

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : NJ WASTE WATER PT

CHEMTECH CONSULTING GROUP

284 Sheffield St,

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : P3845

ATTENTION : QA Officer



Laboratory Certification ID # 20012



1) PESTICIDE GROUP2 Data	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	10
7) Chronicle	11
8) Hit Summary	13
9) QC Data Summary For PESTICIDE Group2	14
9.1) Deuterated Monitoring Compound Summary	15
9.2) LCS/LCSD Summary	17
9.3) Method Blank Summary	18
10) Sample Data	19
10.1) PT-CHLR-WP	20
11) Calibration Data Summary	27
11.1) Initial Calibration Data	28
11.1.1) PL090924	28
11.1.2) PL092324	68
11.2) Continued Calibration Data	108
11.2.1) PL091607.D	108
11.2.2) PL091625.D	118
11.2.3) PL091780.D	128
11.2.4) PL091786.D	138
11.2.5) PL091994.D	148
11.2.6) PL092004.D	158
11.3) Analytical Seq	168
12) Compound Detection Summary	170
13) QC Sample Data	172
13.1) Method Blank Data	173
13.2) PIBLK Data	177
13.3) LCS Data	209
14) Manual Integration	216
15) Analytical Runlogs	228
16) Extraction Logs	248
16.1) PB163230.pdf	248

Table Of Contents for P3845

16.2) PB163230IC.pdf	250
17) Standard Prep Logs	251
18) Shipping Document	329
18.1) Chain Of Custody	330
18.2) Lab Certificate	332

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

Cover Page

Order ID : P3845

Project ID : NJ Waste Water PT

Client : Chemtech Consulting Group

Lab Sample Number

P3845-01
P3845-02
P3845-03
P3845-04
P3845-05
P3845-06
P3845-07
P3845-08
P3845-09
P3845-10
P3845-11
P3845-12
P3845-13
P3845-14
P3845-15
P3845-16
P3845-17
P3845-18
P3845-19
P3845-20
P3845-21
P3845-22

Client Sample Number

PT-VOA-WP
PT-VOA-WP
PT-BN-WP
PT-BN-WP
PT-BN-WP
PT-ACIDS-WP
PT-ACIDS-WP
PT-ACIDS-WP
PT-PEST-WP
PT-PEST-WP
PT-CHLR-WP
PT-CHLR-WP
PT-TXP-WP
PT-TXP-WP
PT-PCBW-WP
PT-PCBW-WP
PT-HERB-WP
RR-GAS-WP
RR-DIES-WP
RR-8011-WP
RR-PAH-WP
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: 10/24/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Chemtech Consulting Group

Project Name: NJ Waste Water PT

Project # N/A

Chemtech Project # P3845

Test Name: PESTICIDE Group2

A. Number of Samples and Date of Receipt:

22 Water samples were received on 09/05/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide group1, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, SVOCMS Group6, VOCGC Group 1 and VOCMS Group1. This data package contains results for PESTICIDE Group2.

C. Analytical Techniques:

The analysis was performed on instrument ECD_L. The front column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11 The rear column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. .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 met the acceptable criteria except for PT-CHLR-WP [Tetrachloro-m-xylene(2) - 146%]AS per method one surrogate allowed to fail to meet the criteria per column, No further corrective action was taken.

The Retention Times were acceptable for all samples.

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

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.



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

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

Signature_____

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

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



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

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P3845

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.			
The Surrogate recoveries met the acceptable criteria except for PT-CHLR-WP [Tetrachloro-m-xylene(2) - 146%]AS per method one surrogate allowed to fail to meet the criteria per column, No further corrective action was taken.			
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 samples .			
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.			



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

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3845

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/24/2024

LAB CHRONICLE

OrderID:	P3845	OrderDate:	9/5/2024 2:19:00 PM
Client:	Chemtech Consulting Group	Project:	NJ Waste Water PT
Contact:	QA Officer	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3845-09	PT-PEST-WP	WATER	PESTICIDE Group1	8081B	09/03/24	09/09/24	09/24/24	09/05/24
P3845-09DL	PT-PEST-WPDL	WATER	PESTICIDE Group1	8081B	09/03/24	09/09/24	09/24/24	09/05/24
P3845-09DL 2	PT-PEST-WPDL2	WATER	PESTICIDE Group1	8081B	09/03/24	09/09/24	09/24/24	09/05/24
P3845-11	PT-CHLR-WP	WATER	PESTICIDE Group2	8081B	09/03/24	09/09/24	09/24/24	09/05/24
P3845-13	PT-TXP-WP	WATER	PESTICIDE Group3	8081B	09/03/24	09/09/24	09/24/24	09/05/24
P3845-13DL	PT-TXP-WPDL	WATER	PESTICIDE Group3	8081B	09/03/24	09/09/24	09/24/24	09/05/24
P3845-15	PT-PCBW-WP	WATER	PCB	8082A	09/03/24	09/09/24	09/10/24	09/05/24
P3845-17	PT-HERB-WP	WATER	Herbicide group1	8151A	09/03/24	09/10/24	09/13/24	09/05/24
P3845-18	RR-GAS-WP	Water	Gasoline Range Organics	8015D	09/03/24		09/09/24	09/05/24
P3845-18RE	RR-GAS-WP	Water	Gasoline Range Organics	8015D	09/03/24		09/09/24	09/05/24
P3845-19	RR-DIES-WP	Water	Diesel Range Organics	8015D	09/03/24	09/09/24	09/10/24	09/05/24

LAB CHRONICLE

P3845-20	RR-8011-WP	WATER			09/03/24			09/05/24
			VOCGC Group 1	8011		09/11/24	09/11/24	
P3845-20DL	RR-8011-WPDL	WATER			09/03/24			09/05/24
			VOCGC Group 1	8011		09/11/24	09/11/24	

Hit Summary Sheet
SW-846

SDG No.: P3845

Order ID: P3845

Client: Chemtech Consulting Group

Project ID: NJ Waste Water PT

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : PT-CHLR-WP							
P3845-11	PT-CHLR-WP	WATER Chlordane	9.00		0.082	0.50	ug/L
Total Concentration:			9.000				



QC SUMMARY

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

Surrogate Summary

SDG No.: **P3845**

Client: **Chemtech Consulting Group**

Analytical Method: **8081B**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PL091568.D	PIBLK-PL091568.D	Decachlorobiphenyl	1	20	26.7	133		43	140
		Tetrachloro-m-xylene	1	20	24.2	121		77	126
		Decachlorobiphenyl	2	20	26.2	131		43	140
		Tetrachloro-m-xylene	2	20	24.3	121		77	126
I.BLK-PL091604.D	PIBLK-PL091604.D	Decachlorobiphenyl	1	20	18.4	92		43	140
		Tetrachloro-m-xylene	1	20	19.0	95		77	126
		Decachlorobiphenyl	2	20	17.3	87		43	140
		Tetrachloro-m-xylene	2	20	18.5	93		77	126
PB163230BL	PB163230BL	Decachlorobiphenyl	1	20	20.2	101		43	140
		Tetrachloro-m-xylene	1	20	20.2	101		77	126
		Decachlorobiphenyl	2	20	22.5	113		43	140
		Tetrachloro-m-xylene	2	20	20.6	103		77	126
I.BLK-PL091623.D	PIBLK-PL091623.D	Decachlorobiphenyl	1	20	20.3	102		43	140
		Tetrachloro-m-xylene	1	20	19.6	98		77	126
		Decachlorobiphenyl	2	20	20.0	100		43	140
		Tetrachloro-m-xylene	2	20	17.9	90		77	126
I.BLK-PL091777.D	PIBLK-PL091777.D	Decachlorobiphenyl	1	20	22.9	115		43	140
		Tetrachloro-m-xylene	1	20	22.3	111		77	126
		Decachlorobiphenyl	2	20	22.1	110		43	140
		Tetrachloro-m-xylene	2	20	20.0	100		77	126
PB163230BS	PB163230BS	Decachlorobiphenyl	1	20	22.6	113		43	140
		Tetrachloro-m-xylene	1	20	20.7	104		77	126
		Decachlorobiphenyl	2	20	21.8	109		43	140
		Tetrachloro-m-xylene	2	20	23.6	118		77	126
I.BLK-PL091784.D	PIBLK-PL091784.D	Decachlorobiphenyl	1	20	23.6	118		43	140
		Tetrachloro-m-xylene	1	20	24.0	120		77	126
		Decachlorobiphenyl	2	20	24.3	122		43	140
		Tetrachloro-m-xylene	2	20	21.4	107		77	126
I.BLK-PL091953.D	PIBLK-PL091953.D	Decachlorobiphenyl	1	20	19.6	98		43	140
		Tetrachloro-m-xylene	1	20	19.0	95		77	126
		Decachlorobiphenyl	2	20	18.7	94		43	140
		Tetrachloro-m-xylene	2	20	18.3	92		77	126
I.BLK-PL091991.D	PIBLK-PL091991.D	Decachlorobiphenyl	1	20	20.7	104		43	140
		Tetrachloro-m-xylene	1	20	20.3	101		77	126
		Decachlorobiphenyl	2	20	19.5	98		43	140
		Tetrachloro-m-xylene	2	20	19.6	98		77	126
P3845-11	PT-CHLR-WP	Decachlorobiphenyl	1	20	23.4	117		43	140
		Tetrachloro-m-xylene	1	20	22.6	113		77	126
		Decachlorobiphenyl	2	20	23.4	117		43	140
		Tetrachloro-m-xylene	2	20	29.2	146	*	77	126
I.BLK-PL092002.D	PIBLK-PL092002.D	Decachlorobiphenyl	1	20	20.9	104		43	140

Surrogate Summary

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PL092002.D	PIBLK-PL092002.D	Tetrachloro-m-xylene	1	20	20.0	100		77	126
		Decachlorobiphenyl	2	20	20.4	102		43	140
		Tetrachloro-m-xylene	2	20	19.5	97		77	126

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: 8081B

Datafile : PL091781.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB163230BS	Chlordane	2	2.10	ug/L	105				80	120		

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163230BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P3845

SAS No.: P3845 SDG NO.: P3845

Lab Sample ID: PB163230BL

Lab File ID: PL091615.D

Matrix: (soil/water) WATER

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 09/09/2024

Date Analyzed (1): 09/10/2024

Date Analyzed (2): 09/10/2024

Time Analyzed (1): 13:52

Time Analyzed (2): 13:52

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

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

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB163230BS	PB163230BS	PL091781.D	09/17/2024	09/17/2024
PT-CHLR-WP	P3845-11	PL091997.D	09/24/2024	09/24/2024

COMMENTS: _____



SAMPLE DATA

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-CHLR-WP	SDG No.:	P3845
Lab Sample ID:	P3845-11	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL091997.D	1	09/09/24 10:00	09/24/24 12:49	PB163230

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	9.00		0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.4		43 - 140	117%	SPK: 20
877-09-8	Tetrachloro-m-xylene	29.2	*	77 - 126	146%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092424\
 Data File : PL091997.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 24 Sep 2024 12:49
 Operator : AR\AJ
 Sample : P3845-11
 Misc : CH/PT
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PT-CHLR-WP

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/25/2024
 Supervised By :Ankita Jodhani 09/25/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 25 01:17:40 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
 Quant Title : GC Extractables
 QLast Update : Mon Sep 23 16:44:57 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.544	2.782	50253973	73190020	22.590	29.182 #
28)	SA Decachlor...	9.060	7.923	38299723	58615110	23.379	23.428
Target Compounds							
23)	Chlordane-1	4.705	3.781	88451622	96969980	862.989m	969.886
24)	Chlordane-2	5.236	4.358	89476995	99265513	834.311	884.515
25)	Chlordane-3	5.946	4.988	275.9E6	301.7E6	736.433	910.947
26)	Chlordane-4	6.027	5.051	327.8E6	286.0E6	723.933	901.317
27)	Chlordane-5	6.876	5.947	71792822	92154249	823.171	849.744

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092424\
Data File : PL091997.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:49
Operator : AR\AJ
Sample : P3845-11
Misc : CH/PT
ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PT-CHLR-WP

Manual Integrations

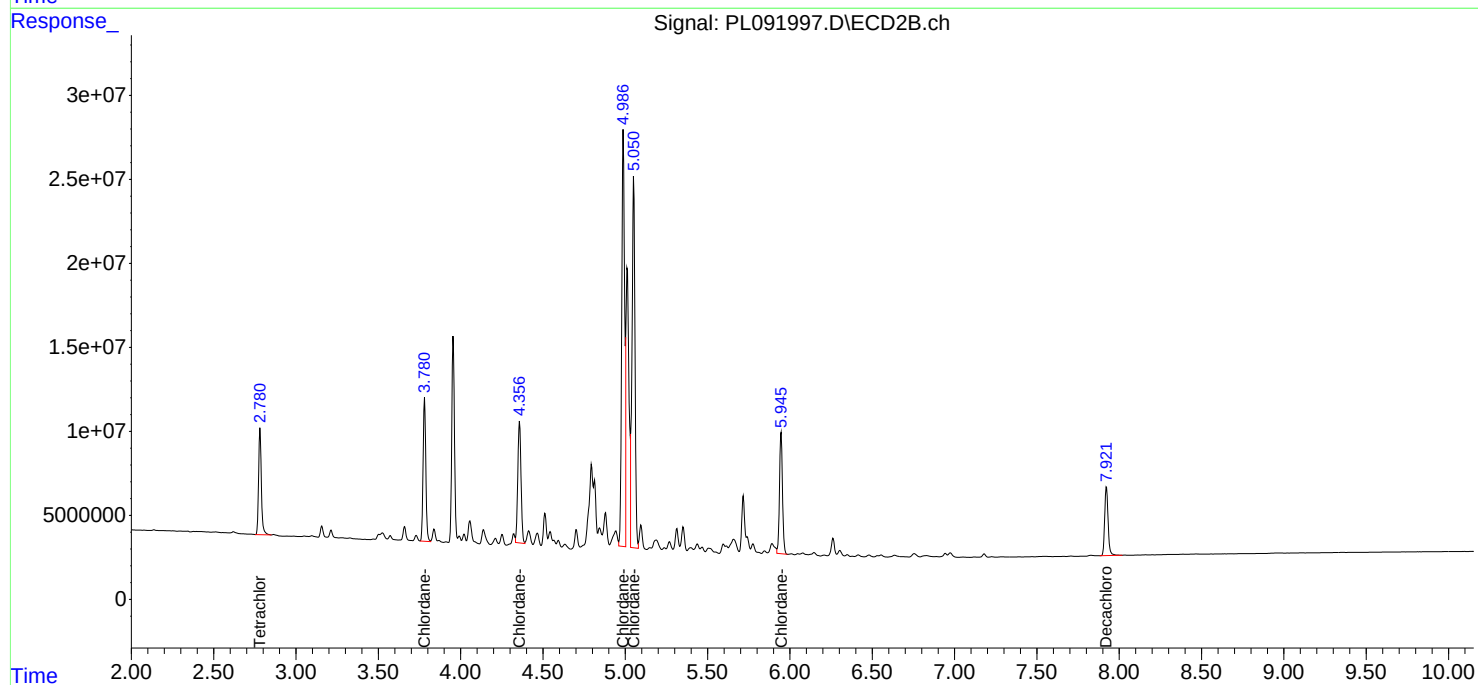
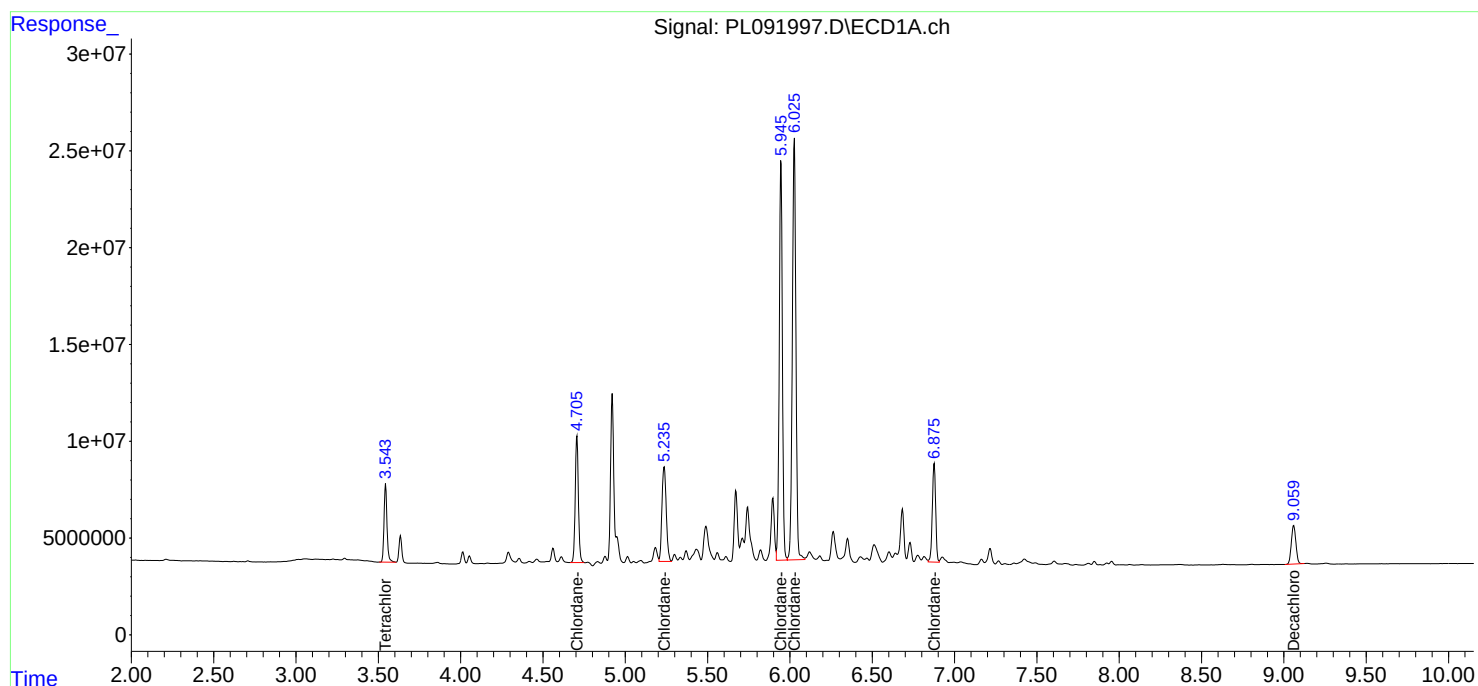
APPROVED

Reviewed By :Abdul Mirza 09/25/2024

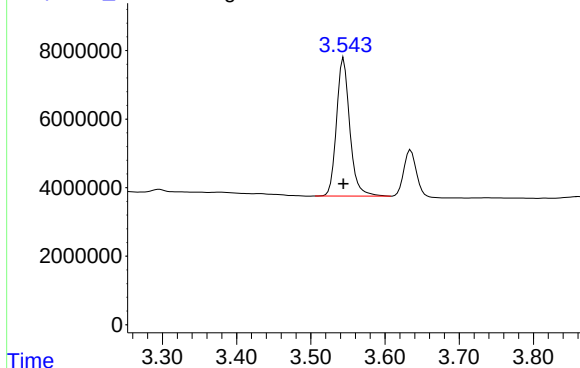
Supervised By :Ankita Jodhani 09/25/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 01:17:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Response_ Signal: PL091997.D\ECD1A.ch



#1 Tetrachloro-m-xylene

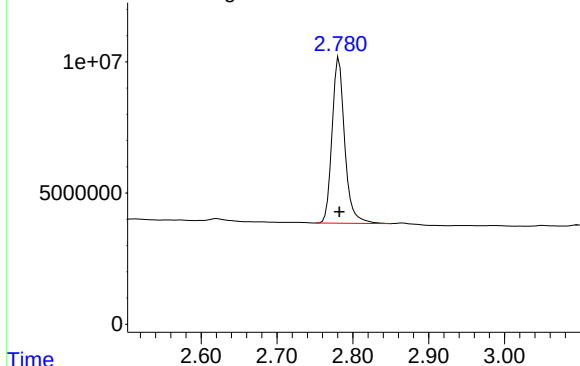
R.T.: 3.544 min
Delta R.T.: 0.000 min
Response: 50253973
Conc: 22.59 ng/ml

Instrument :
ECD_L
ClientSampleId :
PT-CHLR-WP

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/25/2024
Supervised By :Ankita Jodhani 09/25/2024

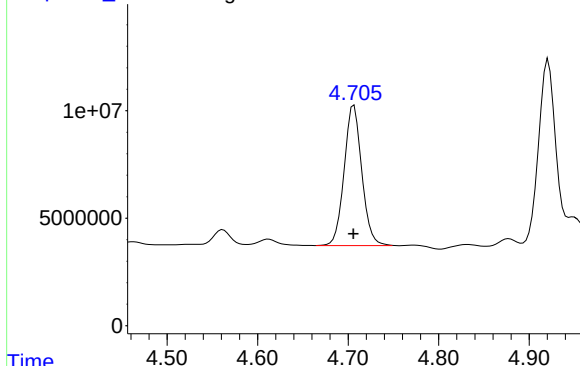
Time Response_ Signal: PL091997.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 2.782 min
Delta R.T.: 0.000 min
Response: 73190020
Conc: 29.18 ng/ml

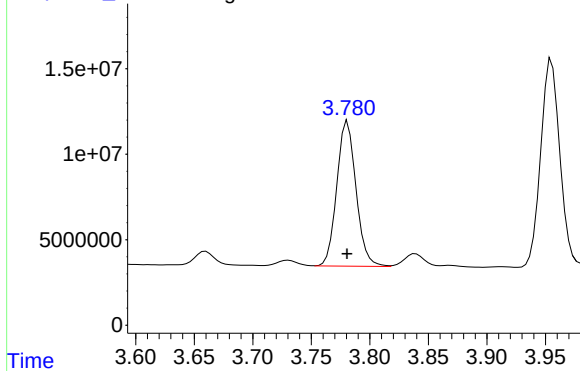
Time Response_ Signal: PL091997.D\ECD1A.ch



#23 Chlordane-1

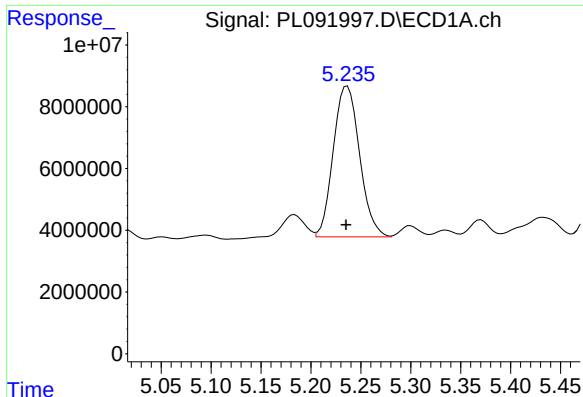
R.T.: 4.705 min
Delta R.T.: 0.000 min
Response: 88451622
Conc: 862.99 ng/ml m

Time Response_ Signal: PL091997.D\ECD2B.ch



#23 Chlordane-1

R.T.: 3.781 min
Delta R.T.: 0.000 min
Response: 96969980
Conc: 969.89 ng/ml



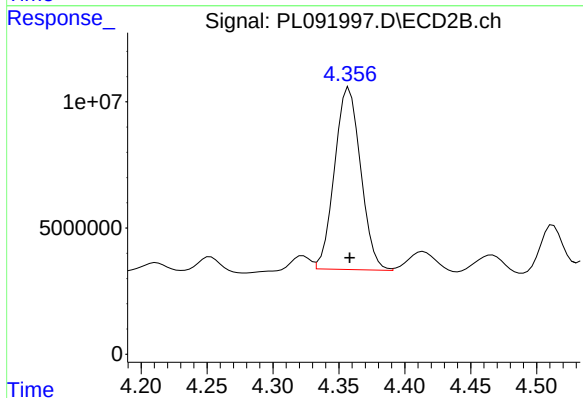
#24 Chlordane-2

R.T.: 5.236 min
Delta R.T.: 0.001 min
Response: 89476995
Conc: 834.31 ng/ml

Instrument :
ECD_L
ClientSampleId :
PT-CHLR-WP

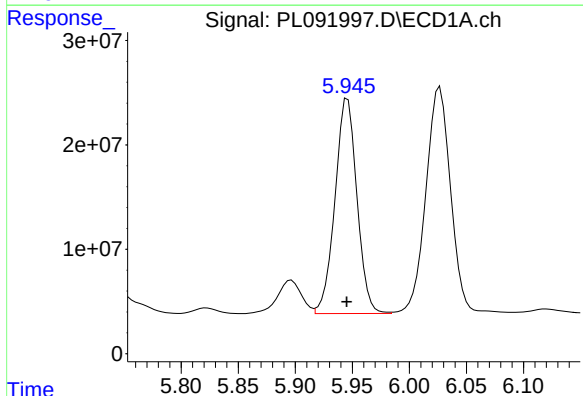
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/25/2024
Supervised By :Ankita Jodhani 09/25/2024



