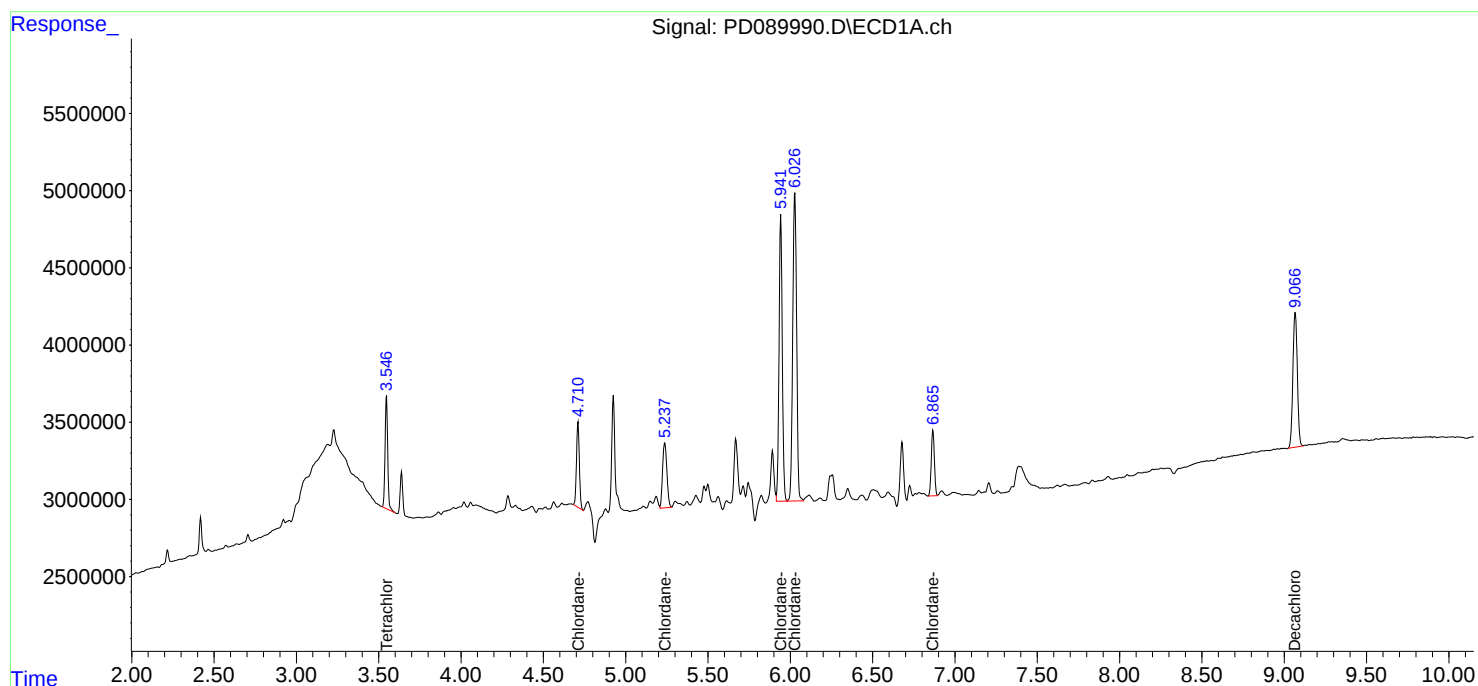
Instrument :
ECD_D
ClientSampleId :
PCHLORICC050

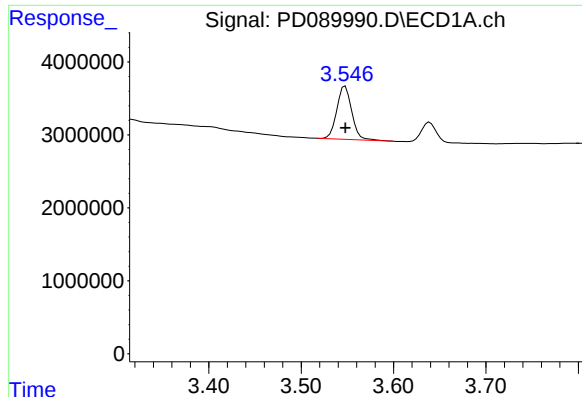
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 08/20/2025
Supervised By :mohammad ahmed 08/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:12:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:03:08 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#1 Tetrachloro-m-xylene

R.T.: 3.548 min
Delta R.T.: 0.000 min
Response: 8167709
Conc: 3.98 ng/ml

Instrument :

ECD_D

ClientSampleId :

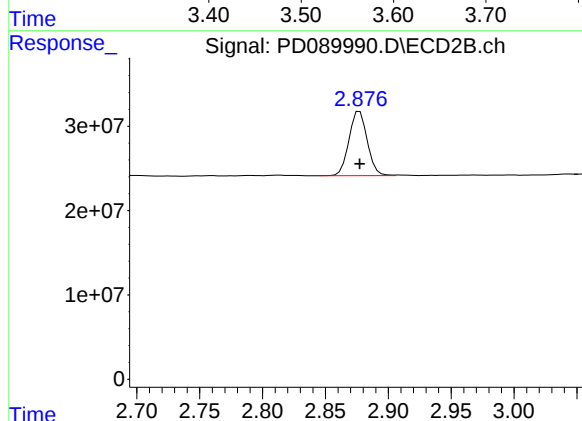
PCHLORICC050

Manual Integrations

APPROVED

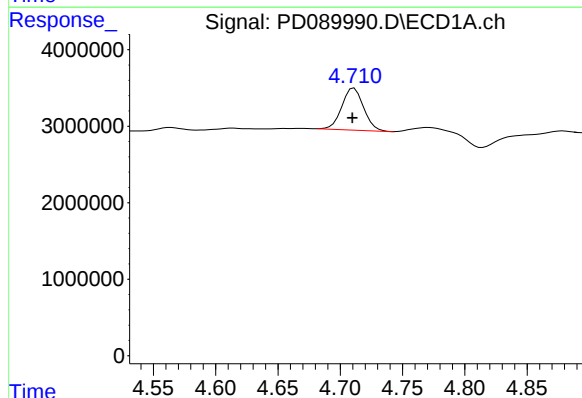
Reviewed By :Abdul Mirza 08/20/2025

Supervised By :mohammad ahmed 08/22/2025



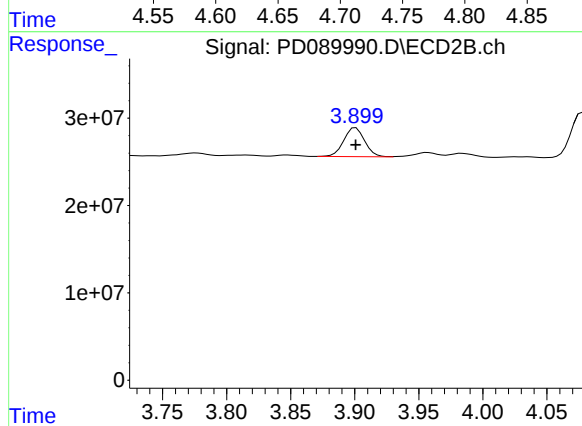
#1 Tetrachloro-m-xylene

R.T.: 2.877 min
Delta R.T.: 0.000 min
Response: 77387807
Conc: 3.95 ng/ml



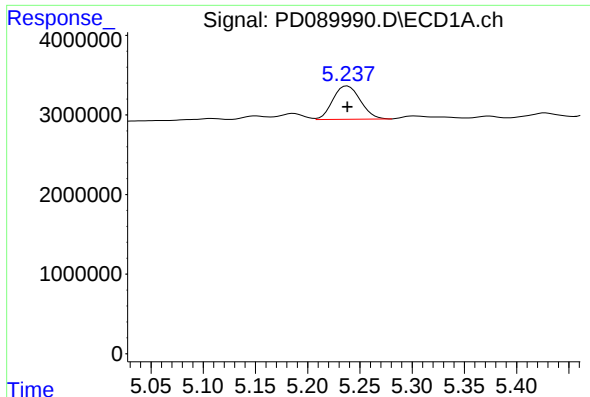
#23 Chlordane-1

R.T.: 4.710 min
Delta R.T.: 0.000 min
Response: 6741447
Conc: 39.21 ng/ml m



#23 Chlordane-1

R.T.: 3.901 min
Delta R.T.: 0.000 min
Response: 37525313
Conc: 42.21 ng/ml



#24 Chlordane-2

R.T.: 5.238 min
Delta R.T.: 0.000 min
Response: 7675996
Conc: 43.61 ng/ml

Instrument :

ECD_D

ClientSampleId :

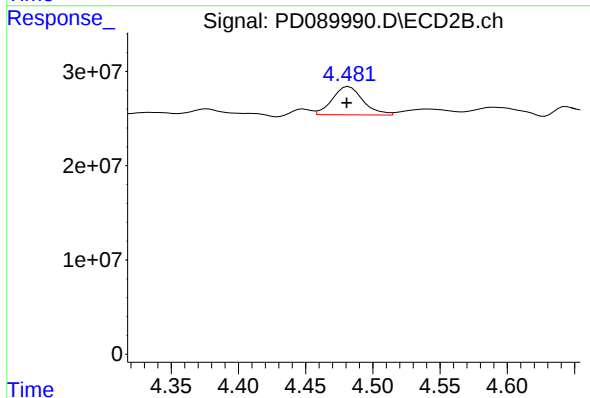
PCHLORICC050

Manual Integrations

APPROVED

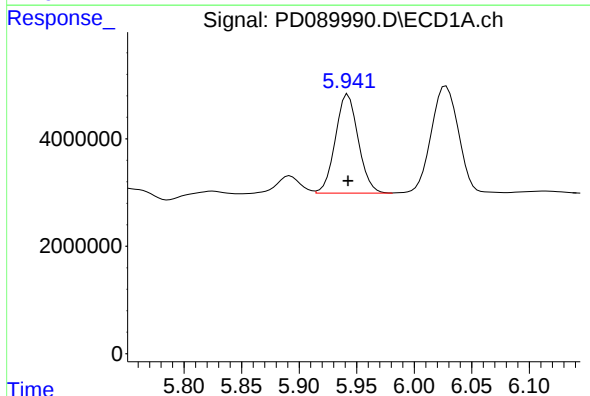
Reviewed By :Abdul Mirza 08/20/2025

Supervised By :mohammad ahmed 08/22/2025



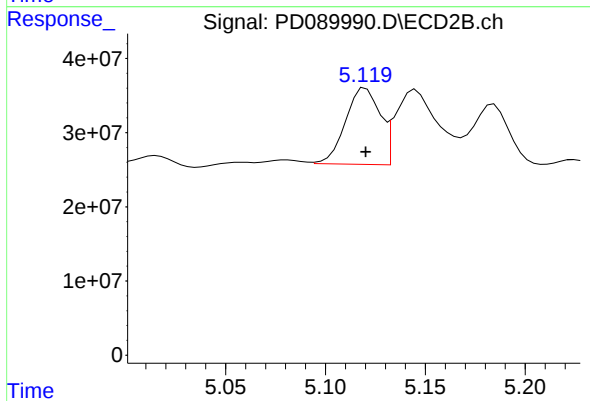
#24 Chlordane-2

R.T.: 4.482 min
Delta R.T.: 0.001 min
Response: 47628411
Conc: 50.95 ng/ml



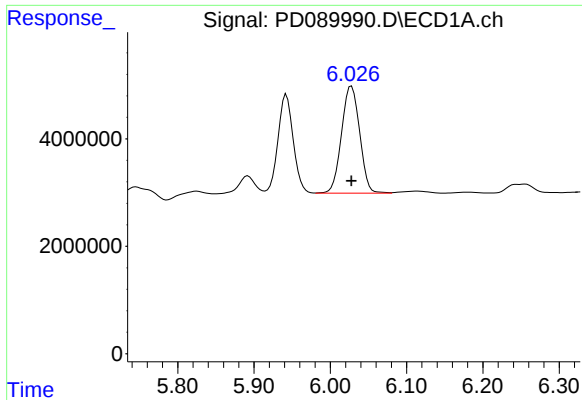
#25 Chlordane-3

R.T.: 5.942 min
Delta R.T.: 0.000 min
Response: 25553823
Conc: 37.68 ng/ml



#25 Chlordane-3

R.T.: 5.120 min
Delta R.T.: 0.000 min
Response: 123256281
Conc: 44.48 ng/ml



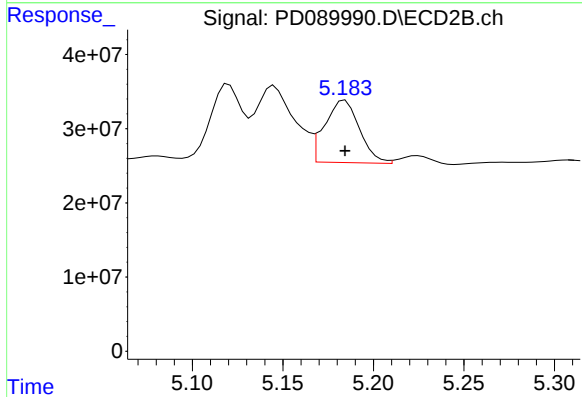
#26 Chlordane-4

R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 32953372
Conc: 39.69 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC050

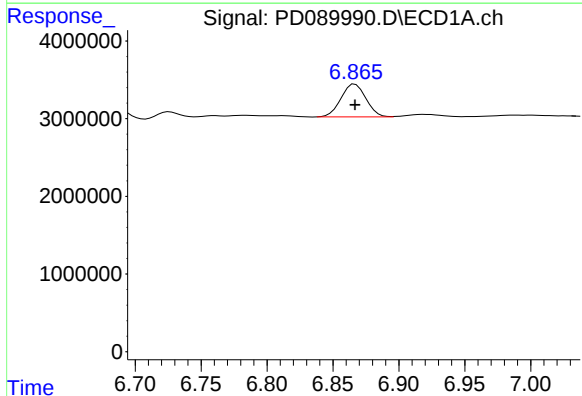
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 08/20/2025
Supervised By :mohammad ahmed 08/22/2025



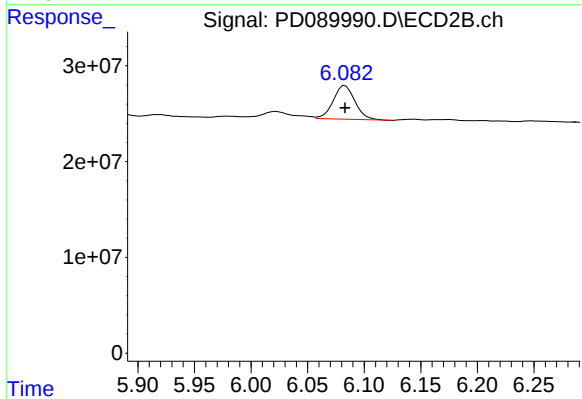
#26 Chlordane-4

R.T.: 5.184 min
Delta R.T.: 0.000 min
Response: 112141390
Conc: 46.59 ng/ml



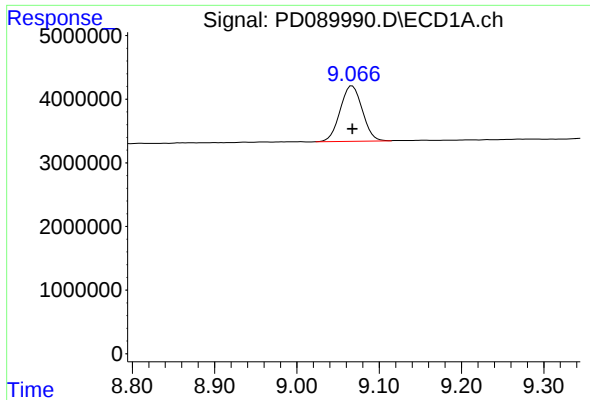
#27 Chlordane-5

R.T.: 6.867 min
Delta R.T.: 0.000 min
Response: 5546188
Conc: 39.57 ng/ml



#27 Chlordane-5

R.T.: 6.083 min
Delta R.T.: 0.000 min
Response: 47074152
Conc: 42.80 ng/ml



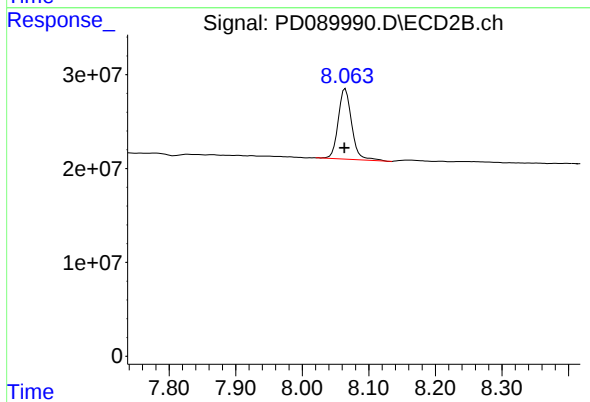
#28 Decachlorobiphenyl

R.T.: 9.067 min
Delta R.T.: 0.000 min
Response: 16335402
Conc: 5.17 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC050

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 08/20/2025
Supervised By :mohammad ahmed 08/22/2025



#28 Decachlorobiphenyl

R.T.: 8.065 min
Delta R.T.: 0.001 min
Response: 105873358
Conc: 5.30 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
 Data File : PD089991.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 19 Aug 2025 12:28
 Operator : AR\AJ
 Sample : PCHLORICV500
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 ICVPD081825CHLOR

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 19 13:14:21 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
 Quant Title : GC Extractables
 QLast Update : Tue Aug 19 13:13:05 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.548	2.876	112.7E6	1070.2E6	54.905	54.566
28)	SA Decachlor...	9.068	8.065	170.2E6	1048.6E6	53.887	51.755
Target Compounds							
23)	Chlordane-1	4.712	3.901	94572433	484.5E6	550.653	545.015
24)	Chlordane-2	5.238	4.482	94345645	518.6E6	535.989	541.327
25)	Chlordane-3	5.944	5.120	373.3E6	1483.5E6	550.391	535.367
26)	Chlordane-4	6.029	5.184	455.0E6	1296.1E6	547.973	538.483
27)	Chlordane-5	6.868	6.084	76427586	599.8E6	545.303	545.309

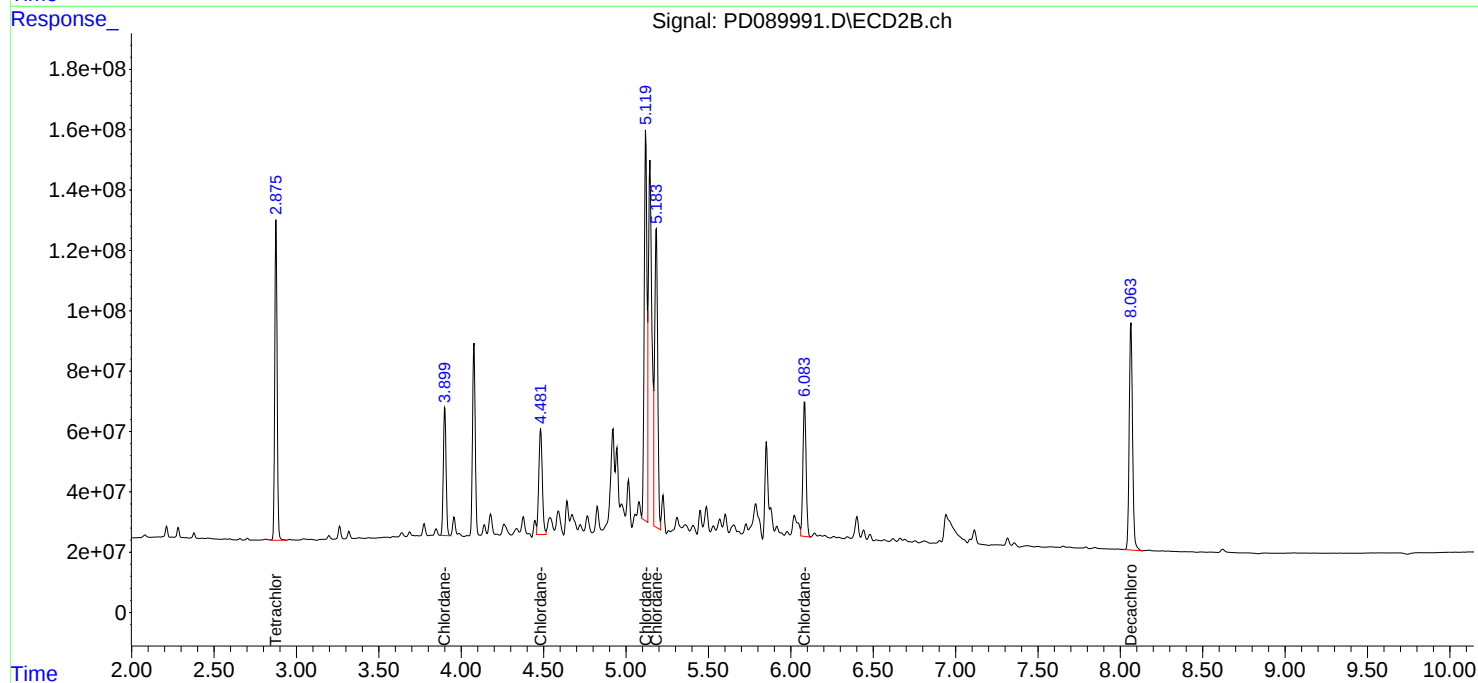
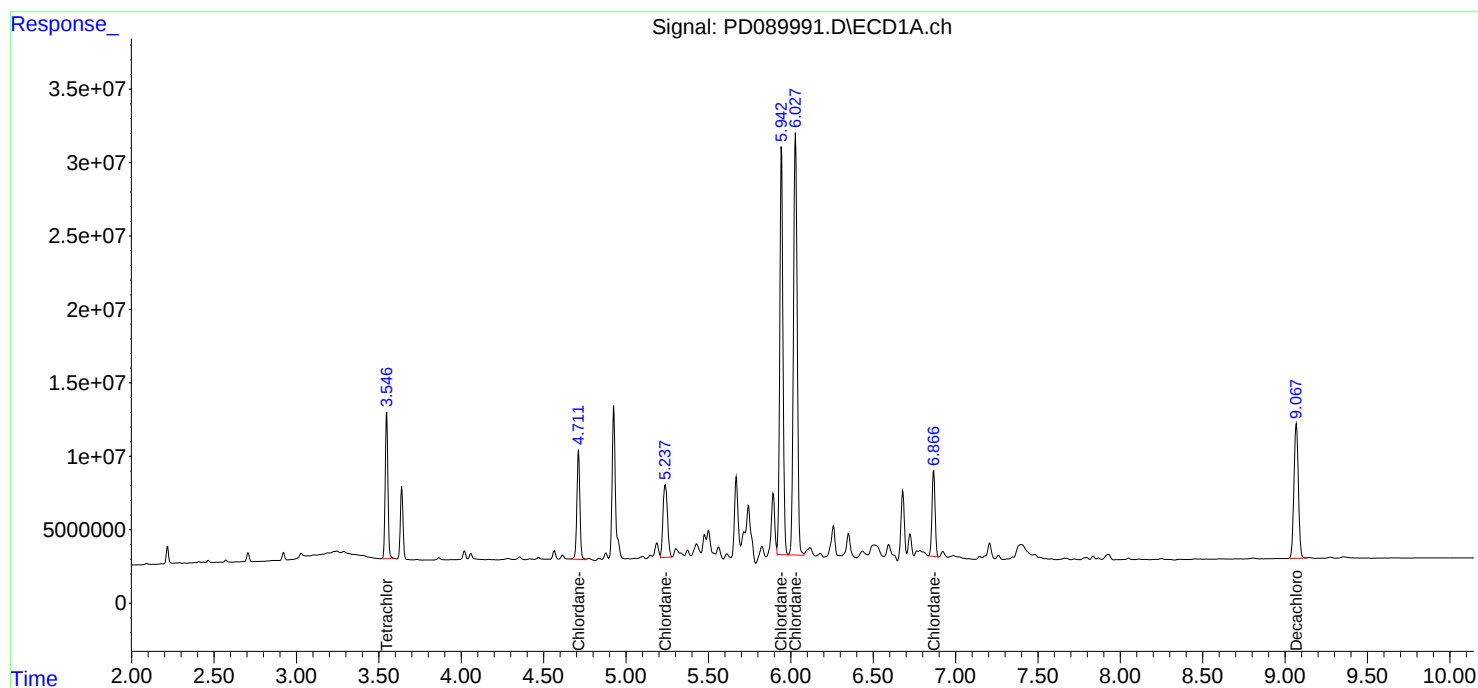
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

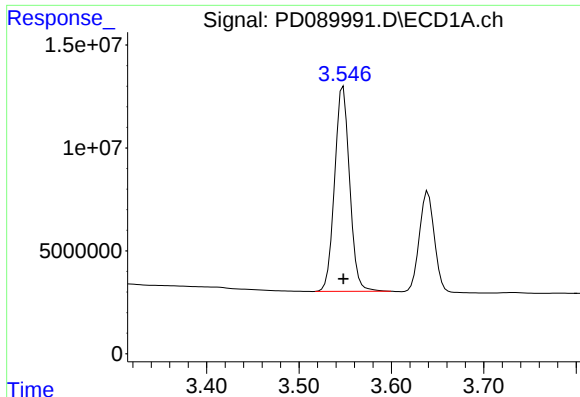
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
Data File : PD089991.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Aug 2025 12:28
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
ICVPD081825CHLOR

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 19 13:14:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:13:05 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

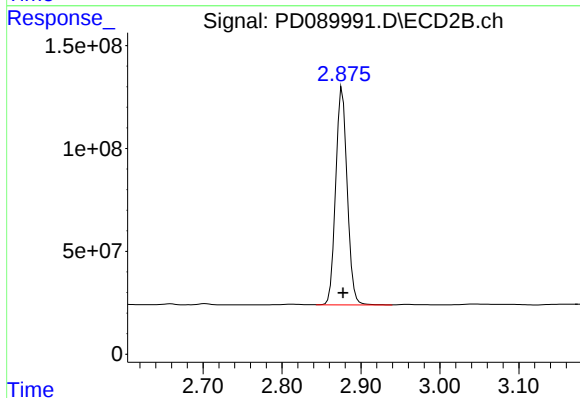




#1 Tetrachloro-m-xylene

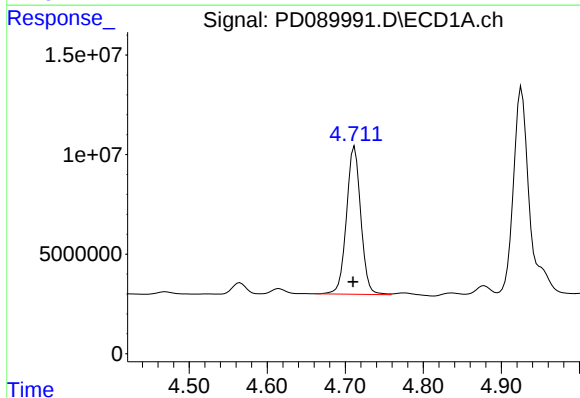
R.T.: 3.548 min
Delta R.T.: 0.000 min
Response: 112682678
Conc: 54.91 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD081825CHLOR