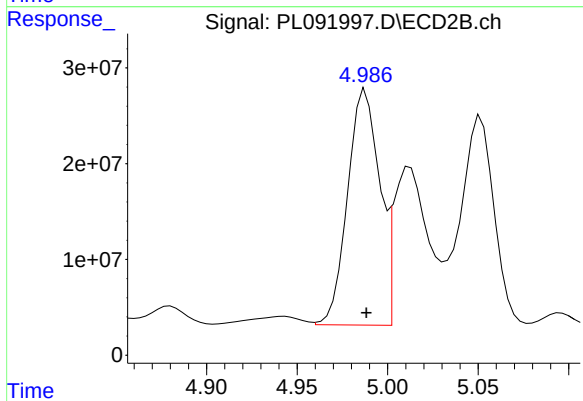
#24 Chlordane-2

R.T.: 4.358 min
Delta R.T.: 0.000 min
Response: 99265513
Conc: 884.51 ng/ml



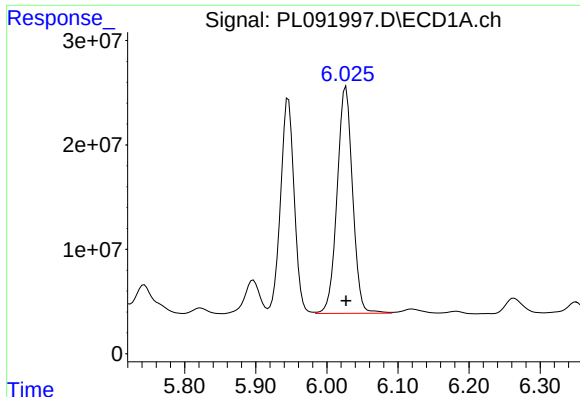
#25 Chlordane-3

R.T.: 5.946 min
Delta R.T.: 0.000 min
Response: 275850737
Conc: 736.43 ng/ml



#25 Chlordane-3

R.T.: 4.988 min
Delta R.T.: 0.000 min
Response: 301731588
Conc: 910.95 ng/ml



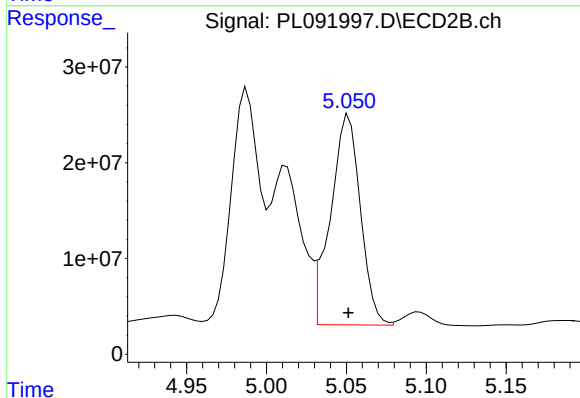
#26 Chlordane-4

R.T.: 6.027 min
Delta R.T.: 0.000 min
Response: 327830598
Conc: 723.93 ng/ml

Instrument :
ECD_L
ClientSampleId :
PT-CHLR-WP

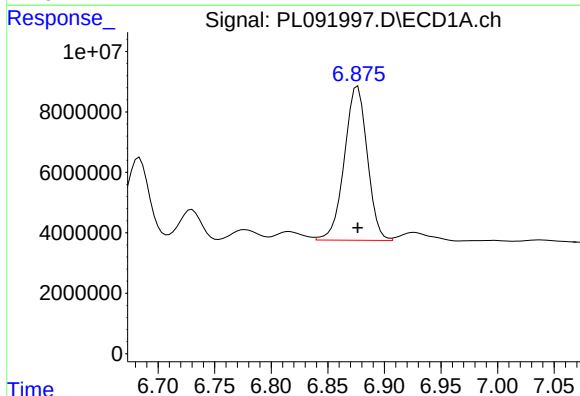
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/25/2024
Supervised By :Ankita Jodhani 09/25/2024



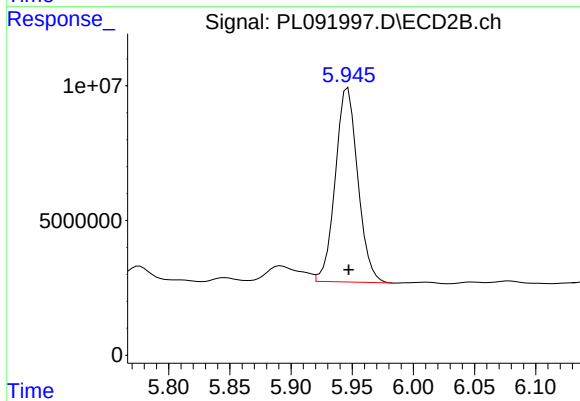
#26 Chlordane-4

R.T.: 5.051 min
Delta R.T.: 0.000 min
Response: 285971708
Conc: 901.32 ng/ml



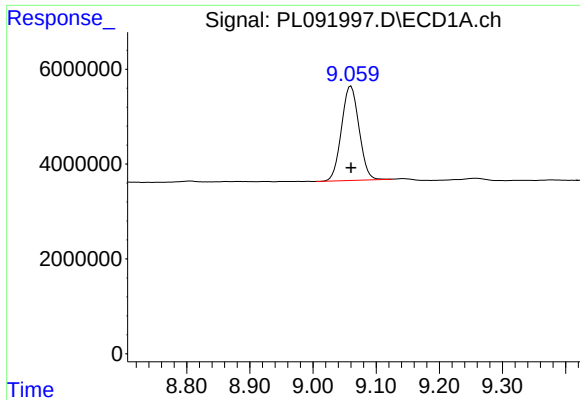
#27 Chlordane-5

R.T.: 6.876 min
Delta R.T.: 0.000 min
Response: 71792822
Conc: 823.17 ng/ml



#27 Chlordane-5

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 92154249
Conc: 849.74 ng/ml



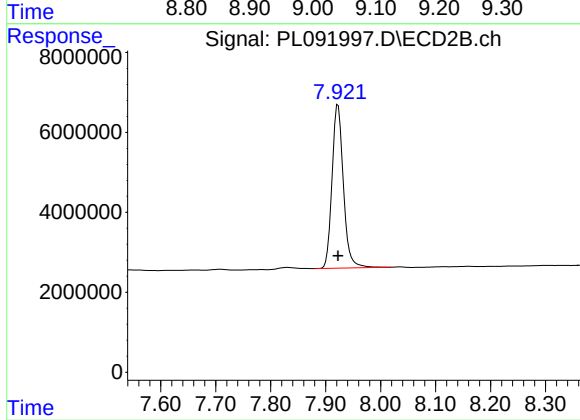
#28 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.000 min
Response: 38299723
Conc: 23.38 ng/ml

Instrument :
ECD_L
ClientSampleId :
PT-CHLR-WP

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/25/2024
Supervised By :Ankita Jodhani 09/25/2024



#28 Decachlorobiphenyl

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 58615110
Conc: 23.43 ng/ml



CALIBRATION SUMMARY

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: CHEM02
Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845
Instrument ID: ECD_L **Calibration Date(s):** 09/09/2024 09/09/2024
Calibration Times: 16:39 17:33

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

LAB FILE ID:	RT 1000 = <u>PL091576.D</u>	RT 750 = <u>PL091577.D</u>
RT 500 = <u>PL091578.D</u>	RT 250 = <u>PL091579.D</u>	RT 050 = <u>PL091580.D</u>

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW	
								FROM	TO
Chlordane-1	(1)	4.71	4.71	4.71	4.71	4.70	4.71	4.61	4.81
Chlordane-2	(2)	5.24	5.24	5.24	5.24	5.23	5.24	5.14	5.34
Chlordane-3	(3)	5.95	5.95	5.95	5.95	5.94	5.94	5.84	6.04
Chlordane-4	(4)	6.03	6.03	6.03	6.03	6.02	6.03	5.93	6.13
Chlordane-5	(5)	6.88	6.88	6.88	6.88	6.87	6.88	6.78	6.98
Decachlorobiphenyl		9.06	9.06	9.06	9.06	9.05	9.06	8.96	9.16
Tetrachloro-m-xylene		3.55	3.54	3.54	3.54	3.54	3.54	3.44	3.64

RETENTION TIMES OF INITIAL CALIBRATION

Contract: CHEM02
Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845
Instrument ID: ECD_L **Calibration Date(s):** 09/09/2024 09/09/2024
Calibration Times: 16:39 17:33

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

LAB FILE ID:	RT 1000 = <u>PL091576.D</u>	RT 750 = <u>PL091577.D</u>
RT 500 = <u>PL091578.D</u>	RT 250 = <u>PL091579.D</u>	RT 050 = <u>PL091580.D</u>

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW	
								FROM	TO
Chlordane-1	(1)	3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Chlordane-2	(2)	4.36	4.36	4.36	4.36	4.36	4.36	4.26	4.46
Chlordane-3	(3)	4.99	4.99	4.99	4.99	4.99	4.99	4.89	5.09
Chlordane-4	(4)	5.05	5.05	5.05	5.05	5.05	5.05	4.95	5.15
Chlordane-5	(5)	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
Decachlorobiphenyl		7.93	7.93	7.93	7.93	7.92	7.92	7.82	8.02
Tetrachloro-m-xylene		2.78	2.78	2.78	2.78	2.78	2.78	2.68	2.88

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02
Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845
Instrument ID: ECD_L **Calibration Date(s):** 09/09/2024 09/09/2024
Calibration Times: 16:39 17:33
GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 1000 = <u>PL091576.D</u>		CF 750 = <u>PL091577.D</u>				
CF 500 = <u>PL091578.D</u>		CF 250 = <u>PL091579.D</u>		CF 050 = <u>PL091580.D</u>				
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Chlordane-1	(1)	60104000	60282100	61426000	63324800	66243900	62276200	4
Chlordane-2	(2)	67677500	68166200	73682000	80245900	94639200	76882200	15
Chlordane-3	(3)	243077000	239434000	245076000	253078000	303831000	256899000	10
Chlordane-4	(4)	291651000	287540000	293225000	291517000	316849000	296156000	4
Chlordane-5	(5)	54634300	54679700	56324700	57073100	62674500	57077200	6
Decachlorobiphenyl		110886000	110532000	116162000	123872000	141200000	120531000	11
Tetrachloro-m-xylene		145376000	144397000	145937000	151539000	172342000	151918000	8

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02
Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845
Instrument ID: ECD_L **Calibration Date(s):** 09/09/2024 09/09/2024
Calibration Times: 16:39 17:33
GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID:		CF 1000 = <u>PL091576.D</u>		CF 750 = <u>PL091577.D</u>				
CF 500 = <u>PL091578.D</u>		CF 250 = <u>PL091579.D</u>		CF 050 = <u>PL091580.D</u>				
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Chlordane-1	(1)	67613300	66665300	67090600	68976700	77478000	69564800	6
Chlordane-2	(2)	72258000	71755500	72881600	75728600	82134300	74951600	6
Chlordane-3	(3)	230321000	228005000	223015000	223493000	260872000	233141000	7
Chlordane-4	(4)	214746000	203770000	208539000	208160000	207449000	208533000	2
Chlordane-5	(5)	73932200	71770200	70854800	69693300	72052400	71660600	2
Decachlorobiphenyl		179514000	178103000	182353000	190238000	208559000	187753000	7
Tetrachloro-m-xylene		226151000	223942000	222367000	222724000	213776000	221792000	2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091576.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 16:39
Operator : AR\AJ
Sample : PCHLORICC1000
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 17:21:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 17:19:08 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.545	2.783	145.4E6	226.2E6	99.807	100.844
28) SA Decachlor...	9.060	7.925	110.9E6	179.5E6	97.676	99.215
Target Compounds						
23) Chlordane-1	4.706	3.782	60104002	67613308	989.122	1003.881
24) Chlordane-2	5.237	4.359	67677534	72257952	957.523	995.703
25) Chlordane-3	5.946	4.990	243.1E6	230.3E6	995.905	1016.117
26) Chlordane-4	6.028	5.052	291.7E6	214.7E6	997.309	1014.664
27) Chlordane-5	6.877	5.949	54634339	73932244	984.766	1021.255

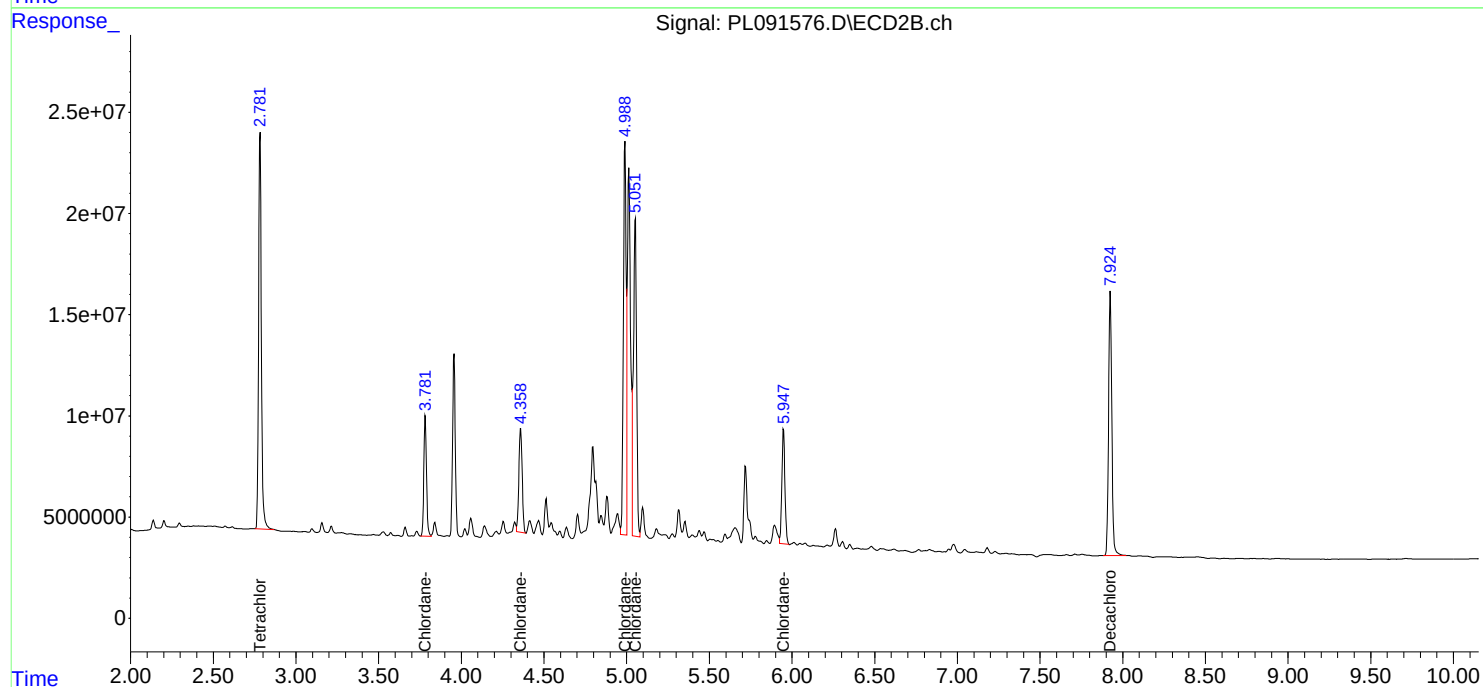
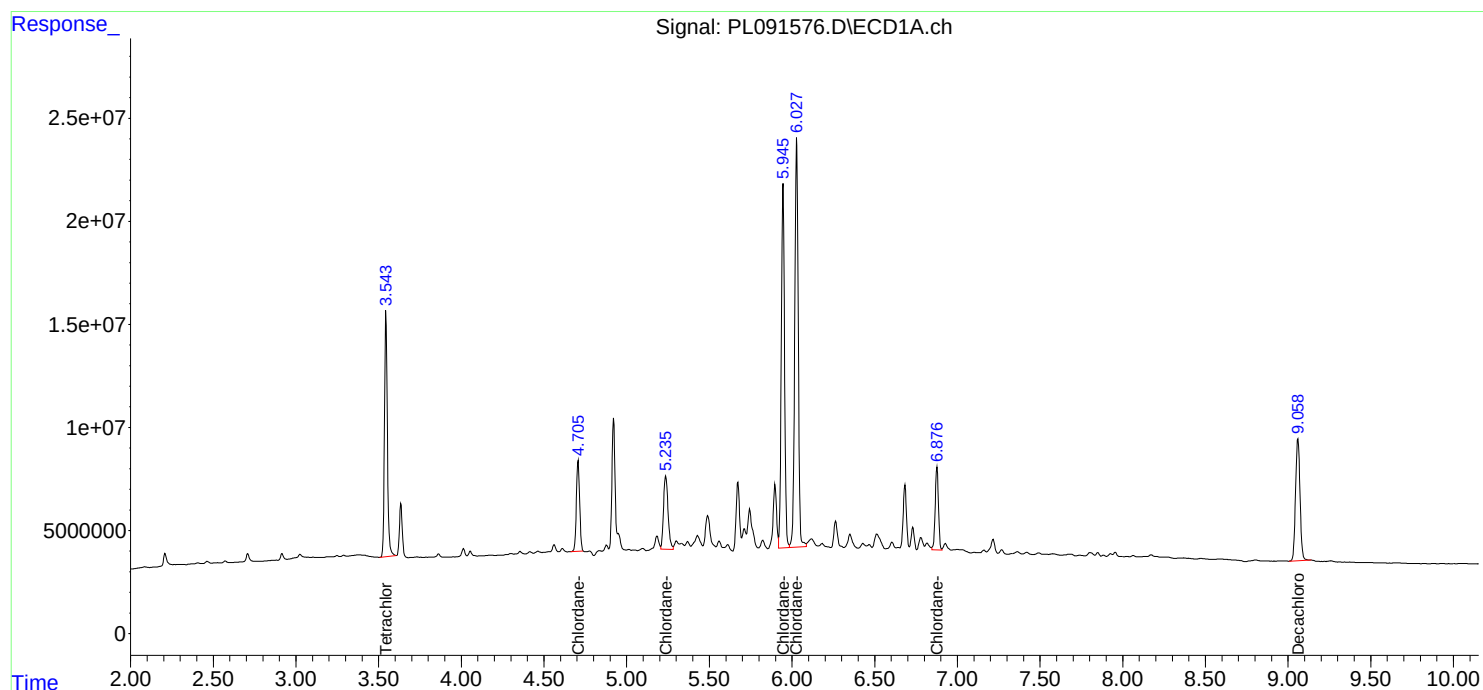
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

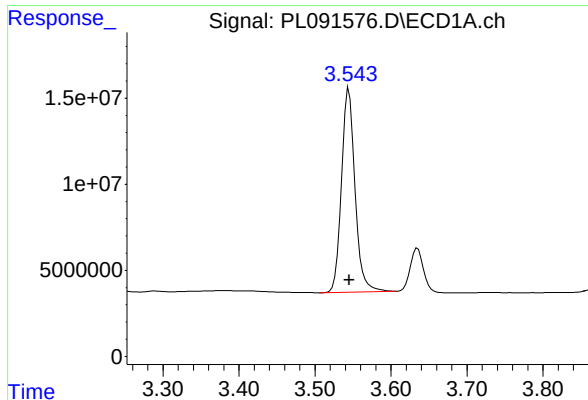
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091576.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 16:39
Operator : AR\AJ
Sample : PCHLORICC1000
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 17:21:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 17:19:08 2024
Response via : Initial Calibration
Integrator: ChemStation

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

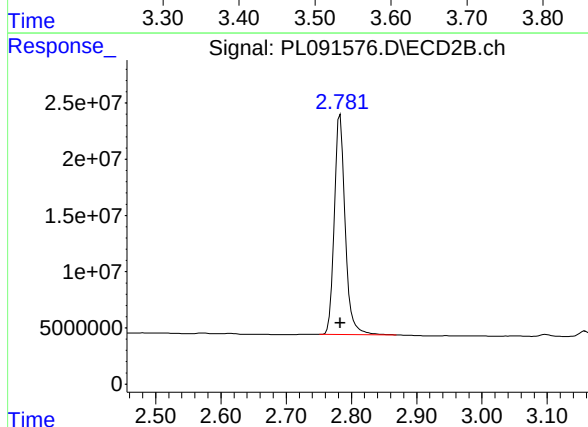




#1 Tetrachloro-m-xylene

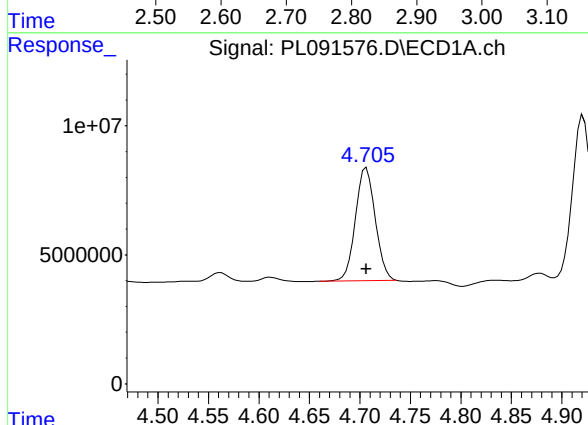
R.T.: 3.545 min
Delta R.T.: 0.000 min
Response: 145375578
Conc: 99.81 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC1000



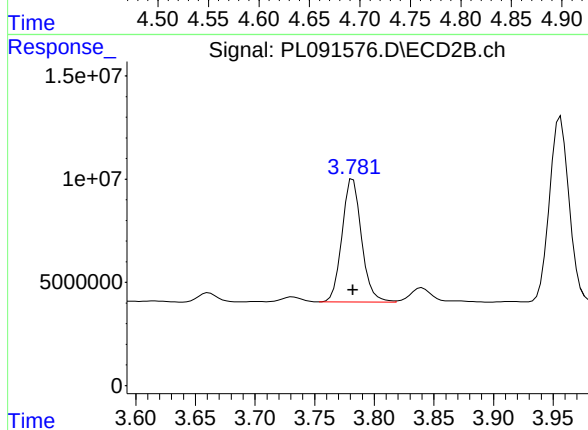
#1 Tetrachloro-m-xylene

R.T.: 2.783 min
Delta R.T.: 0.000 min
Response: 226151413
Conc: 100.84 ng/ml



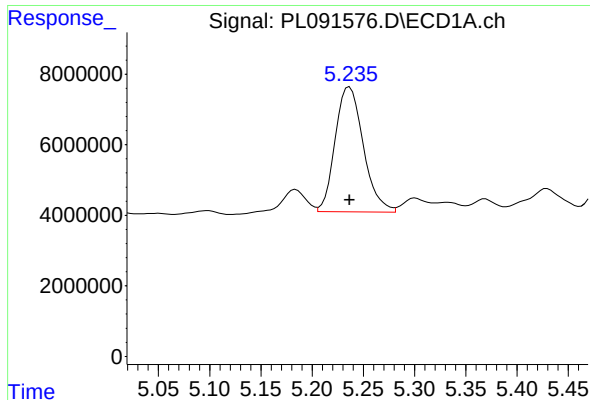
#23 Chlordane-1

R.T.: 4.706 min
Delta R.T.: 0.000 min
Response: 60104002
Conc: 989.12 ng/ml



#23 Chlordane-1

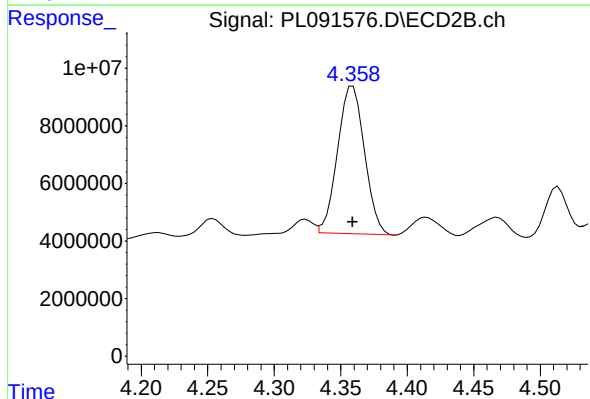
R.T.: 3.782 min
Delta R.T.: 0.000 min
Response: 67613308
Conc: 1003.88 ng/ml



#24 Chlordane-2

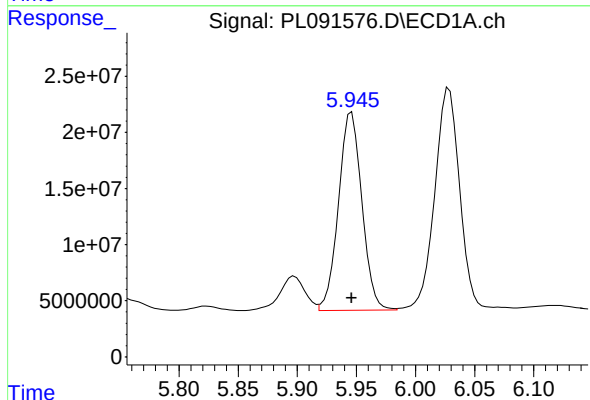
R.T.: 5.237 min
Delta R.T.: 0.000 min
Response: 67677534
Conc: 957.52 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC1000



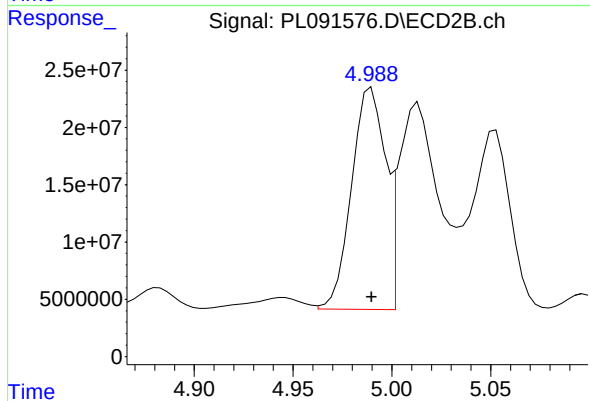
#24 Chlordane-2

R.T.: 4.359 min
Delta R.T.: 0.000 min
Response: 72257952
Conc: 995.70 ng/ml



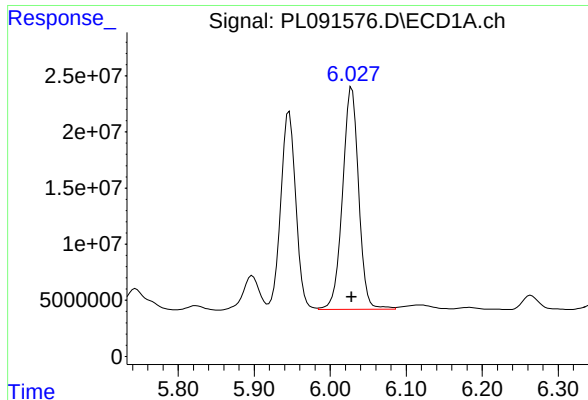
#25 Chlordane-3

R.T.: 5.946 min
Delta R.T.: 0.000 min
Response: 243077143
Conc: 995.90 ng/ml



#25 Chlordane-3

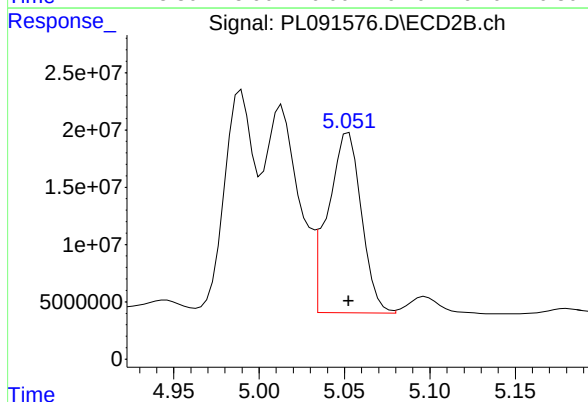
R.T.: 4.990 min
Delta R.T.: 0.000 min
Response: 230321459
Conc: 1016.12 ng/ml



#26 Chlordane-4

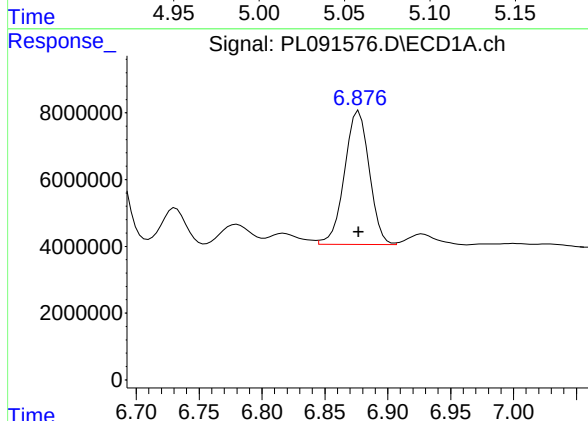
R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 291650819
Conc: 997.31 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC1000



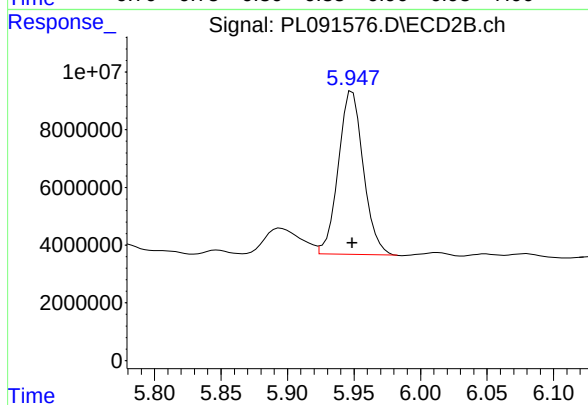
#26 Chlordane-4

R.T.: 5.052 min
Delta R.T.: 0.000 min
Response: 214746368
Conc: 1014.66 ng/ml



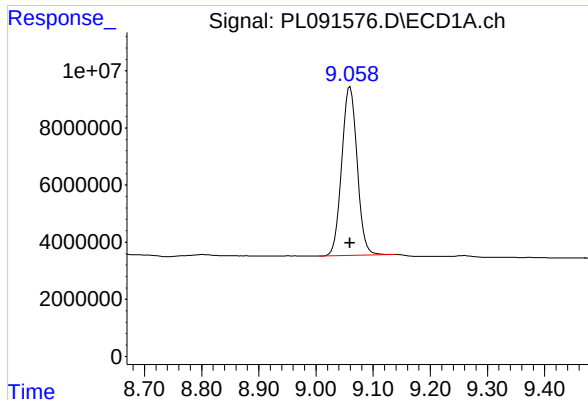
#27 Chlordane-5

R.T.: 6.877 min
Delta R.T.: 0.000 min
Response: 54634339
Conc: 984.77 ng/ml



#27 Chlordane-5

R.T.: 5.949 min
Delta R.T.: 0.000 min
Response: 73932244
Conc: 1021.26 ng/ml

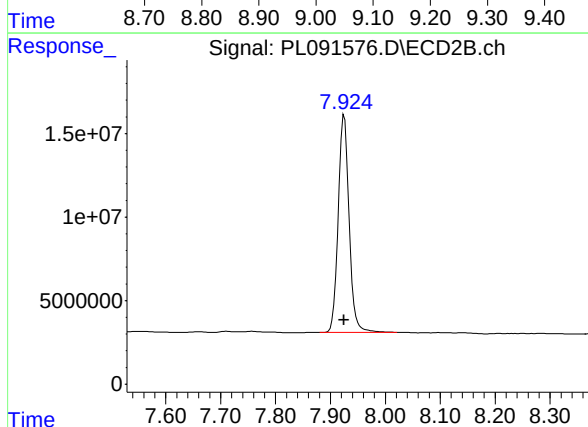


#28 Decachlorobiphenyl

ICAL Form

R.T.: 9.060 min
Delta R.T.: 0.000 min
Response: 110886375
Conc: 97.68 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC1000



#28 Decachlorobiphenyl

R.T.: 7.925 min
Delta R.T.: 0.000 min
Response: 179513714
Conc: 99.22 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091577.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 16:52
Operator : AR\AJ
Sample : PCHLORICC750
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 17:23:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 17:19:08 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.544	2.783	108.3E6	168.0E6	74.566	74.929
28) SA Decachlor...	9.061	7.925	82899124	133.6E6	73.670	74.214
Target Compounds						
23) Chlordane-1	4.706	3.782	45211603	49999002	746.016	744.885
24) Chlordane-2	5.236	4.359	51124678	53816651	732.005	744.369
25) Chlordane-3	5.946	4.990	179.6E6	171.0E6	740.428	752.942
26) Chlordane-4	6.027	5.052	215.7E6	152.8E6	741.579	731.167
27) Chlordane-5	6.876	5.949	41009743	53827664	742.757	745.683

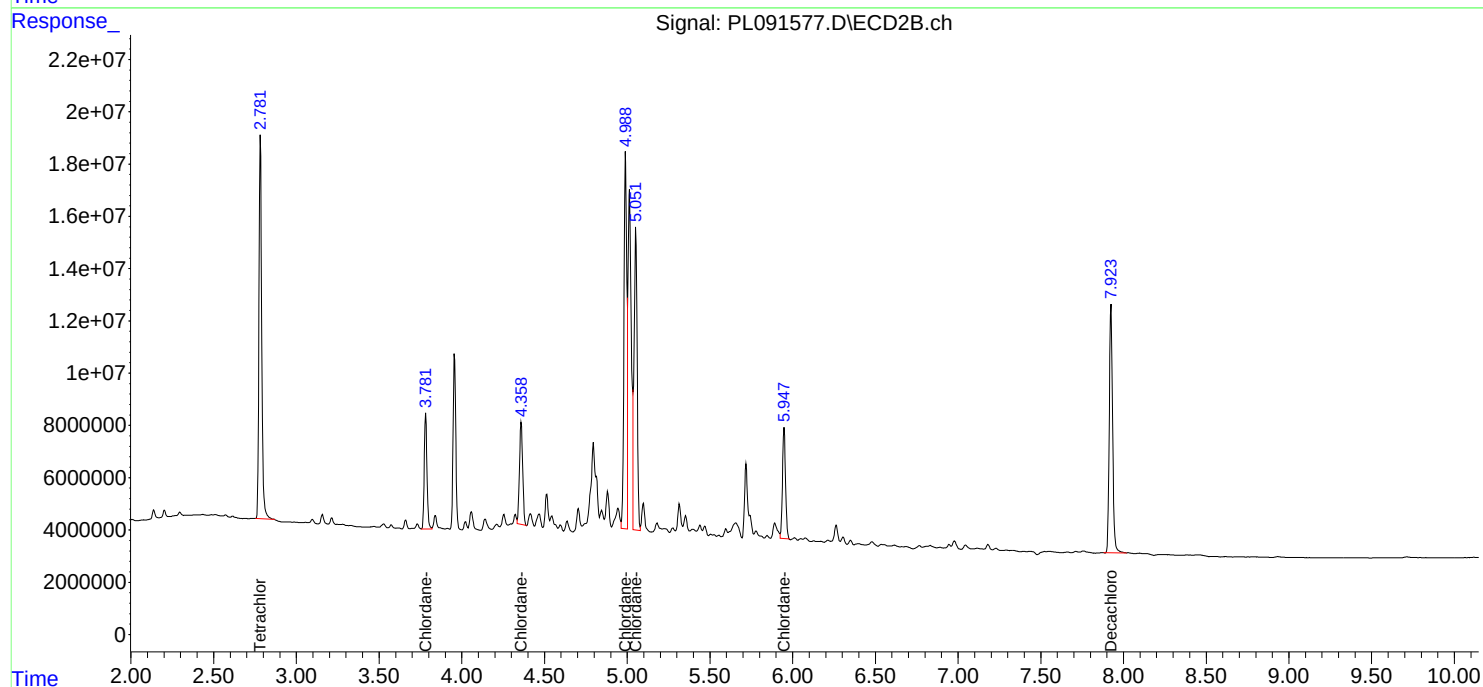
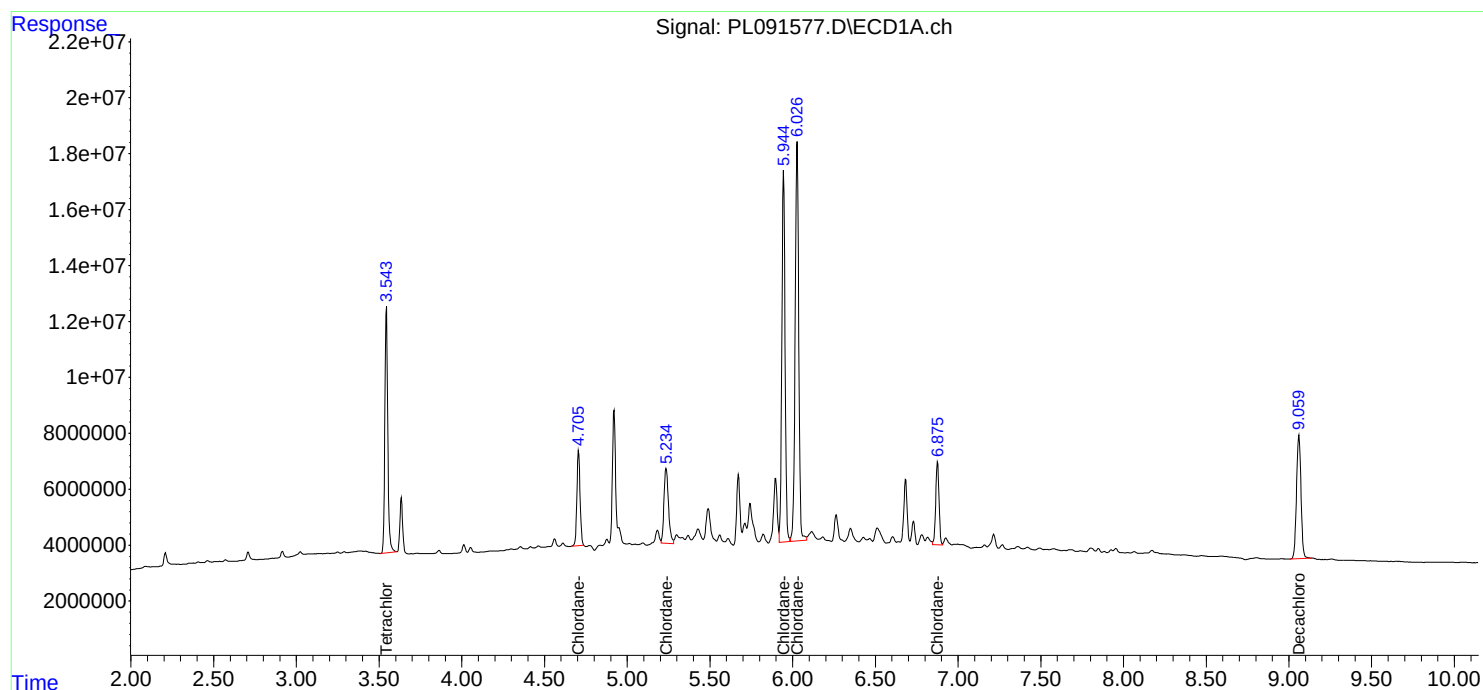
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

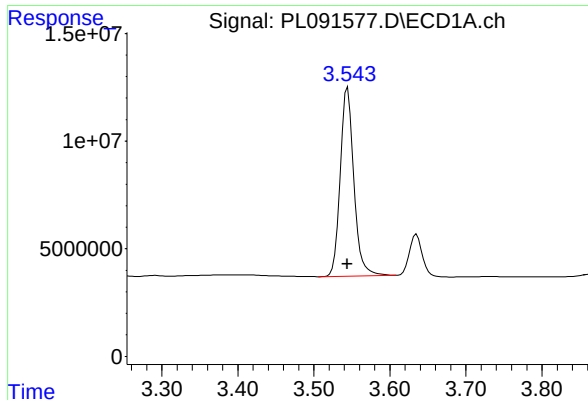
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091577.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 16:52
Operator : AR\AJ
Sample : PCHLORICC750
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 17:23:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 17:19:08 2024
Response via : Initial Calibration
Integrator: ChemStation

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

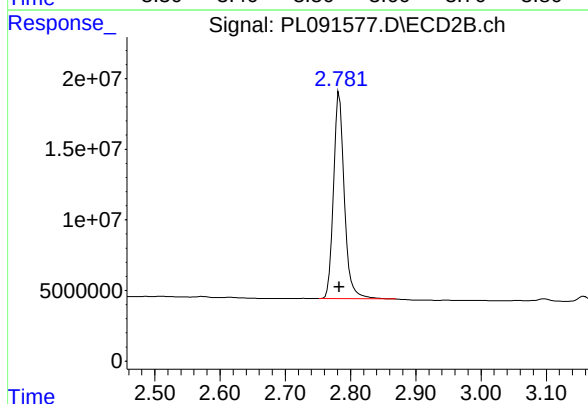




#1 Tetrachloro-m-xylene

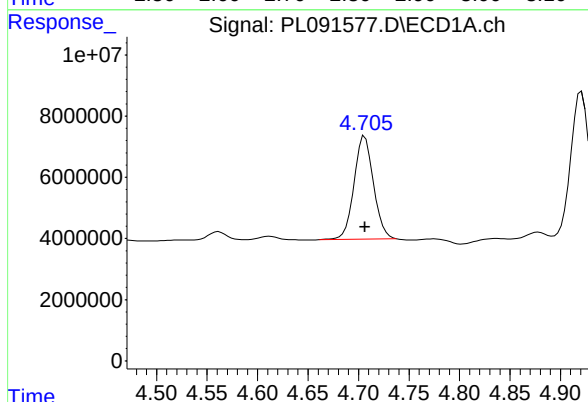
R.T.: 3.544 min
Delta R.T.: 0.000 min
Response: 108297429
Conc: 74.57 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC750



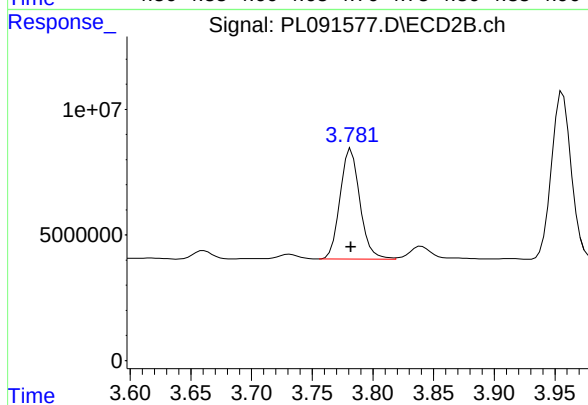
#1 Tetrachloro-m-xylene

R.T.: 2.783 min
Delta R.T.: 0.000 min
Response: 167956592
Conc: 74.93 ng/ml



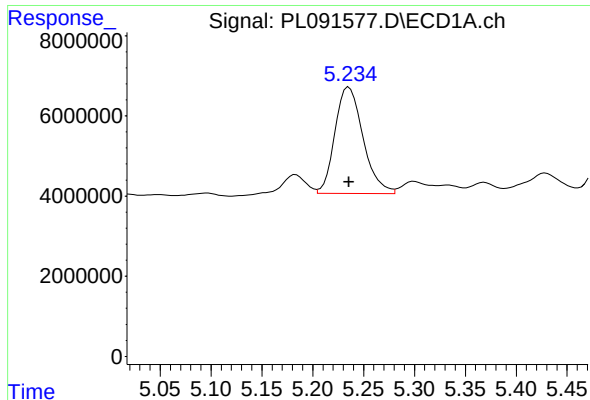
#23 Chlordane-1

R.T.: 4.706 min
Delta R.T.: 0.000 min
Response: 45211603
Conc: 746.02 ng/ml



#23 Chlordane-1

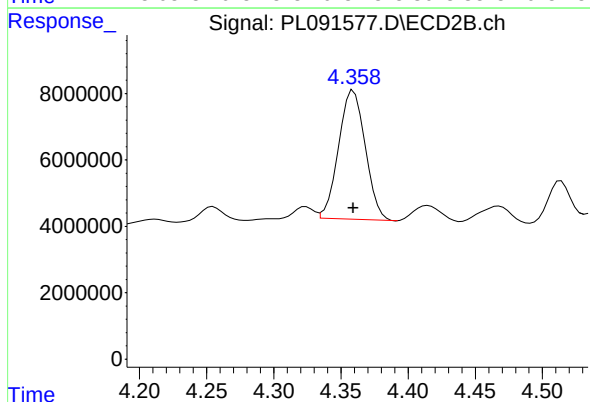
R.T.: 3.782 min
Delta R.T.: 0.000 min
Response: 49999002
Conc: 744.89 ng/ml



#24 Chlordane-2

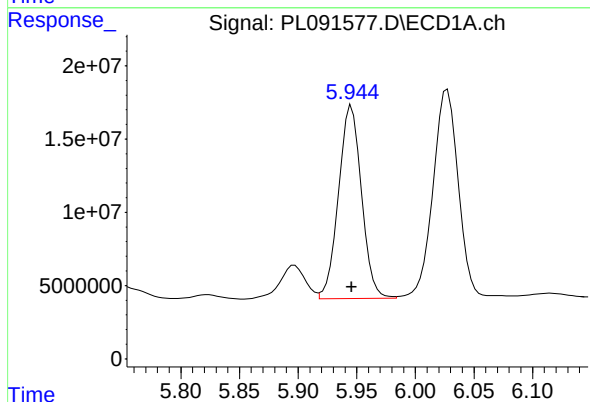
R.T.: 5.236 min
Delta R.T.: 0.000 min
Response: 51124678
Conc: 732.01 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC750



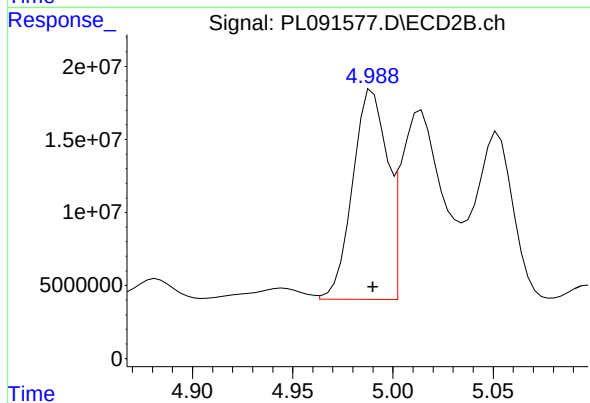
#24 Chlordane-2

R.T.: 4.359 min
Delta R.T.: 0.000 min
Response: 53816651
Conc: 744.37 ng/ml



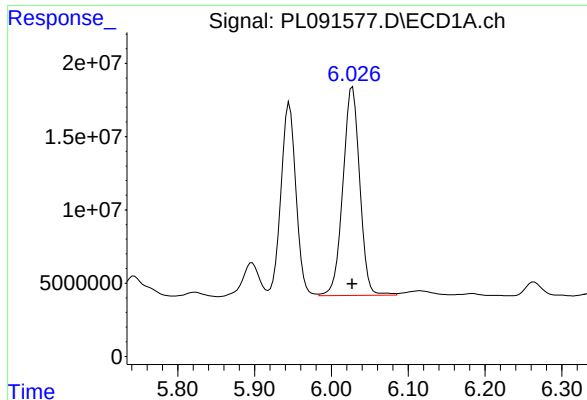
#25 Chlordane-3

R.T.: 5.946 min
Delta R.T.: 0.000 min
Response: 179575342
Conc: 740.43 ng/ml



#25 Chlordane-3

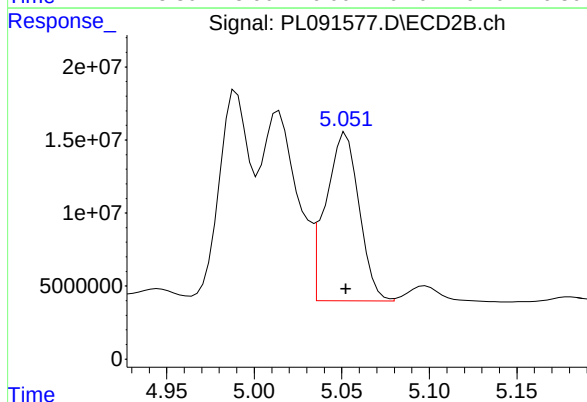
R.T.: 4.990 min
Delta R.T.: 0.000 min
Response: 171003436
Conc: 752.94 ng/ml



#26 Chlordane-4

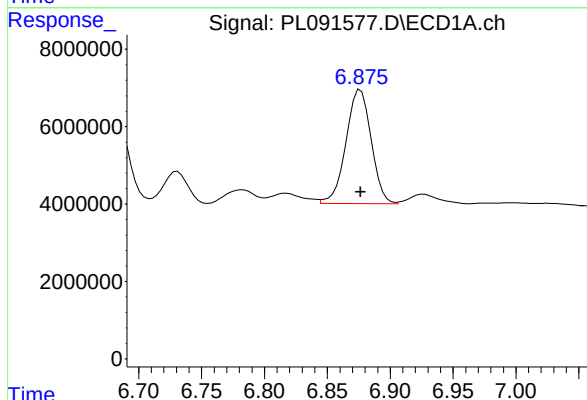
R.T.: 6.027 min
Delta R.T.: 0.000 min
Response: 215654872
Conc: 741.58 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC750



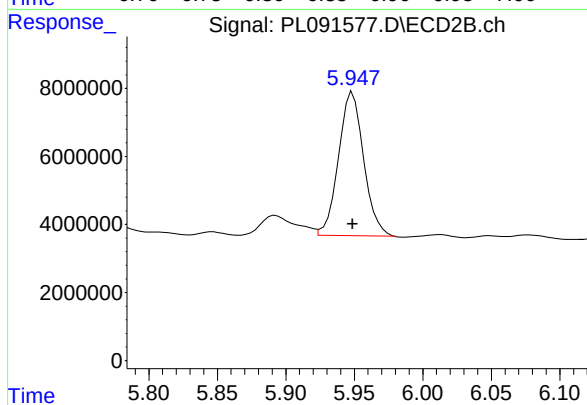
#26 Chlordane-4

R.T.: 5.052 min
Delta R.T.: 0.000 min
Response: 152827566
Conc: 731.17 ng/ml



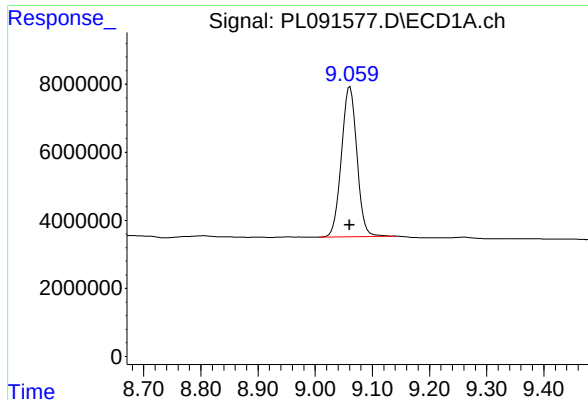
#27 Chlordane-5

R.T.: 6.876 min
Delta R.T.: 0.000 min
Response: 41009743
Conc: 742.76 ng/ml



#27 Chlordane-5

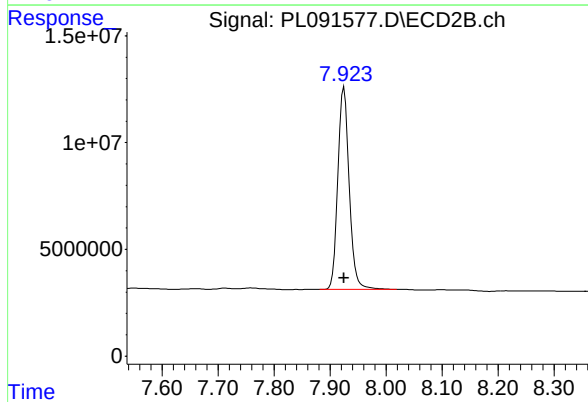
R.T.: 5.949 min
Delta R.T.: 0.000 min
Response: 53827664
Conc: 745.68 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min
Delta R.T.: 0.000 min
Response: 82899124
Conc: 73.67 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC750



#28 Decachlorobiphenyl

R.T.: 7.925 min
Delta R.T.: 0.000 min
Response: 133577467
Conc: 74.21 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091578.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 17:06
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 17:20:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 17:19:08 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.544	2.783	72968528	111.2E6	50.000	50.000
28) SA Decachlor...	9.060	7.925	58081135	91176732	50.000	50.000
Target Compounds						
23) Chlordane-1	4.706	3.782	30713014	33545288	500.000	500.000
24) Chlordane-2	5.236	4.360	36841024	36440792	500.000	500.000
25) Chlordane-3	5.945	4.990	122.5E6	111.5E6	500.000	500.000
26) Chlordane-4	6.027	5.053	146.6E6	104.3E6	500.000	500.000
27) Chlordane-5	6.876	5.948	28162351	35427383	500.000	500.000