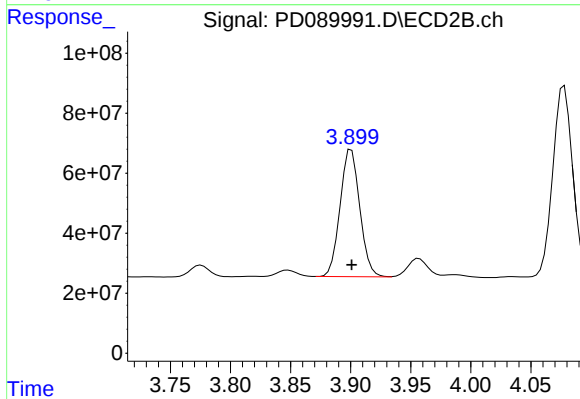
#1 Tetrachloro-m-xylene

R.T.: 2.876 min
Delta R.T.: 0.000 min
Response: 1070200805
Conc: 54.57 ng/ml



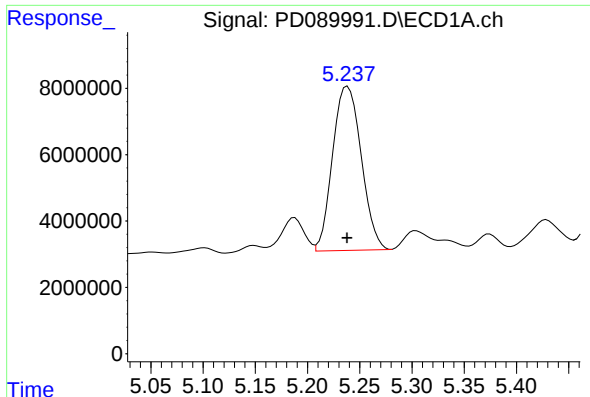
#23 Chlordane-1

R.T.: 4.712 min
Delta R.T.: 0.002 min
Response: 94572433
Conc: 550.65 ng/ml



#23 Chlordane-1

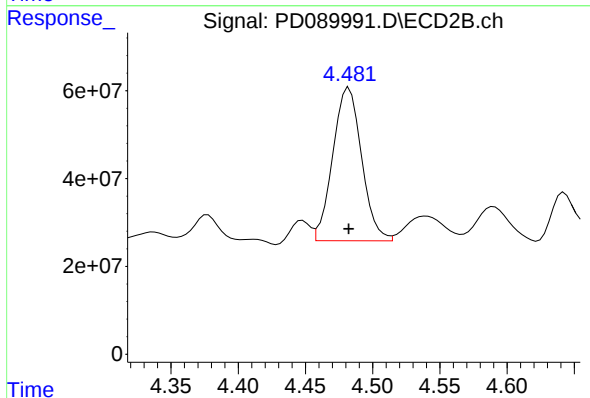
R.T.: 3.901 min
Delta R.T.: 0.000 min
Response: 484480927
Conc: 545.02 ng/ml



#24 Chlordane-2

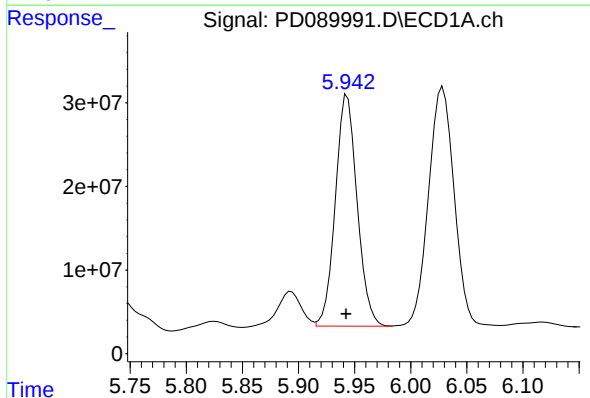
R.T.: 5.238 min
Delta R.T.: 0.000 min
Response: 94345645
Conc: 535.99 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD081825CHLOR



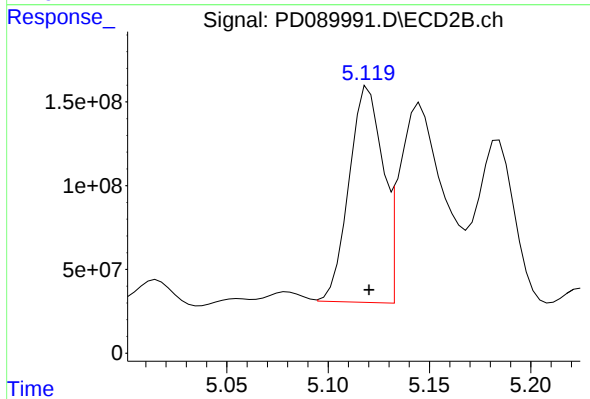
#24 Chlordane-2

R.T.: 4.482 min
Delta R.T.: 0.000 min
Response: 518566185
Conc: 541.33 ng/ml



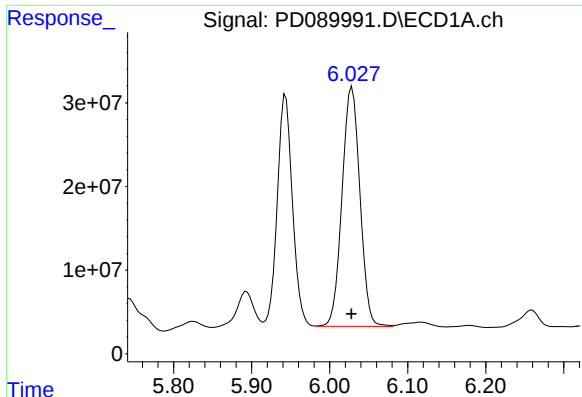
#25 Chlordane-3

R.T.: 5.944 min
Delta R.T.: 0.001 min
Response: 373277350
Conc: 550.39 ng/ml



#25 Chlordane-3

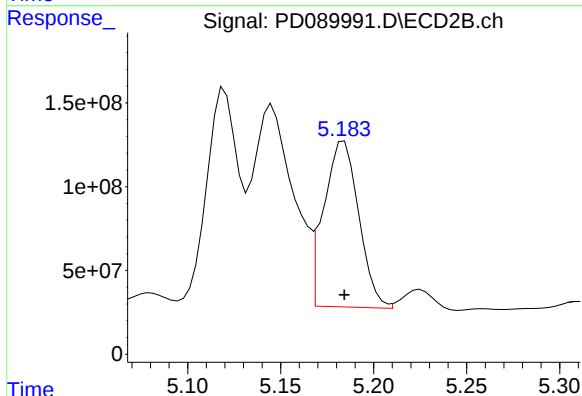
R.T.: 5.120 min
Delta R.T.: 0.000 min
Response: 1483481924
Conc: 535.37 ng/ml



#26 Chlordane-4

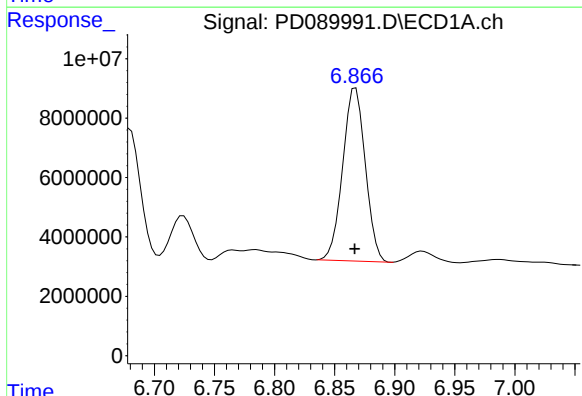
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 454952798
Conc: 547.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD081825CHLOR



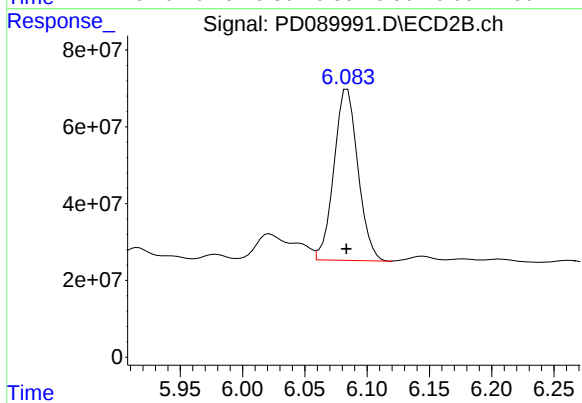
#26 Chlordane-4

R.T.: 5.184 min
Delta R.T.: 0.000 min
Response: 1296085753
Conc: 538.48 ng/ml



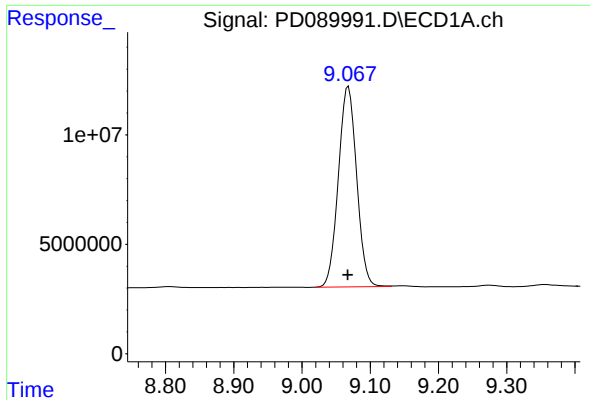
#27 Chlordane-5

R.T.: 6.868 min
Delta R.T.: 0.000 min
Response: 76427586
Conc: 545.30 ng/ml



#27 Chlordane-5

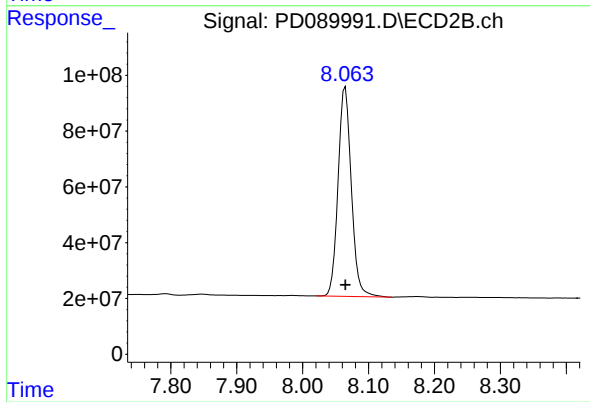
R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 599822823
Conc: 545.31 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.068 min
Delta R.T.: 0.000 min
Response: 170217257
Conc: 53.89 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD081825CHLOR



#28 Decachlorobiphenyl

R.T.: 8.065 min
Delta R.T.: 0.000 min
Response: 1048626524
Conc: 51.75 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Continuing Calib Date: 09/10/2025

Initial Calibration Date(s): 08/19/2025 08/19/2025

Continuing Calib Time: 15:41

Initial Calibration Time(s): 10:30 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Chlordane-1 (1)	4.71	4.71	4.61	4.81	0.00
Chlordane-2 (2)	5.24	5.24	5.14	5.34	0.00
Chlordane-3 (3)	5.95	5.94	5.84	6.04	-0.01
Chlordane-4 (4)	6.03	6.03	5.93	6.13	0.00
Chlordane-5 (5)	6.87	6.87	6.77	6.97	0.00
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY**Lab Name:** Alliance**Contract:** ALLI03**Lab Code:** ACE**SDG NO.:** Q3015**Continuing Calib Date:** 09/10/2025**Initial Calibration Date(s):** 08/19/2025 08/19/2025**Continuing Calib Time:** 15:41**Initial Calibration Time(s):** 10:30 11:51**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Chlordane-1 (1)	3.90	3.90	3.80	4.00	0.00
Chlordane-2 (2)	4.48	4.48	4.38	4.58	0.00
Chlordane-3 (3)	5.12	5.12	5.02	5.22	0.00
Chlordane-4 (4)	5.18	5.18	5.08	5.28	0.00
Chlordane-5 (5)	6.08	6.08	5.98	6.18	0.00
Decachlorobiphenyl	8.07	8.06	7.96	8.16	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** ALLI03
Lab Code: ACE **SDG NO.:** Q3015
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 08/18/2025 08/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 09/10/2025
Lab Sample No.: PCHLORCCC500 **Data File :** PD090222.D **Time Analyzed:** 15:41

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Chlordane-1	4.713	4.613	4.813	474.820	500.000	-5.0
Chlordane-2	5.242	5.139	5.339	519.770	500.000	4.0
Chlordane-3	5.947	5.844	6.044	520.610	500.000	4.1
Chlordane-4	6.030	5.929	6.129	532.410	500.000	6.5
Chlordane-5	6.871	6.768	6.968	552.610	500.000	10.5
Decachlorobiphenyl	9.071	8.968	9.168	42.200	50.000	-15.6
Tetrachloro-m-xylene	3.550	3.449	3.649	42.140	50.000	-15.7



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** ALLI03
Lab Code: ACE **SDG NO.:** Q3015
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 08/18/2025 08/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 09/10/2025
Lab Sample No.: PCHLORCCC500 **Data File :** PD090222.D **Time Analyzed:** 15:41

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Chlordane-1	3.900	3.801	4.001	581.700	500.000	16.3
Chlordane-2	4.481	4.382	4.582	552.020	500.000	10.4
Chlordane-3	5.120	5.020	5.220	580.760	500.000	16.2
Chlordane-4	5.184	5.084	5.284	573.250	500.000	14.7
Chlordane-5	6.084	5.984	6.184	590.240	500.000	18.0
Decachlorobiphenyl	8.065	7.964	8.164	45.470	50.000	-9.1
Tetrachloro-m-xylene	2.875	2.776	2.976	58.390	50.000	16.8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD091025\
 Data File : PD090222.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Sep 2025 15:41
 Operator : AR\AJ
 Sample : PCHLORCCC500
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PCHLORCCC500

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2025
 Supervised By :mohammad ahmed 09/16/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 11 08:20:10 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
 Quant Title : GC Extractables
 QLast Update : Tue Aug 19 13:16:54 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	2.875	123.7E6	1287.6E6	42.136	58.395 #
28)	SA Decachlor...	9.071	8.065	182.1E6	1177.1E6	42.204	45.473
Target Compounds							
23)	Chlordane-1	4.713	3.900	81548388	517.1E6	474.820m	581.701
24)	Chlordane-2	5.242	4.481	91490649	528.8E6	519.769	552.024
25)	Chlordane-3	5.947	5.120	353.1E6	1609.3E6	520.605	580.764
26)	Chlordane-4	6.030	5.184	442.0E6	1379.8E6	532.412m	573.253
27)	Chlordane-5	6.871	6.084	77451160	649.2E6	552.606	590.242

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD091025\
Data File : PD090222.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2025 15:41
Operator : AR\AJ
Sample : PCHLORCCC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PCHLORCCC500

Manual Integrations

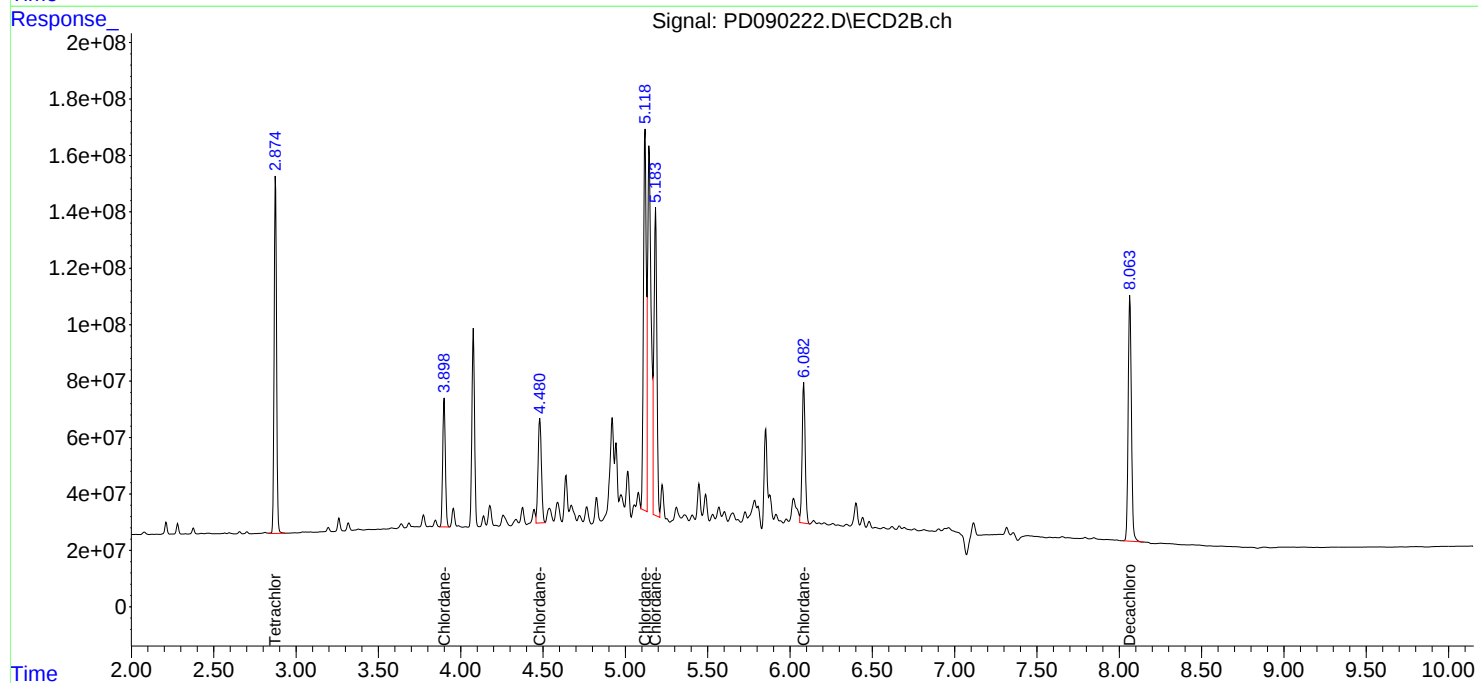
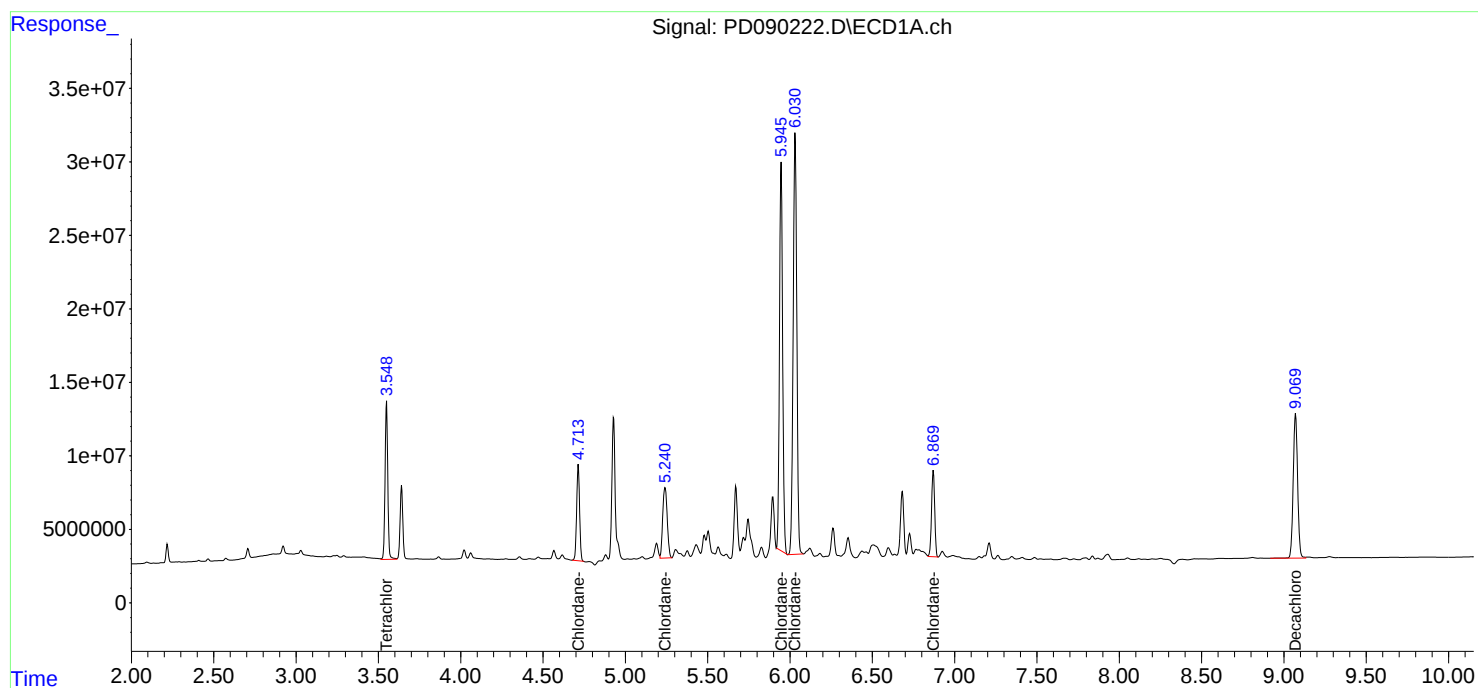
APPROVED

Reviewed By :Abdul Mirza 09/11/2025

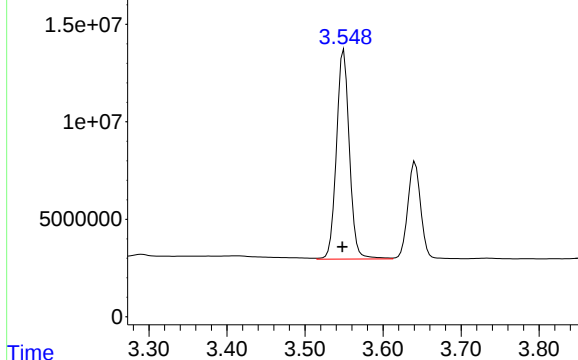
Supervised By :mohammad ahmed 09/16/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 08:20:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:16:54 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



Response_ Signal: PD090222.D\ECD1A.ch



#1 Tetrachloro-m-xylene

R.T.: 3.550 min
Delta R.T.: 0.002 min
Response: 123663224
Conc: 42.14 ng/ml

Instrument :

ECD_D

ClientSampleId :

PCHLORCCC500

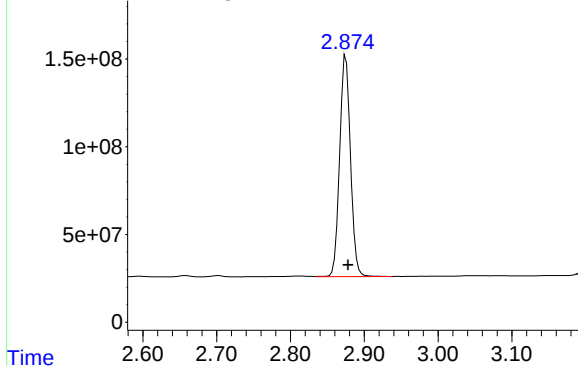
Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 09/11/2025

Supervised By :mohammad ahmed 09/16/2025

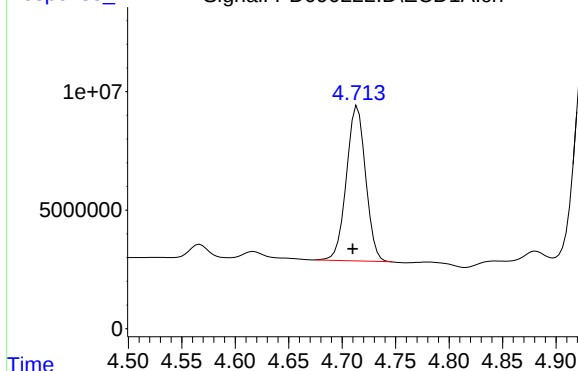
Response_ Signal: PD090222.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 2.875 min
Delta R.T.: -0.003 min
Response: 1287638278
Conc: 58.39 ng/ml

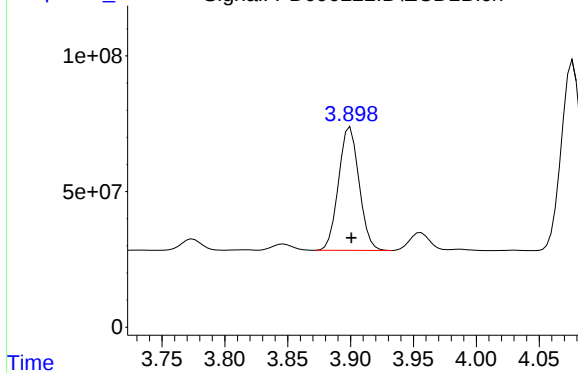
Response_ Signal: PD090222.D\ECD1A.ch



#23 Chlordane-1

R.T.: 4.713 min
Delta R.T.: 0.003 min
Response: 81548388
Conc: 474.82 ng/ml m

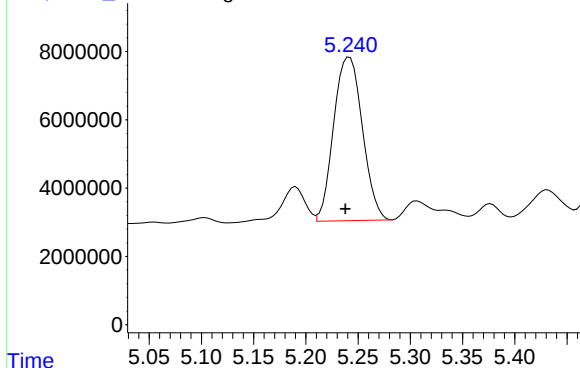
Response_ Signal: PD090222.D\ECD2B.ch



#23 Chlordane-1

R.T.: 3.900 min
Delta R.T.: -0.001 min
Response: 517091994
Conc: 581.70 ng/ml

Response_ Signal: PD090222.D\ECD1A.ch



#24 Chlordane-2

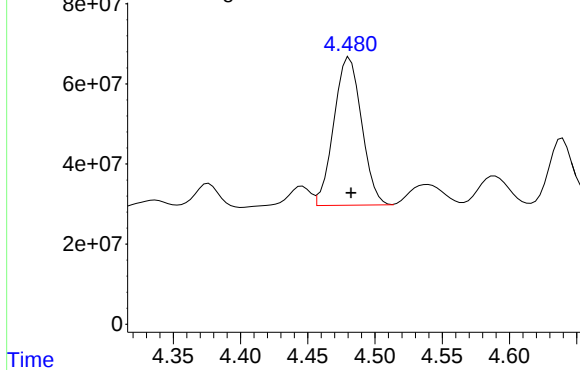
R.T.: 5.242 min
Delta R.T.: 0.004 min
Response: 91490649
Conc: 519.77 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORCCC500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025

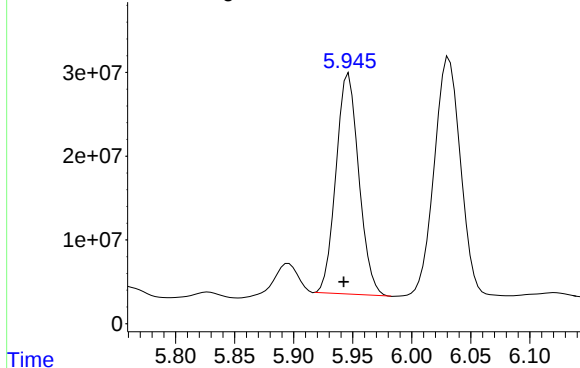
Response_ Signal: PD090222.D\ECD2B.ch



#24 Chlordane-2

R.T.: 4.481 min
Delta R.T.: -0.001 min
Response: 528812640
Conc: 552.02 ng/ml

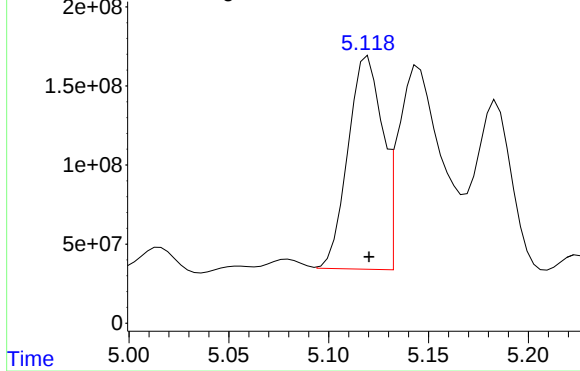
Response_ Signal: PD090222.D\ECD1A.ch



#25 Chlordane-3

R.T.: 5.947 min
Delta R.T.: 0.004 min
Response: 353076233
Conc: 520.61 ng/ml

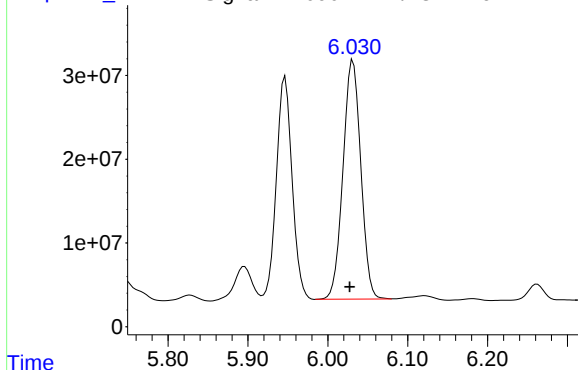
Response_ Signal: PD090222.D\ECD2B.ch



#25 Chlordane-3

R.T.: 5.120 min
Delta R.T.: 0.000 min
Response: 1609277231
Conc: 580.76 ng/ml

Response_ Signal: PD090222.D\ECD1A.ch



#26 Chlordane-4

R.T.: 6.030 min
Delta R.T.: 0.002 min
Response: 442033504
Conc: 532.41 ng/ml

Instrument :

ECD_D

ClientSampleId :

PCHLORCCC500

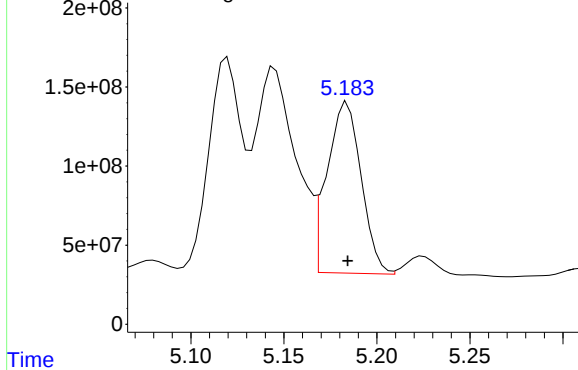
Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 09/11/2025

Supervised By :mohammad ahmed 09/16/2025

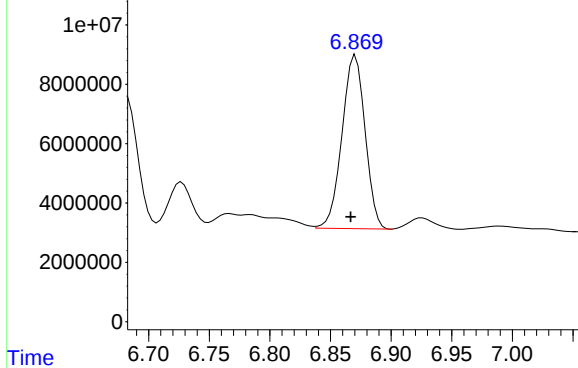
Response_ Signal: PD090222.D\ECD2B.ch



#26 Chlordane-4

R.T.: 5.184 min
Delta R.T.: 0.000 min
Response: 1379775619
Conc: 573.25 ng/ml

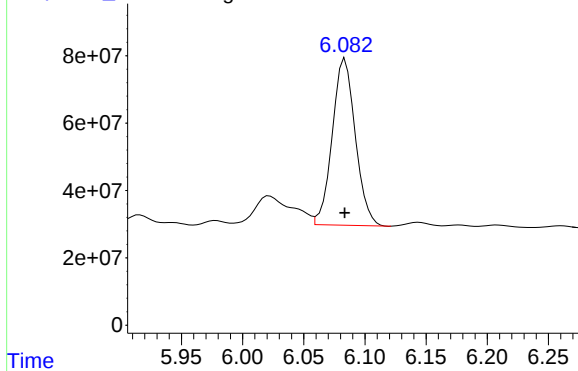
Response_ Signal: PD090222.D\ECD1A.ch



#27 Chlordane-5

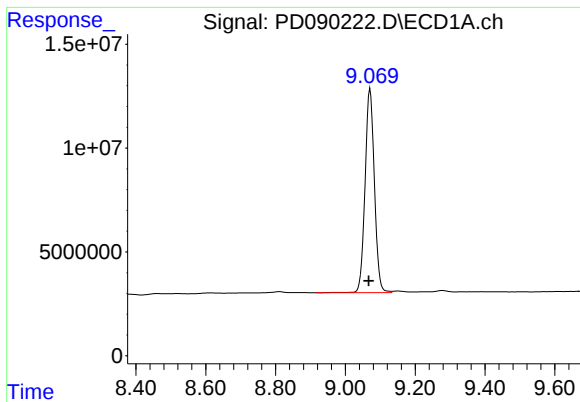
R.T.: 6.871 min
Delta R.T.: 0.004 min
Response: 77451160
Conc: 552.61 ng/ml

Response_ Signal: PD090222.D\ECD2B.ch



#27 Chlordane-5

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 649247933
Conc: 590.24 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.071 min
Delta R.T.: 0.004 min
Response: 182148037
Conc: 42.20 ng/ml

Instrument :

ECD_D

ClientSampleId :

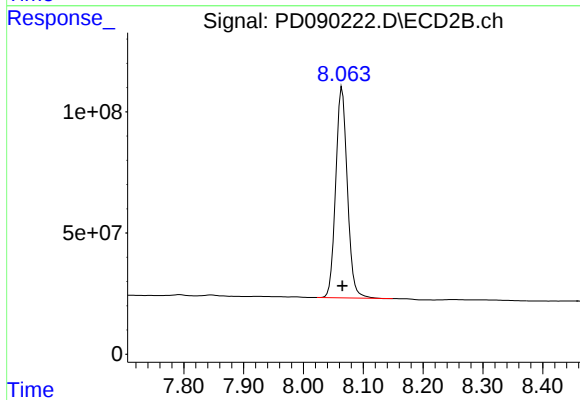
PCHLORCCC500

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 09/11/2025

Supervised By :mohammad ahmed 09/16/2025



#28 Decachlorobiphenyl

R.T.: 8.065 min
Delta R.T.: 0.000 min
Response: 1177117684
Conc: 45.47 ng/ml



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

CALIBRATION VERIFICATION SUMMARY**Lab Name:** Alliance**Contract:** ALLI03**Lab Code:** ACE**SDG NO.:** Q3015**Continuing Calib Date:** 09/10/2025**Initial Calibration Date(s):** 08/19/2025 08/19/2025**Continuing Calib Time:** 18:38**Initial Calibration Time(s):** 10:30 11:51**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Chlordane-1 (1)	4.71	4.71	4.61	4.81	0.00
Chlordane-2 (2)	5.24	5.24	5.14	5.34	0.00
Chlordane-3 (3)	5.94	5.94	5.84	6.04	0.00
Chlordane-4 (4)	6.03	6.03	5.93	6.13	0.00
Chlordane-5 (5)	6.87	6.87	6.77	6.97	0.00
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00



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

CALIBRATION VERIFICATION SUMMARY**Lab Name:** Alliance**Contract:** ALLI03**Lab Code:** ACE**SDG NO.:** Q3015**Continuing Calib Date:** 09/10/2025**Initial Calibration Date(s):** 08/19/2025 08/19/2025**Continuing Calib Time:** 18:38**Initial Calibration Time(s):** 10:30 11:51**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Chlordane-1 (1)	3.90	3.90	3.80	4.00	0.00
Chlordane-2 (2)	4.48	4.48	4.38	4.58	0.00
Chlordane-3 (3)	5.12	5.12	5.02	5.22	0.00
Chlordane-4 (4)	5.18	5.18	5.08	5.28	0.00
Chlordane-5 (5)	6.08	6.08	5.98	6.18	0.00
Decachlorobiphenyl	8.06	8.06	7.96	8.16	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** ALLI03
Lab Code: ACE **SDG NO.:** Q3015
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 08/18/2025 08/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 09/10/2025
Lab Sample No.: PCHLORCCC500 **Data File :** PD090234.D **Time Analyzed:** 18:38

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Chlordane-1	4.709	4.613	4.813	541.810	500.000	8.4
Chlordane-2	5.236	5.139	5.339	515.740	500.000	3.1
Chlordane-3	5.941	5.844	6.044	531.370	500.000	6.3
Chlordane-4	6.027	5.929	6.129	515.080	500.000	3.0
Chlordane-5	6.866	6.768	6.968	545.600	500.000	9.1
Decachlorobiphenyl	9.066	8.968	9.168	41.150	50.000	-17.7
Tetrachloro-m-xylene	3.546	3.449	3.649	42.490	50.000	-15.0



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** ALLI03
Lab Code: ACE **SDG NO.:** Q3015
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 08/18/2025 08/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 09/10/2025
Lab Sample No.: PCHLORCCC500 **Data File :** PD090234.D **Time Analyzed:** 18:38

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Chlordane-1	3.900	3.801	4.001	584.670	500.000	16.9
Chlordane-2	4.481	4.382	4.582	557.170	500.000	11.4
Chlordane-3	5.119	5.020	5.220	582.070	500.000	16.4
Chlordane-4	5.183	5.084	5.284	569.480	500.000	13.9
Chlordane-5	6.083	5.984	6.184	590.220	500.000	18.0
Decachlorobiphenyl	8.064	7.964	8.164	45.570	50.000	-8.9
Tetrachloro-m-xylene	2.876	2.776	2.976	57.490	50.000	15.0

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD091025\
 Data File : PD090234.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Sep 2025 18:38
 Operator : AR\AJ
 Sample : PCHLORCCC500
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_D
 ClientSampleId :
 PCHLORCCC500

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/11/2025
 Supervised By :mohammad ahmed 09/16/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 11 08:21:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
 Quant Title : GC Extractables
 QLast Update : Tue Aug 19 13:16:54 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...	3.546	2.876	124.7E6	1267.6E6	42.494	57.486 #
28)	SA Decachlor...	9.066	8.064	177.6E6	1179.6E6	41.146	45.568
Target Compounds							
23)	Chlordane-1	4.709	3.900	93054091	519.7E6	541.812m	584.672
24)	Chlordane-2	5.236	4.481	90780916	533.7E6	515.737	557.173
25)	Chlordane-3	5.941	5.119	360.4E6	1612.9E6	531.366m	582.072
26)	Chlordane-4	6.027	5.183	427.6E6	1370.7E6	515.079	569.483
27)	Chlordane-5	6.866	6.083	76468988	649.2E6	545.598	590.223

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD091025\
Data File : PD090234.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2025 18:38
Operator : AR\AJ
Sample : PCHLORCCC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PCHLORCCC500

Manual Integrations

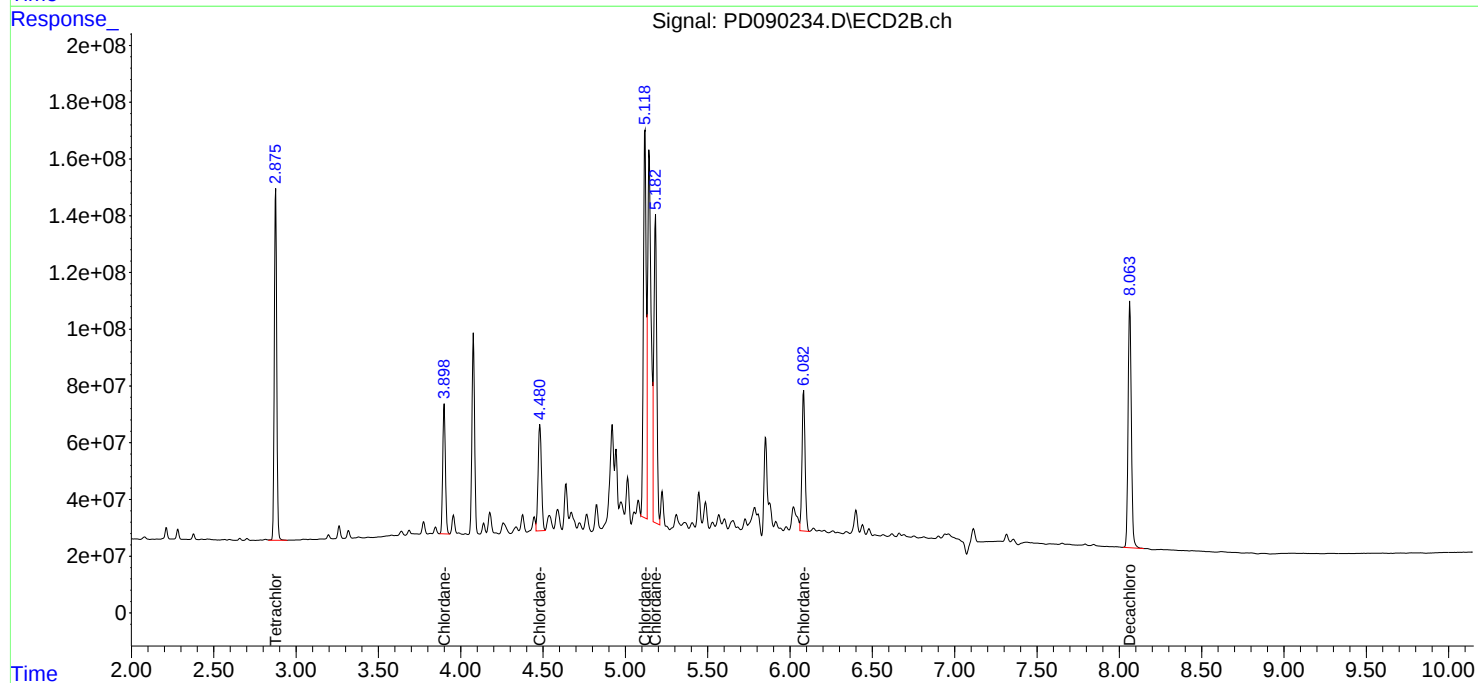
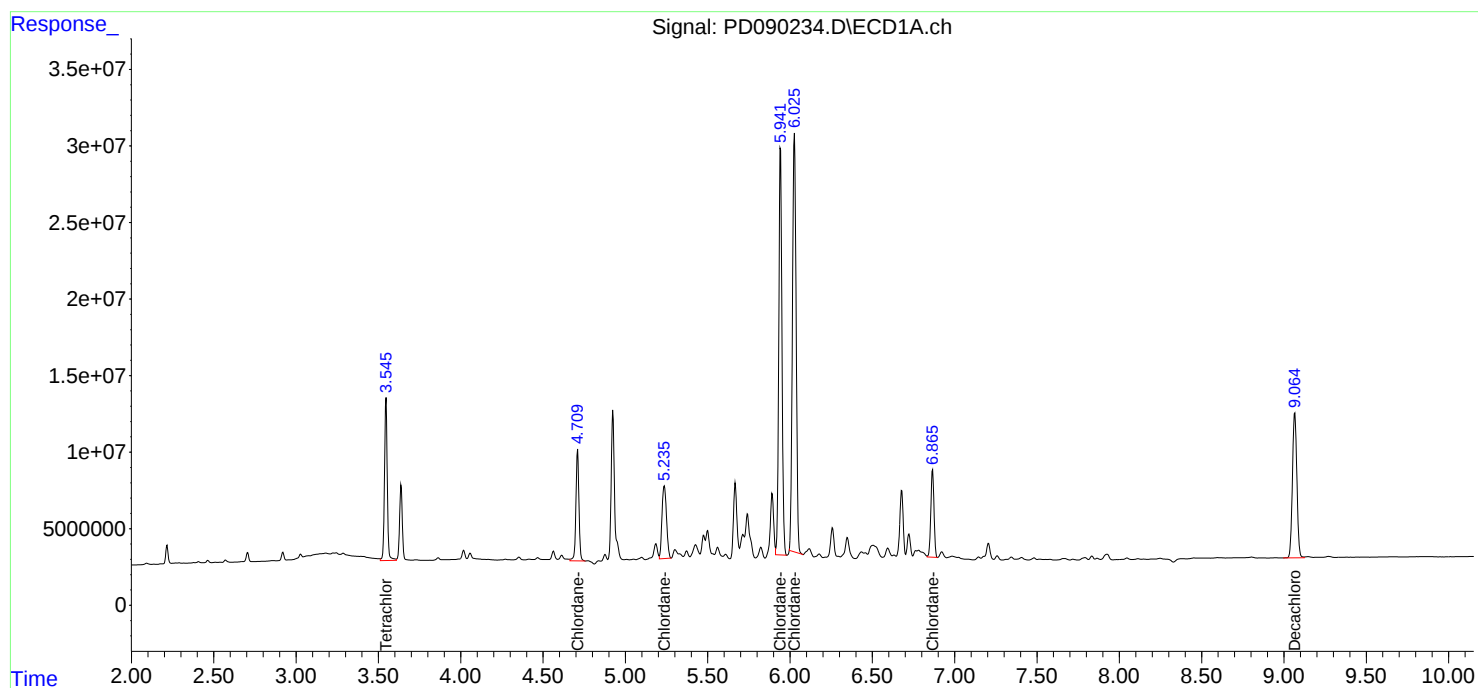
APPROVED

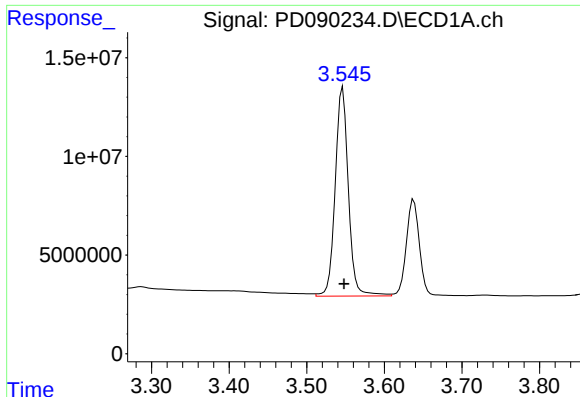
Reviewed By :Abdul Mirza 09/11/2025

Supervised By :mohammad ahmed 09/16/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 08:21:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:16:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#1 Tetrachloro-m-xylene

R.T.: 3.546 min
Delta R.T.: -0.002 min
Response: 124714270
Conc: 42.49 ng/ml

Instrument :

ECD_D

ClientSampleId :

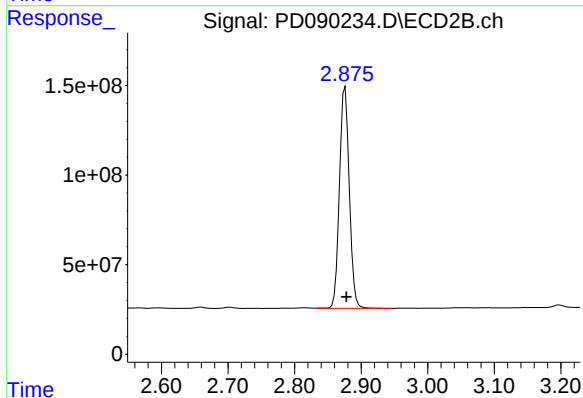
PCHLORCCC500

Manual Integrations

APPROVED

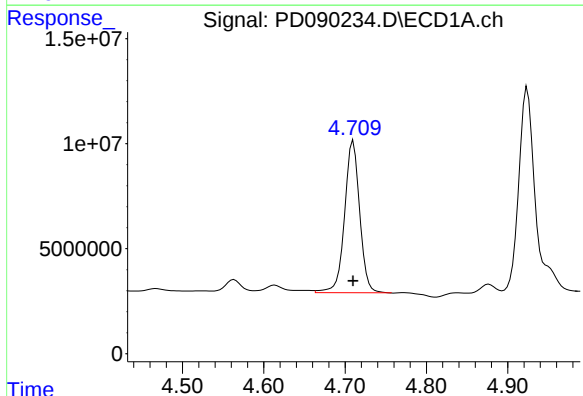
Reviewed By :Abdul Mirza 09/11/2025

Supervised By :mohammad ahmed 09/16/2025



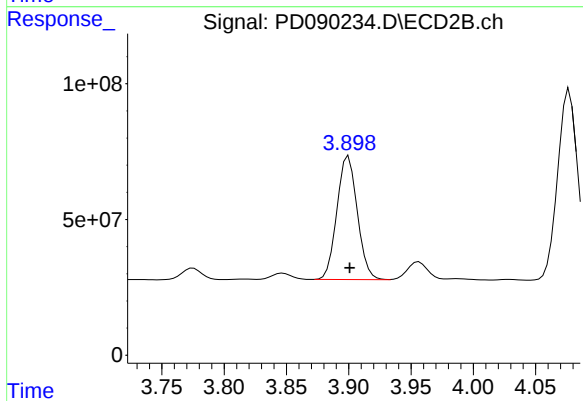
#1 Tetrachloro-m-xylene

R.T.: 2.876 min
Delta R.T.: -0.002 min
Response: 1267603089
Conc: 57.49 ng/ml



#23 Chlordane-1

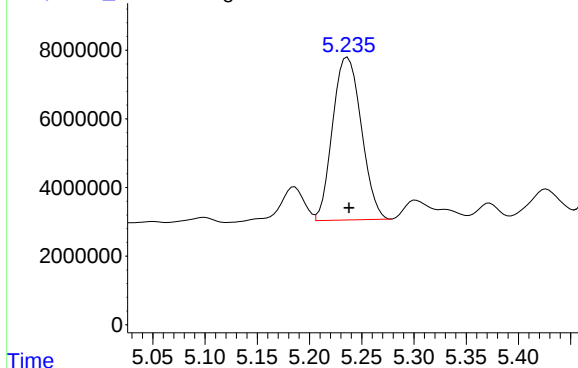
R.T.: 4.709 min
Delta R.T.: -0.001 min
Response: 93054091
Conc: 541.81 ng/ml m



#23 Chlordane-1

R.T.: 3.900 min
Delta R.T.: -0.001 min
Response: 519733285
Conc: 584.67 ng/ml

Response_ Signal: PD090234.D\ECD1A.ch



#24 Chlordane-2

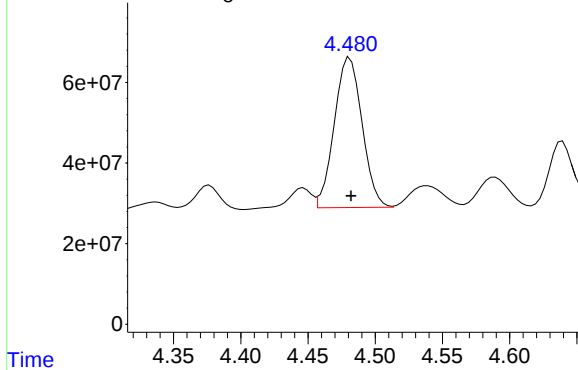
R.T.: 5.236 min
Delta R.T.: -0.002 min
Response: 90780916
Conc: 515.74 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORCCC500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025

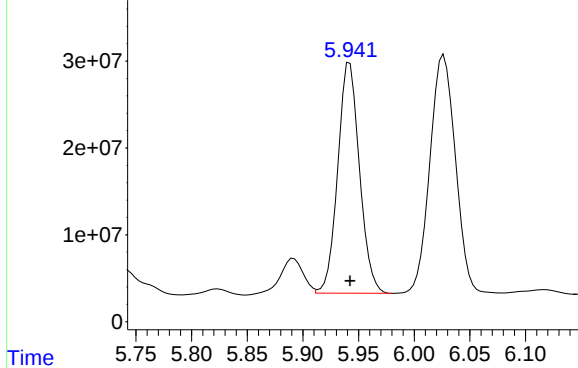
Response_ Signal: PD090234.D\ECD2B.ch



#24 Chlordane-2

R.T.: 4.481 min
Delta R.T.: -0.001 min
Response: 533745342
Conc: 557.17 ng/ml

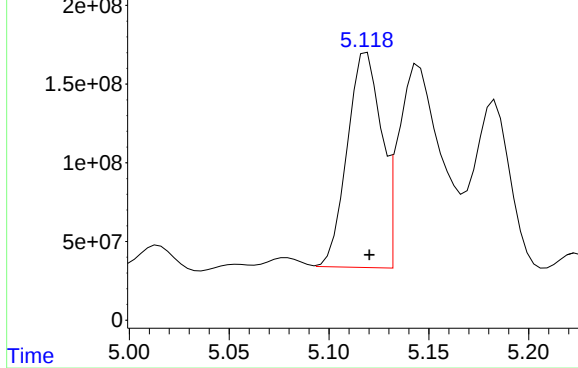
Response_ Signal: PD090234.D\ECD1A.ch



#25 Chlordane-3

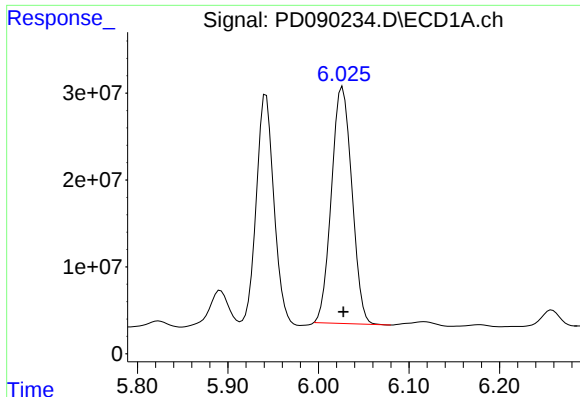
R.T.: 5.941 min
Delta R.T.: -0.002 min
Response: 360374357
Conc: 531.37 ng/ml m

Response_ Signal: PD090234.D\ECD2B.ch



#25 Chlordane-3

R.T.: 5.119 min
Delta R.T.: -0.001 min
Response: 1612899387
Conc: 582.07 ng/ml



#26 Chlordane-4

R.T.: 6.027 min
Delta R.T.: 0.000 min
Response: 427643127
Conc: 515.08 ng/ml

Instrument :

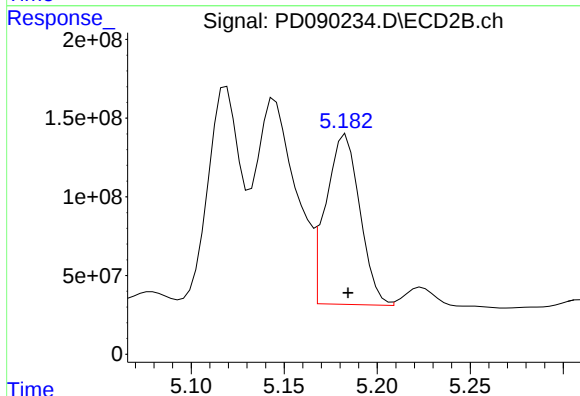
ECD_D

ClientSampleId :

PCHLORCCC500

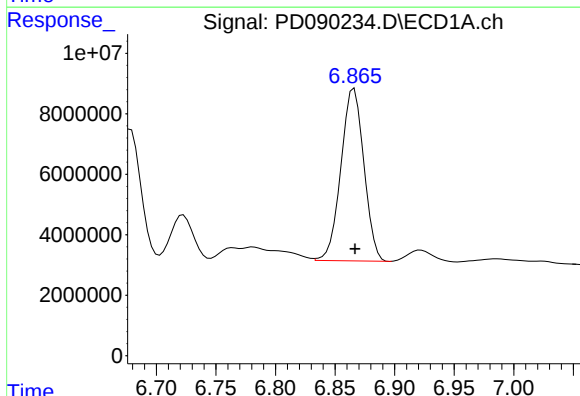
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025