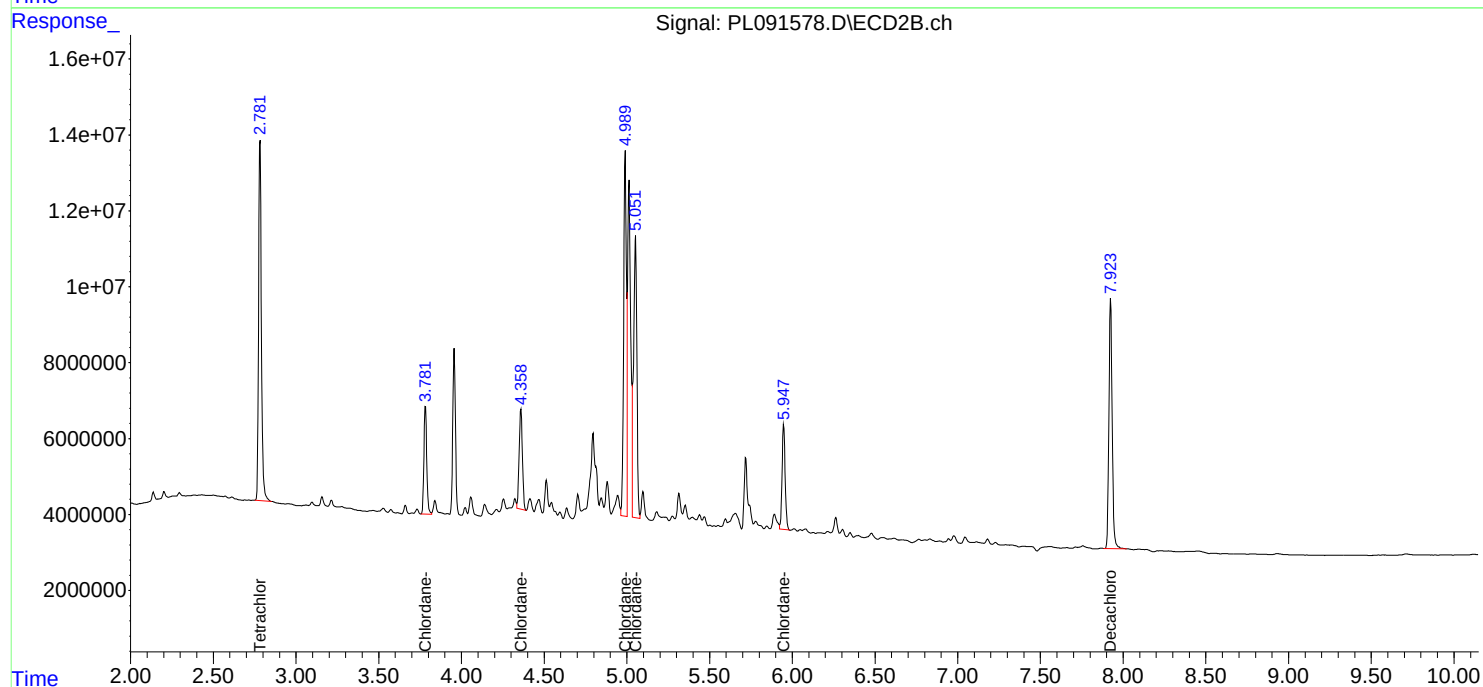
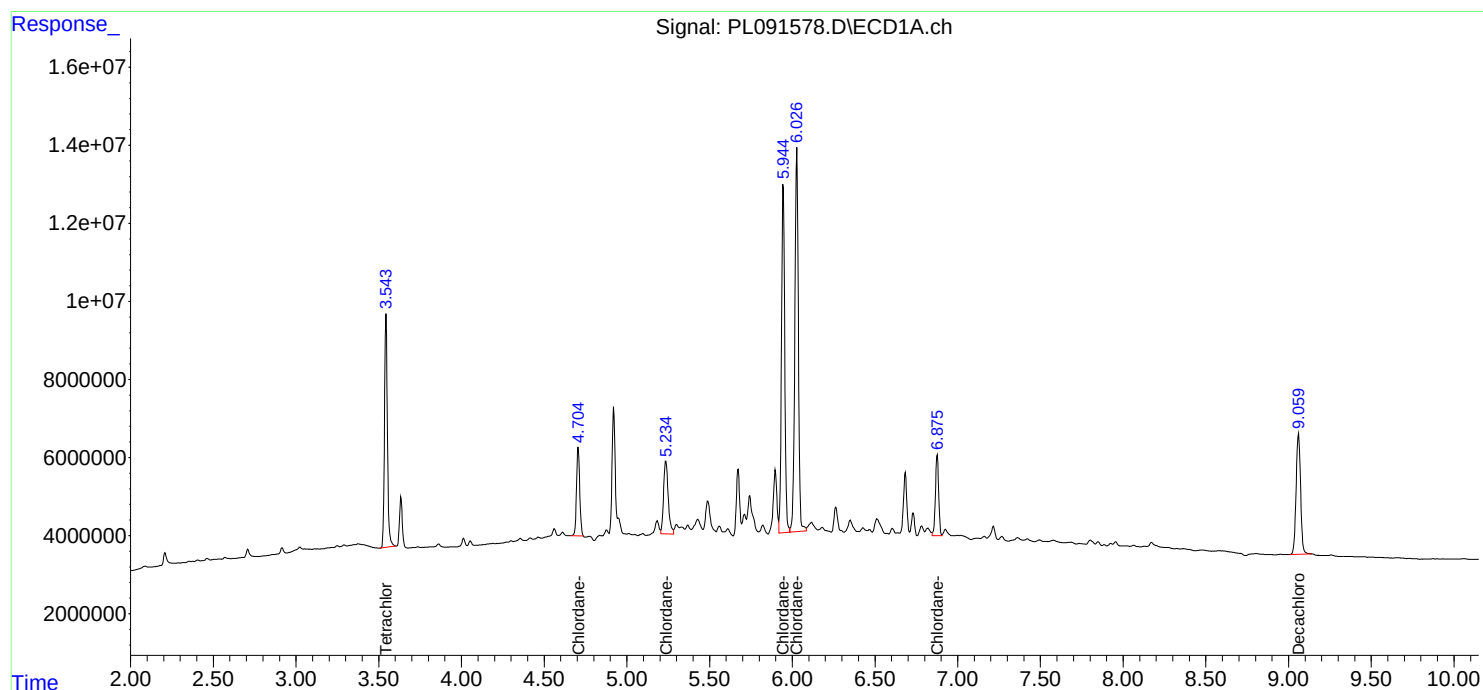
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

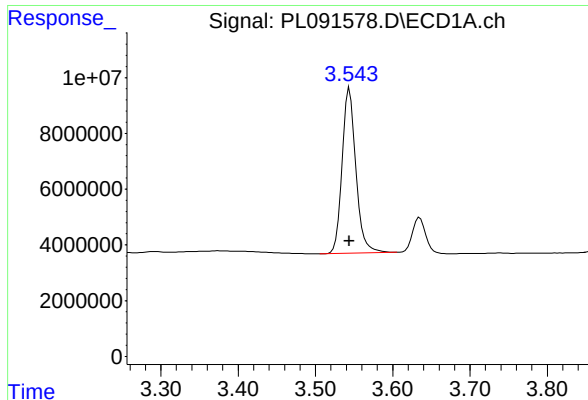
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091578.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 17:06
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 17:20:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 17:19:08 2024
Response via : Initial Calibration
Integrator: ChemStation

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

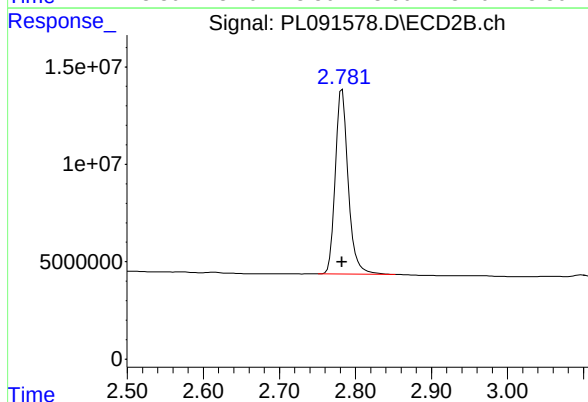




#1 Tetrachloro-m-xylene

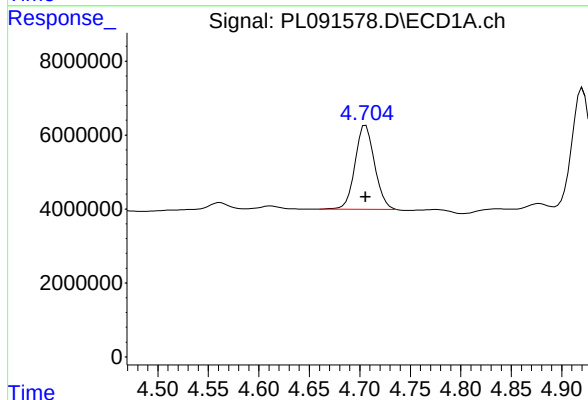
R.T.: 3.544 min
Delta R.T.: 0.000 min
Response: 72968528
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500



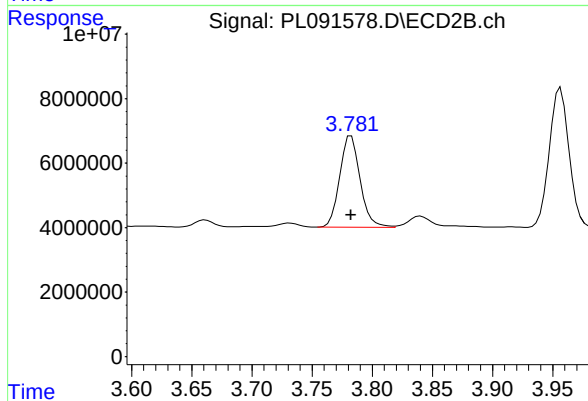
#1 Tetrachloro-m-xylene

R.T.: 2.783 min
Delta R.T.: 0.000 min
Response: 111183553
Conc: 50.00 ng/ml



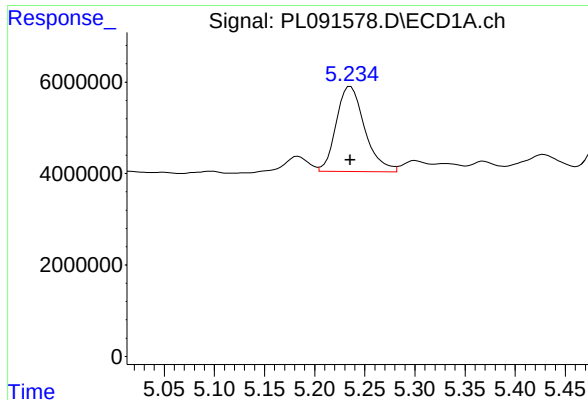
#23 Chlordane-1

R.T.: 4.706 min
Delta R.T.: 0.000 min
Response: 30713014
Conc: 500.00 ng/ml



#23 Chlordane-1

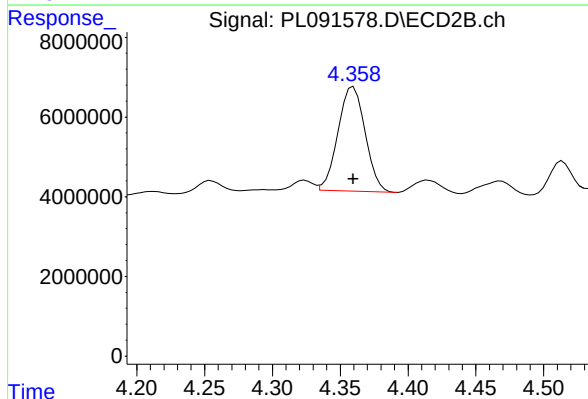
R.T.: 3.782 min
Delta R.T.: 0.000 min
Response: 33545288
Conc: 500.00 ng/ml



#24 Chlordane-2

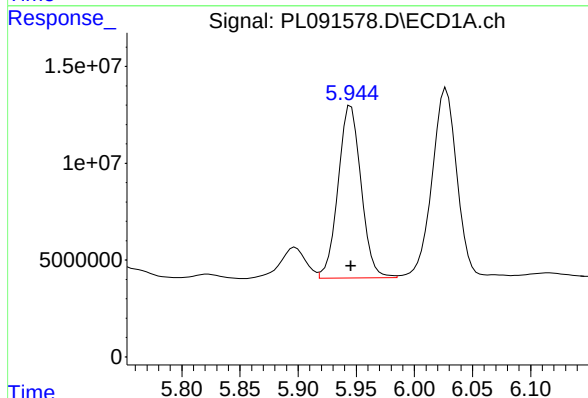
R.T.: 5.236 min
Delta R.T.: 0.000 min
Response: 36841024
Conc: 500.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500



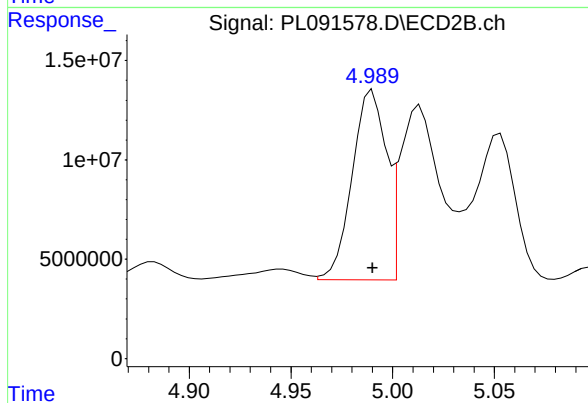
#24 Chlordane-2

R.T.: 4.360 min
Delta R.T.: 0.000 min
Response: 36440792
Conc: 500.00 ng/ml



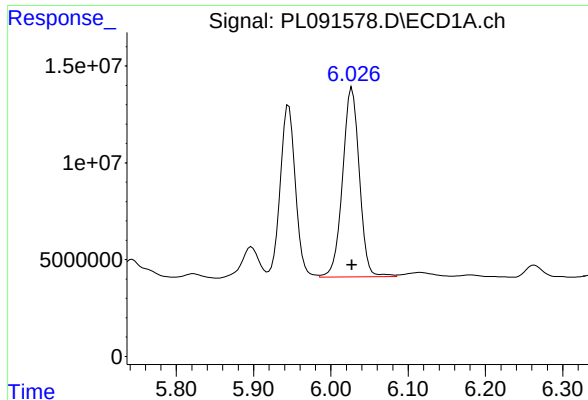
#25 Chlordane-3

R.T.: 5.945 min
Delta R.T.: 0.000 min
Response: 122538160
Conc: 500.00 ng/ml



#25 Chlordane-3

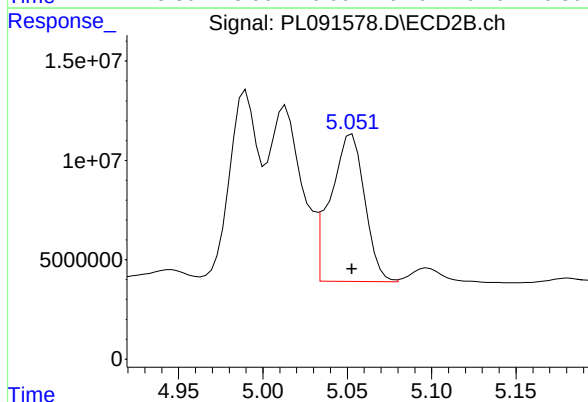
R.T.: 4.990 min
Delta R.T.: 0.000 min
Response: 111507436
Conc: 500.00 ng/ml



#26 Chlordane-4

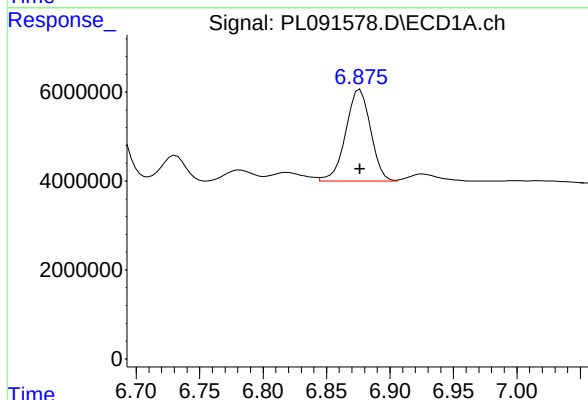
R.T.: 6.027 min
Delta R.T.: 0.000 min
Response: 146612440
Conc: 500.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500



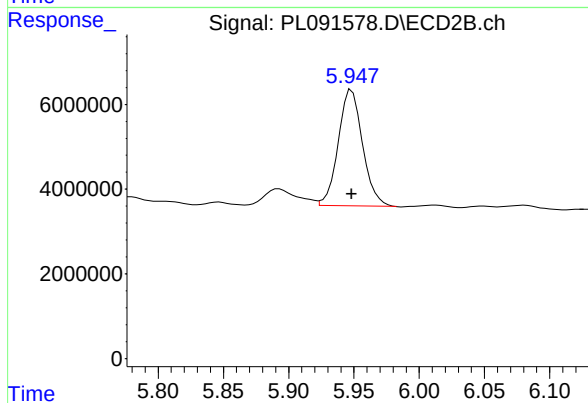
#26 Chlordane-4

R.T.: 5.053 min
Delta R.T.: 0.000 min
Response: 104269708
Conc: 500.00 ng/ml



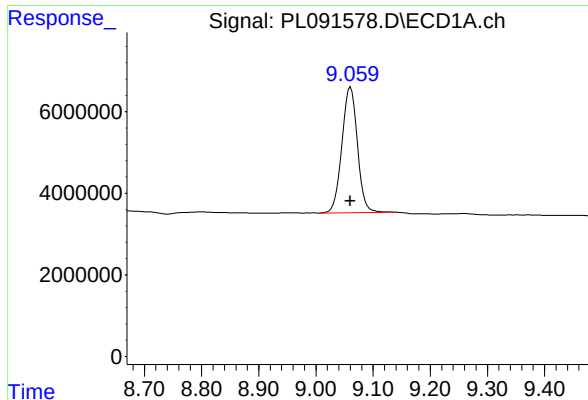
#27 Chlordane-5

R.T.: 6.876 min
Delta R.T.: 0.000 min
Response: 28162351
Conc: 500.00 ng/ml



#27 Chlordane-5

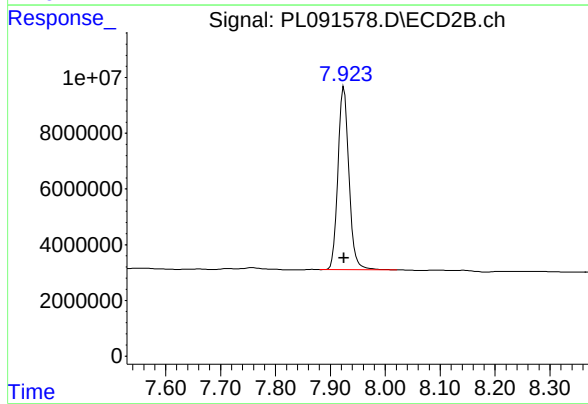
R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 35427383
Conc: 500.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.000 min
Response: 58081135
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500



#28 Decachlorobiphenyl

R.T.: 7.925 min
Delta R.T.: 0.000 min
Response: 91176732
Conc: 50.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091579.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 17:19
Operator : AR\AJ
Sample : PCHLORICC250
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 17:30:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 17:30:29 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.544	2.783	37884636	55681123	25.805	24.880
28) SA Decachlor...	9.060	7.925	30968093	47559437	26.844	26.053
Target Compounds						
23) Chlordane-1	4.706	3.782	15831199	17244176	258.324	255.142
24) Chlordane-2	5.235	4.360	20061476	18932159	276.928	258.792
25) Chlordane-3	5.945	4.989	63269486	55873216	258.068	246.999
26) Chlordane-4	6.027	5.052	72879313	52039881	250.459	249.229
27) Chlordane-5	6.876	5.948	14268271	17423327	256.264	243.470

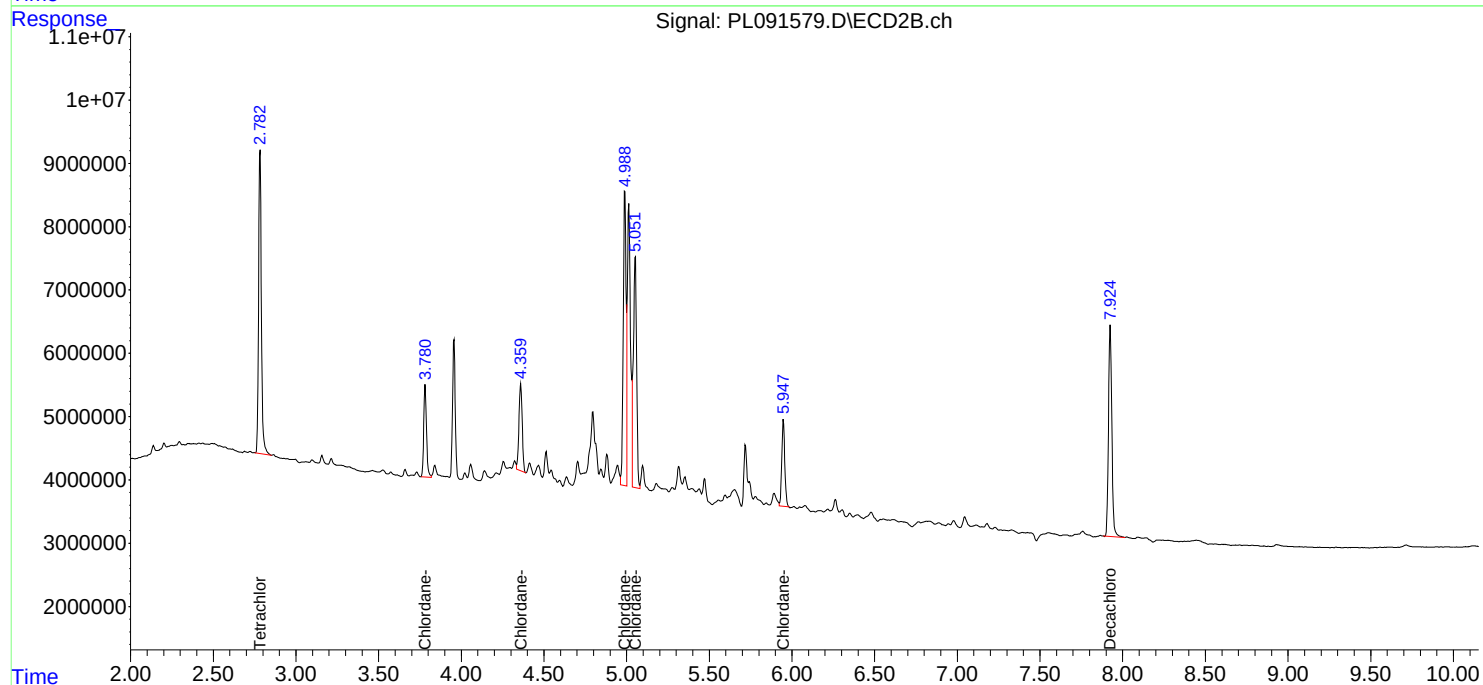
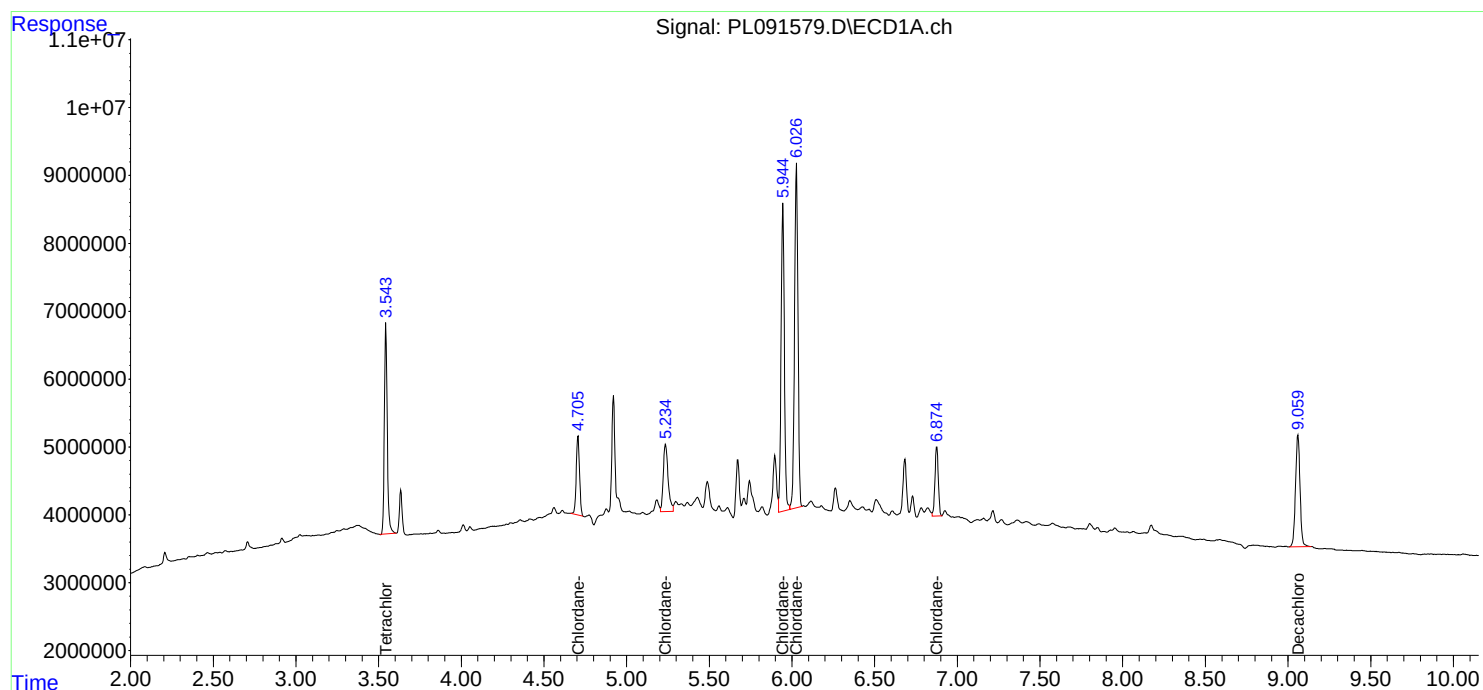
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

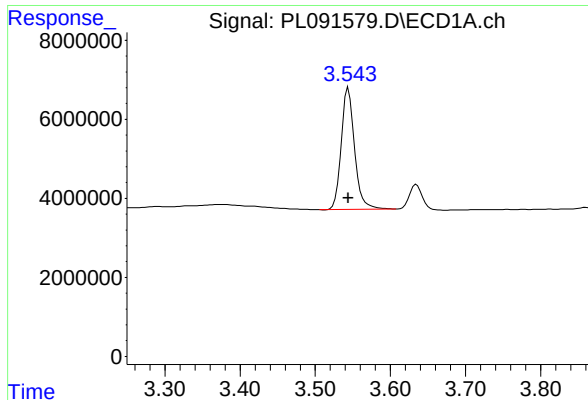
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091579.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 17:19
Operator : AR\AJ
Sample : PCHLORICC250
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 17:30:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 17:30:29 2024
Response via : Initial Calibration
Integrator: ChemStation