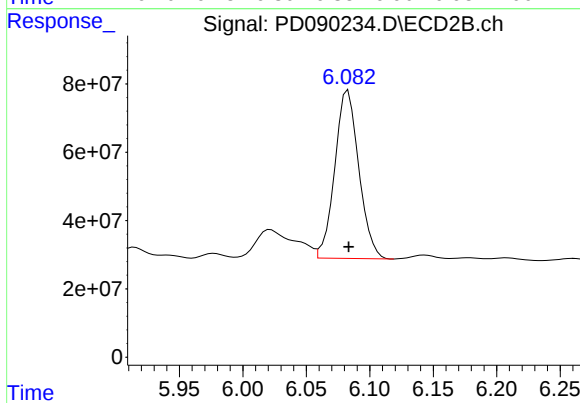
#26 Chlordane-4

R.T.: 5.183 min
Delta R.T.: -0.001 min
Response: 1370701440
Conc: 569.48 ng/ml



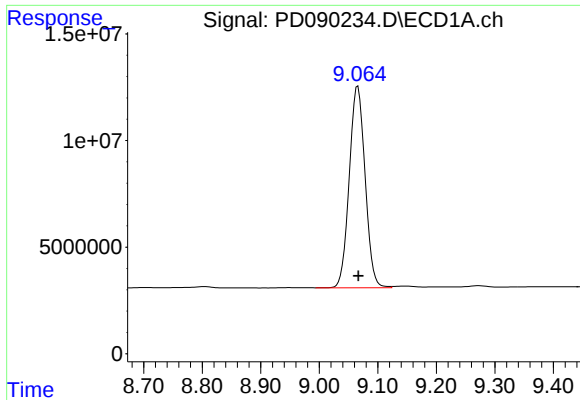
#27 Chlordane-5

R.T.: 6.866 min
Delta R.T.: 0.000 min
Response: 76468988
Conc: 545.60 ng/ml



#27 Chlordane-5

R.T.: 6.083 min
Delta R.T.: 0.000 min
Response: 649227426
Conc: 590.22 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.066 min
Delta R.T.: -0.001 min
Response: 177582461
Conc: 41.15 ng/ml

Instrument :

ECD_D

ClientSampleId :

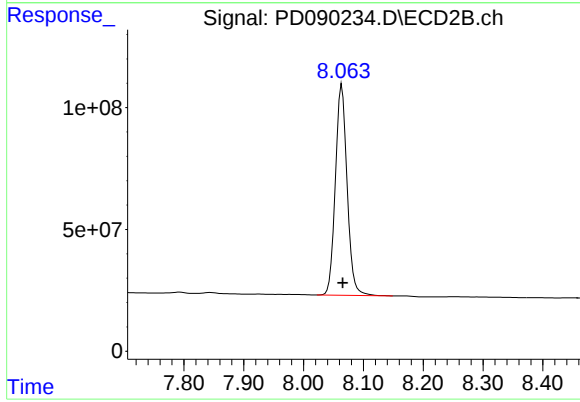
PCHLORCCC500

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 09/11/2025

Supervised By :mohammad ahmed 09/16/2025



#28 Decachlorobiphenyl

R.T.: 8.064 min
Delta R.T.: -0.001 min
Response: 1179562247
Conc: 45.57 ng/ml

Analytical Sequence

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3015
Project:	NJ Waste Water PT	Instrument ID:	ECD_D
GC Column:	ZB-MR1	ID:	0.32 (mm)
		Inst. Calib. Date(s):	08/19/2025 08/19/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
LBLK	LBLK	08/19/2025	09:50	PD089983.D	9.07	3.55
PCHLORICC1000	PCHLORICC1000	08/19/2025	10:30	PD089986.D	9.07	3.55
PCHLORICC750	PCHLORICC750	08/19/2025	11:10	PD089987.D	9.07	3.55
PCHLORICC500	PCHLORICC500	08/19/2025	11:24	PD089988.D	9.07	3.55
PCHLORICC250	PCHLORICC250	08/19/2025	11:37	PD089989.D	9.07	3.55
PCHLORICC050	PCHLORICC050	08/19/2025	11:51	PD089990.D	9.07	3.55
LBLK	LBLK	09/10/2025	13:55	PD090219.D	9.07	3.55
PCHLORCCC500	PCHLORCCC500	09/10/2025	15:41	PD090222.D	9.07	3.55
WP0925-PT-CHLR-WP	Q3015-11	09/10/2025	16:15	PD090224.D	9.07	3.55
PB169636BL	PB169636BL	09/10/2025	17:02	PD090227.D	9.07	3.55
PB169636BS	PB169636BS	09/10/2025	17:57	PD090231.D	9.07	3.55
LBLK	LBLK	09/10/2025	18:10	PD090232.D	9.07	3.54
PCHLORCCC500	PCHLORCCC500	09/10/2025	18:38	PD090234.D	9.07	3.55

Analytical Sequence

Client: Alliance Technical Group, LLC - Newark	SDG No.: Q3015
Project: NJ Waste Water PT	Instrument ID: ECD_D
GC Column: ZB-MR2	ID: 0.32 (mm) Inst. Calib. Date(s): 08/19/2025 08/19/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	08/19/2025	09:50	PD089983.D	8.06	2.88
PCHLORICC1000	PCHLORICC1000	08/19/2025	10:30	PD089986.D	8.06	2.88
PCHLORICC750	PCHLORICC750	08/19/2025	11:10	PD089987.D	8.07	2.88
PCHLORICC500	PCHLORICC500	08/19/2025	11:24	PD089988.D	8.06	2.88
PCHLORICC250	PCHLORICC250	08/19/2025	11:37	PD089989.D	8.07	2.88
PCHLORICC050	PCHLORICC050	08/19/2025	11:51	PD089990.D	8.07	2.88
IBLK	IBLK	09/10/2025	13:55	PD090219.D	8.06	2.88
PCHLORCCC500	PCHLORCCC500	09/10/2025	15:41	PD090222.D	8.07	2.88
WP0925-PT-CHLR-WP	Q3015-11	09/10/2025	16:15	PD090224.D	8.07	2.87
PB169636BL	PB169636BL	09/10/2025	17:02	PD090227.D	8.06	2.88
PB169636BS	PB169636BS	09/10/2025	17:57	PD090231.D	8.06	2.88
IBLK	IBLK	09/10/2025	18:10	PD090232.D	8.06	2.88
PCHLORCCC500	PCHLORCCC500	09/10/2025	18:38	PD090234.D	8.06	2.88

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB169636BS

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab Sample ID: PB169636BS

Date(s) Analyzed: 09/10/2025 09/10/2025

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		
Chlordane	1	5.76	5.71	5.81	1.70	16.2
	2	4.95	4.90	5.00	2.00	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WP0925-PT-CHLR-WP

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab Sample ID: Q3015-11

Date(s) Analyzed: 09/10/2025 09/10/2025

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		
Chlordane	1	5.76	5.71	5.81	6.50	15.6
	2	4.95	4.90	5.00	7.60	



QC SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	PB169636BL		SDG No.:	Q3015
Lab Sample ID:	PB169636BL		Matrix:	WATER
Analytical Method:	8081B		% Solid:	0 Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group2
Extraction Type:			Injection Volume :	
GPC Factor :	1.0	PH :		
Prep Method :	3510C			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD090227.D	1	09/10/25 08:46	09/10/25 17:02	PB169636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.2		57 - 171	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.7		61 - 148	103%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD091025\
Data File : PD090227.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2025 17:02
Operator : AR\AJ
Sample : PB169636BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB169636BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 08:20:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:16:54 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...	3.546	2.876	56081522	456.3E6	19.109	20.693
28) SA Decachlor...	9.066	8.063	86332730	549.6E6	20.003	21.232

Target Compounds

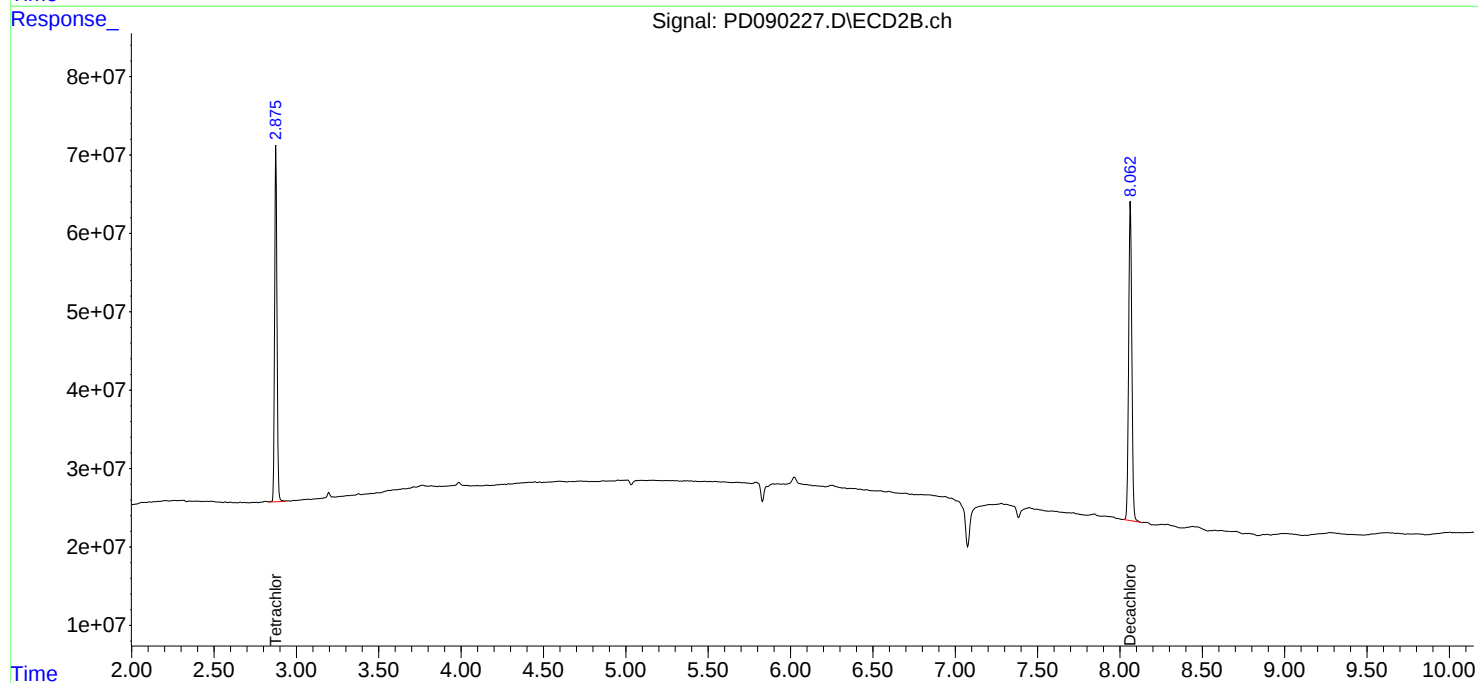
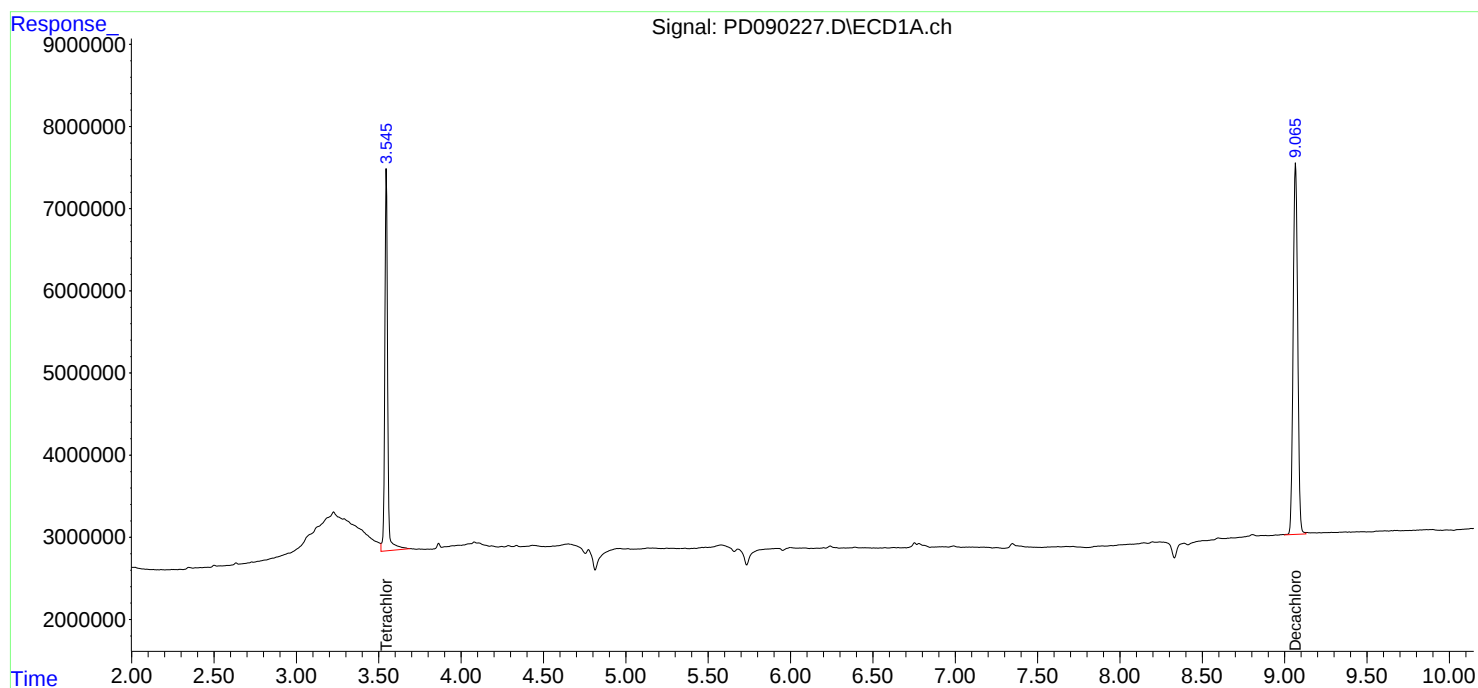
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD091025\
Data File : PD090227.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2025 17:02
Operator : AR\AJ
Sample : PB169636BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

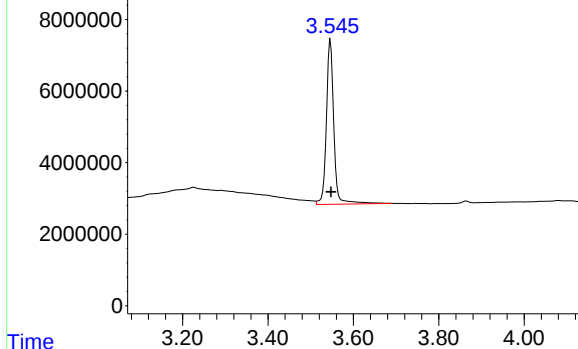
Instrument :
ECD_D
ClientSampleId :
PB169636BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 08:20:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:16:54 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



Response_ Signal: PD090227.D\ECD1A.ch

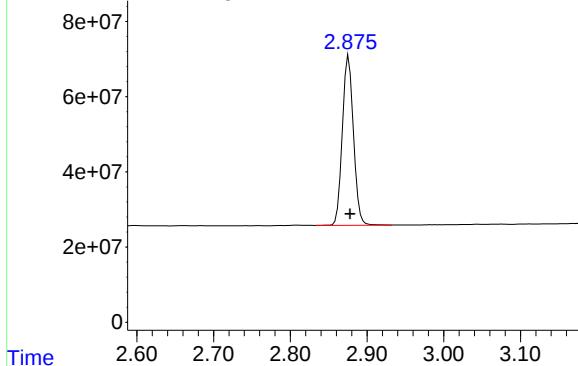


#1 Tetrachloro-m-xylene

R.T.: 3.546 min
Delta R.T.: -0.002 min
Response: 56081522
Conc: 19.11 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB169636BL

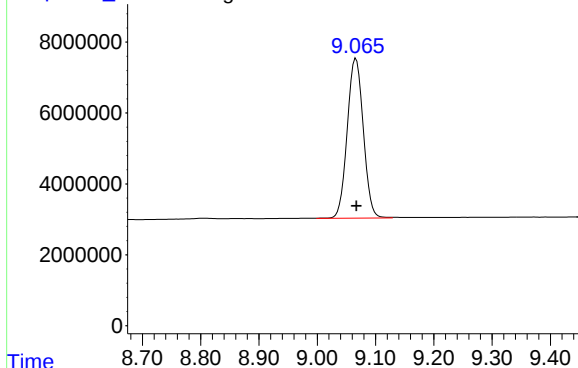
Time Response_ Signal: PD090227.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 2.876 min
Delta R.T.: -0.002 min
Response: 456294372
Conc: 20.69 ng/ml

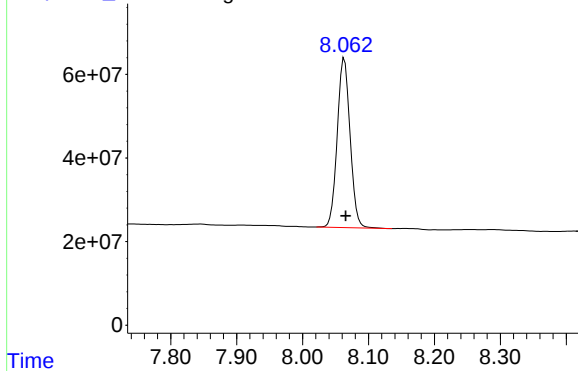
Time Response_ Signal: PD090227.D\ECD1A.ch



#28 Decachlorobiphenyl

R.T.: 9.066 min
Delta R.T.: 0.000 min
Response: 86332730
Conc: 20.00 ng/ml

Time Response_ Signal: PD090227.D\ECD2B.ch



#28 Decachlorobiphenyl

R.T.: 8.063 min
Delta R.T.: -0.002 min
Response: 549613206
Conc: 21.23 ng/ml

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	08/19/25	
Project:	NJ Waste Water PT		Date Received:	08/19/25	
Client Sample ID:	PIBLK-PD089983.D		SDG No.:	Q3015	
Lab Sample ID:	I.BLK-PD089983.D		Matrix:	WATER	
Analytical Method:	8081B		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group2	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089983.D	1		08/19/25	pd081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.4		57 - 171	107%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.2		61 - 148	101%	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\PD081925\
Data File : PD089983.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Aug 2025 09:50
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: Aug 20 07:12:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:16:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.548	2.877	54983370	444.7E6	18.735	20.169
28)	SA Decachlor...	9.068	8.064	89025095	553.0E6	20.627	21.363

Target Compounds

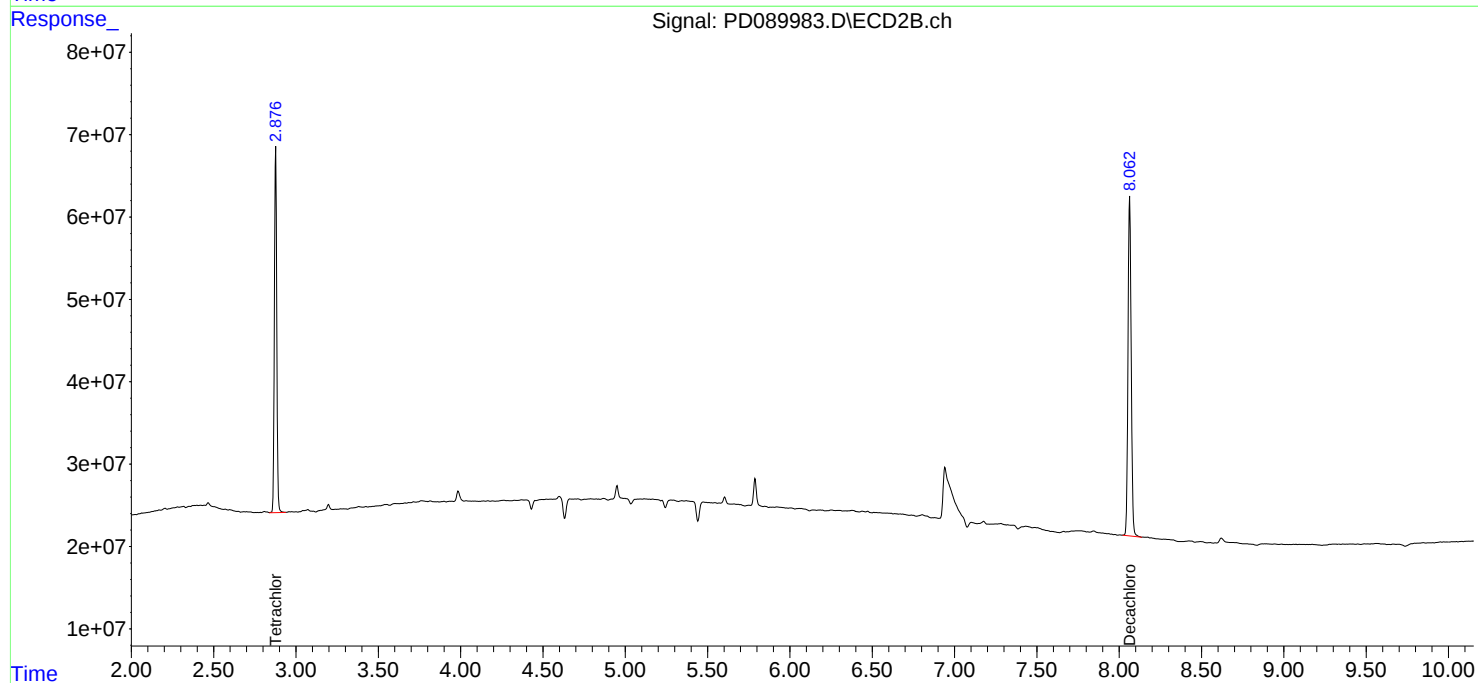
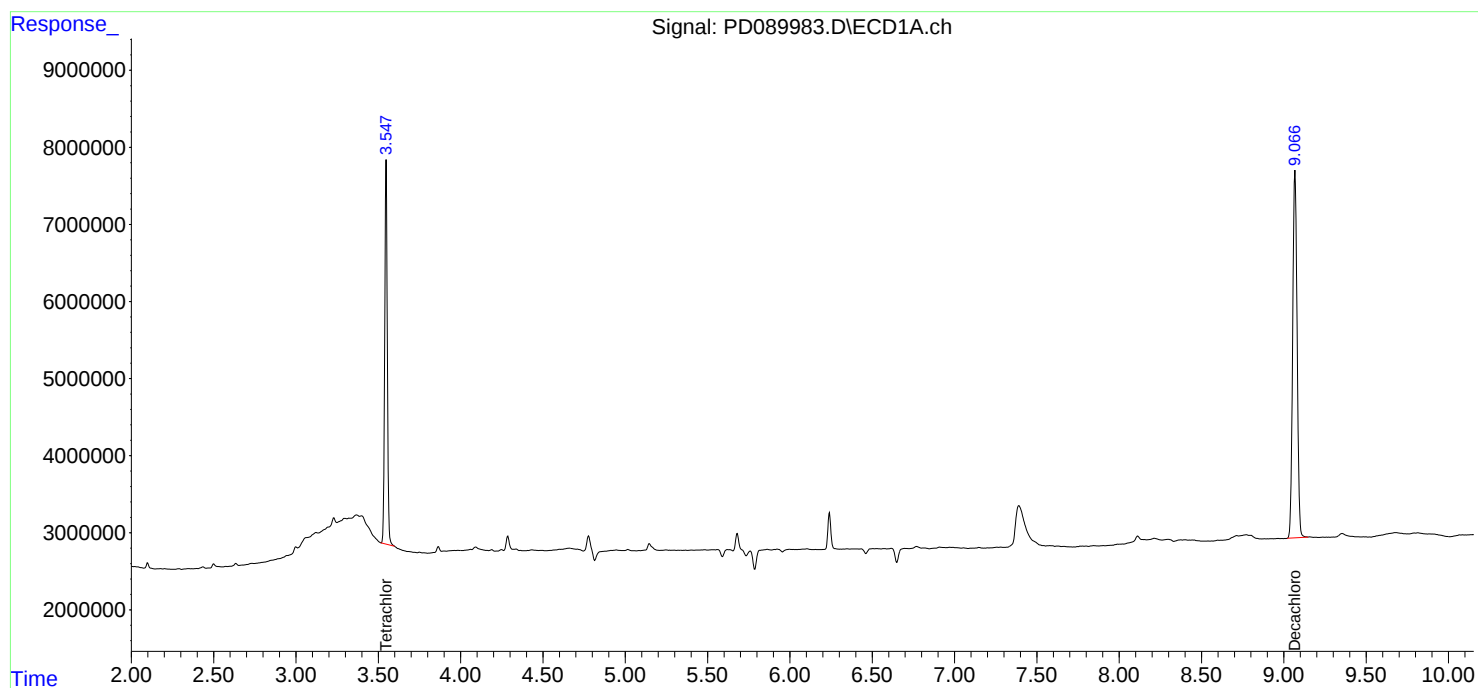
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

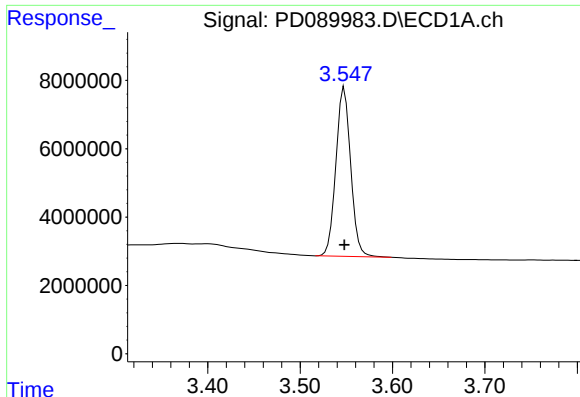
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD081925\
Data File : PD089983.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Aug 2025 09:50
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 20 07:12:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:16:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

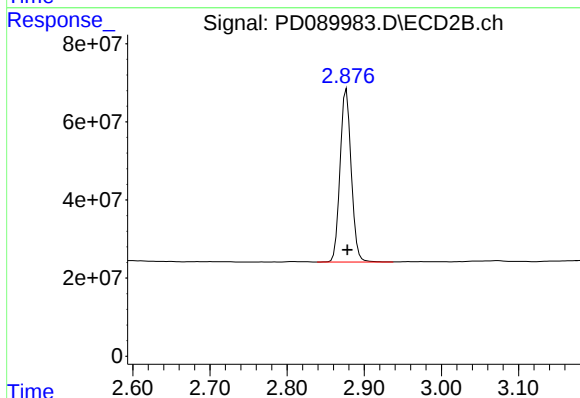




#1 Tetrachloro-m-xylene

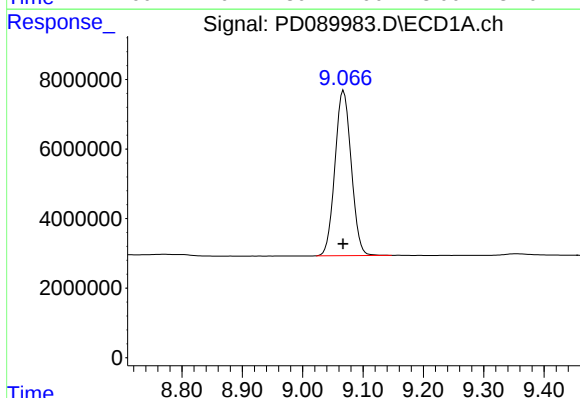
R.T.: 3.548 min
Delta R.T.: 0.000 min
Response: 54983370
Conc: 18.73 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