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

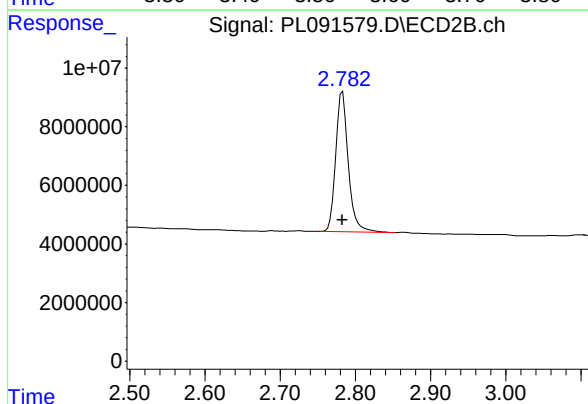




#1 Tetrachloro-m-xylene

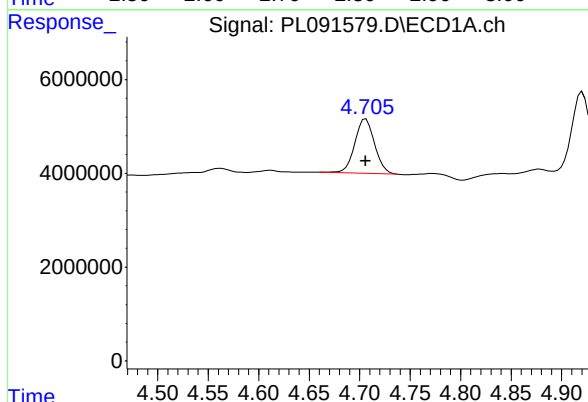
R.T.: 3.544 min
Delta R.T.: 0.000 min
Response: 37884636
Conc: 25.80 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC250



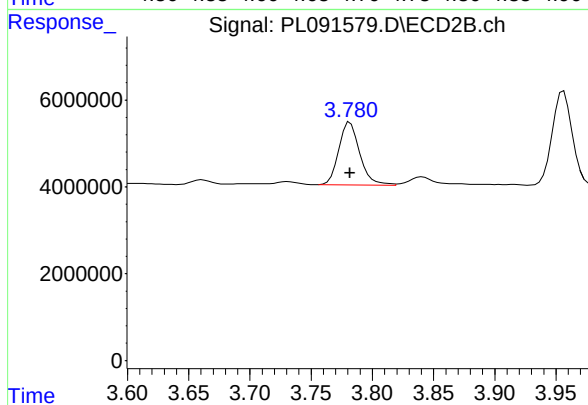
#1 Tetrachloro-m-xylene

R.T.: 2.783 min
Delta R.T.: 0.000 min
Response: 55681123
Conc: 24.88 ng/ml



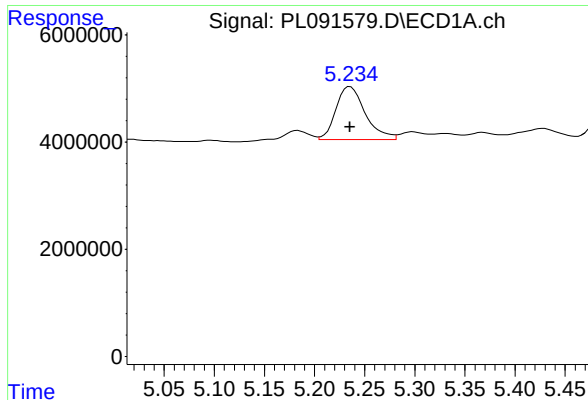
#23 Chlordane-1

R.T.: 4.706 min
Delta R.T.: 0.000 min
Response: 15831199
Conc: 258.32 ng/ml



#23 Chlordane-1

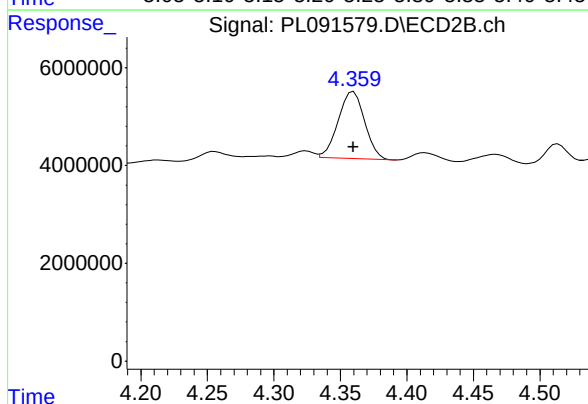
R.T.: 3.782 min
Delta R.T.: 0.000 min
Response: 17244176
Conc: 255.14 ng/ml



#24 Chlordane-2

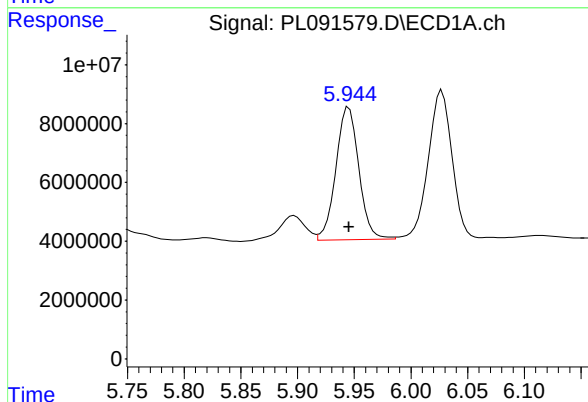
R.T.: 5.235 min
Delta R.T.: 0.000 min
Response: 20061476
Conc: 276.93 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC250



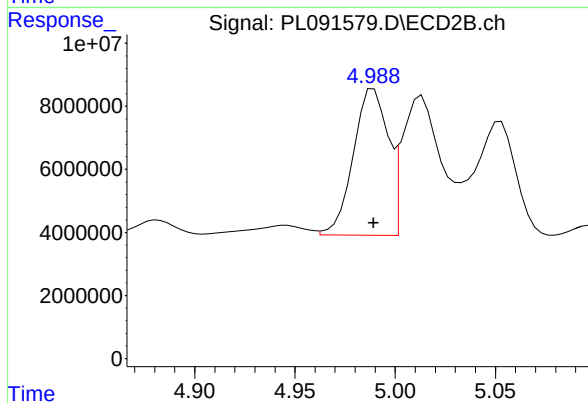
#24 Chlordane-2

R.T.: 4.360 min
Delta R.T.: 0.000 min
Response: 18932159
Conc: 258.79 ng/ml



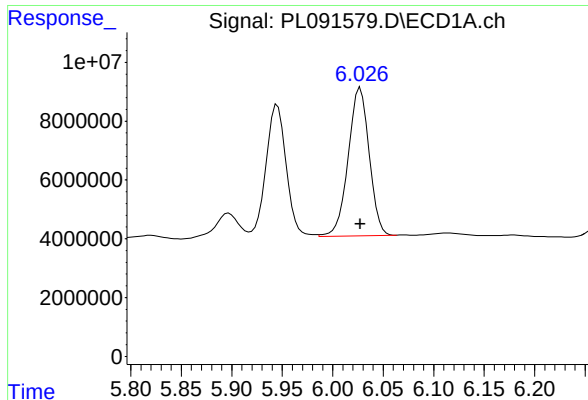
#25 Chlordane-3

R.T.: 5.945 min
Delta R.T.: 0.000 min
Response: 63269486
Conc: 258.07 ng/ml



#25 Chlordane-3

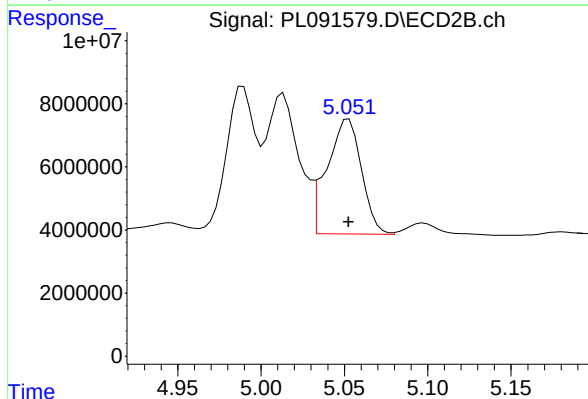
R.T.: 4.989 min
Delta R.T.: 0.000 min
Response: 55873216
Conc: 247.00 ng/ml



#26 Chlordane-4

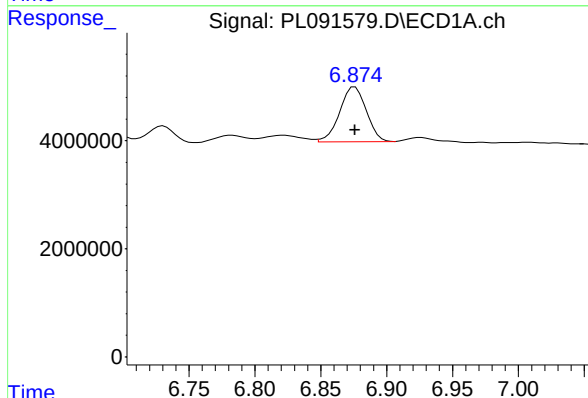
R.T.: 6.027 min
Delta R.T.: 0.000 min
Response: 72879313
Conc: 250.46 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC250



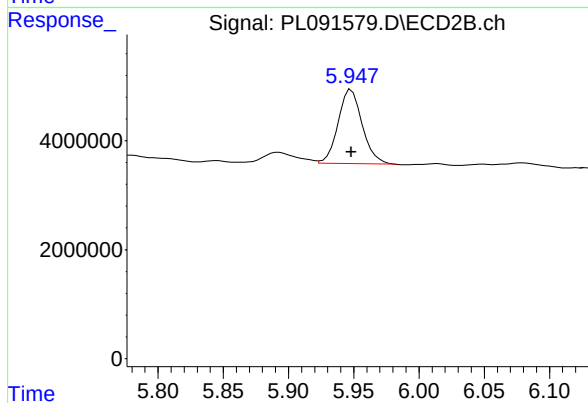
#26 Chlordane-4

R.T.: 5.052 min
Delta R.T.: 0.000 min
Response: 52039881
Conc: 249.23 ng/ml



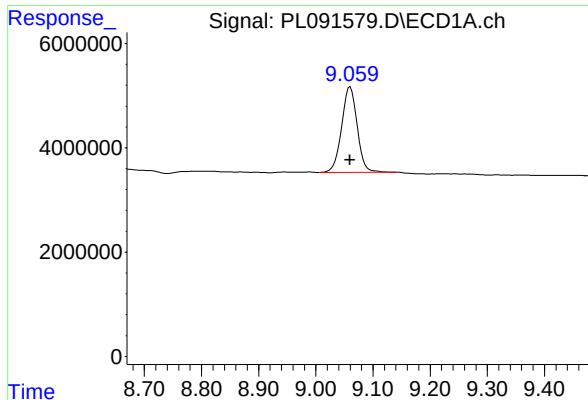
#27 Chlordane-5

R.T.: 6.876 min
Delta R.T.: 0.000 min
Response: 14268271
Conc: 256.26 ng/ml



#27 Chlordane-5

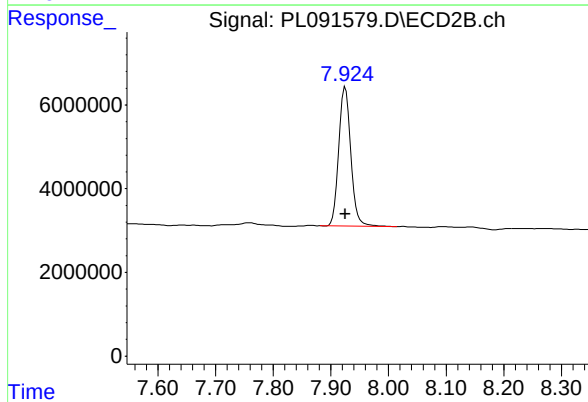
R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 17423327
Conc: 243.47 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.000 min
Response: 30968093
Conc: 26.84 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC250



#28 Decachlorobiphenyl

R.T.: 7.925 min
Delta R.T.: 0.000 min
Response: 47559437
Conc: 26.05 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091580.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 17:33
Operator : AR\AJ
Sample : PCHLORICC050
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC050

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 17:47:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 17:47:26 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.543	2.782	8617098	10688786	5.672	4.819
28) SA Decachlor...	9.054	7.919	7060024	10427960	5.851m	5.554m
Target Compounds						
23) Chlordane-1	4.702	3.779	3312197	3873901	53.229m	55.688m
24) Chlordane-2	5.234	4.356	4731959	4106713	63.624m	54.540m
25) Chlordane-3	5.942	4.987	15191525	13043592	59.417m	55.947
26) Chlordane-4	6.023	5.050	15842465	10372464	53.389m	49.740
27) Chlordane-5	6.872	5.945	3133723	3602621	55.290m	50.273

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091580.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 17:33
Operator : AR\AJ
Sample : PCHLORICC050
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PCHLORICC050

Manual Integrations

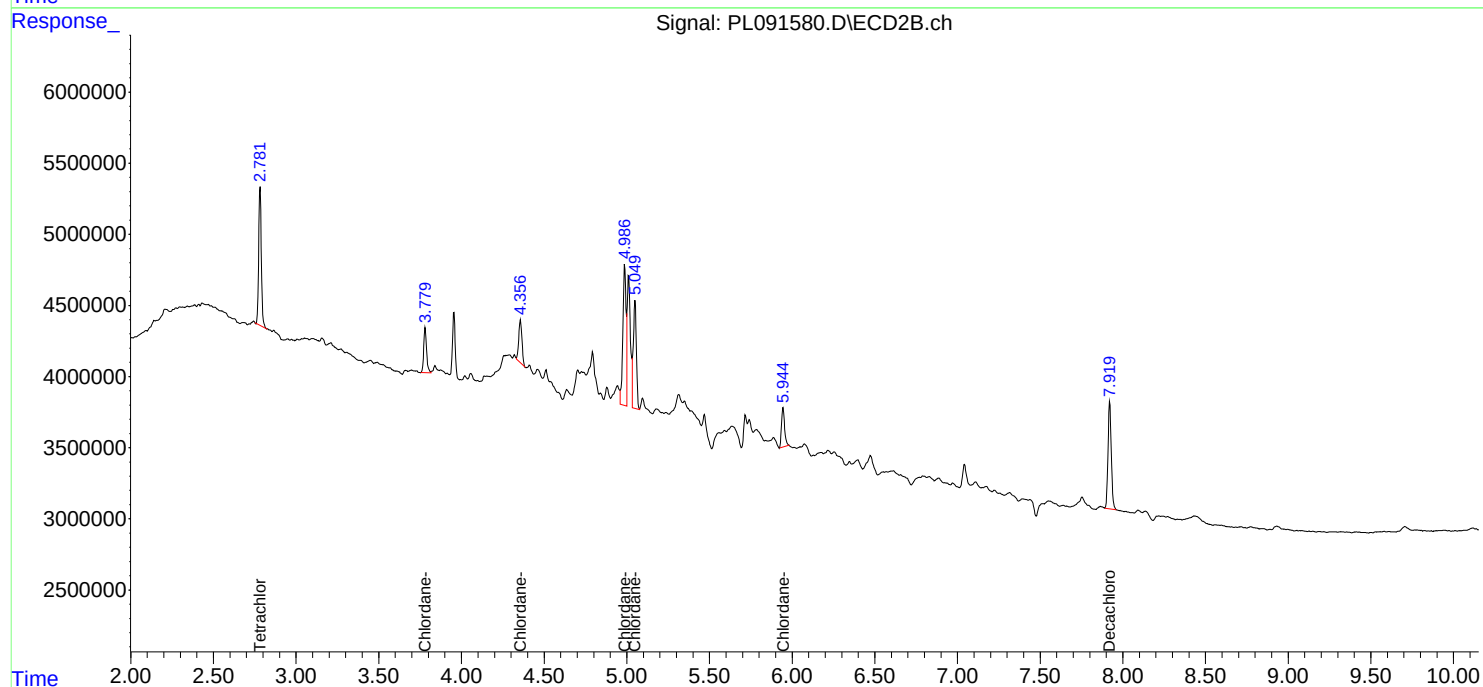
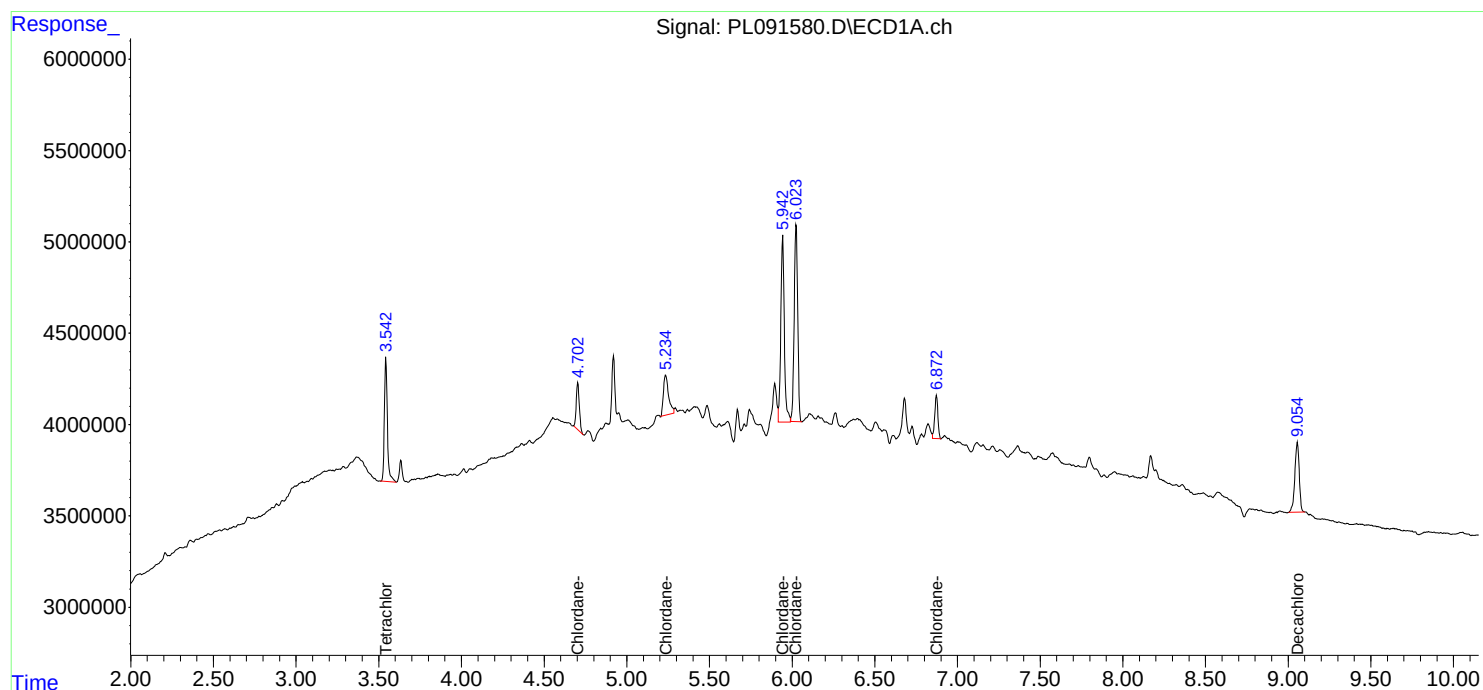
APPROVED

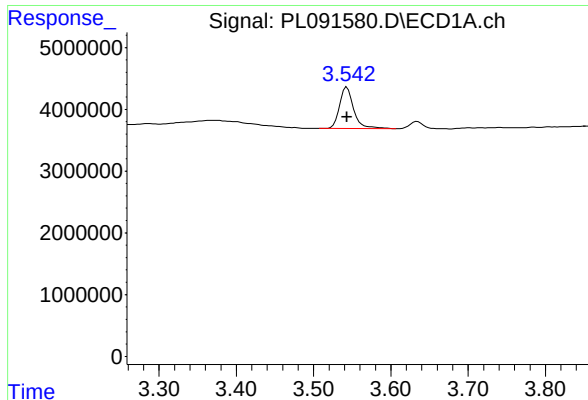
Reviewed By :Abdul Mirza 09/11/2024

Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 17:47:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 17:47:26 2024
Response via : Initial Calibration
Integrator: ChemStation

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





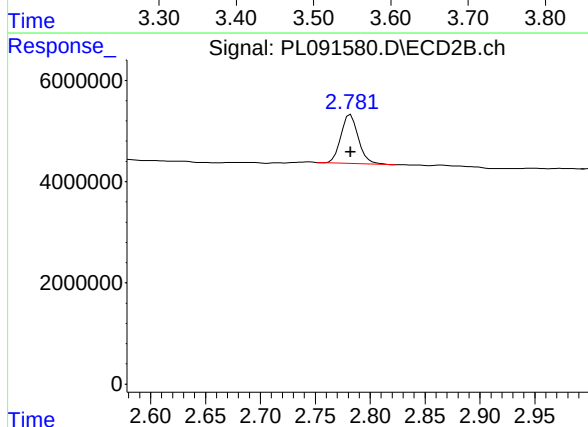
#1 Tetrachloro-m-xylene

R.T.: 3.543 min
Delta R.T.: 0.000 min
Response: 8617098
Conc: 5.67 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC050

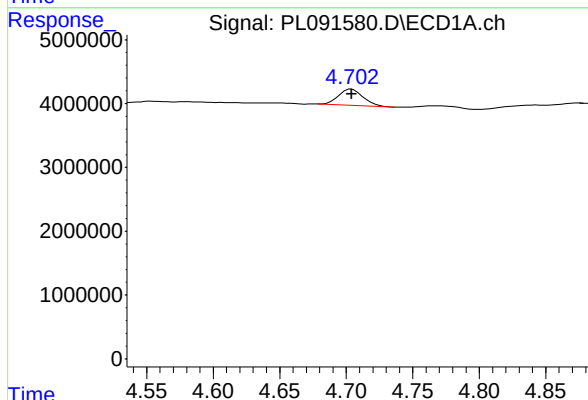
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



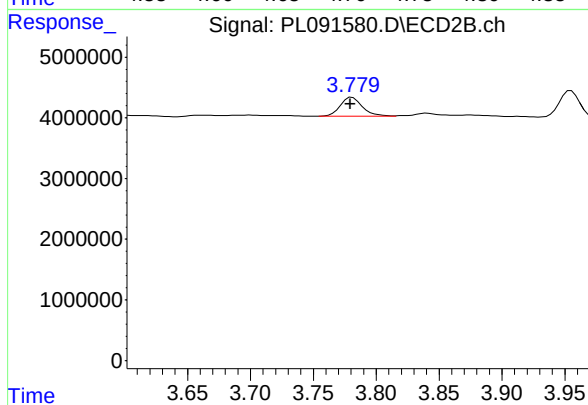
#1 Tetrachloro-m-xylene

R.T.: 2.782 min
Delta R.T.: 0.000 min
Response: 10688786
Conc: 4.82 ng/ml



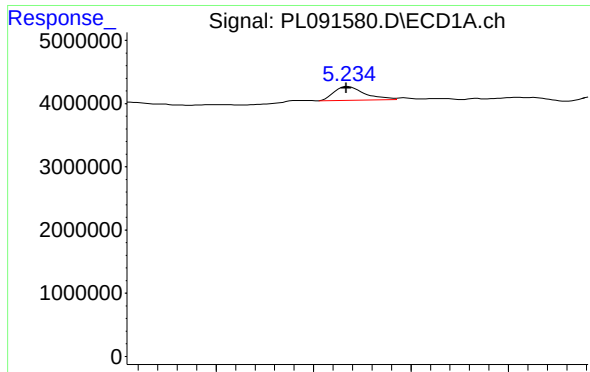
#23 Chlordane-1

R.T.: 4.702 min
Delta R.T.: -0.002 min
Response: 3312197
Conc: 53.23 ng/ml m



#23 Chlordane-1

R.T.: 3.779 min
Delta R.T.: 0.000 min
Response: 3873901
Conc: 55.69 ng/ml m



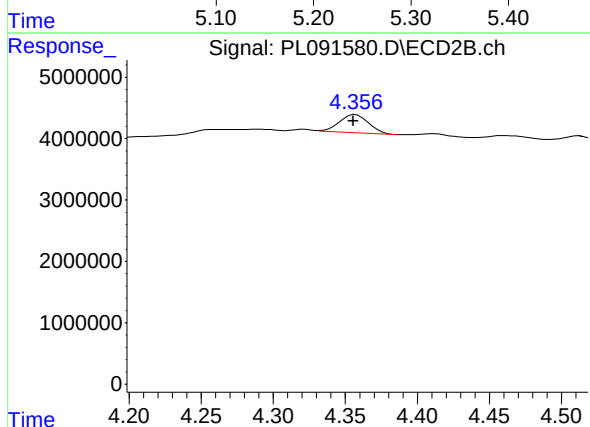
#24 Chlordane-2

R.T.: 5.234 min
Delta R.T.: 0.000 min
Response: 4731959
Conc: 63.62 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC050

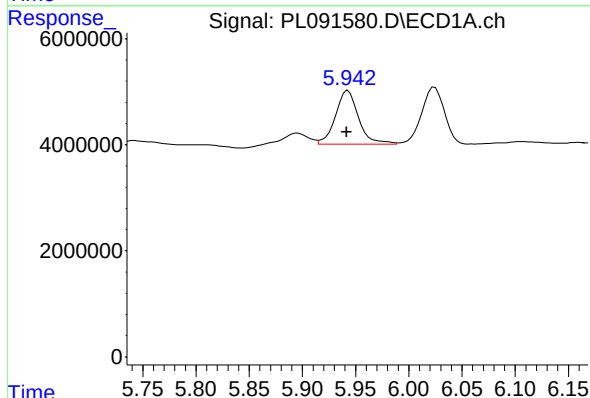
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



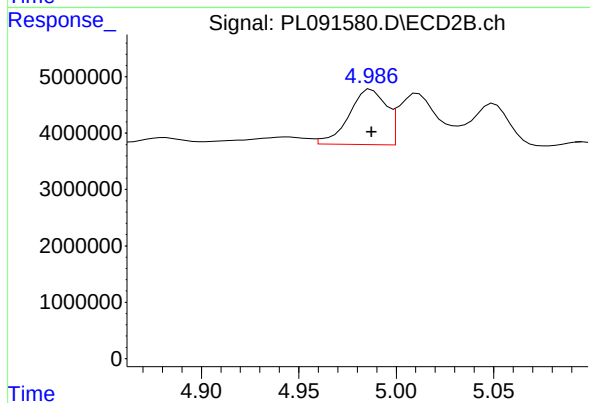
#24 Chlordane-2

R.T.: 4.356 min
Delta R.T.: 0.000 min
Response: 4106713
Conc: 54.54 ng/ml



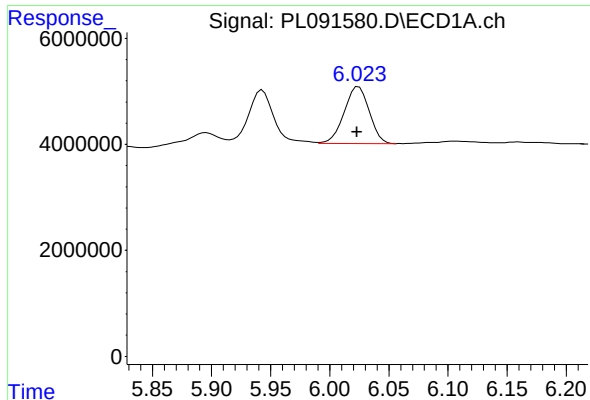
#25 Chlordane-3

R.T.: 5.942 min
Delta R.T.: 0.000 min
Response: 15191525
Conc: 59.42 ng/ml



#25 Chlordane-3

R.T.: 4.987 min
Delta R.T.: 0.000 min
Response: 13043592
Conc: 55.95 ng/ml



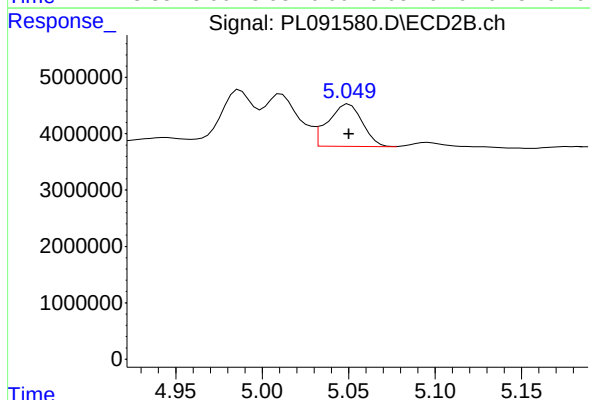
#26 Chlordane-4

R.T.: 6.023 min
Delta R.T.: 0.000 min
Response: 15842465
Conc: 53.39 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC050

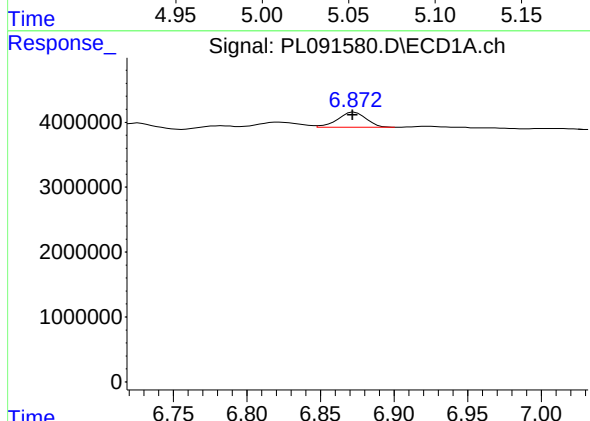
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



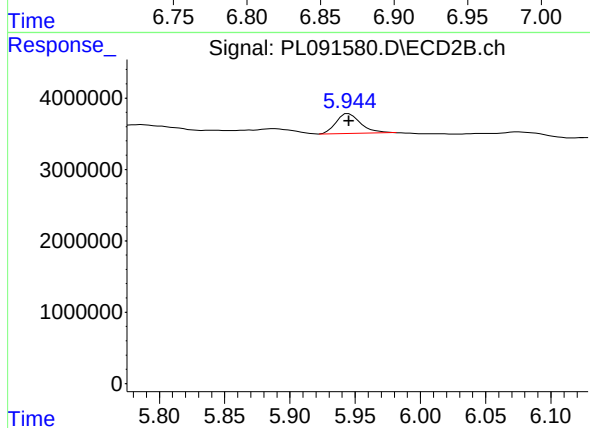
#26 Chlordane-4

R.T.: 5.050 min
Delta R.T.: 0.000 min
Response: 10372464
Conc: 49.74 ng/ml



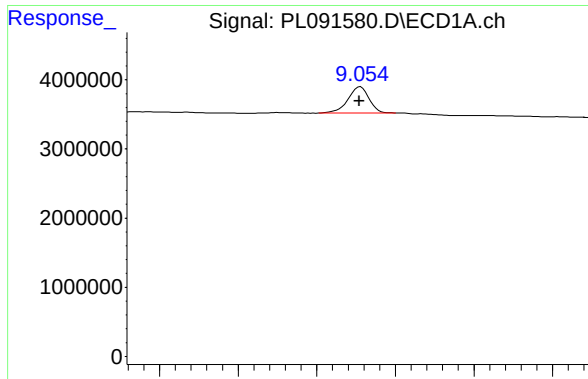
#27 Chlordane-5

R.T.: 6.872 min
Delta R.T.: 0.000 min
Response: 3133723
Conc: 55.29 ng/ml m



#27 Chlordane-5

R.T.: 5.945 min
Delta R.T.: 0.000 min
Response: 3602621
Conc: 50.27 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.000 min
Response: 7060024
Conc: 5.85 ng/ml

Instrument :

ECD_L

ClientSampleId :

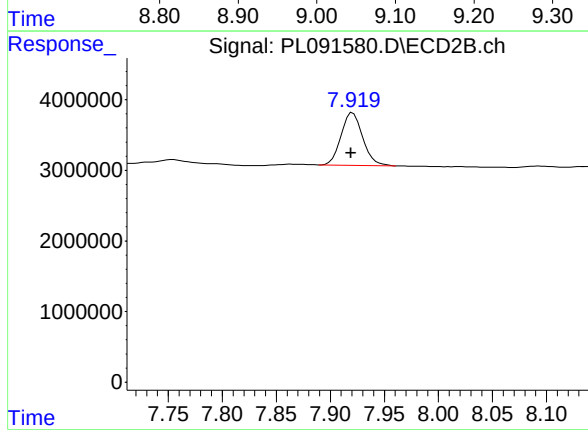
PCHLORICC050

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 09/11/2024

Supervised By :Ankita Jodhani 09/11/2024



#28 Decachlorobiphenyl

R.T.: 7.919 min
Delta R.T.: 0.000 min
Response: 10427960
Conc: 5.55 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091587.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 19:10
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL090924

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 19:24:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:23:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.542	2.781	82136840	123.4E6	54.067	55.643
28) SA Decachlor...	9.053	7.921	63278192	98168492	52.500	52.286
Target Compounds						
23) Chlordane-1	4.703	3.780	33873423	36368107	543.923	522.795
24) Chlordane-2	5.233	4.356	39026737	38911481	507.617	519.155
25) Chlordane-3	5.942	4.987	113.7E6	118.2E6	442.444	506.829
26) Chlordane-4	6.024	5.050	154.1E6	112.6E6	520.321	540.049
27) Chlordane-5	6.873	5.945	30416372	37732567	532.898	526.546

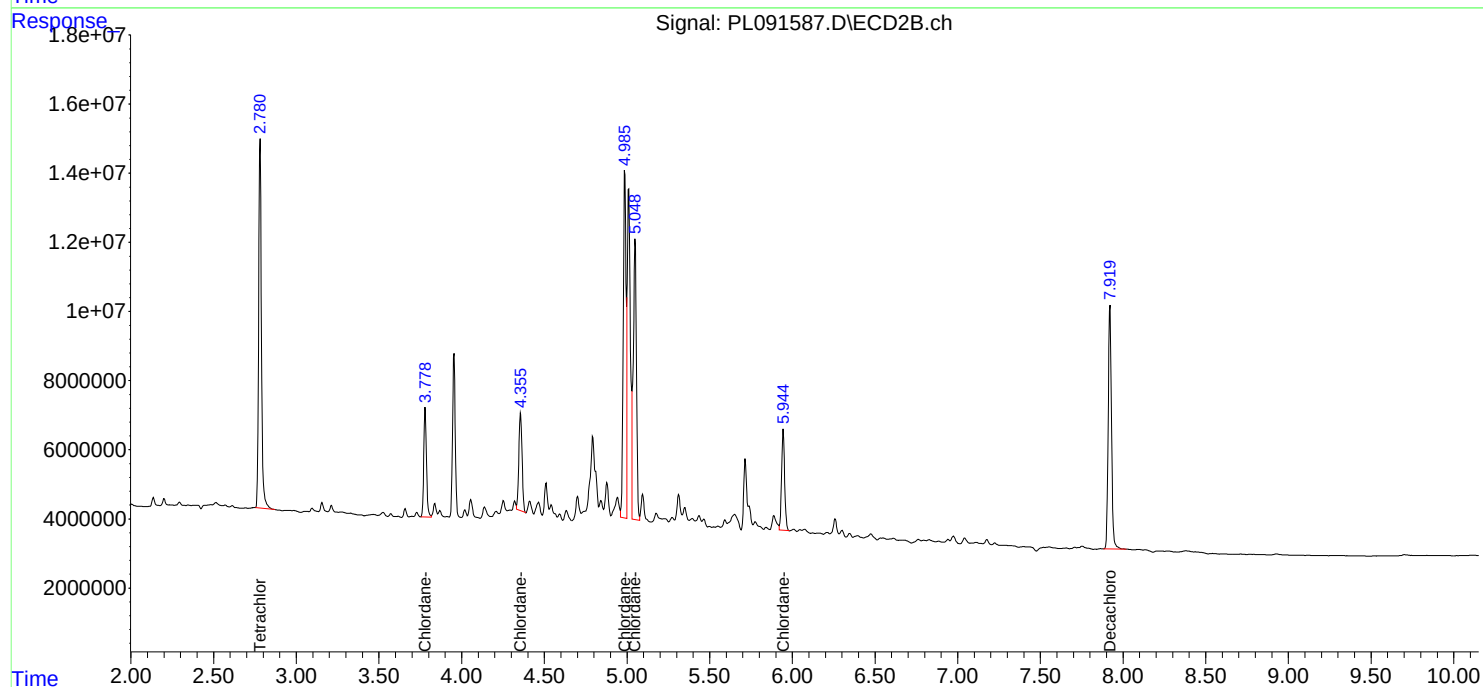
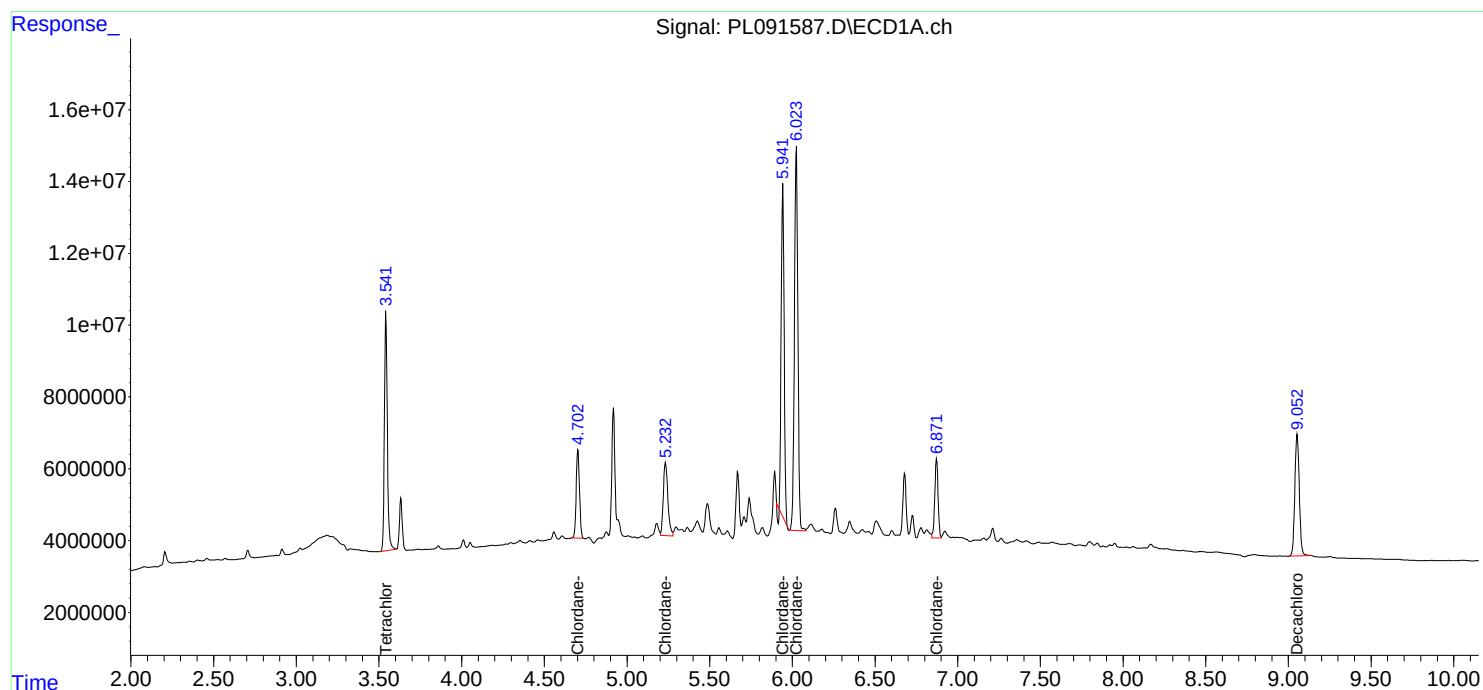
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

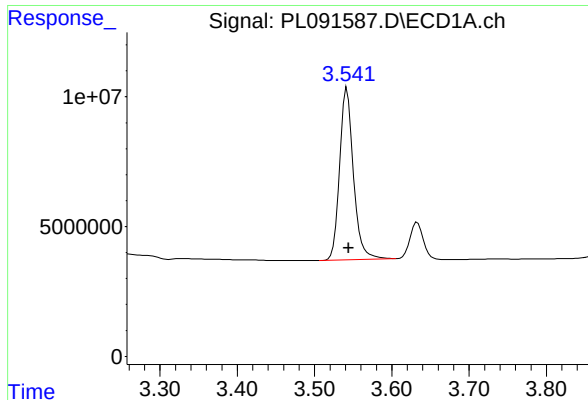
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091587.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 19:10
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL090924

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 19:24:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:23:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

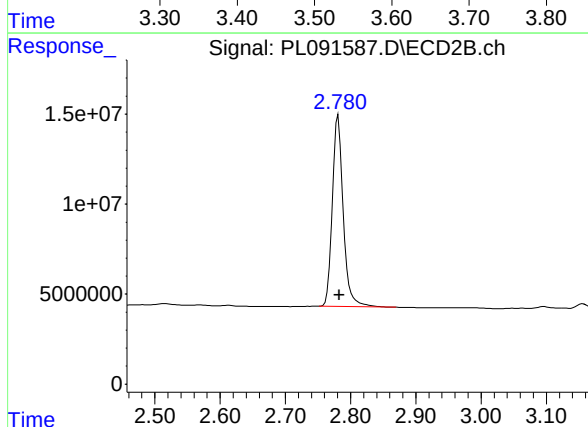




#1 Tetrachloro-m-xylene

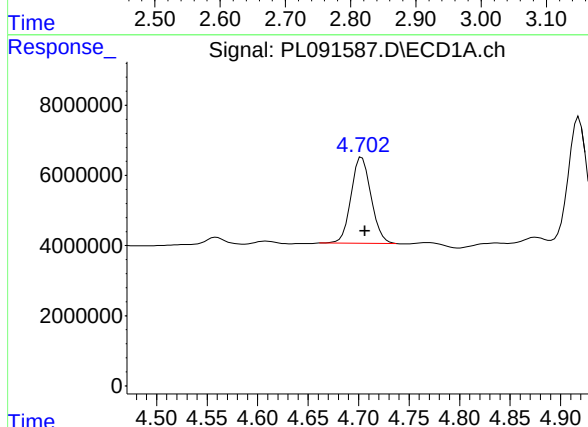
R.T.: 3.542 min
Delta R.T.: -0.002 min
Response: 82136840
Conc: 54.07 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL090924



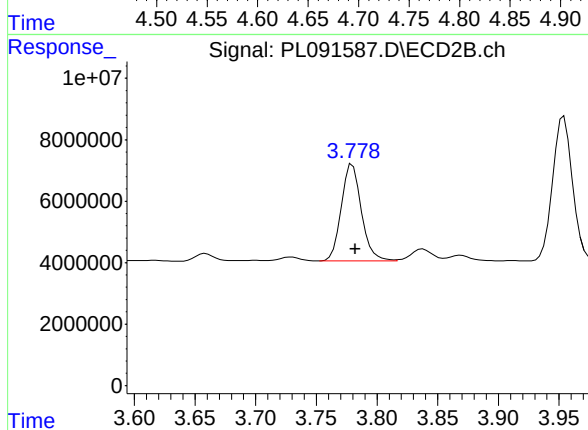
#1 Tetrachloro-m-xylene

R.T.: 2.781 min
Delta R.T.: -0.002 min
Response: 123412200
Conc: 55.64 ng/ml



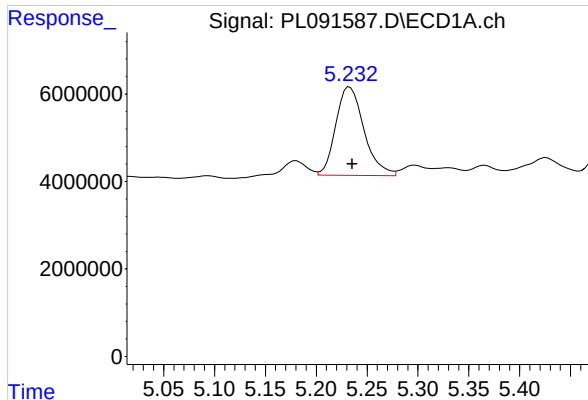
#23 Chlordane-1

R.T.: 4.703 min
Delta R.T.: -0.003 min
Response: 33873423
Conc: 543.92 ng/ml



#23 Chlordane-1

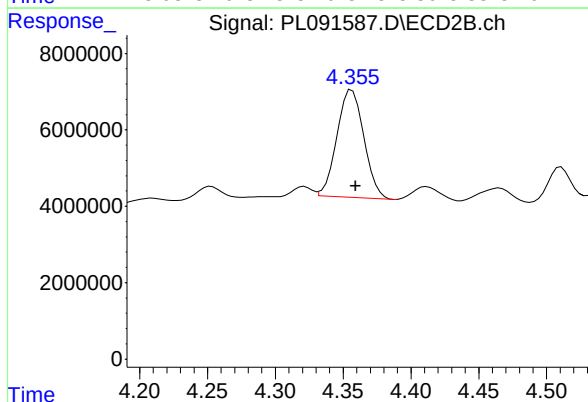
R.T.: 3.780 min
Delta R.T.: -0.002 min
Response: 36368107
Conc: 522.79 ng/ml



#24 Chlordane-2

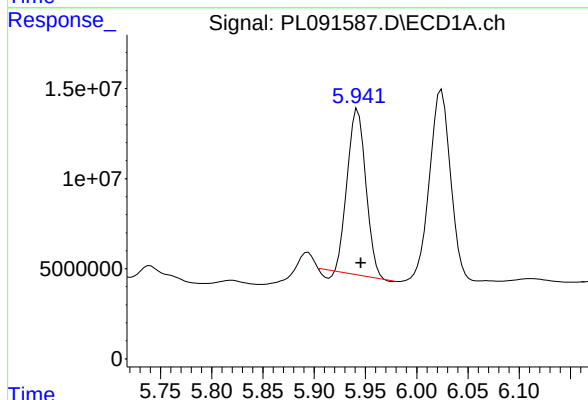
R.T.: 5.233 min
Delta R.T.: -0.003 min
Response: 39026737
Conc: 507.62 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL090924



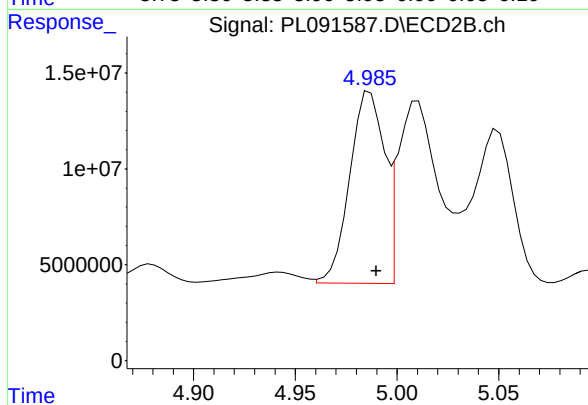
#24 Chlordane-2

R.T.: 4.356 min
Delta R.T.: -0.003 min
Response: 38911481
Conc: 519.15 ng/ml



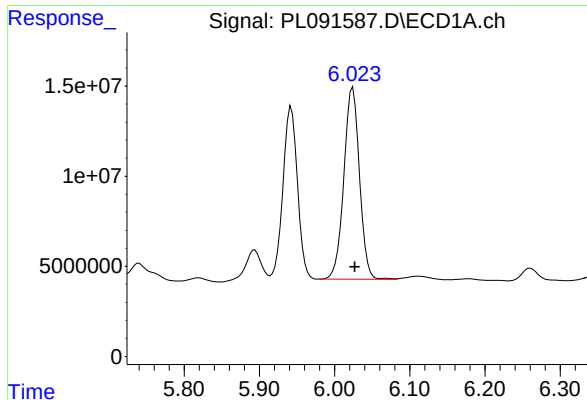
#25 Chlordane-3

R.T.: 5.942 min
Delta R.T.: -0.003 min
Response: 113663559
Conc: 442.44 ng/ml



#25 Chlordane-3

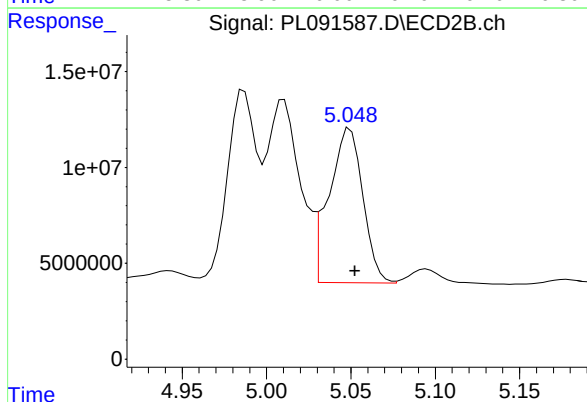
R.T.: 4.987 min
Delta R.T.: -0.003 min
Response: 118162680
Conc: 506.83 ng/ml



#26 Chlordane-4

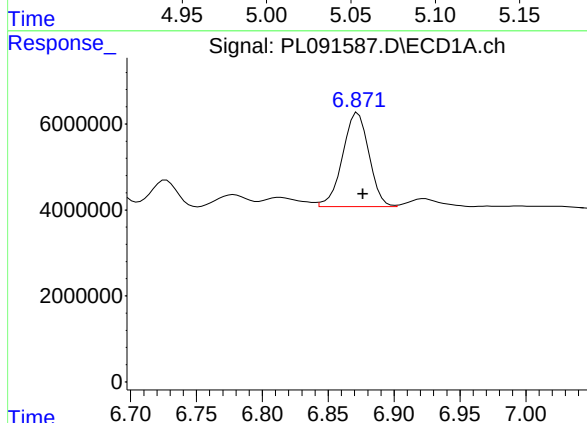
R.T.: 6.024 min
Delta R.T.: -0.003 min
Response: 154096333
Conc: 520.32 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL090924



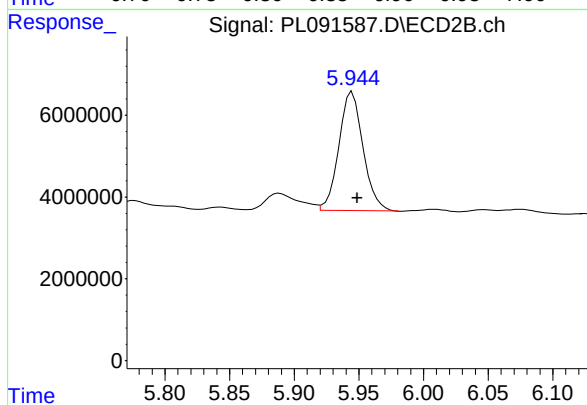
#26 Chlordane-4

R.T.: 5.050 min
Delta R.T.: -0.003 min
Response: 112618104
Conc: 540.05 ng/ml



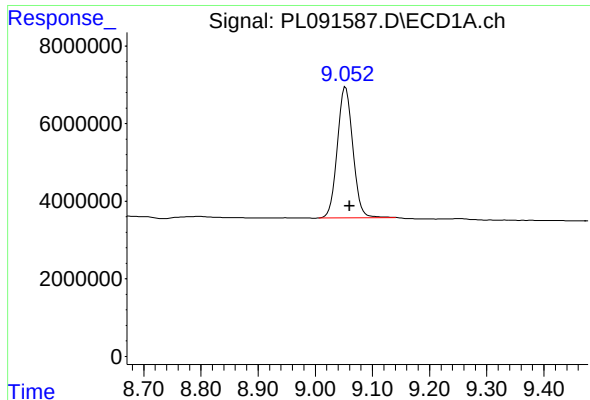
#27 Chlordane-5

R.T.: 6.873 min
Delta R.T.: -0.004 min
Response: 30416372
Conc: 532.90 ng/ml



#27 Chlordane-5

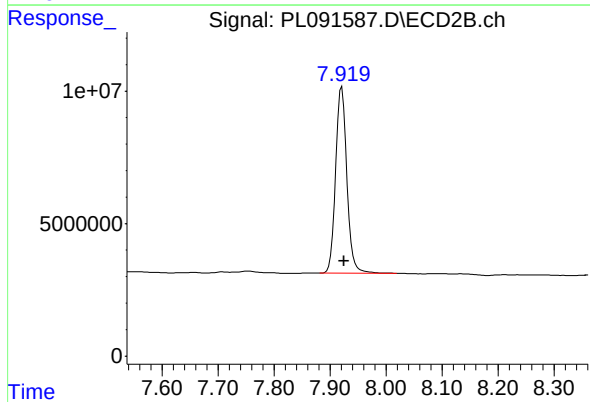
R.T.: 5.945 min
Delta R.T.: -0.004 min
Response: 37732567
Conc: 526.55 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.053 min
Delta R.T.: -0.008 min
Response: 63278192
Conc: 52.50 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL090924



#28 Decachlorobiphenyl

R.T.: 7.921 min
Delta R.T.: -0.004 min
Response: 98168492
Conc: 52.29 ng/ml

RETENTION TIMES OF INITIAL CALIBRATION

Contract: CHEM02
Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845
Instrument ID: ECD_L **Calibration Date(s):** 09/23/2024 09/23/2024
Calibration Times: 12:39 13:33