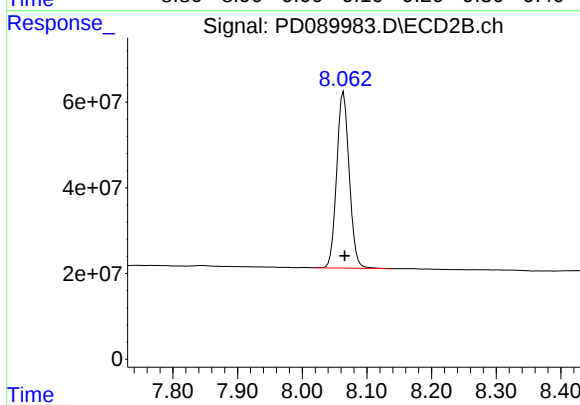
#1 Tetrachloro-m-xylene

R.T.: 2.877 min
Delta R.T.: 0.000 min
Response: 444736184
Conc: 20.17 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.068 min
Delta R.T.: 0.000 min
Response: 89025095
Conc: 20.63 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.064 min
Delta R.T.: -0.001 min
Response: 553007094
Conc: 21.36 ng/ml

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	09/10/25	
Project:	NJ Waste Water PT		Date Received:	09/10/25	
Client Sample ID:	PIBLK-PD090219.D		SDG No.:	Q3015	
Lab Sample ID:	I.BLK-PD090219.D		Matrix:	WATER	
Analytical Method:	8081B		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group2	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD090219.D	1		09/10/25	pd091025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.1		57 - 171	101%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.3		61 - 148	101%	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\PD091025\
Data File : PD090219.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2025 13:55
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: Sep 11 08:19:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:16:54 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...	3.546	2.876	52514969	446.7E6	17.894	20.256
28)	SA Decachlor...	9.066	8.064	83362172	520.9E6	19.315	20.123

Target Compounds

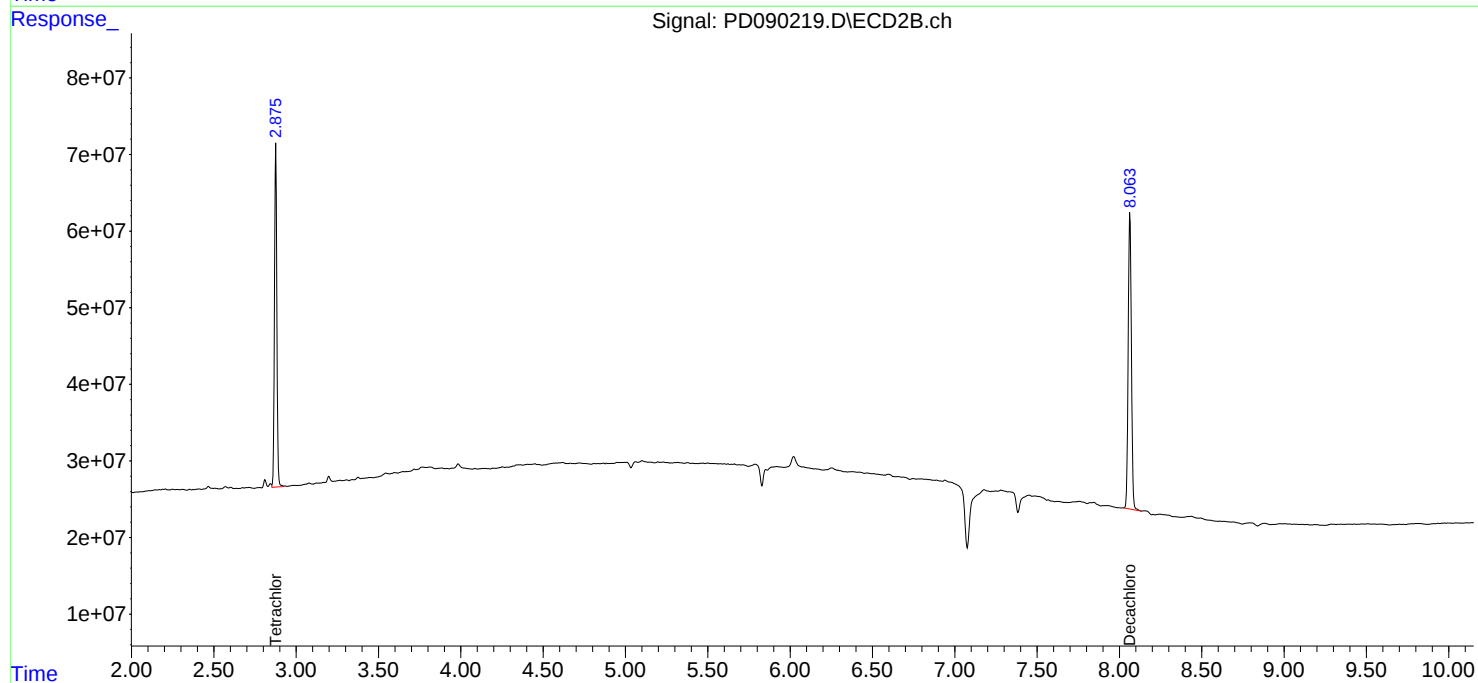
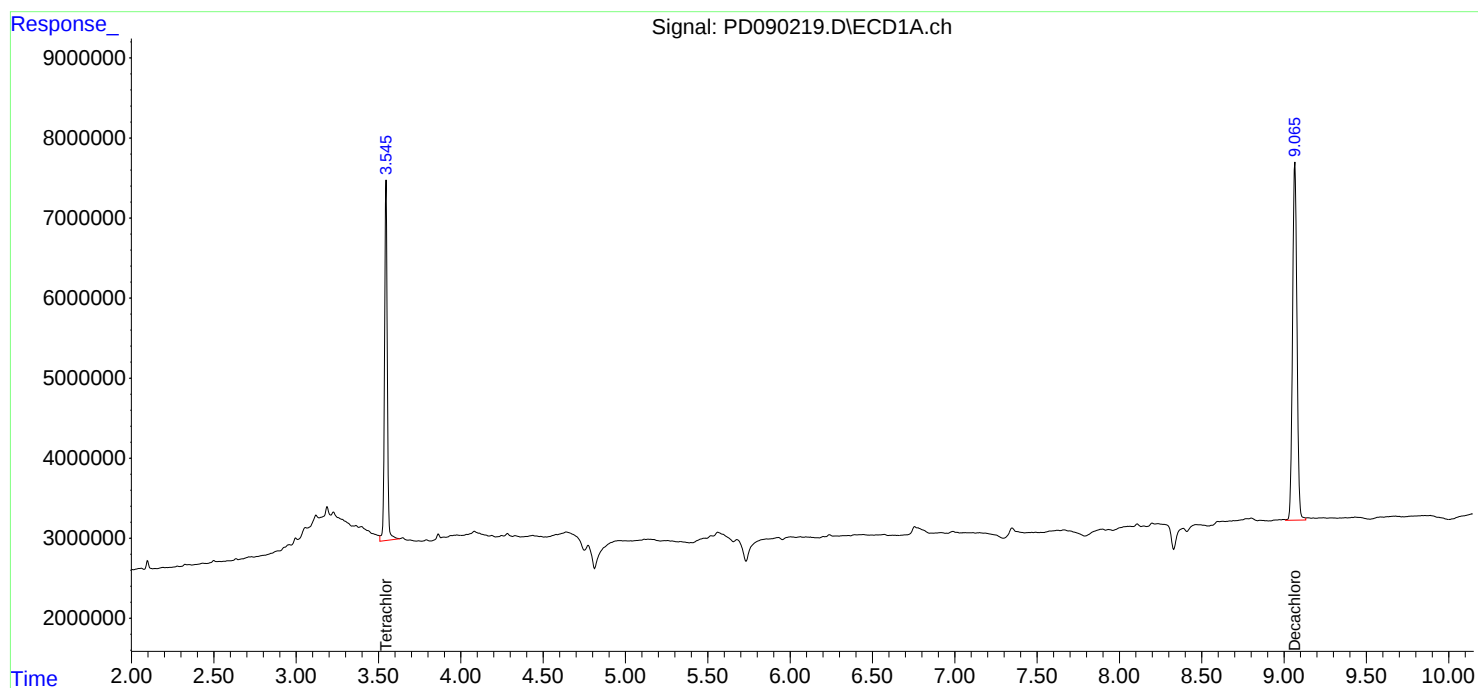
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

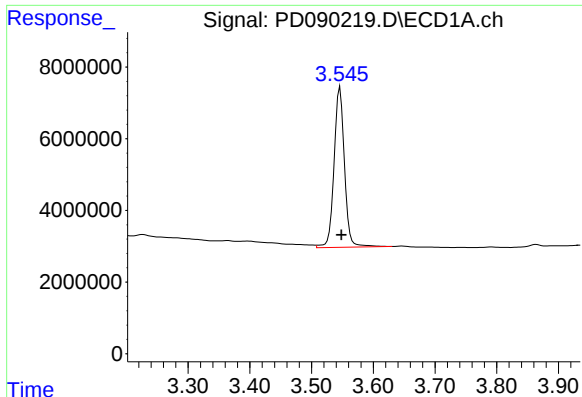
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD091025\
Data File : PD090219.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2025 13:55
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 08:19:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:16:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

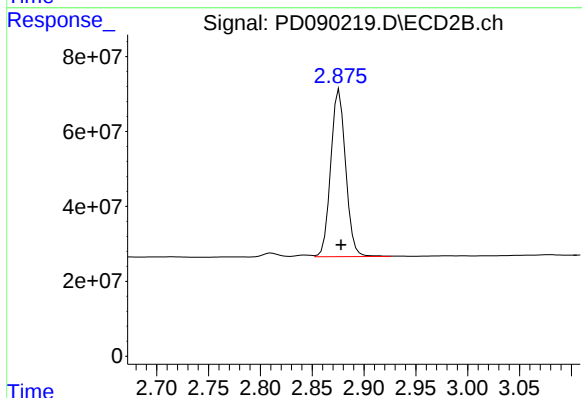




#1 Tetrachloro-m-xylene

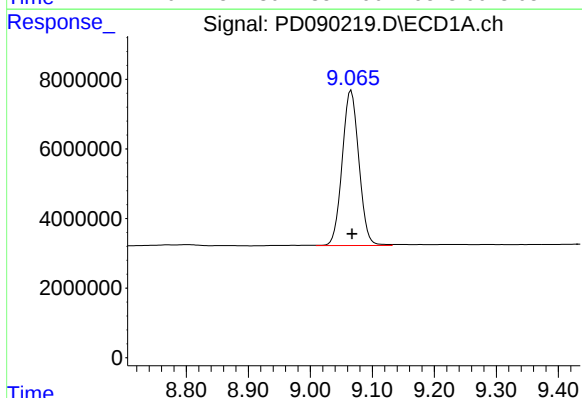
R.T.: 3.546 min
Delta R.T.: -0.002 min
Response: 52514969
Conc: 17.89 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



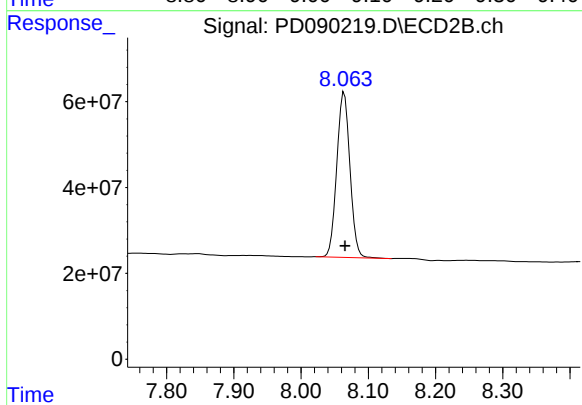
#1 Tetrachloro-m-xylene

R.T.: 2.876 min
Delta R.T.: -0.002 min
Response: 446666011
Conc: 20.26 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.066 min
Delta R.T.: -0.001 min
Response: 83362172
Conc: 19.31 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.064 min
Delta R.T.: -0.001 min
Response: 520892181
Conc: 20.12 ng/ml

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/10/25
Project:	NJ Waste Water PT	Date Received:	09/10/25
Client Sample ID:	PIBLK-PD090232.D	SDG No.:	Q3015
Lab Sample ID:	I.BLK-PD090232.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group2
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD090232.D	1		09/10/25	pd091025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.2		57 - 171	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		61 - 148	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\PD091025\
Data File : PD090232.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2025 18:10
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 09/11/2025
Supervised By :mohammad ahmed 09/16/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 08:21:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:16:54 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...	3.544	2.876	50273155	449.5E6	17.130m	20.386
2) SA Decachlor...	9.065	8.064	85701622	547.7E6	19.857m	21.156

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD091025\
Data File : PD090232.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2025 18:10
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

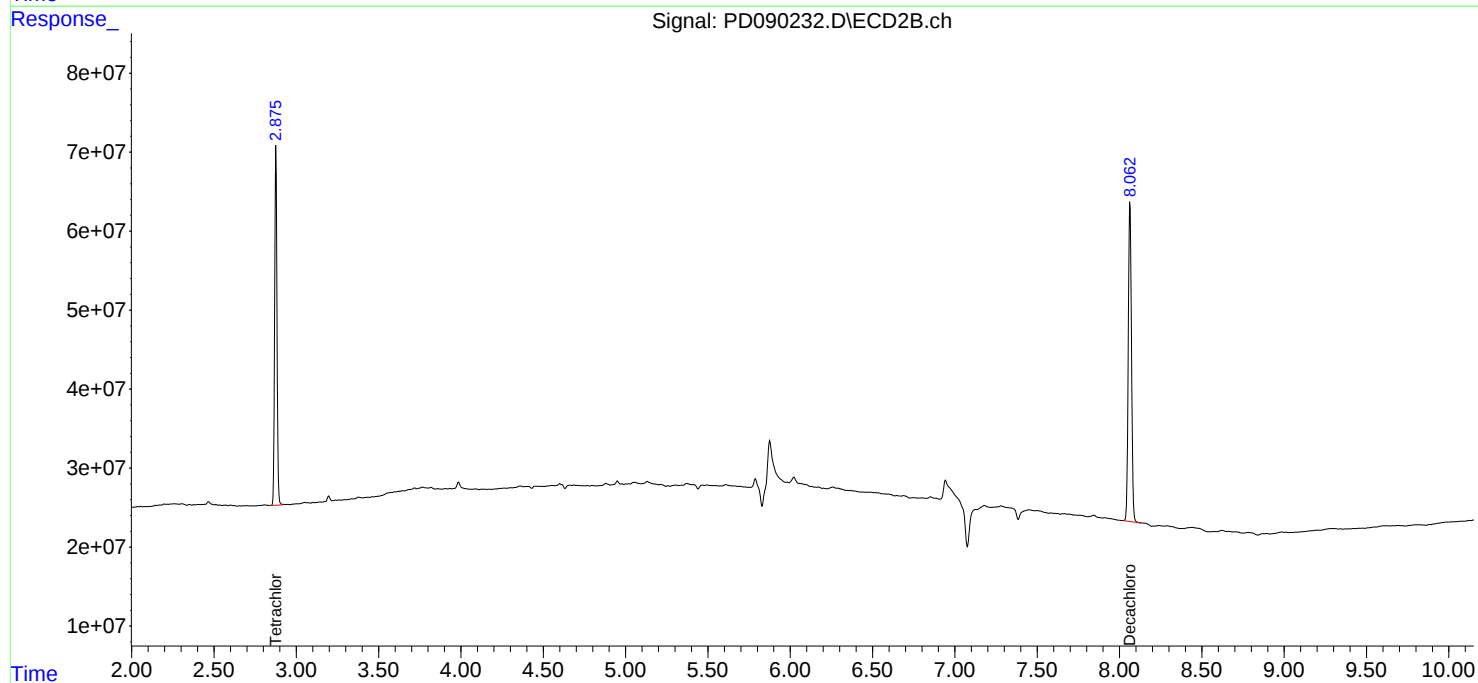
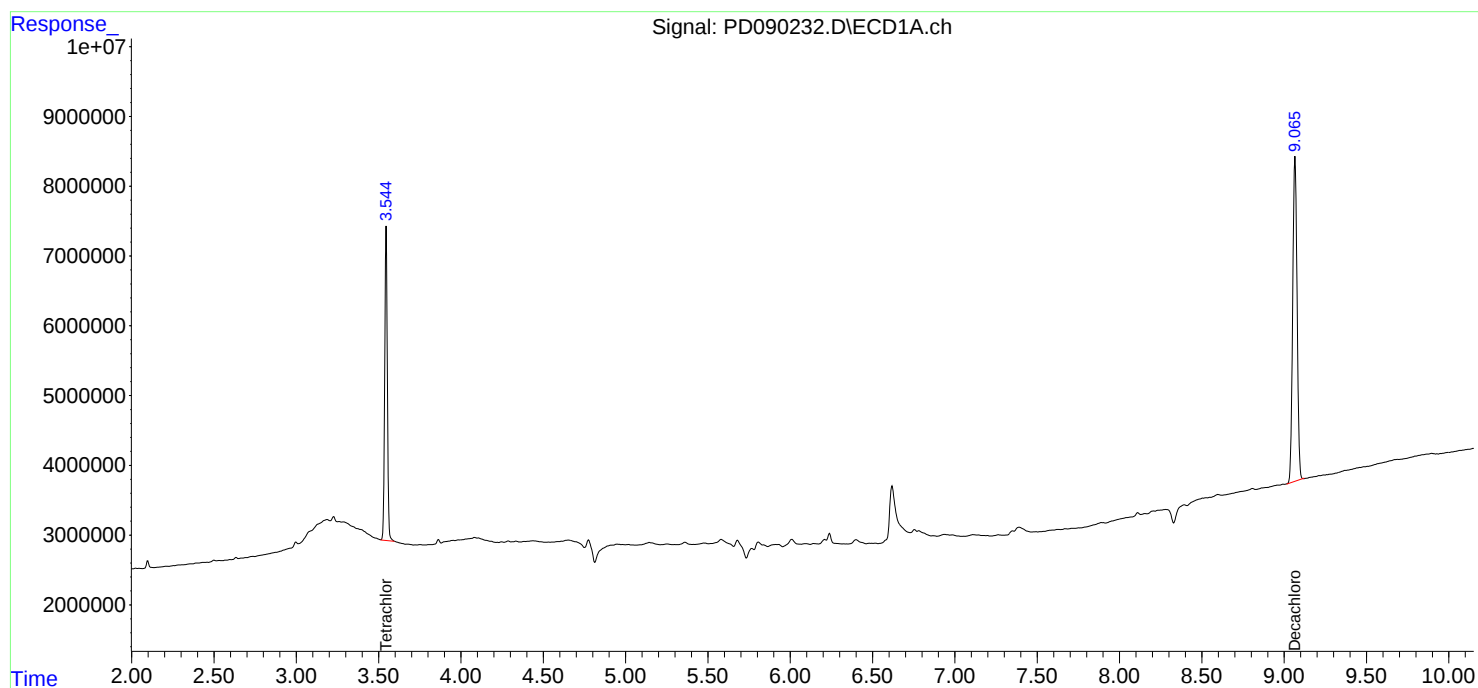
Instrument :
ECD_D
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

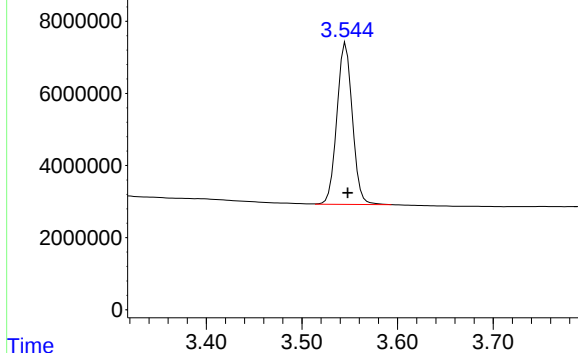
Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 08:21:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:16:54 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



Response_ Signal: PD090232.D\ECD1A.ch



#1 Tetrachloro-m-xylene

R.T.: 3.544 min
Delta R.T.: -0.004 min
Response: 50273155
Conc: 17.13 ng/ml

Instrument :

ECD_D

ClientSampleId :

I.BLK

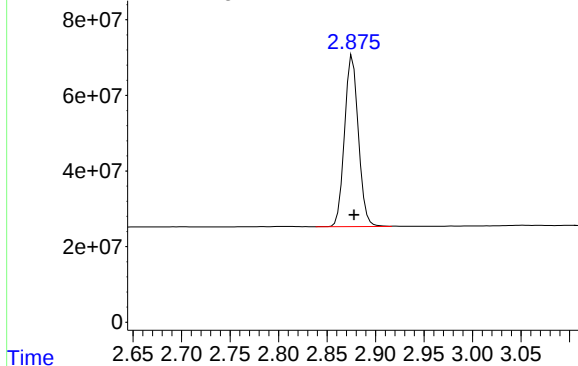
Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 09/11/2025

Supervised By :mohammad ahmed 09/16/2025

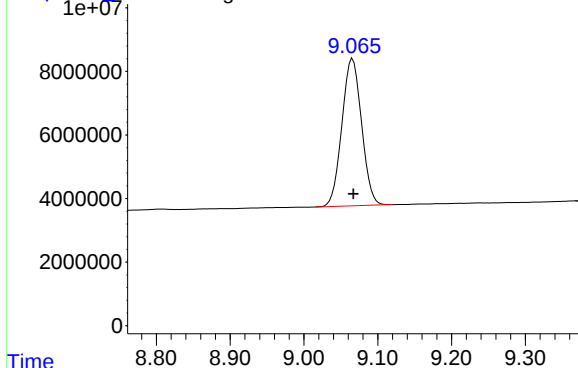
Time Response_ Signal: PD090232.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 2.876 min
Delta R.T.: -0.002 min
Response: 449527562
Conc: 20.39 ng/ml

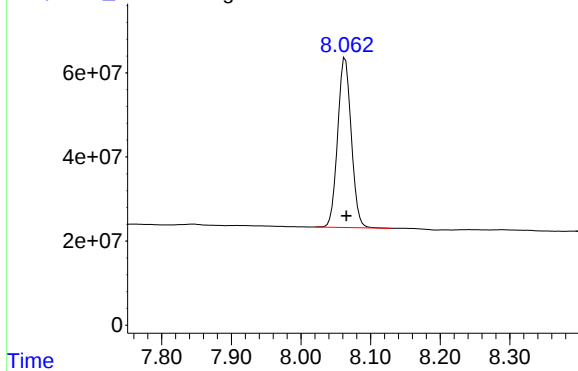
Time Response_ Signal: PD090232.D\ECD1A.ch



#28 Decachlorobiphenyl

R.T.: 9.065 min
Delta R.T.: -0.002 min
Response: 85701622
Conc: 19.86 ng/ml m

Time Response_ Signal: PD090232.D\ECD2B.ch



#28 Decachlorobiphenyl

R.T.: 8.064 min
Delta R.T.: -0.002 min
Response: 547653633
Conc: 21.16 ng/ml

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:		
Project:	NJ Waste Water PT		Date Received:		
Client Sample ID:	PB169636BS		SDG No.:	Q3015	
Lab Sample ID:	PB169636BS		Matrix:	WATER	
Analytical Method:	8081B		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE Group2	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD090231.D	1	09/10/25 08:46	09/10/25 17:57	PB169636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	2.00		0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.8		57 - 171	99%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.7		61 - 148	109%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of 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\PD091025\
 Data File : PD090231.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Sep 2025 17:57
 Operator : AR\AJ
 Sample : PB169636BS
 Misc : BS / CHLOR
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PB169636BS

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 09/11/2025

Supervised By :mohammad ahmed 09/16/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 11 08:21:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
 Quant Title : GC Extractables
 QLast Update : Tue Aug 19 13:16:54 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...	3.545	2.877	44191800	478.6E6	15.058m	21.704 #
28)	SA Decachlor...	9.066	8.064	79436014	511.2E6	18.405	19.749
Target Compounds							
23)	Chlordane-1	4.709	3.900	29264668	173.9E6	170.395m	195.660
24)	Chlordane-2	5.237	4.482	30677432	187.7E6	174.282	195.907
25)	Chlordane-3	5.941	5.120	110.8E6	554.5E6	163.368m	200.098
26)	Chlordane-4	6.026	5.184	138.4E6	476.6E6	166.709m	198.032
27)	Chlordane-5	6.866	6.083	25241943	223.0E6	180.099	202.764

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD091025\
Data File : PD090231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2025 17:57
Operator : AR\AJ
Sample : PB169636BS
Misc : BS / CHLOR
ALS Vial : 11 Sample Multiplier: 1

Instrument :

ECD_D

ClientSampleId :