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

LAB FILE ID:	RT 1000 = <u>PL091961.D</u>	RT 750 = <u>PL091962.D</u>
RT 500 = <u>PL091963.D</u>	RT 250 = <u>PL091964.D</u>	RT 050 = <u>PL091965.D</u>

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW	
								FROM	TO
Chlordane-1	(1)	4.71	4.71	4.71	4.71	4.71	4.71	4.61	4.81
Chlordane-2	(2)	5.24	5.24	5.24	5.24	5.24	5.24	5.14	5.34
Chlordane-3	(3)	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
Chlordane-4	(4)	6.03	6.03	6.03	6.03	6.03	6.03	5.93	6.13
Chlordane-5	(5)	6.88	6.88	6.88	6.88	6.88	6.88	6.78	6.98
Decachlorobiphenyl		9.06	9.06	9.06	9.06	9.06	9.06	8.96	9.16
Tetrachloro-m-xylene		3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

RETENTION TIMES OF INITIAL CALIBRATION

Contract: CHEM02
Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845
Instrument ID: ECD_L **Calibration Date(s):** 09/23/2024 09/23/2024
Calibration Times: 12:39 13:33

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

LAB FILE ID:	RT 1000 = <u>PL091961.D</u>	RT 750 = <u>PL091962.D</u>
RT 500 = <u>PL091963.D</u>	RT 250 = <u>PL091964.D</u>	RT 050 = <u>PL091965.D</u>

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW	
								FROM	TO
Chlordane-1	(1)	3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Chlordane-2	(2)	4.36	4.36	4.36	4.36	4.36	4.36	4.26	4.46
Chlordane-3	(3)	4.99	4.99	4.99	4.99	4.99	4.99	4.89	5.09
Chlordane-4	(4)	5.05	5.05	5.05	5.05	5.05	5.05	4.95	5.15
Chlordane-5	(5)	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
Decachlorobiphenyl		7.92	7.92	7.92	7.92	7.92	7.92	7.82	8.02
Tetrachloro-m-xylene		2.78	2.78	2.78	2.78	2.78	2.78	2.68	2.88

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02
Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845
Instrument ID: ECD_L **Calibration Date(s):** 09/23/2024 09/23/2024
Calibration Times: 12:39 13:33
GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID:							CF 1000 =	<u>PL091961.D</u>	CF 750 =	<u>PL091962.D</u>
CF 500 =		<u>PL091963.D</u>	CF 250 =		<u>PL091964.D</u>	CF 050 =		<u>PL091965.D</u>		
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD		
Chlordane-1	(1)	94078900	96065800	98915300	106451000	116961000	102494000	9		
Chlordane-2	(2)	97636000	97755300	102853000	110823000	127166000	107247000	12		
Chlordane-3	(3)	358234000	347851000	355337000	373378000	438086000	374577000	10		
Chlordane-4	(4)	432175000	420039000	432063000	455399000	524556000	452846000	9		
Chlordane-5	(5)	82596700	80862600	84140800	89117600	99357200	87215000	9		
Decachlorobiphenyl		152109000	149360000	157253000	163985000	185764000	161694000	9		
Tetrachloro-m-xylene		207303000	205352000	211351000	222597000	251086000	219538000	9		

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02
Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845
Instrument ID: ECD_L **Calibration Date(s):** 09/23/2024 09/23/2024
Calibration Times: 12:39 13:33
GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID:		CF 1000 = <u>PL091961.D</u>		CF 750 = <u>PL091962.D</u>				
CF 500 = <u>PL091963.D</u>		CF 250 = <u>PL091964.D</u>		CF 050 = <u>PL091965.D</u>				
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Chlordane-1	(1)	100317000	98167400	98097600	100732000	102590000	99980800	2
Chlordane-2	(2)	106983000	105067000	109311000	115058000	124711000	112226000	7
Chlordane-3	(3)	340564000	329006000	329535000	327536000	329500000	331228000	2
Chlordane-4	(4)	327820000	314030000	315560000	316795000	312206000	317282000	2
Chlordane-5	(5)	113314000	108723000	108292000	109337000	102581000	108449000	4
Decachlorobiphenyl		243160000	233923000	242674000	254062000	275811000	249926000	6
Tetrachloro-m-xylene		309505000	301991000	302314000	305675000	312032000	306303000	1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091961.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 12:39
Operator : AR\AJ
Sample : PCHLORICC1000
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 16:38:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:37:12 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.544	2.781	207.3E6	309.5E6	99.033	101.175
2) SA Decachlor...	9.060	7.923	152.1E6	243.2E6	98.337	100.100
Target Compounds						
23) Chlordane-1	4.706	3.781	94078889	100.3E6	974.940	1011.188
24) Chlordane-2	5.235	4.358	97636046	107.0E6	973.978	989.236
25) Chlordane-3	5.945	4.988	358.2E6	340.6E6	1004.061	1016.459
26) Chlordane-4	6.027	5.051	432.2E6	327.8E6	1000.129	1019.057
27) Chlordane-5	6.876	5.947	82596655	113.3E6	990.739	1022.665

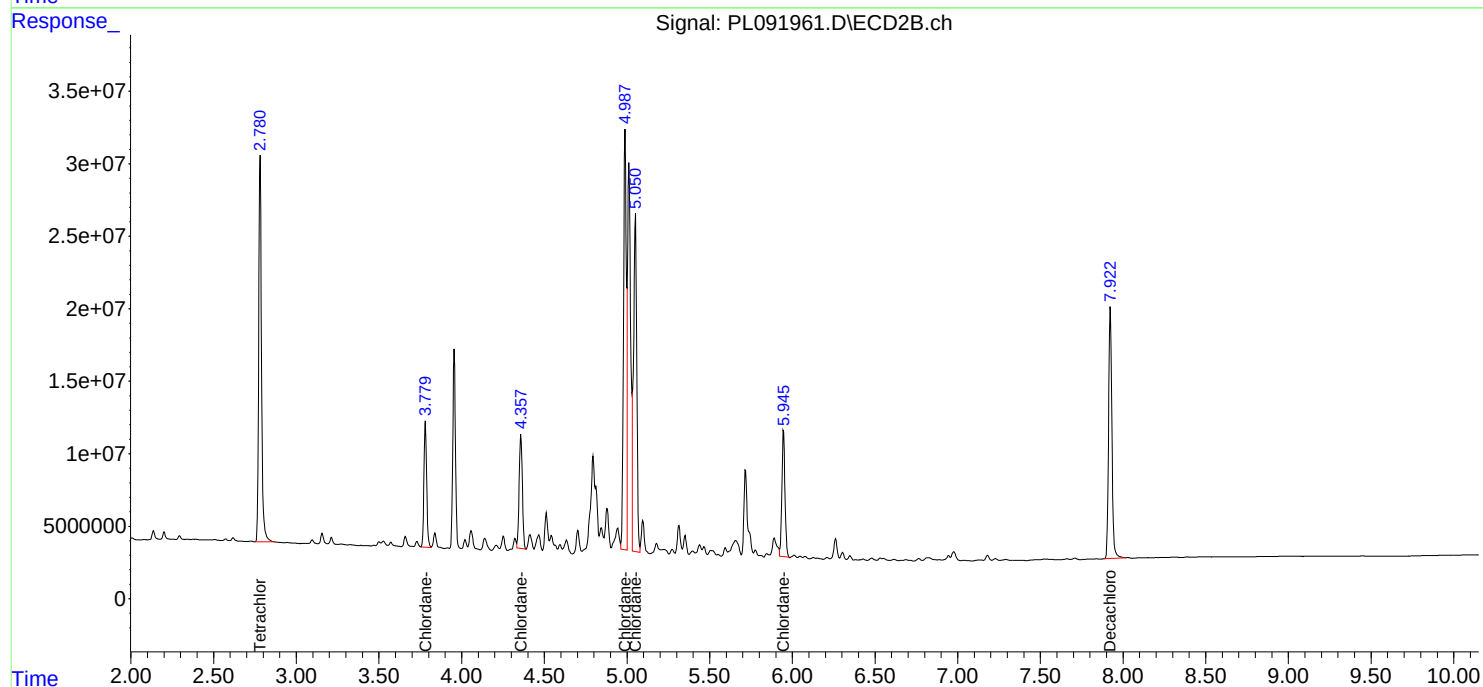
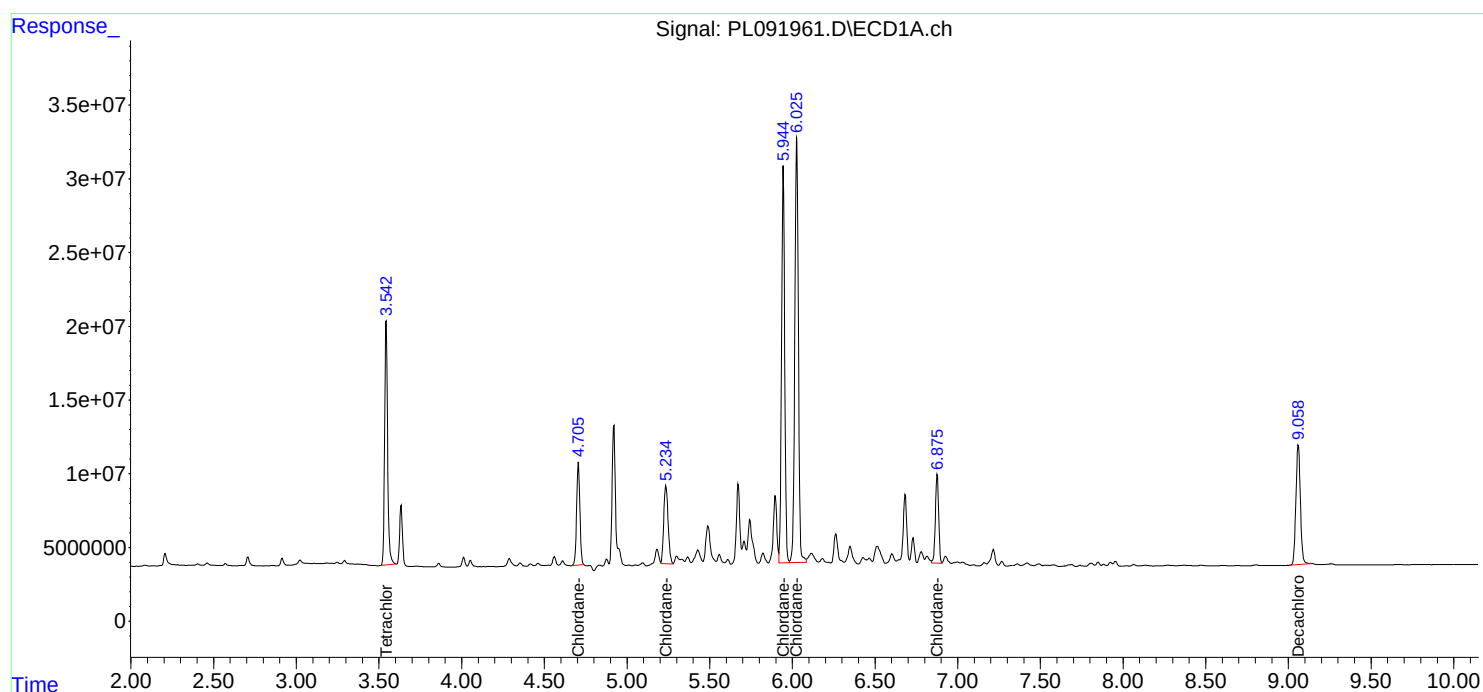
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

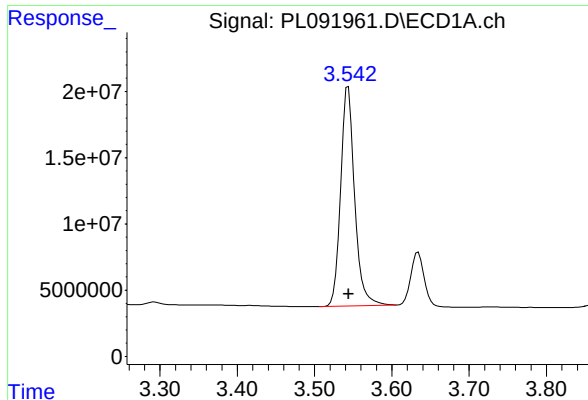
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091961.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 12:39
Operator : AR\AJ
Sample : PCHLORICC1000
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 16:38:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:37:12 2024
Response via : Initial Calibration
Integrator: ChemStation

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

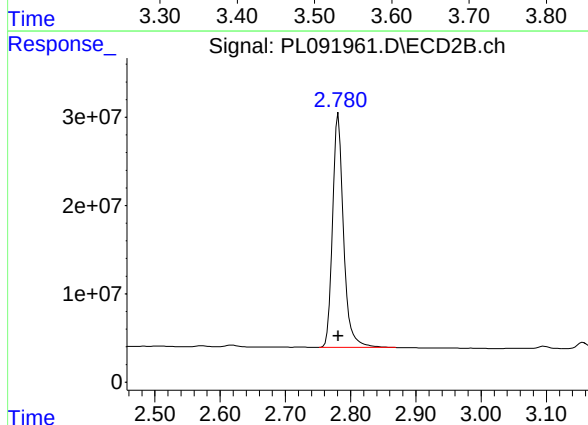




#1 Tetrachloro-m-xylene

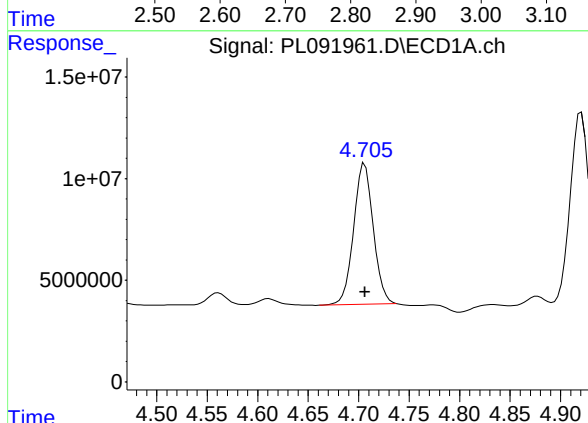
R.T.: 3.544 min
Delta R.T.: 0.000 min
Response: 207303202
Conc: 99.03 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC1000



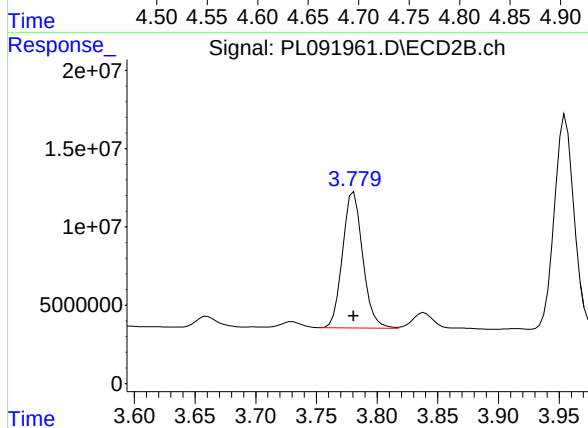
#1 Tetrachloro-m-xylene

R.T.: 2.781 min
Delta R.T.: 0.000 min
Response: 309505010
Conc: 101.18 ng/ml



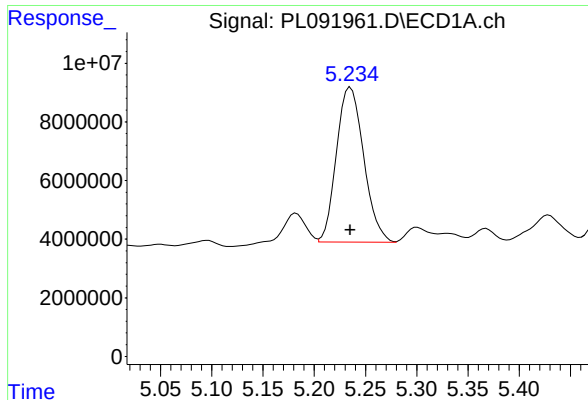
#23 Chlordane-1

R.T.: 4.706 min
Delta R.T.: 0.000 min
Response: 94078889
Conc: 974.94 ng/ml



#23 Chlordane-1

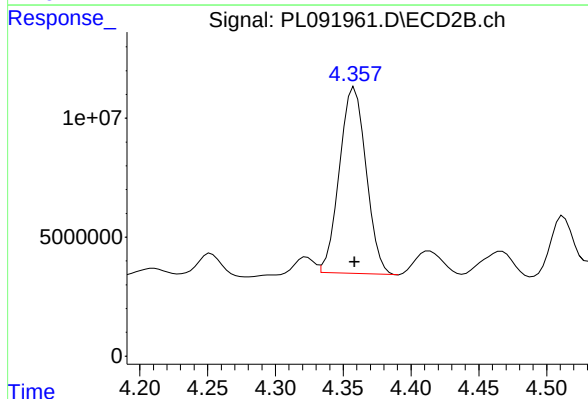
R.T.: 3.781 min
Delta R.T.: 0.000 min
Response: 100317407
Conc: 1011.19 ng/ml



#24 Chlordane-2

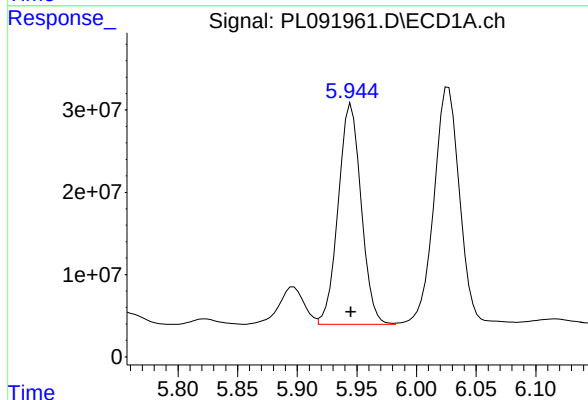
R.T.: 5.235 min
Delta R.T.: 0.000 min
Response: 97636046
Conc: 973.98 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC1000



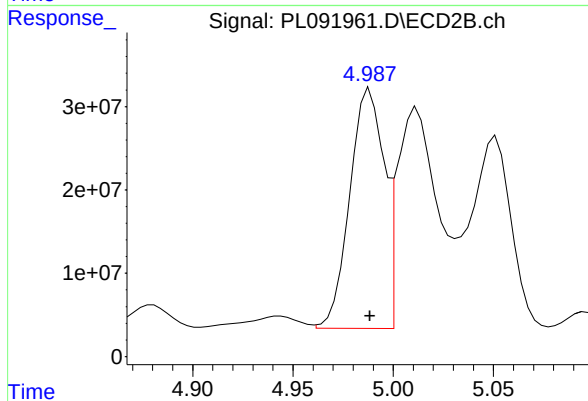
#24 Chlordane-2

R.T.: 4.358 min
Delta R.T.: 0.000 min
Response: 106982690
Conc: 989.24 ng/ml



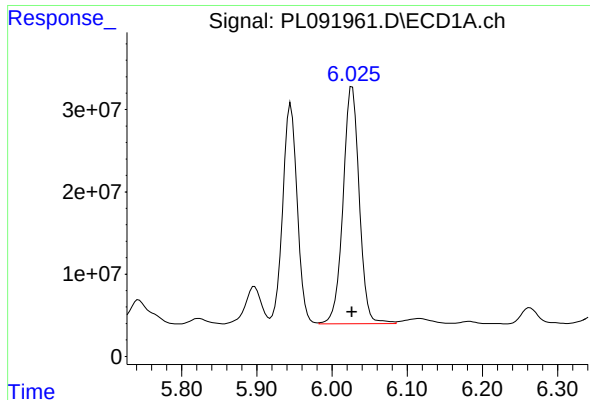
#25 Chlordane-3

R.T.: 5.945 min
Delta R.T.: 0.000 min
Response: 358234376
Conc: 1004.06 ng/ml



#25 Chlordane-3

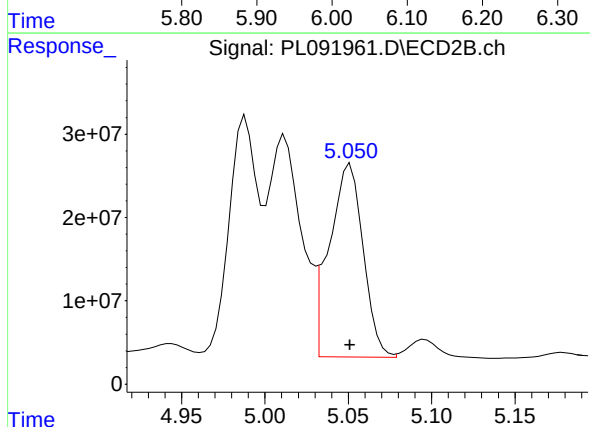
R.T.: 4.988 min
Delta R.T.: 0.000 min
Response: 340564261
Conc: 1016.46 ng/ml



#26 Chlordane-4

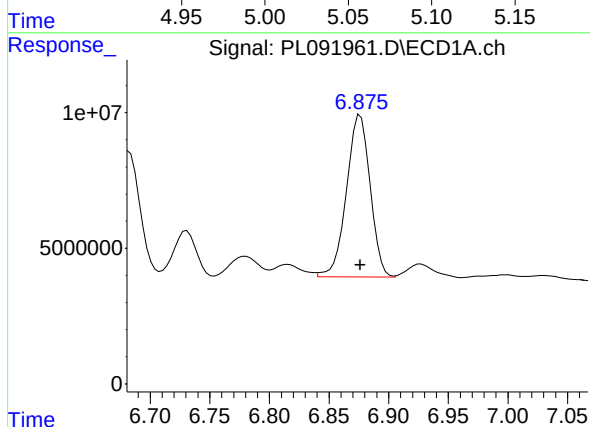
R.T.: 6.027 min
Delta R.T.: 0.000 min
Response: 432175110
Conc: 1000.13 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC1000



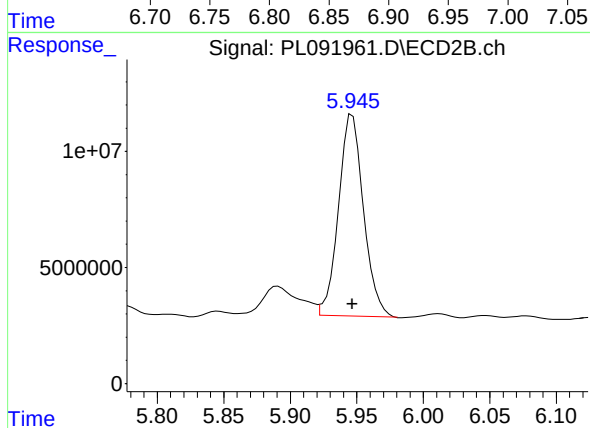
#26 Chlordane-4

R.T.: 5.051 min
Delta R.T.: 0.000 min
Response: 327820116
Conc: 1019.06 ng/ml



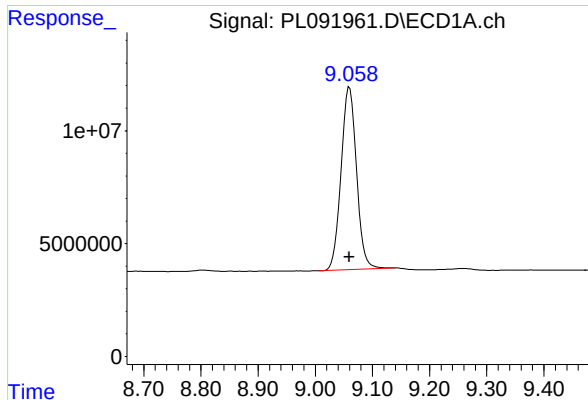
#27 Chlordane-5

R.T.: 6.876 min
Delta R.T.: 0.000 min
Response: 82596655
Conc: 990.74 ng/ml



#27 Chlordane-5

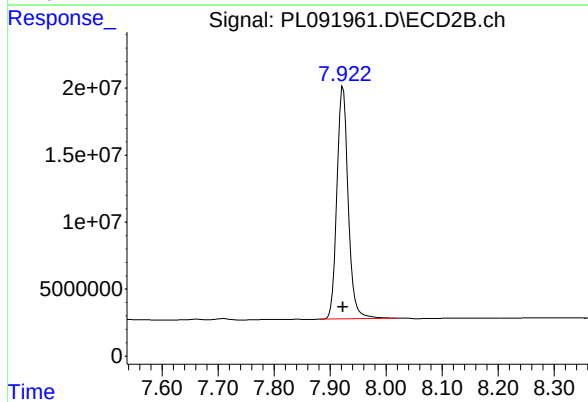
R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 113314362
Conc: 1022.67 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.000 min
Response: 152109001
Conc: 98.34 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC1000



#28 Decachlorobiphenyl

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 243159661
Conc: 100.10 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091962.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 12:52
Operator : AR\AJ
Sample : PCHLORICC750
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 13:24:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 13:20:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.543	2.781	154.0E6	226.5E6	74.044	74.357
28) SA Decachlor...	9.060	7.923	112.0E6	175.4E6	73.260	73.126
Target Compounds						
23) Chlordane-1	4.706	3.781	72049361	73625516	741.962	744.739
24) Chlordane-2	5.235	4.358	73316499	78800619	737.480	735.627
25) Chlordane-3	5.945	4.988	260.9E6	246.8E6	737.373	740.927
26) Chlordane-4	6.027	5.051	315.0E6	235.5E6	735.890	737.999
27) Chlordane-5	6.876	5.947	60646959	81542348	734.818	740.556