PB169636BS

Manual Integrations

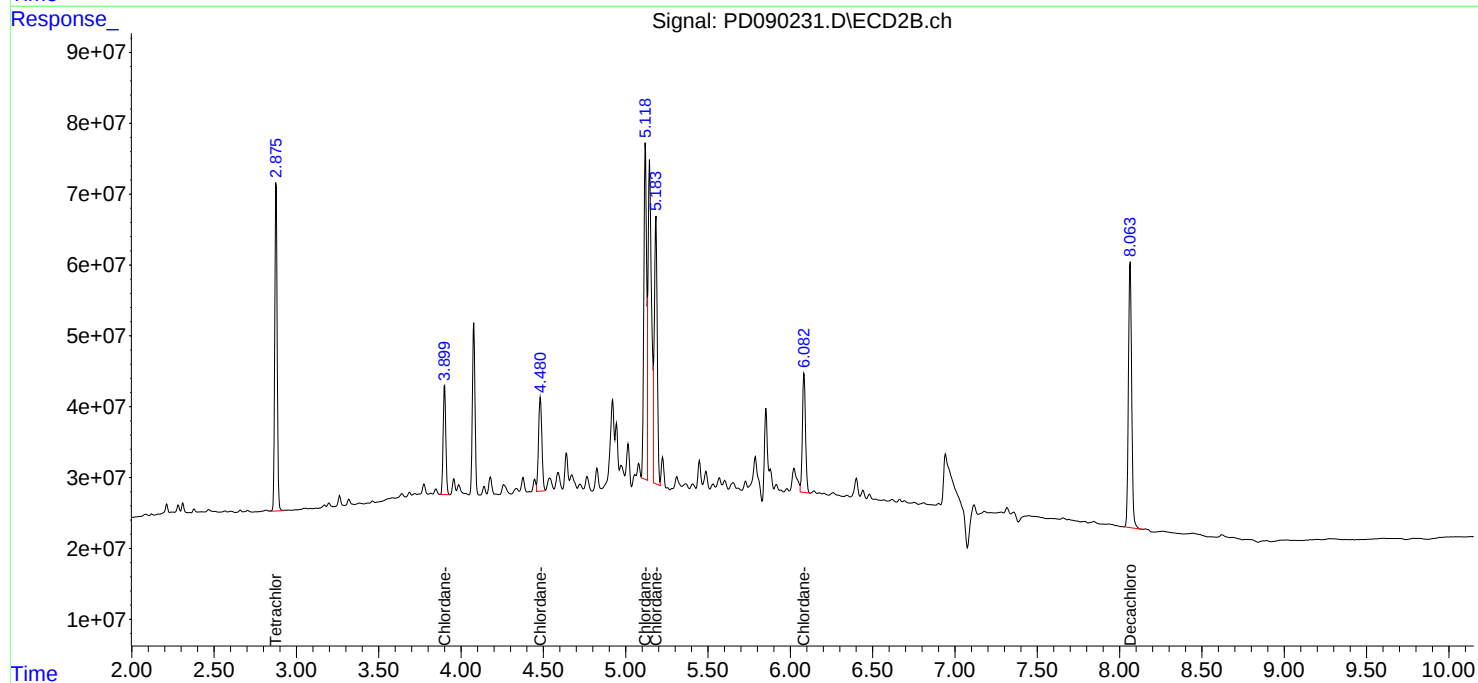
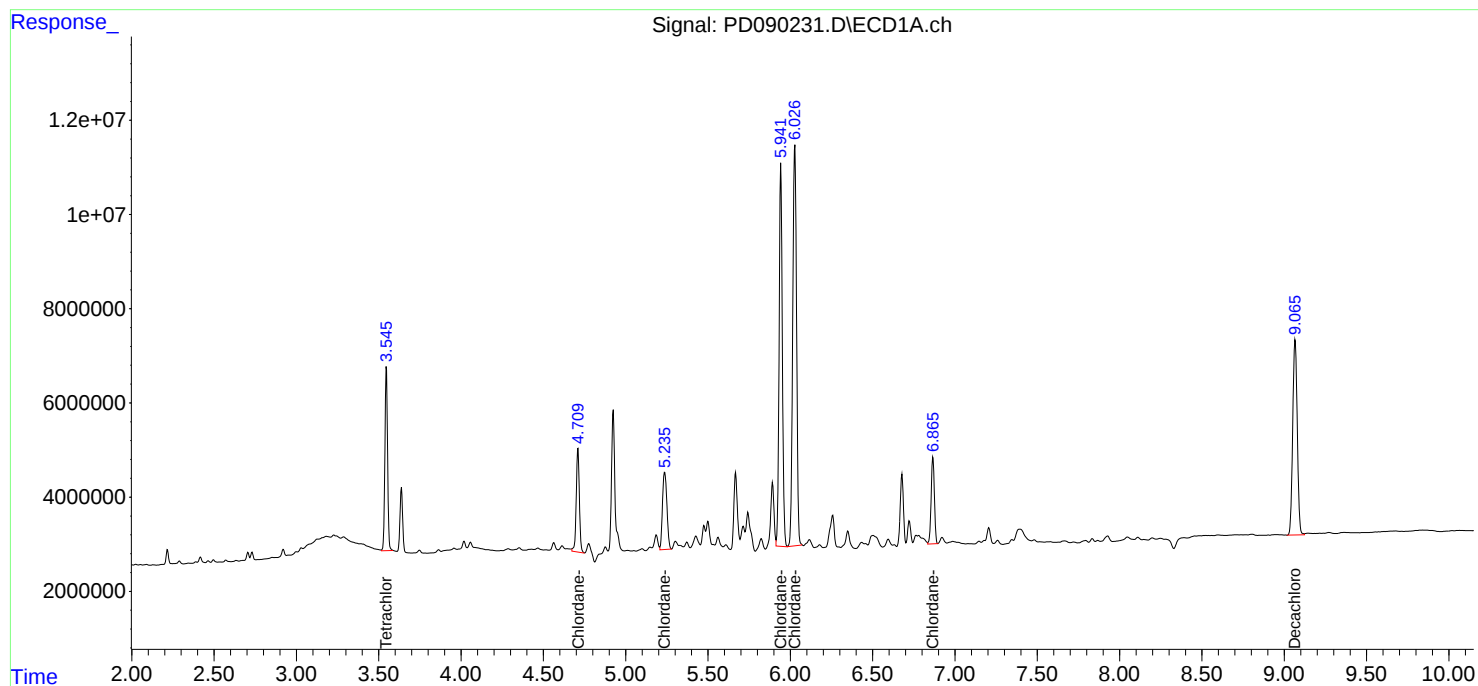
APPROVED

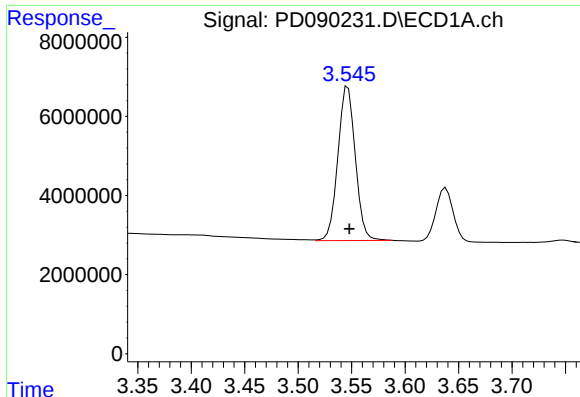
Reviewed By :Abdul Mirza 09/11/2025

Supervised By :mohammad ahmed 09/16/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 08:21:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD081825.M
Quant Title : GC Extractables
QLast Update : Tue Aug 19 13:16:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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





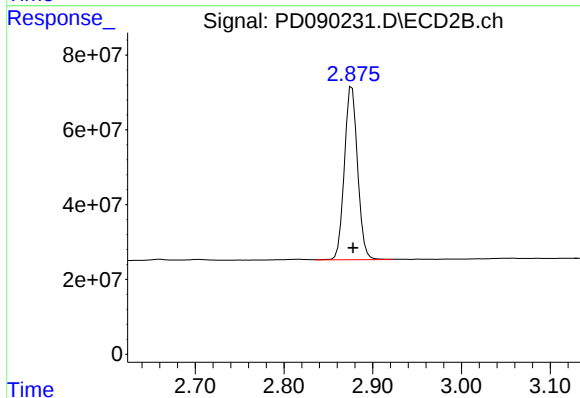
#1 Tetrachloro-m-xylene

R.T.: 3.545 min
Delta R.T.: -0.003 min
Response: 44191800
Conc: 15.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB169636BS

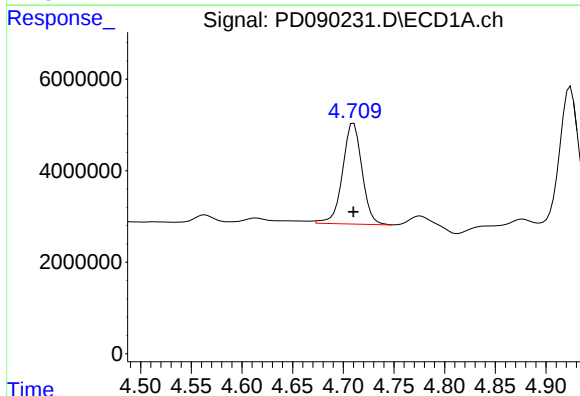
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025



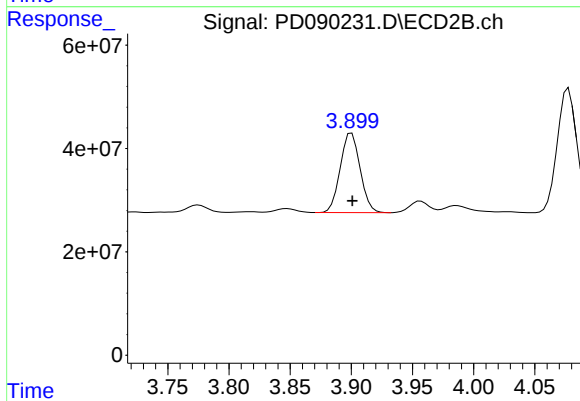
#1 Tetrachloro-m-xylene

R.T.: 2.877 min
Delta R.T.: -0.001 min
Response: 478578616
Conc: 21.70 ng/ml



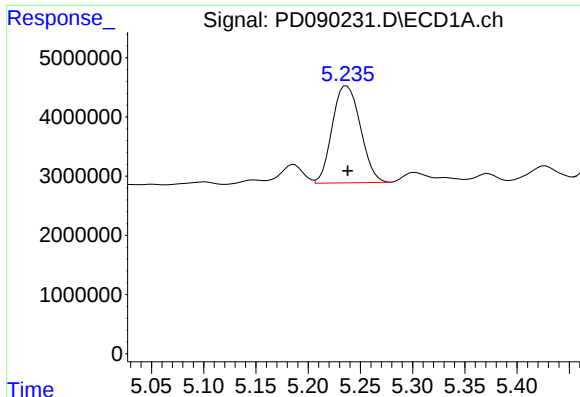
#23 Chlordane-1

R.T.: 4.709 min
Delta R.T.: 0.000 min
Response: 29264668
Conc: 170.40 ng/ml m



#23 Chlordane-1

R.T.: 3.900 min
Delta R.T.: 0.000 min
Response: 173928034
Conc: 195.66 ng/ml



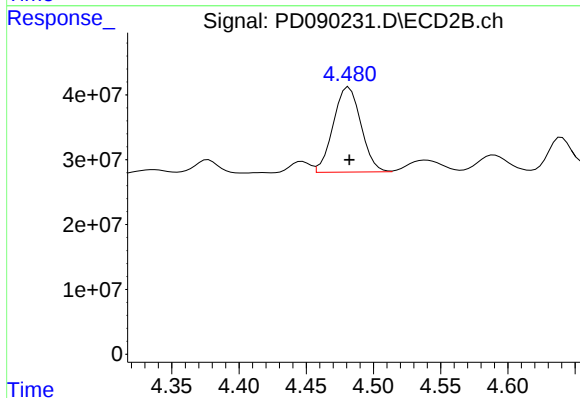
#24 Chlordane-2

R.T.: 5.237 min
Delta R.T.: -0.001 min
Response: 30677432
Conc: 174.28 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB169636BS

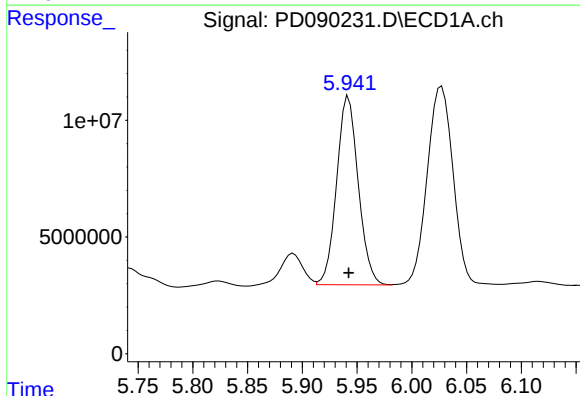
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025



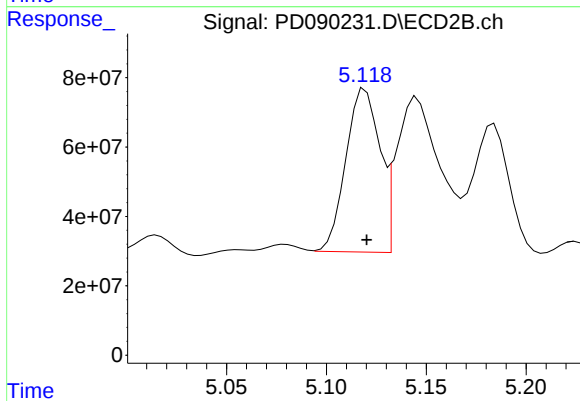
#24 Chlordane-2

R.T.: 4.482 min
Delta R.T.: 0.000 min
Response: 187669363
Conc: 195.91 ng/ml



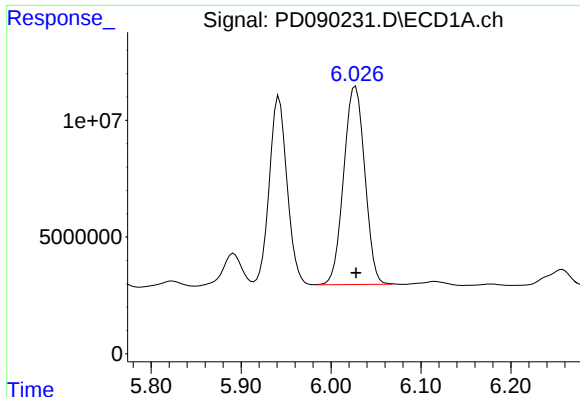
#25 Chlordane-3

R.T.: 5.941 min
Delta R.T.: -0.002 min
Response: 110796887
Conc: 163.37 ng/ml m



#25 Chlordane-3

R.T.: 5.120 min
Delta R.T.: 0.000 min
Response: 554464123
Conc: 200.10 ng/ml



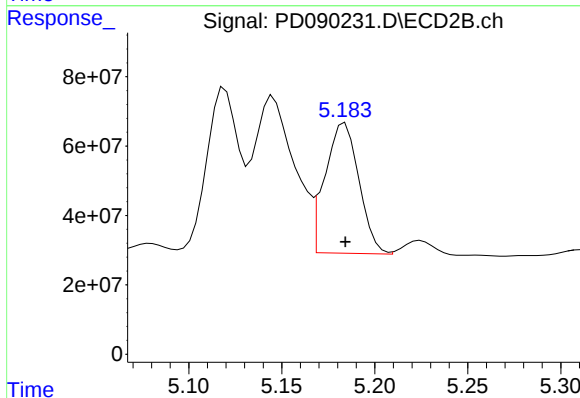
#26 Chlordane-4

R.T.: 6.026 min
Delta R.T.: -0.002 min
Response: 138409354
Conc: 166.71 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB169636BS

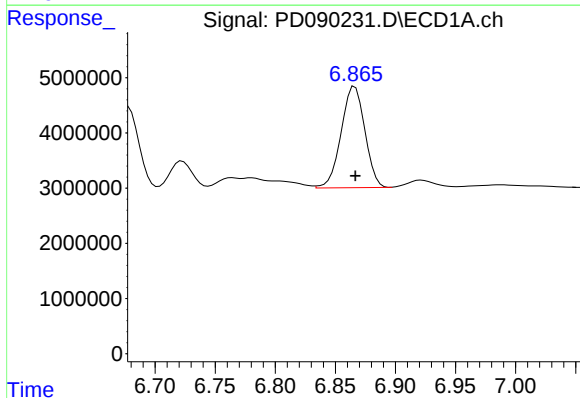
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025



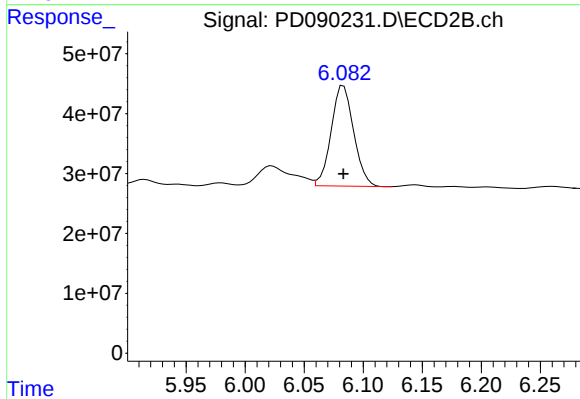
#26 Chlordane-4

R.T.: 5.184 min
Delta R.T.: 0.000 min
Response: 476647529
Conc: 198.03 ng/ml



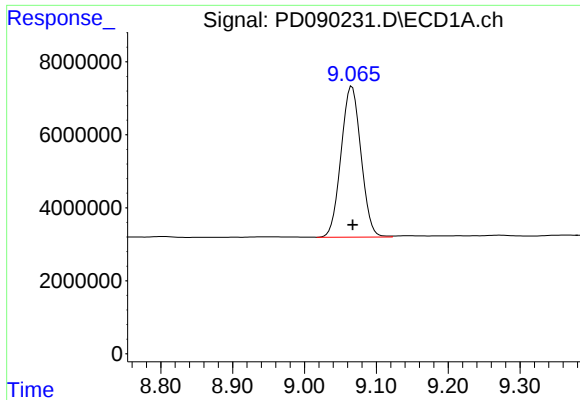
#27 Chlordane-5

R.T.: 6.866 min
Delta R.T.: 0.000 min
Response: 25241943
Conc: 180.10 ng/ml



#27 Chlordane-5

R.T.: 6.083 min
Delta R.T.: 0.000 min
Response: 223034537
Conc: 202.76 ng/ml



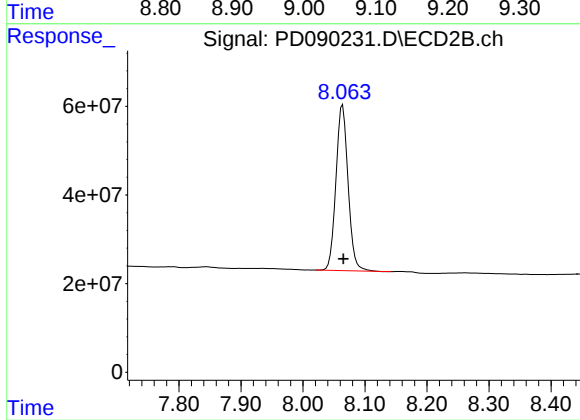
#28 Decachlorobiphenyl

R.T.: 9.066 min
Delta R.T.: 0.000 min
Response: 79436014
Conc: 18.41 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB169636BS

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2025
Supervised By :mohammad ahmed 09/16/2025



#28 Decachlorobiphenyl

R.T.: 8.064 min
Delta R.T.: -0.001 min
Response: 511231443
Conc: 19.75 ng/ml

Manual Integration Report

Sequence:	pd081925	Instrument	ECD_d
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD089984.D	Endrin ketone	Abdul	8/21/2025 9:27:07 AM	mohammad	8/22/2025 2:04:20	Peak Integrated by Software
PEM	PD089984.D	Endrin ketone #2	Abdul	8/21/2025 9:27:07 AM	mohammad	8/22/2025 2:04:20	Peak Integrated by Software
PCHLORICC050	PD089990.D	Chlordane-1	Abdul	8/20/2025 8:41:31 AM	mohammad	8/22/2025 2:04:20	Peak Integrated by Software
PEM	PD089993.D	4,4"-DDD	Abdul	8/20/2025 8:41:34 AM	mohammad	8/22/2025 2:04:20	Peak Integrated by Software
PEM	PD089993.D	Endrin ketone	Abdul	8/20/2025 8:41:34 AM	mohammad	8/22/2025 2:04:20	Peak Integrated by Software
PEM	PD089993.D	Endrin ketone #2	Abdul	8/20/2025 8:41:34 AM	mohammad	8/22/2025 2:04:20	Peak Integrated by Software
PTOXCCC500	PD089996.D	Toxaphene-5	Abdul	8/20/2025 8:41:37 AM	mohammad	8/22/2025 2:04:20	Peak Integrated by Software
PSTDCCC050	PD090000.D	gamma-Chlordane #2	Abdul	8/20/2025 8:41:10 AM	mohammad	8/22/2025 2:04:20	Peak Integrated by Software

Manual Integration Report

Sequence:	pd091025	Instrument	ECD_d
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD090220.D	4,4"-DDD #2	Abdul	9/11/2025 1:09:45 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PEM	PD090220.D	4,4"-DDT	Abdul	9/11/2025 1:09:45 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PEM	PD090220.D	Endrin	Abdul	9/11/2025 1:09:45 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PEM	PD090220.D	gamma-BHC (Lindane)	Abdul	9/11/2025 1:09:45 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090221.D	4,4"-DDT	Abdul	9/11/2025 1:09:48 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090221.D	Aldrin	Abdul	9/11/2025 1:09:48 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090221.D	alpha-Chlordane	Abdul	9/11/2025 1:09:48 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090221.D	Dieldrin	Abdul	9/11/2025 1:09:48 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090221.D	Endosulfan Sulfate	Abdul	9/11/2025 1:09:48 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090221.D	Endrin	Abdul	9/11/2025 1:09:48 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090221.D	gamma-BHC (Lindane)	Abdul	9/11/2025 1:09:48 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PCHLORCCC500	PD090222.D	Chlordane-1	Abdul	9/11/2025 1:09:51 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PCHLORCCC500	PD090222.D	Chlordane-4	Abdul	9/11/2025 1:09:51 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software

Manual Integration Report

Sequence:	pd091025	Instrument	ECD_d
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3015-11	PD090224.D	Chlordane-1	Abdul	9/11/2025 1:09:56 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
Q3015-11	PD090224.D	Tetrachloro-m-xylene	Abdul	9/11/2025 1:09:56 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
Q3015-11	PD090224.D	Tetrachloro-m-xylene #2	Abdul	9/11/2025 1:09:56 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PB169636BS	PD090231.D	Chlordane-1	Abdul	9/11/2025 1:10:12 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PB169636BS	PD090231.D	Chlordane-3	Abdul	9/11/2025 1:10:12 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PB169636BS	PD090231.D	Chlordane-4	Abdul	9/11/2025 1:10:12 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PB169636BS	PD090231.D	Tetrachloro-m-xylene	Abdul	9/11/2025 1:10:12 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
I.BLK	PD090232.D	Decachlorobiphenyl	Abdul	9/11/2025 1:10:15 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
I.BLK	PD090232.D	Tetrachloro-m-xylene	Abdul	9/11/2025 1:10:15 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090233.D	4,4"-DDT	Abdul	9/15/2025 9:11:23 AM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090233.D	Aldrin	Abdul	9/15/2025 9:11:23 AM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090233.D	alpha-Chlordane	Abdul	9/15/2025 9:11:23 AM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090233.D	Dieldrin	Abdul	9/15/2025 9:11:23 AM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software

Manual Integration Report

Sequence:	pd091025	Instrument	ECD_d
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PD090233.D	Endosulfan I	Abdul	9/15/2025 9:11:23 AM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090233.D	Endosulfan Sulfate	Abdul	9/15/2025 9:11:23 AM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090233.D	Endrin	Abdul	9/15/2025 9:11:23 AM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090233.D	Endrin aldehyde	Abdul	9/15/2025 9:11:23 AM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PSTDCCC050	PD090233.D	gamma-BHC (Lindane)	Abdul	9/15/2025 9:11:23 AM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PCHLORCCC500	PD090234.D	Chlordane-1	Abdul	9/11/2025 1:09:27 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software
PCHLORCCC500	PD090234.D	Chlordane-3	Abdul	9/11/2025 1:09:27 PM	mohammad	9/16/2025 4:00:37	Peak Integrated by Software

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD081925

Review By	Abdul	Review On	8/20/2025 8:42:02 AM
Supervise By	mohammad	Supervise On	8/22/2025 2:04:20 AM
SubDirectory	PD081925	HP Acquire Method	HP Processing Method pd081825 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24651		
Initial Calibration Stds	PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764		
CCC	PP24751,PP24756,PP24761		
Internal Standard/PEM			
ICV/I.BLK	PP24754,PP24759,PP24761		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD089982.D	19 Aug 2025 09:36	AR\AJ	Ok
2	I.BLK	PD089983.D	19 Aug 2025 09:50	AR\AJ	Ok
3	PEM	PD089984.D	19 Aug 2025 10:03	AR\AJ	Ok,M
4	RESCHK	PD089985.D	19 Aug 2025 10:17	AR\AJ	Ok
5	PCHLORICC1000	PD089986.D	19 Aug 2025 10:30	AR\AJ	Ok
6	PCHLORICC750	PD089987.D	19 Aug 2025 11:10	AR\AJ	Ok
7	PCHLORICC500	PD089988.D	19 Aug 2025 11:24	AR\AJ	Ok
8	PCHLORICC250	PD089989.D	19 Aug 2025 11:37	AR\AJ	Ok
9	PCHLORICC050	PD089990.D	19 Aug 2025 11:51	AR\AJ	Ok,M
10	PCHLORICV500	PD089991.D	19 Aug 2025 12:28	AR\AJ	Ok
11	I.BLK	PD089992.D	19 Aug 2025 13:29	AR\AJ	Ok
12	PEM	PD089993.D	19 Aug 2025 13:43	AR\AJ	Ok,M
13	PSTDCCC050	PD089994.D	19 Aug 2025 13:56	AR\AJ	Ok
14	PCHLORCCC500	PD089995.D	19 Aug 2025 14:48	AR\AJ	Ok
15	PTOXCCC500	PD089996.D	19 Aug 2025 15:04	AR\AJ	Ok,M
16	PB169206BS	PD089997.D	19 Aug 2025 16:02	AR\AJ	Ok
17	PB169206BS	PD089998.D	19 Aug 2025 16:16	AR\AJ	Ok
18	I.BLK	PD089999.D	19 Aug 2025 16:38	AR\AJ	Ok
19	PSTDCCC050	PD090000.D	19 Aug 2025 16:52	AR\AJ	Ok,M
20	PCHLORCCC500	PD090001.D	19 Aug 2025 17:05	AR\AJ	Ok
21	PTOXCCC500	PD090002.D	19 Aug 2025 17:19	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD091025

Review By	Abdul	Review On	9/11/2025 1:10:37 PM
Supervise By	mohammad	Supervise On	9/16/2025 4:00:37 AM
SubDirectory	PD091025	HP Acquire Method	HP Processing Method pd081825 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24890,PP24651		
Initial Calibration Stds	PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764		
CCC	PP24751,PP24756,PP24761		
Internal Standard/PEM			
ICV/I.BLK	PP24754,PP24759,PP24761		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD090218.D	10 Sep 2025 13:41	AR\AJ	Ok
2	I.BLK	PD090219.D	10 Sep 2025 13:55	AR\AJ	Ok
3	PEM	PD090220.D	10 Sep 2025 14:08	AR\AJ	Ok,M
4	PSTDCCC050	PD090221.D	10 Sep 2025 14:22	AR\AJ	Ok,M
5	PCHLORCCC500	PD090222.D	10 Sep 2025 15:41	AR\AJ	Ok,M
6	PTOXCCC500	PD090223.D	10 Sep 2025 15:55	AR\AJ	Ok
7	Q3015-11	PD090224.D	10 Sep 2025 16:15	AR\AJ	Ok,M
8	Q3015-13	PD090225.D	10 Sep 2025 16:28	AR\AJ	Dilution
9	Q3015-13DL	PD090226.D	10 Sep 2025 16:48	AR\AJ	Ok,M
10	PB169636BL	PD090227.D	10 Sep 2025 17:02	AR\AJ	Ok
11	PB169636BS	PD090228.D	10 Sep 2025 17:16	AR\AJ	Not Ok
12	PB169637BL	PD090229.D	10 Sep 2025 17:29	AR\AJ	Ok
13	PB169637BS	PD090230.D	10 Sep 2025 17:43	AR\AJ	Not Ok
14	PB169636BS	PD090231.D	10 Sep 2025 17:57	AR\AJ	Ok,M
15	I.BLK	PD090232.D	10 Sep 2025 18:10	AR\AJ	Ok,M
16	PSTDCCC050	PD090233.D	10 Sep 2025 18:24	AR\AJ	Ok,M
17	PCHLORCCC500	PD090234.D	10 Sep 2025 18:38	AR\AJ	Ok,M
18	PTOXCCC500	PD090235.D	10 Sep 2025 18:51	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD081925

Review By	Abdul	Review On	8/20/2025 8:42:02 AM
Supervise By	mohammad	Supervise On	8/22/2025 2:04:20 AM
SubDirectory	PD081925	HP Acquire Method	HP Processing Method pd081825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24651
Initial Calibration Stds	PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,P P24763,PP24764
CCC	PP24751,PP24756,PP24761
Internal Standard/PEM	
ICV/I.BLK	PP24754,PP24759,PP24761
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD089982.D	19 Aug 2025 09:36		AR\AJ	Ok
2	I.BLK	I.BLK	PD089983.D	19 Aug 2025 09:50		AR\AJ	Ok
3	PEM	PEM	PD089984.D	19 Aug 2025 10:03		AR\AJ	Ok,M
4	RESCHK	RESCHK	PD089985.D	19 Aug 2025 10:17		AR\AJ	Ok
5	PCHLORICC1000	PCHLORICC1000	PD089986.D	19 Aug 2025 10:30		AR\AJ	Ok
6	PCHLORICC750	PCHLORICC750	PD089987.D	19 Aug 2025 11:10		AR\AJ	Ok
7	PCHLORICC500	PCHLORICC500	PD089988.D	19 Aug 2025 11:24		AR\AJ	Ok
8	PCHLORICC250	PCHLORICC250	PD089989.D	19 Aug 2025 11:37		AR\AJ	Ok
9	PCHLORICC050	PCHLORICC050	PD089990.D	19 Aug 2025 11:51		AR\AJ	Ok,M
10	PCHLORICV500	ICVPD081825CHLOR	PD089991.D	19 Aug 2025 12:28		AR\AJ	Ok
11	I.BLK	I.BLK	PD089992.D	19 Aug 2025 13:29		AR\AJ	Ok
12	PEM	PEM	PD089993.D	19 Aug 2025 13:43		AR\AJ	Ok,M
13	PSTDCCC050	PSTDCCC050	PD089994.D	19 Aug 2025 13:56		AR\AJ	Ok
14	PCHLORCCC500	PCHLORCCC500	PD089995.D	19 Aug 2025 14:48		AR\AJ	Ok
15	PTOXCCC500	PTOXCCC500	PD089996.D	19 Aug 2025 15:04		AR\AJ	Ok,M
16	PB169206BS	PB169206BS	PD089997.D	19 Aug 2025 16:02	CHLOR BS	AR\AJ	Ok
17	PB169206BS	PB169206BS	PD089998.D	19 Aug 2025 16:16	TOX BS	AR\AJ	Ok
18	I.BLK	I.BLK	PD089999.D	19 Aug 2025 16:38		AR\AJ	Ok

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD081925

Review By	Abdul	Review On	8/20/2025 8:42:02 AM
Supervise By	mohammad	Supervise On	8/22/2025 2:04:20 AM
SubDirectory	PD081925	HP Acquire Method	HP Processing Method pd081825 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24433,PP24651		
Initial Calibration Stds	PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,P P24763,PP24764		
CCC	PP24751,PP24756,PP24761		
Internal Standard/PEM			
ICV/I.BLK	PP24754,PP24759,PP24761		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	PSTDCCC050	PSTDCCC050	PD090000.D	19 Aug 2025 16:52		AR\AJ	Ok,M
20	PCHLORCCC500	PCHLORCCC500	PD090001.D	19 Aug 2025 17:05		AR\AJ	Ok
21	PTOXCCC500	PTOXCCC500	PD090002.D	19 Aug 2025 17:19		AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD091025

Review By	Abdul	Review On	9/11/2025 1:10:37 PM
Supervise By	mohammad	Supervise On	9/16/2025 4:00:37 AM
SubDirectory	PD091025	HP Acquire Method	HP Processing Method pd081825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24890,PP24651
Initial Calibration Stds	PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,P P24763,PP24764
CCC	PP24751,PP24756,PP24761
Internal Standard/PEM	
ICV/I.BLK	PP24754,PP24759,PP24761
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD090218.D	10 Sep 2025 13:41		AR\AJ	Ok
2	I.BLK	I.BLK	PD090219.D	10 Sep 2025 13:55		AR\AJ	Ok
3	PEM	PEM	PD090220.D	10 Sep 2025 14:08		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PD090221.D	10 Sep 2025 14:22		AR\AJ	Ok,M
5	PCHLORCCC500	PCHLORCCC500	PD090222.D	10 Sep 2025 15:41		AR\AJ	Ok,M
6	PTOXCCC500	PTOXCCC500	PD090223.D	10 Sep 2025 15:55		AR\AJ	Ok
7	Q3015-11	WP0925-PT-CHLR-WP	PD090224.D	10 Sep 2025 16:15		AR\AJ	Ok,M
8	Q3015-13	WP0925-PT-TXP-WP	PD090225.D	10 Sep 2025 16:28	need dilution	AR\AJ	Dilution
9	Q3015-13DL	WP0925-PT-TXP-WPD	PD090226.D	10 Sep 2025 16:48		AR\AJ	Ok,M
10	PB169636BL	PB169636BL	PD090227.D	10 Sep 2025 17:02		AR\AJ	Ok
11	PB169636BS	PB169636BS	PD090228.D	10 Sep 2025 17:16	CHLOR BS	AR\AJ	Not Ok
12	PB169637BL	PB169637BL	PD090229.D	10 Sep 2025 17:29		AR\AJ	Ok
13	PB169637BS	PB169637BS	PD090230.D	10 Sep 2025 17:43	TOX BS ,F Flag in 1st column	AR\AJ	Not Ok
14	PB169636BS	PB169636BS	PD090231.D	10 Sep 2025 17:57	CHLOR BS	AR\AJ	Ok,M
15	I.BLK	I.BLK	PD090232.D	10 Sep 2025 18:10		AR\AJ	Ok,M
16	PSTDCCC050	PSTDCCC050	PD090233.D	10 Sep 2025 18:24		AR\AJ	Ok,M
17	PCHLORCCC500	PCHLORCCC500	PD090234.D	10 Sep 2025 18:38		AR\AJ	Ok,M
18	PTOXCCC500	PTOXCCC500	PD090235.D	10 Sep 2025 18:51		AR\AJ	Ok

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QC Batch ID # PD091025

Review By	Abdul	Review On	9/11/2025 1:10:37 PM
Supervise By	mohammad	Supervise On	9/16/2025 4:00:37 AM
SubDirectory	PD091025	HP Acquire Method	HP Processing Method
			pd081825 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP24890,PP24651		
Initial Calibration Stds	PP24744,PP24746,PP24748,PP24750,PP24751,PP24752,PP24753,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,P P24763,PP24764		
CCC	PP24751,PP24756,PP24761		
Internal Standard/PEM			
ICV/I.BLK	PP24754,PP24759,PP24761		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

M : Manual Integration

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SOP ID: M3510C,3580A-Extraction Pesticide-17

Clean Up SOP #: Florisil

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3953

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 09/10/2025

Extraction Start Time : 08:46

Extraction End Date : 09/10/2025

Extraction End Time : 13:30

Concentration By: EH

Supervisor By : ritesh

Extraction Method: ☒ Separatory Funnel ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	200 PPB	PP24663
Spike Sol 1	2.0ML	1000 PPB	PP24925
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	E3964
Baked Na2SO4	N/A	EP2636
Hexane	N/A	E3968
Florisil	N/A	E3927
9:1 Hexane:Acetone Mixture	N/A	EP2596
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:

40ML Vial Lot#03-40BTS721.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

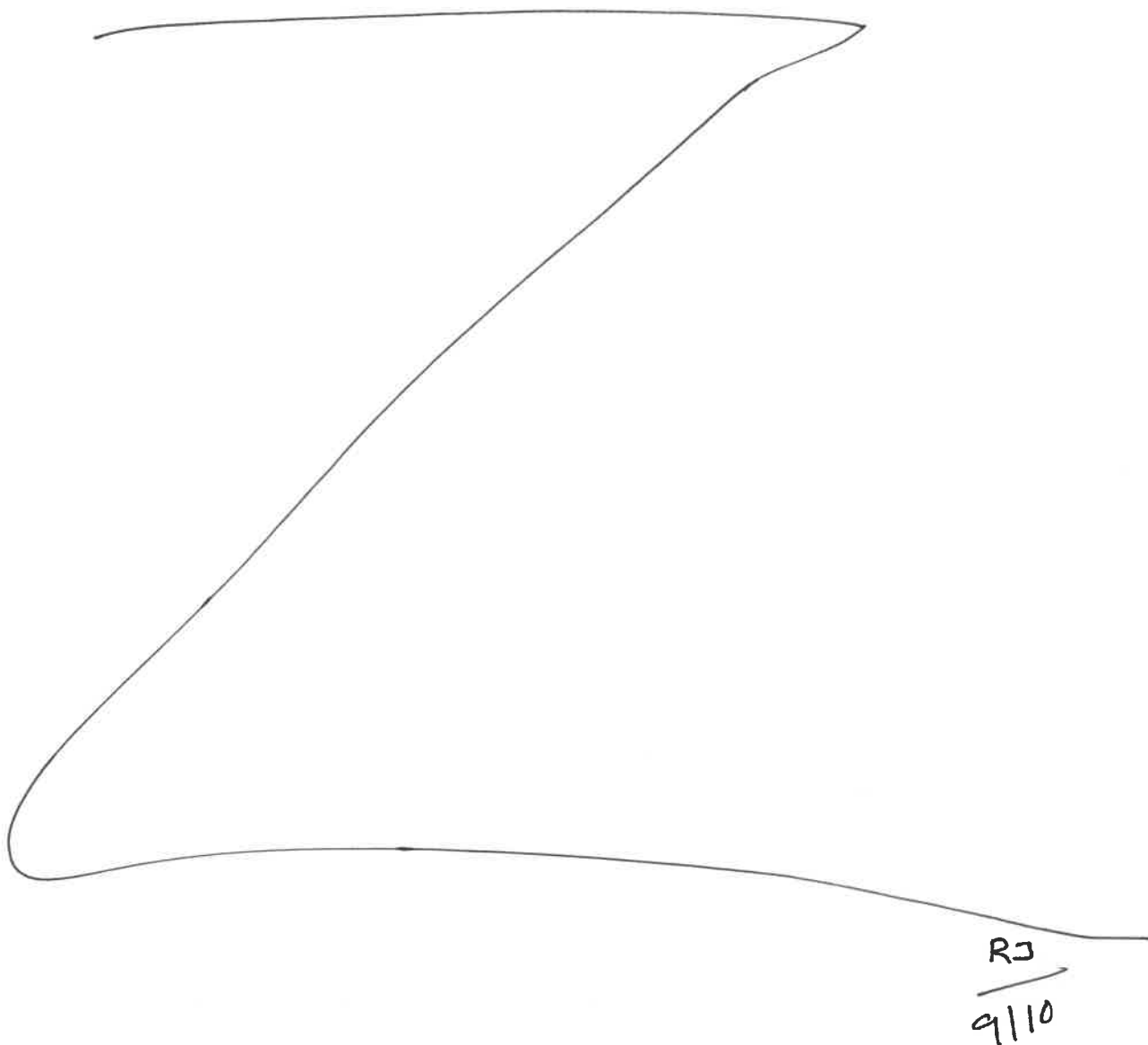
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/10/25	RJ LEXI-106)	y.p. PEST/PLB.
13:35	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction Pesticide-17

Concentration Date: 09/10/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169636BL	PBLK636	PESTICIDE Group2	1000	6	ritesh	Evelyn	10			SEP-1
PB169636BS	PLCS636	PESTICIDE Group2	1000	6	ritesh	Evelyn	10			2
Q3015-11	WP0925-PT-CHLR-WP	PESTICIDE Group2	1000	6	ritesh	Evelyn	10			3



RJ
9/10

* Extracts relinquished on the same date as received.

169628
8:46 am

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3015C

WorkList ID : 191780

Department : Extraction

Date : 09-10-2025 08:41:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3015-11	WP0925-PT-CHLR-WP	Water	PESTICIDE Group2	Cool 4 deg C	ALLI03	QA Of	09/02/2025	8081B

Date/Time 09/10/25 8:41

Raw Sample Received by: RJ LEX (lab)

Raw Sample Relinquished by: _____

Date/Time 09/10/25 9:10

Raw Sample Received by: _____

Raw Sample Relinquished by: RJ LEX (lab)

Prep Standard - Chemical Standard Summary

Order ID : Q3015
Test : PESTICIDE Group2
Prepbatch ID : PB169636,
Sequence ID/Qc Batch ID: pd091025,

Standard ID :

EP2596,EP2636,PP24651,PP24663,PP24738,PP24739,PP24740,PP24741,PP24742,PP24744,PP24745,PP24746,PP24747,PP24748,PP24749,PP24750,PP24751,PP24752,PP24753,PP24754,PP24755,PP24756,PP24757,PP24758,PP24759,PP24760,PP24761,PP24762,PP24763,PP24764,PP24805,PP24890,PP24925,

Chemical ID :

E3875,E3914,E3915,E3927,E3941,E3944,E3956,E3962,E3964,E3965,E3968,P12604,P12610,P13038,P13041,P13196,P13246,P13774,P13786,P13788,P13789,P13862,P9053,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1215	FLOROSIL CLEAN UP-WASHING SOLN	EP2596	03/27/2025	09/19/2025	Rajesh Parikh	None	None	Evelyn Huang
								03/27/2025

FROM 100.00000ml of E3915 + 900.00000ml of E3914 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2636	08/27/2025	01/28/2026	Riteshkumar Patel	Extraction_SC ALE_2	None	Evelyn Huang
						(EX-SC-2)		08/27/2025

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4027	Pesticide resolution Check Mixture 8081	PP24651	06/16/2025	12/11/2025	Abdul Mirza	None	None	Yogesh Patel
								07/22/2025

FROM 1.00000ml of P13246 + 99.00000ml of E3941 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
465	200 PPB Pest/PCB Surrogate Spike	PP24663	06/24/2025	12/24/2025	Abdul Mirza	None	None	Yogesh Patel
								07/21/2025

FROM 1.00000ml of P13786 + 999.00000ml of E3944 = Final Quantity: 1000.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3629	20 PPM PEST stock Solution 1st source(RESTEK)	PP24738	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 1.00000ml of P13038 + 9.00000ml of E3956 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1472	20 PPM Pest Stock Solution 2nd Source	PP24739	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 1.00000ml of P13041 + 9.00000ml of E3956 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1273	20 PPM Mirex Stock (Primary Source)	PP24740	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 1.00000ml of P9053 + 9.00000ml of E3956 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3663	20 PPM MIREX Stock STD (Secondary source)	PP24741	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 1.00000ml of P13196 + 9.00000ml of E3956 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
84	Pest/PCB Surrogate Stock 20 PPM	PP24742	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 1.00000ml of P13788 + 9.00000ml of E3956 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3630	100/100 PPB PEST Working std.1st Source(RESTEK)	PP24744	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 98.50000ml of E3956 + 0.50000ml of PP24738 + 0.50000ml of PP24740 + 0.50000ml of PP24742 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
80	100/100 PPB Pesticide Working Solution 2nd Source	PP24745	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 98.50000ml of E3956 + 0.50000ml of PP24739 + 0.50000ml of PP24741 + 0.50000ml of PP24742 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
386	1000/100 PPB Chlordane STD (Restek)	PP24746	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.10000ml of P12604 + 99.40000ml of E3956 + 0.50000ml of PP24742 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3746	1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE	PP24747	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.10000ml of P12610 + 99.40000ml of E3956 + 0.50000ml of PP24742 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
383	1000/100 PPB Toxaphene STD (Restek)	PP24748	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.10000ml of P13774 + 99.40000ml of E3956 + 0.50000ml of PP24742 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3669	1000/100 PPB TOXAPHENE STD 2nd source (RESTEK)	PP24749	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.10000ml of P13862 + 99.40000ml of E3956 + 0.50000ml of PP24742 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3631	75 PPB ICAL PEST STD(RESTEK)	PP24750	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.25000ml of E3956 + 0.75000ml of PP24744 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3632	50 PPB ICAL PEST STD(RESTEK)	PP24751	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.50000ml of E3956 + 0.50000ml of PP24744 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3633	25 PPB ICAL PEST STD(RESTEK)	PP24752	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.75000ml of E3956 + 0.25000ml of PP24744 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3634	5 PPB ICAL PEST STD(RESTEK)	PP24753	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.90000ml of E3956 + 0.10000ml of PP24751 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3988	50 PPB PEST ICV STD(RESTEK)	PP24754	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.50000ml of E3956 + 0.50000ml of PP24745 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
528	CHLOR 750 PPB STD	PP24755	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
07/24/2025								

FROM 0.25000ml of E3956 + 0.75000ml of PP24746 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
529	CHLOR 500 PPB STD	PP24756	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
07/24/2025								

FROM 0.50000ml of E3956 + 0.50000ml of PP24746 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
530	CHLOR 250 PPB STD	PP24757	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.75000ml of E3956 + 0.25000ml of PP24746 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3408	CHLOR 50 PPB STD	PP24758	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.90000ml of E3956 + 0.10000ml of PP24756 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
532	CHLOR 500 PPB ICV STD	PP24759	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.50000ml of E3956 + 0.50000ml of PP24747 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
533	TOX 750 PPB STD	PP24760	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.25000ml of E3956 + 0.75000ml of PP24748 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
534	TOX 500 PPB STD	PP24761	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
07/24/2025								

FROM 0.50000ml of E3956 + 0.50000ml of PP24748 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
535	TOX 250 PPB STD	PP24762	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
07/24/2025								

FROM 0.75000ml of E3956 + 0.25000ml of PP24748 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2217	TOX 100 PPB STD	PP24763	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.90000ml of E3956 + 0.10000ml of PP24748 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3670	TOX 500 PPB ICV std (RESTEK)	PP24764	07/21/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 0.50000ml of PP24749 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
84	Pest/PCB Surrogate Stock 20 PPM	PP24805	08/18/2025	02/18/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 1.00000ml of P13789 + 9.00000ml of E3962 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
518	Pest/PCB I.BLK 20 PPB	PP24890	08/20/2025	02/18/2026	Abdul Mirza	None	None	Yogesh Patel
								09/17/2025

FROM 99.90000ml of E3962 + 0.10000ml of PP24805 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1501	1000 ppb CHLORDANE SPIKE (RESTEK)	PP24925	09/08/2025	01/21/2026	Abdul Mirza	None	None	Yogesh Patel
FROM 0.10000ml of P12610 + 99.90000ml of E3965 = Final Quantity: 100.000 ml								

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	243570	09/19/2025	03/19/2025 / RUPESH	03/13/2025 / RUPESH	E3914

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/26/2025	03/26/2025 / Rajesh	03/19/2025 / RUPESH	E3915

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
phenomenex	FS0006 / Cleanert SPE Silica, 1000 mg/6ml	Z0830QB1	04/18/2026	05/30/2025 / RUPESH	03/13/2025 / RUPESH	E3927

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	243570	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3941

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	06/20/2025 / RUPESH	05/14/2025 / RUPESH	E3944

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/16/2025 / RUPESH	07/16/2025 / RUPESH	E3956

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	08/05/2025 / RUPESH	07/30/2025 / RUPESH	E3962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25C1262005	04/16/2026	08/14/2025 / RUPESH	03/06/2025 / RUPESH	E3964

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	08/22/2025 / RUPESH	08/20/2025 / RUPESH	E3965

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25CO362005	03/03/2026	09/03/2025 / Riteshkumar	08/27/2025 / Riteshkumar	E3968

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0197993	01/21/2026	07/21/2025 / Abdul	07/03/2023 / Abdul	P12604

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0197993	01/21/2026	07/21/2025 / Abdul	07/03/2023 / Abdul	P12610

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0200423	01/21/2026	07/21/2025 / Abdul	12/26/2023 / Abdul	P13038

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0199099	07/21/2026	07/21/2025 / Abdul	12/26/2023 / Abdul	P13041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	042022	01/21/2026	07/21/2025 / Abdul	01/17/2024 / Abdul	P13196

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	19161 / 8081 pesticide resolution check mixture	013124	12/17/2025	06/17/2025 / Abdul	02/09/2024 / Abdul	P13246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203038	01/21/2026	07/21/2025 / Abdul	05/03/2024 / Ankita	P13774

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0214495	12/24/2025	06/24/2025 / Abdul	11/19/2024 / Ankita	P13786

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0214495	01/21/2026	07/21/2025 / Abdul	11/19/2024 / Ankita	P13788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0214495	02/18/2026	08/18/2025 / yogesh	11/19/2024 / Ankita	P13789

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0210240	01/21/2026	07/21/2025 / Abdul	12/09/2024 / Abdul	P13862

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	112018	01/21/2026	07/21/2025 / Abdul	11/01/2019 / Stephen	P9053

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantorsm



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Rec on 8/20/25

E3965

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC



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

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

RE-02-01, Ed. 3

E 3875

Certificate of Analysis

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

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

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

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

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

Recd by RS on 3/14/25



E3914

Harout Sahagian - Quality Control Manager - Fair Lawn

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

*Based on suggested storage condition.

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Recd. by RS on 3/19/25

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3915

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

Cleanert Florisil

1g/6ml 30/pkg

LOT#: Z0830QB1

MFG#: G01256

CAT# FS0006



Made in China

Agela Technologies

固相萃取产品

E3927



Certificate of Analysis

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

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

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

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

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

Harout Sahagian

Recd. by RI on 6/11/25

E3941

Harout Sahagian - Quality Control Manager - Fair Lawn

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

*Based on suggested storage condition.

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

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

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

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

E3944

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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



Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date: 2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

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

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

Received on 7/16/25

E3956

Jamie Croak
Director Quality Operations, Bioscience Production

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



Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date: 2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

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

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

Received on 7/30/25

E3962

Jamie Croak
Director Quality Operations, Bioscience Production

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



Material No.: 9266-A4
Batch No.: 25C1262005
Manufactured Date: 2025-01-15
Expiration Date: 2026-04-16
Revision No.: 0

Certificate of Analysis

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

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

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

Received on .

E 3964

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor

Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date: 2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5\%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95\%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05\%$	$< 0.01\%$

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

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

Rec on 8/27/25

E 3968

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32291 Lot No.: A0199099

Description : Organochlorine Pesticide Mix AB #1

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

Container Size : 2 mL Pkg Amt: > 1 mL

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

Ship: Ambient

P130397 5
↓
P13043 1
✓
12-26-2023

CERTIFIED VALUES

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

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

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

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

P 13039
 ↓
 P13043
 1
 5
 12/26/23

Quality Confirmation Test

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

Carrier Gas:
 helium-constant pressure 20 psi.

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

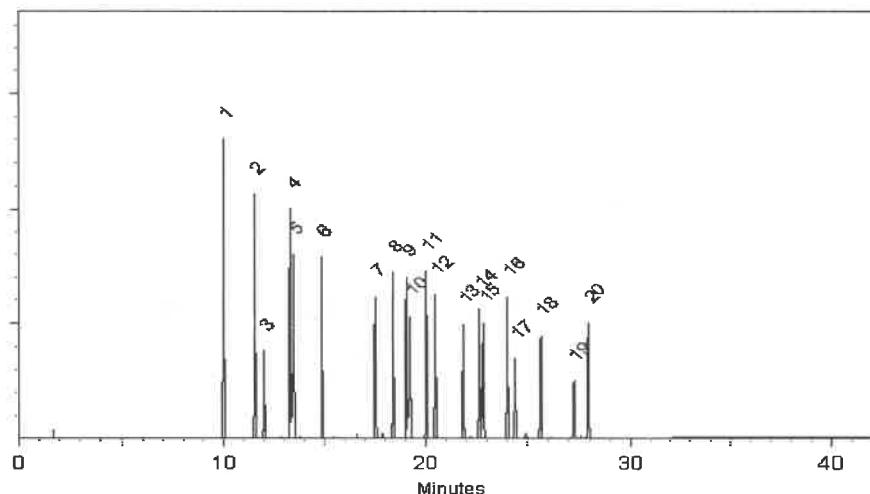
Inj. Temp:
 200°C

Det. Temp:
 300°C

Det. Type:
 ECD

Split Vent:
 Split ratio 50:1

Inj. Vol
 1µl



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

Josh McCloskey
 Josh McCloskey - Operations Technician I

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

Jennifer Pollino
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Jun-2023

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



CERTIFIED WEIGHT REPORT

Part Number: **79136**
Lot Number: **042022**
Description: **Mirex**

Solvent(s):
Acetone
Lot#: 81025

<i>Prashant Chauhan</i>		042022
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		042022
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 042027
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

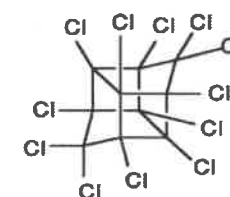
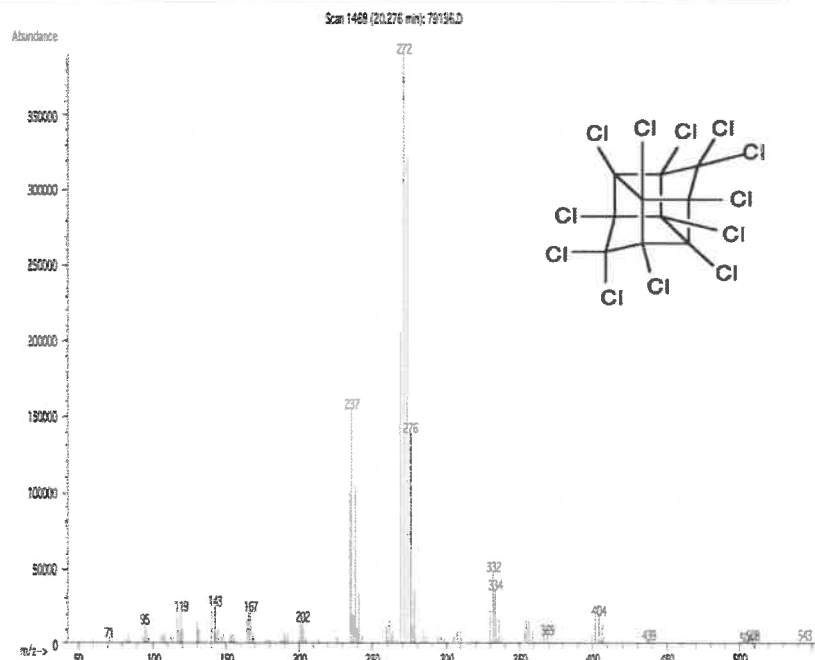
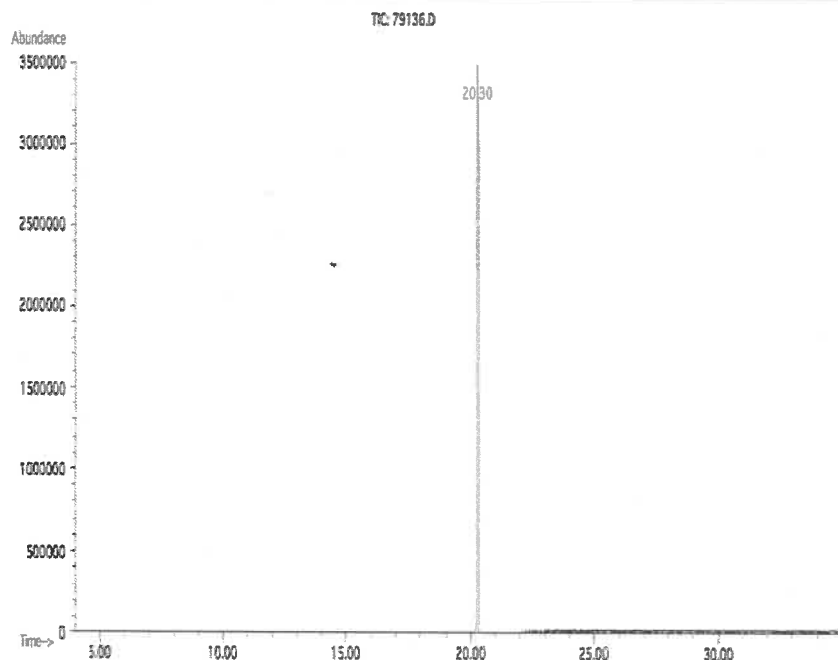
5E-05 Balance Uncertainty
0.006 Flask Uncertainty

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

Expanded
SDS Information
(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Mirex	437	9492400	1000	99.4	0.5	0.05034	0.05040	1001.1	10.3	2385-85-5	N/A	ori-rat 306mg/kg

Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B = 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.



P13195
↓
P13199
↓
(5)
↓
W. H. H. H.
01/17/2024

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

P 12603
↓
P 12605
[3]
Kauf
7/3/2023

CERTIFIED VALUES

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

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

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

Tech Tips:

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

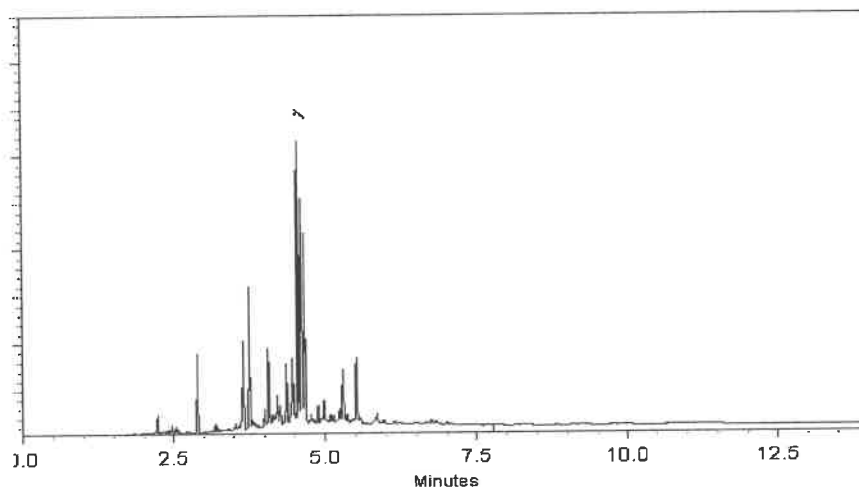
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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


Morgan Craighead - Mix Technician

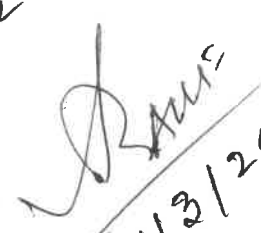
Date Mixed: 11-May-2023

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-May-2023

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

P 12603 } (3)
↓
P 12605

7/2/2023



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis *chromatographic plus*



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Handwritten: P 12606, P 12610, 5 Five, 7/3/2023

CERTIFIED VALUES

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

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

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

Tech Tips:

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C
@ 25°C/min. { hold 10 min.}

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

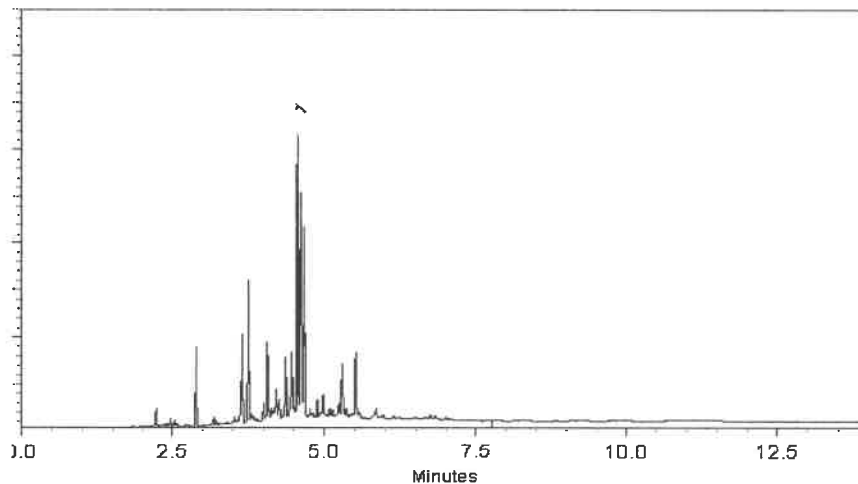
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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

Morgan Craighead - Mix Technician

Date Mixed: 11-May-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-May-2023

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Organochlorine Pesticide Mix AB #1

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

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

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

Ship: Ambient

P 13034
↓
P 13038
12.26.2023

CERTIFIED VALUES

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

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

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

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

P13034
P13038
1
5
12/26/2023

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 20 psi.

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

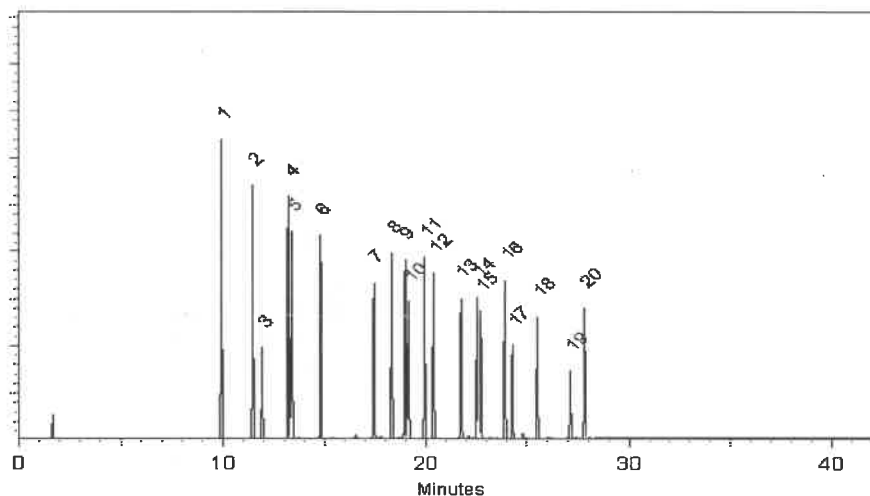
Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
Split ratio 50:1

Inj. Vol
1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 31-Jul-2023

Balance Serial # B442140311

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Aug-2023

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



CERTIFIED WEIGHT REPORT

Part Number: **19161**
 Lot Number: **013124**
 Description: **CLP Pesticides & PCB's Resolution Check Standard**
 9 components
 Expiration Date: **013129**
 Recommended Storage: **Refrigerate (4 °C)**
 Nominal Concentration (µg/mL): **Varied**
 NIST Test ID#: **6UTB**

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

Volume(s) shown below were combined and diluted to (mL): 100.0
 5E-05 Balance Uncertainty
 0.021 Flask Uncertainty

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

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.)		
									CAS#	OSHA PEL (TWA)	LD50
1. trans-Chlordane	19361	013124	0.010	1.00	0.004	101.3	1.0	0.02	5103-74-2	0.5mg/m3 (skin)	ori-rat 500mg/kg
2. Endosulfan I	19361	013124	0.010	1.00	0.004	101.3	1.0	0.02	959-98-8	0.1mg/m3 (skin)	ori-rat 18mg/kg
3. 4,4'-DDE	19361	013124	0.010	1.00	0.004	201.6	2.0	0.03	72-55-9	N/A	ori-rat 880mg/kg
4. Dieldrin	19361	013124	0.010	1.00	0.004	202.8	2.0	0.03	60-57-1	0.25mg/m3 (skin)	ori-rat 38300ug/kg
5. Endosulfan sulfate	19361	013124	0.010	1.00	0.004	204.2	2.0	0.03	1031-07-8	N/A	ori-rat 18mg/kg
6. Endrin ketone	19361	013124	0.010	1.00	0.004	202.6	2.0	0.03	53494-70-5	N/A	N/A
7. 4,4'-Methoxychlor	19361	013124	0.010	1.00	0.004	1000.7	10.0	0.09	72-43-5	10mg/m3	ori-rat 6000mg/kg
8. 2,4,5,6-Tetrachloro-m-xylene	19361	013124	0.010	1.00	0.004	202.6	2.0	0.03	877-09-8	N/A	N/A
9. Decachlorobiphenyl (209)	19361	013124	0.010	1.00	0.004	202.0	2.0	0.03	2051-24-3	N/A	N/A

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

P13243 } (5)
 ↓
 P13247 }
 ↓
 02/9/2024



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Toxaphene Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

P13773
↓
P13779
AI
11/19/24

05-06-2024

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

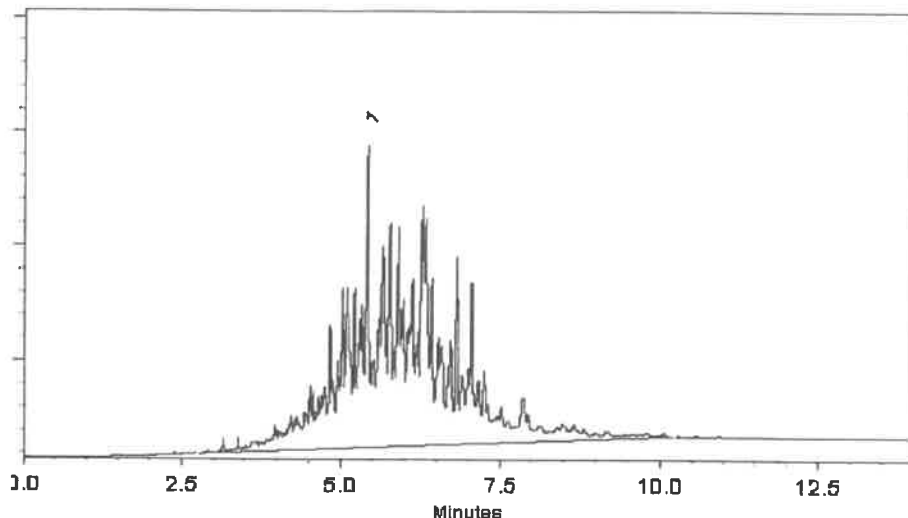
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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


Dakota Parson - Operations Technician I

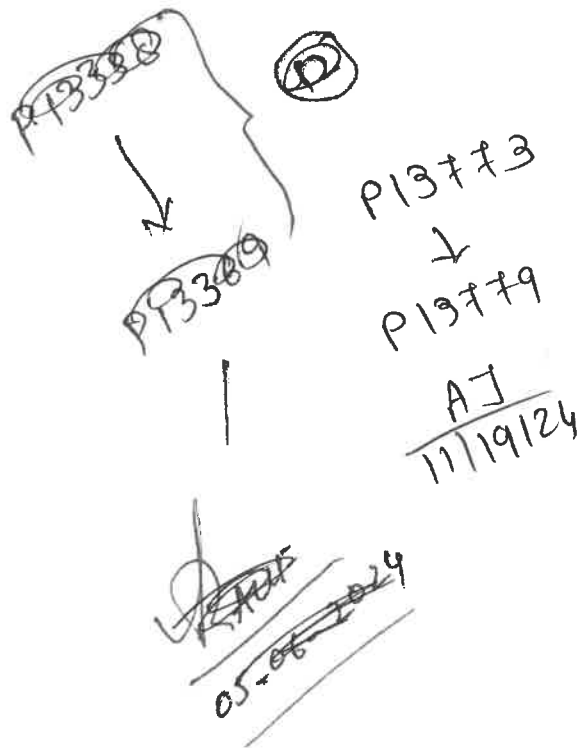
Date Mixed: 10-Oct-2023

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

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


Handwritten notes and signatures at the bottom of the page. On the left, 'P13388' is written with a bracket pointing down to 'P13389'. To the right, 'P13773' is written with a bracket pointing down to 'P13779'. Below these, 'AJ' is written above the date '11/19/24'. At the bottom, there is a signature and the date '05-06-2024'.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

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

P19785
↓
P19789
AJ
11/19/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.2 µg/mL	+/- 11.1087
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30679	99%	201.4 µg/mL	+/- 11.1753

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

heliu-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

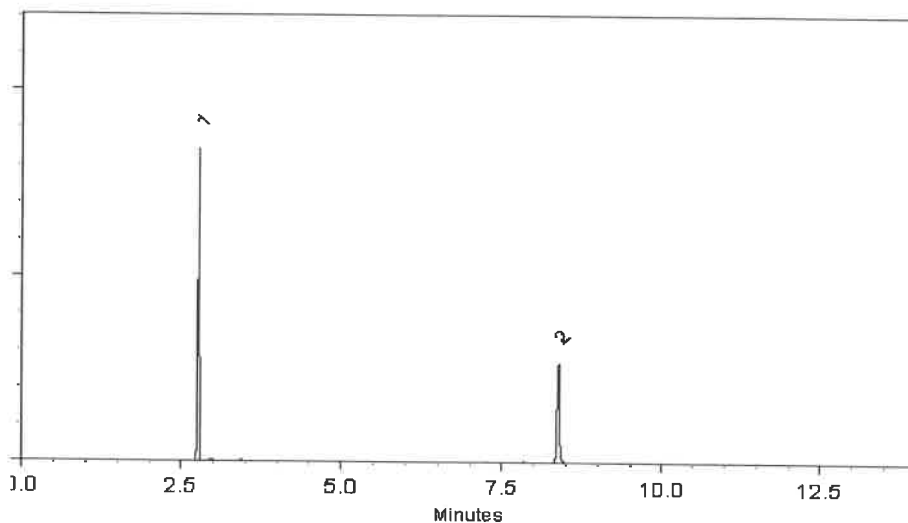
ECD

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

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

Date Mixed: 29-Jul-2024

Balance Serial # B345965662

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Aug-2024

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

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

P19785
↓
P19789
AJ
11/19/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.2 µg/mL	+/- 11.1087
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30679	99%	201.4 µg/mL	+/- 11.1753

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

heliu-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

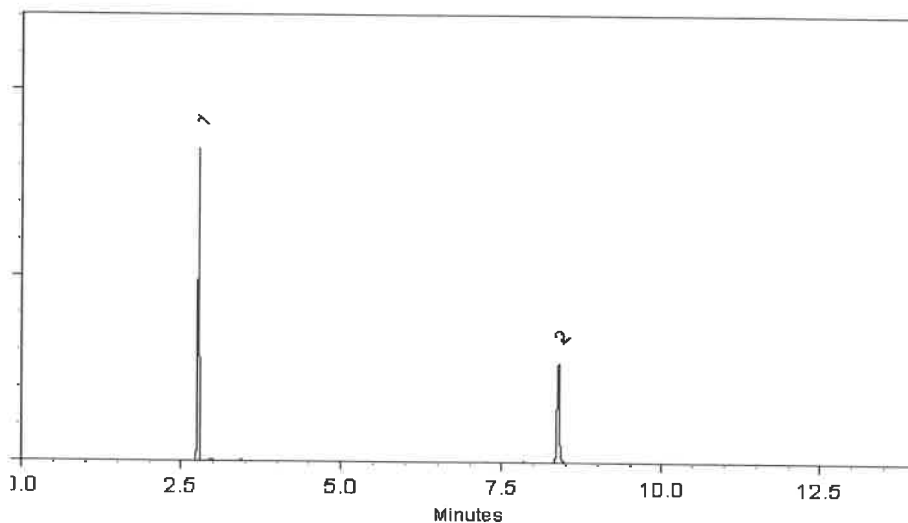
ECD

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

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

Date Mixed: 29-Jul-2024

Balance Serial # B345965662

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Aug-2024

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

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

P19785
↓
P19789
AJ
11/19/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.2 µg/mL	+/- 11.1087
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30679	99%	201.4 µg/mL	+/- 11.1753

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

heliu-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

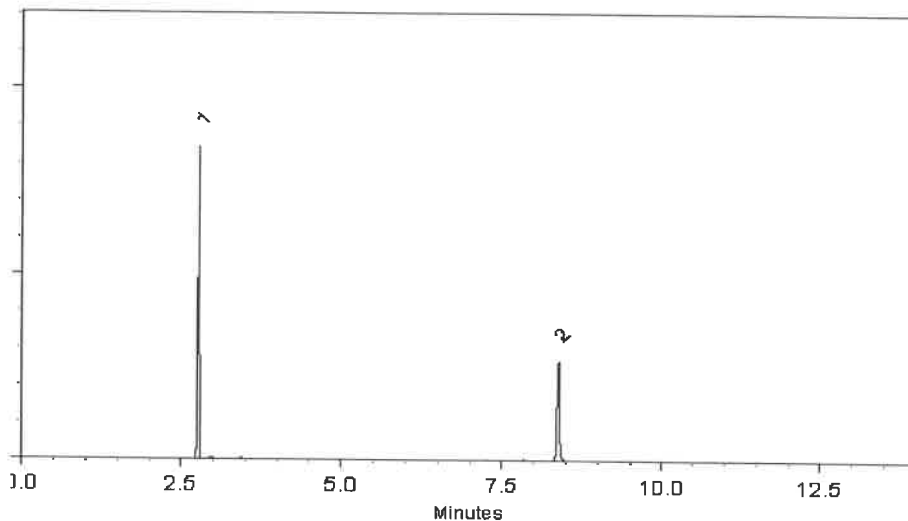
ECD

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

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

Date Mixed: 29-Jul-2024

Balance Serial # B345965662

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Aug-2024

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



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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	----%	1,009.3 µg/mL	+/- 56.0105

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

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

P13861
P13862

12/9/2024

Quality Confirmation Test

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

Carrier Gas:
helium-constant pressure 20 psi.

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

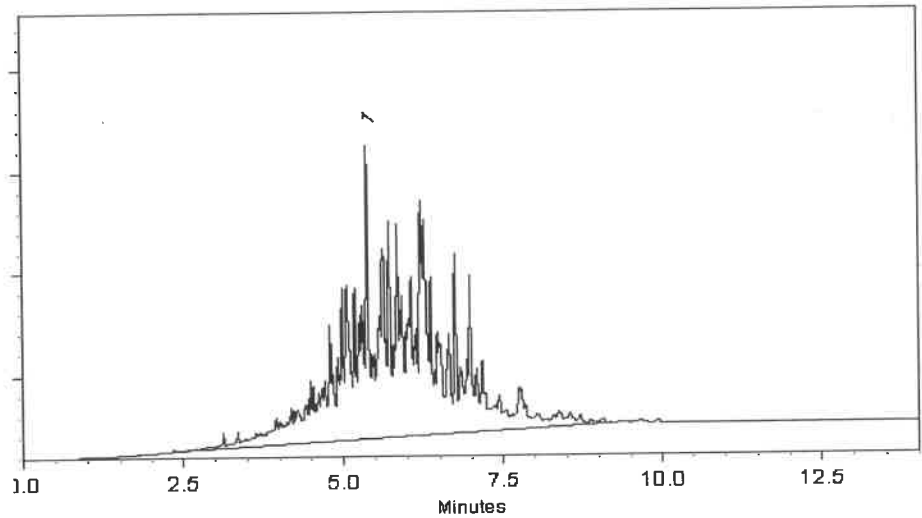
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
300 ml/min.

Inj. Vol
0.2µl



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


Amanda Miller - Operations Tech III - ARM QC

Date Mixed: 11-Apr-2024 **Balance Serial #** B442140311

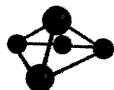

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 26-Apr-2024

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

P13861 } ②
P13862 }
↑

12/9/2024



CERTIFIED WEIGHT REPORT

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

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

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

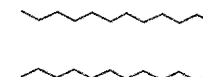
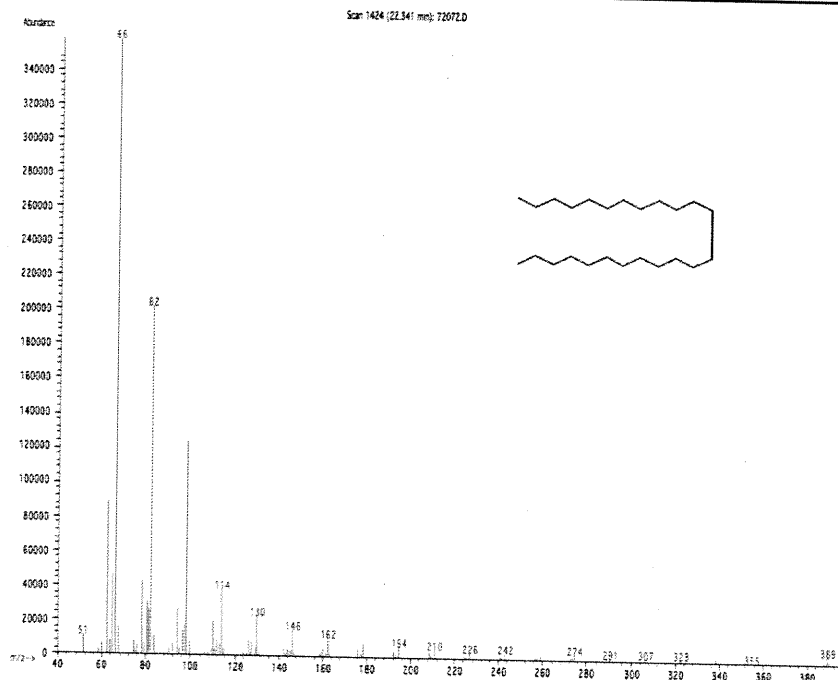
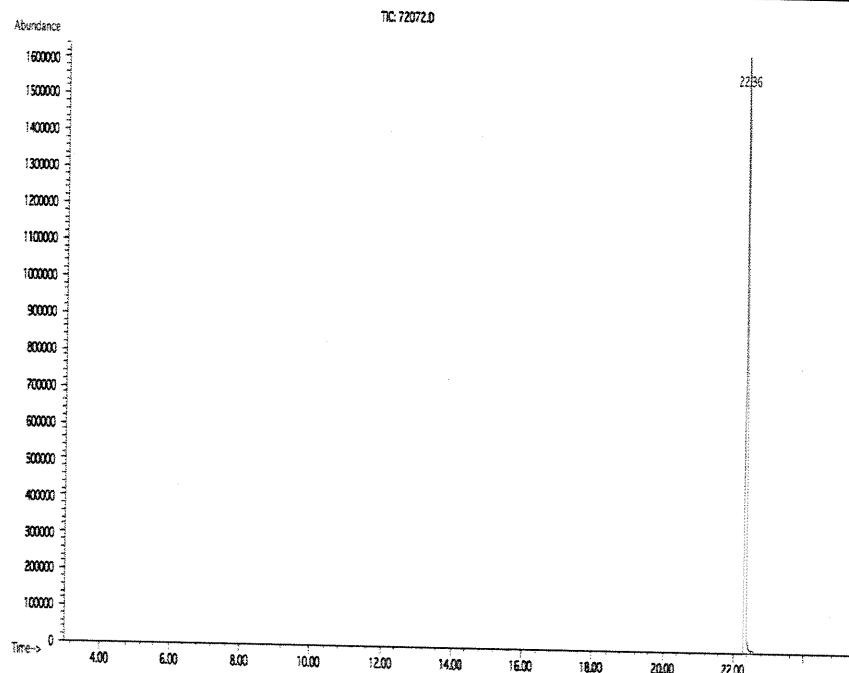
Expiration Date: **112028**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **2684186**

Weight(s) shown below were combined and diluted to (mL):
200.0
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

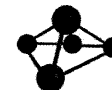
		112018
Formulated By:	Prashant Chauhan	DATE
		112018
Reviewed By:	Pedro Rentas	DATE

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

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



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



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

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

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

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

Analyzed using Method "GC4-M1".

Comments

GC4-M1 Analysis by Melissa Stonier

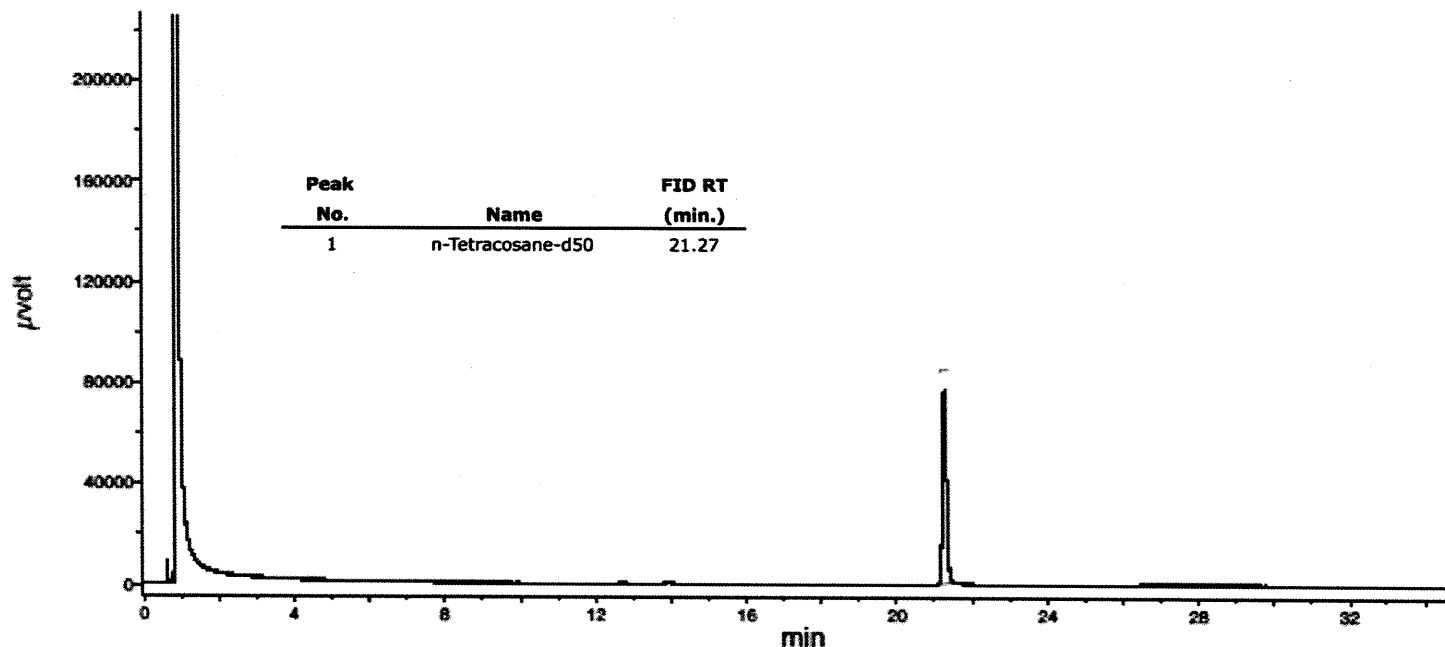
Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5µm Film Thickness

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

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

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

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





SHIPPING DOCUMENTS

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USA

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9:25

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0925	8270-04
1	1	0	PT-HG-WP	WP Mercury	WP0925	8270-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0925	8270-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0925	8270-06
1	1	0	PT-DEM-WP	WP Demand	WP0925	8270-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0925	8270-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0925	8270-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0925	8270-72
1	1	0	PT-COND-WP	WP Conductivity Only	WP0925	8270-72
1	1	0	PT-SOL-WP	WP Solids	WP0925	8270-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0925	8270-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0925	8270-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0925	8270-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0925	8270-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0925	8270-13
1	1	0	PT-PH-WP	WP pH	WP0925	8270-15
1	1	0	PT-CN-WP	WP Cyanide	WP0925	8270-14

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Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-PHEN-WP	WP Phenolics	WP0925	8270-16
1	1	0	PT-S2-WP	WP Sulfide	WP0925	8270-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0925	8270-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0925	8270-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0925	8270-20
1	1	0	PT-SIO2-WP	WP Silica	WP0925	8270-21
1	1	0	PT-COL-WP	WP Color	WP0925	8270-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0925	8270-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0925	8270-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0925	8270-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0925	8270-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0925	8270-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0925	8270-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0925	8270-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0925	8270-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R41815	R41815-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R41815	R41815-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R41815	R41815-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R41815	R41815-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R41815	R41815-98



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PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R41854	R41854-108

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312