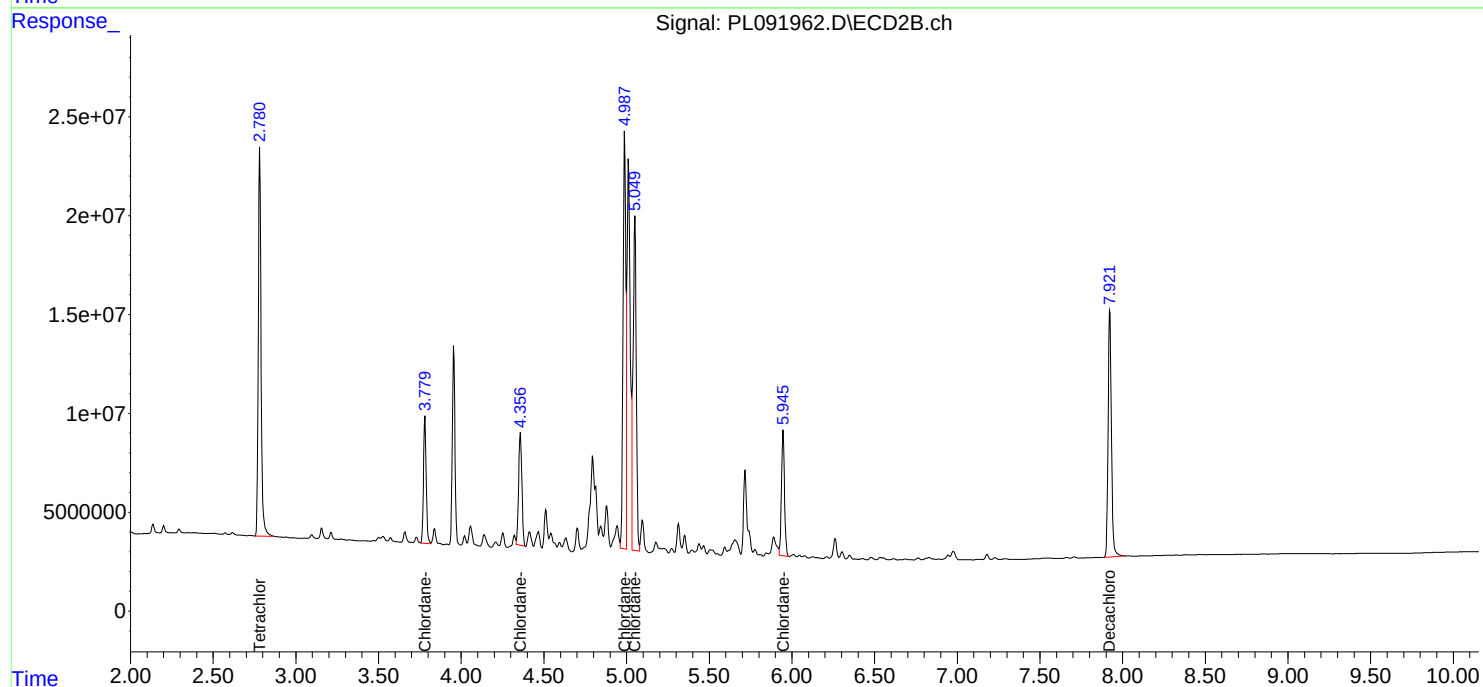
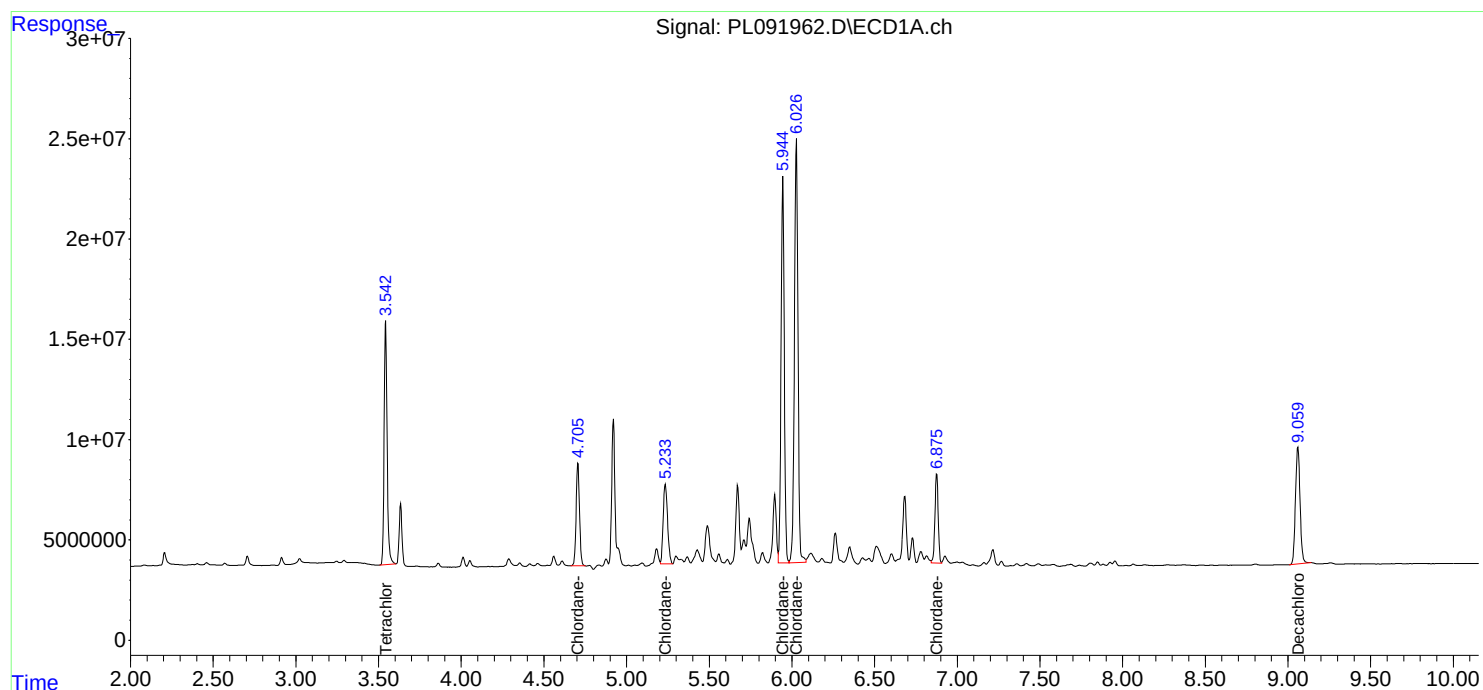
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

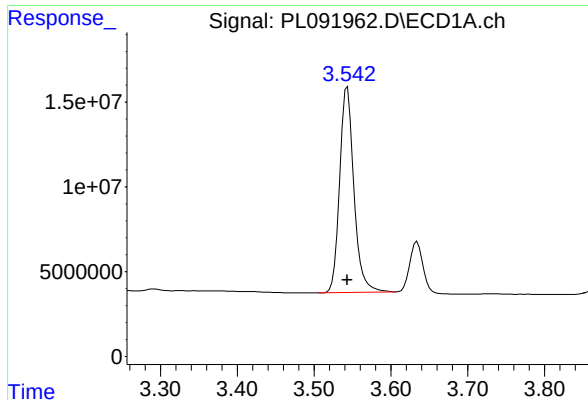
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091962.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 12:52
Operator : AR\AJ
Sample : PCHLORICC750
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 13:24:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 13:20:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

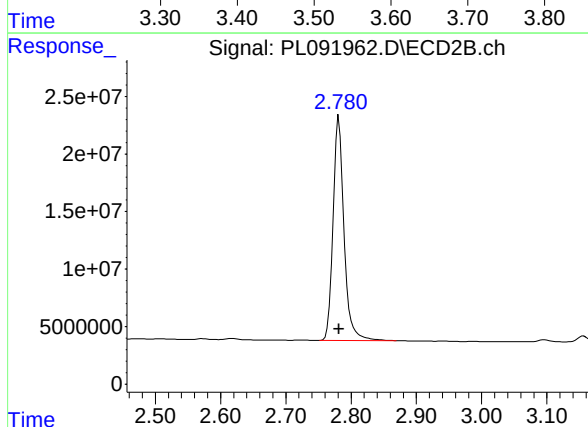




#1 Tetrachloro-m-xylene

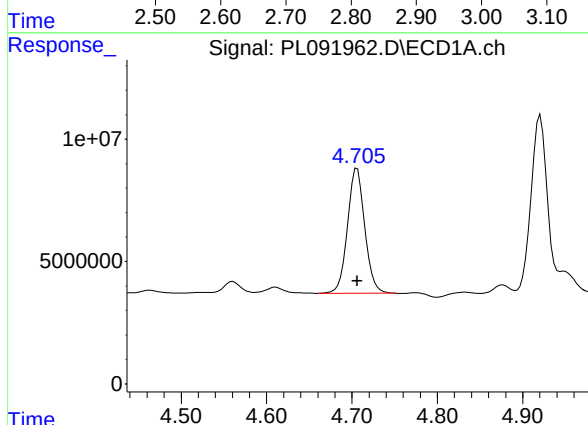
R.T.: 3.543 min
Delta R.T.: 0.000 min
Response: 154014047
Conc: 74.04 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC750



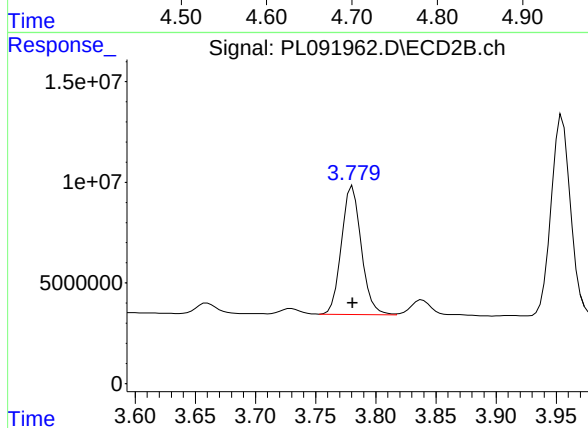
#1 Tetrachloro-m-xylene

R.T.: 2.781 min
Delta R.T.: 0.000 min
Response: 226493399
Conc: 74.36 ng/ml



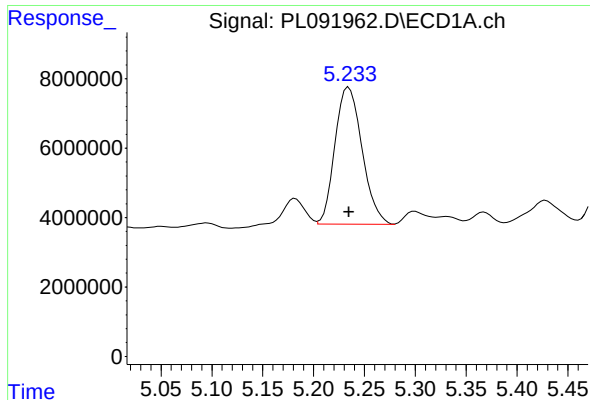
#23 Chlordane-1

R.T.: 4.706 min
Delta R.T.: 0.000 min
Response: 72049361
Conc: 741.96 ng/ml



#23 Chlordane-1

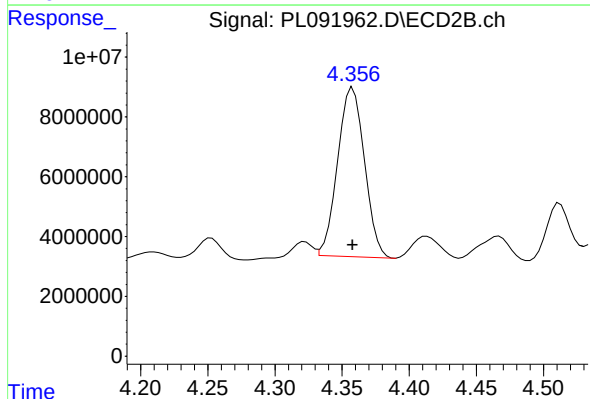
R.T.: 3.781 min
Delta R.T.: 0.000 min
Response: 73625516
Conc: 744.74 ng/ml



#24 Chlordane-2

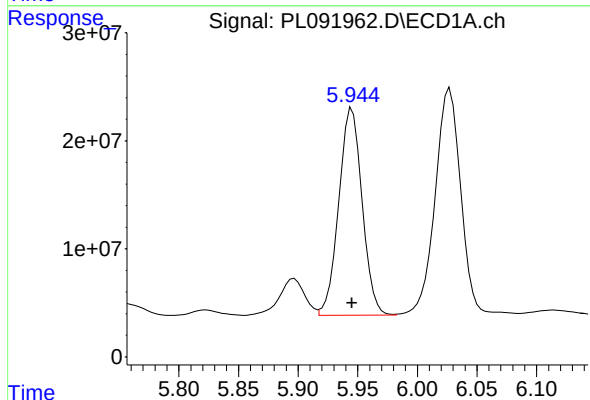
R.T.: 5.235 min
Delta R.T.: 0.000 min
Response: 73316499
Conc: 737.48 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC750



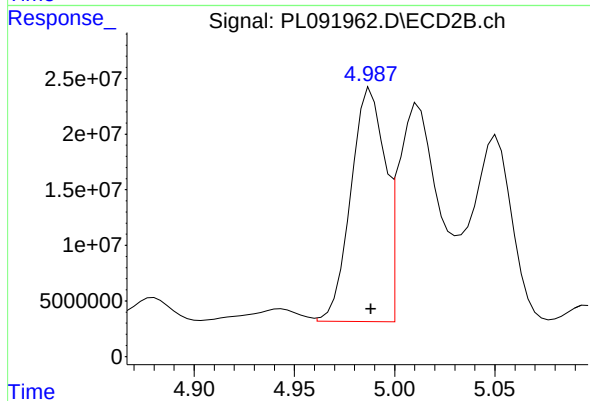
#24 Chlordane-2

R.T.: 4.358 min
Delta R.T.: 0.000 min
Response: 78800619
Conc: 735.63 ng/ml



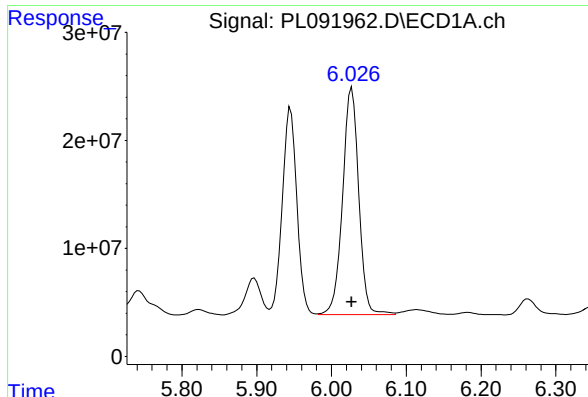
#25 Chlordane-3

R.T.: 5.945 min
Delta R.T.: 0.000 min
Response: 260887975
Conc: 737.37 ng/ml



#25 Chlordane-3

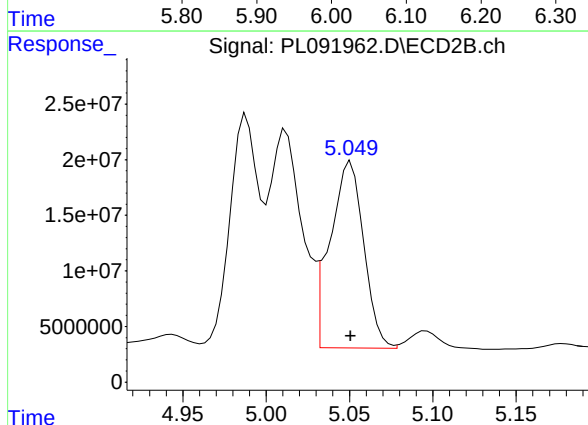
R.T.: 4.988 min
Delta R.T.: 0.000 min
Response: 246754754
Conc: 740.93 ng/ml



#26 Chlordane-4

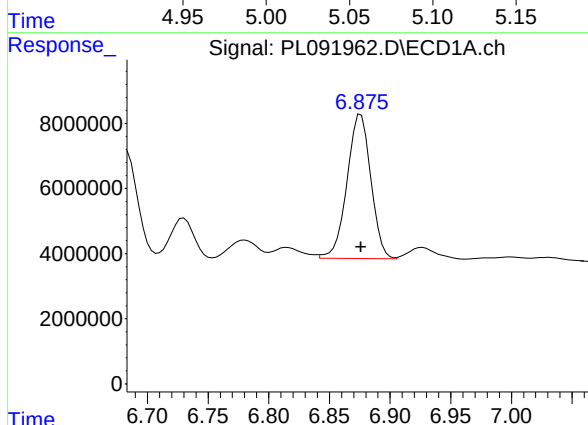
R.T.: 6.027 min
Delta R.T.: 0.000 min
Response: 315028906
Conc: 735.89 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC750



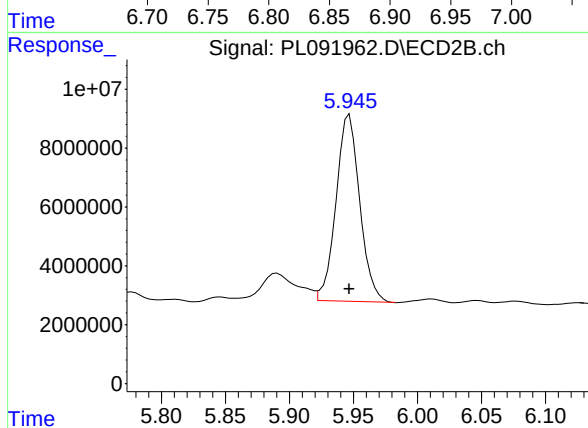
#26 Chlordane-4

R.T.: 5.051 min
Delta R.T.: 0.000 min
Response: 235522405
Conc: 738.00 ng/ml



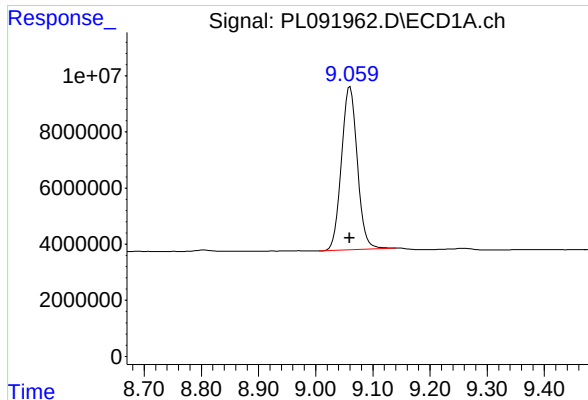
#27 Chlordane-5

R.T.: 6.876 min
Delta R.T.: 0.000 min
Response: 60646959
Conc: 734.82 ng/ml



#27 Chlordane-5

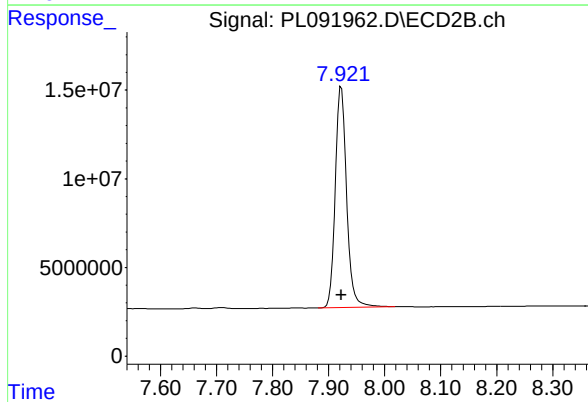
R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 81542348
Conc: 740.56 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.000 min
Response: 112019666
Conc: 73.26 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC750



#28 Decachlorobiphenyl

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 175442109
Conc: 73.13 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091963.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 13:06
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 13:20:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 13:20:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.544	2.782	105.7E6	151.2E6	50.000	50.000
28) SA Decachlor...	9.061	7.924	78626748	121.3E6	50.000	50.000
Target Compounds						
23) Chlordane-1	4.706	3.781	49457629	49048818	500.000	500.000
24) Chlordane-2	5.236	4.358	51426580	54655467	500.000	500.000
25) Chlordane-3	5.946	4.989	177.7E6	164.8E6	500.000	500.000
26) Chlordane-4	6.028	5.051	216.0E6	157.8E6	500.000	500.000
27) Chlordane-5	6.877	5.947	42070403	54145786	500.000	500.000

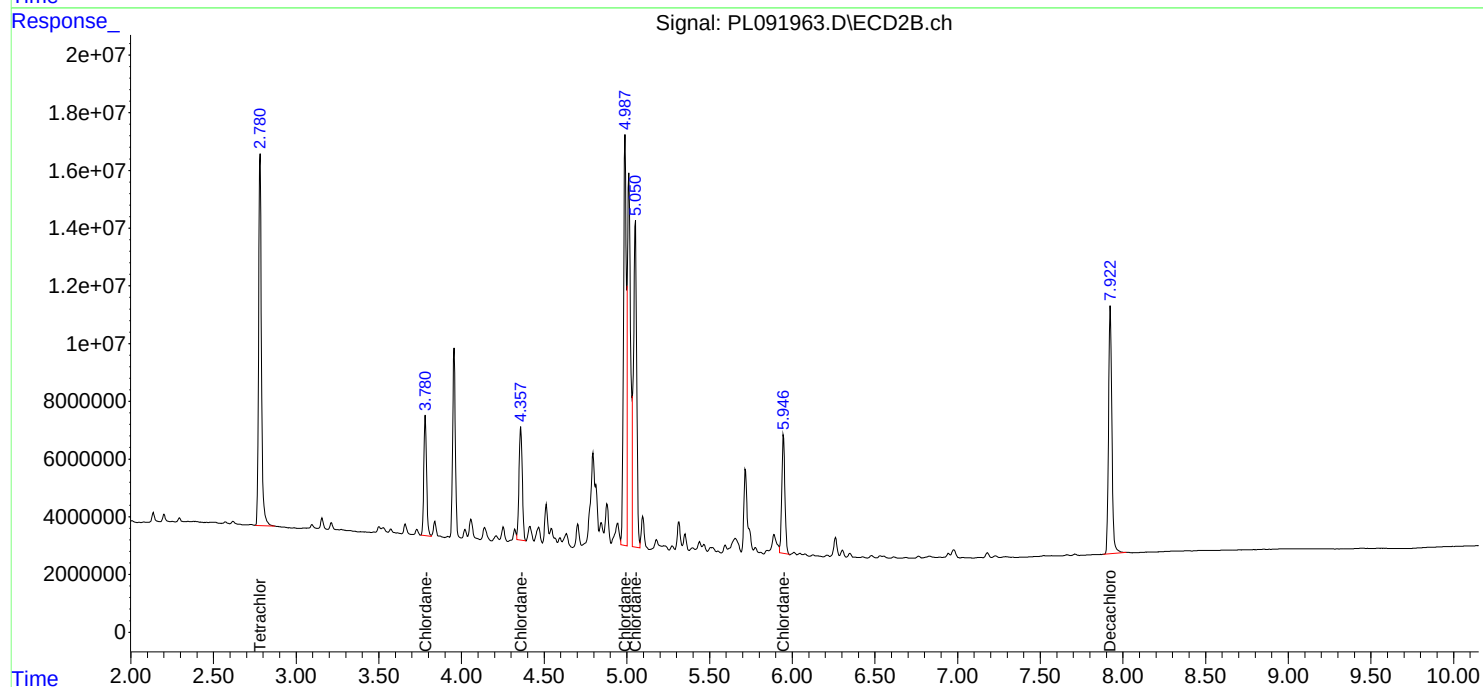
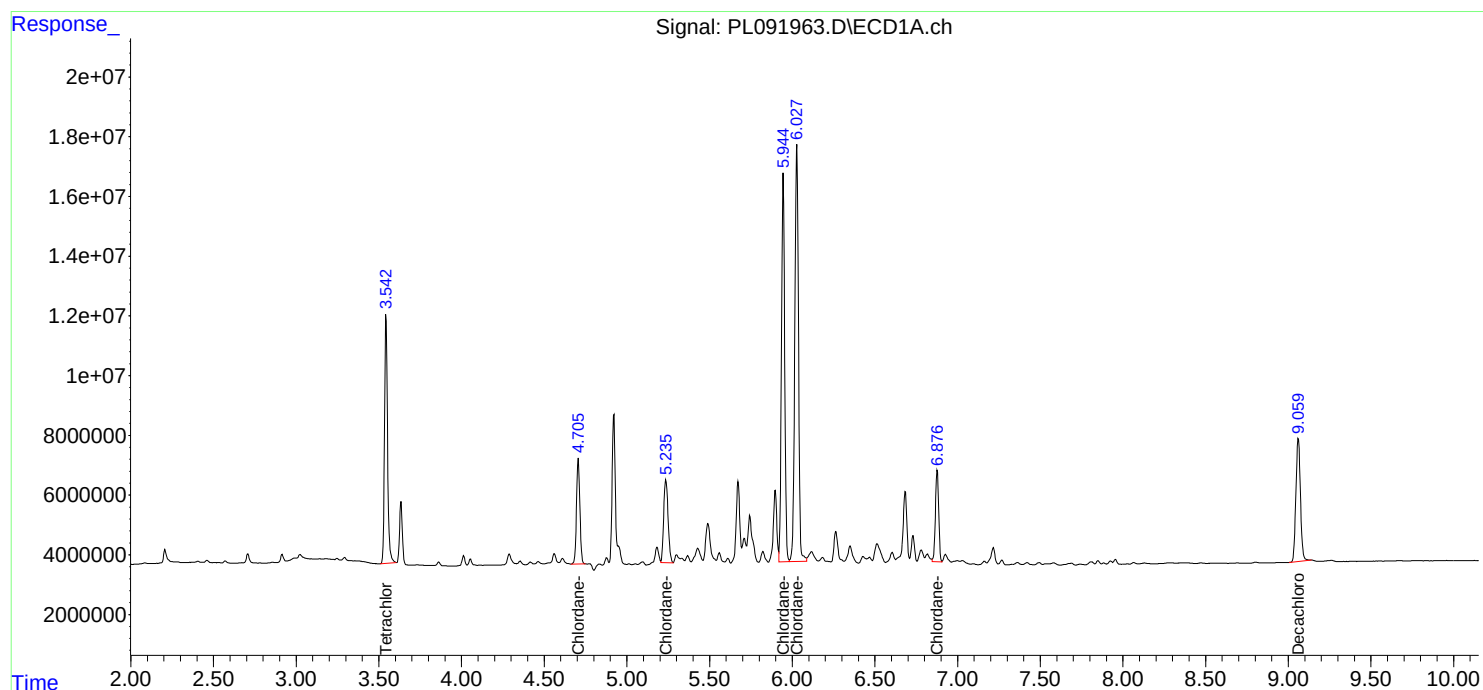
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

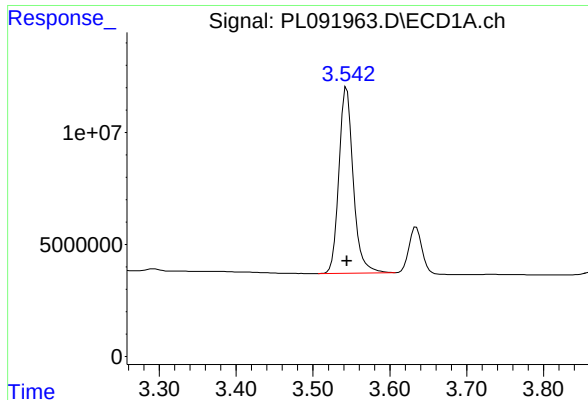
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091963.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 13:06
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 13:20:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 13:20:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

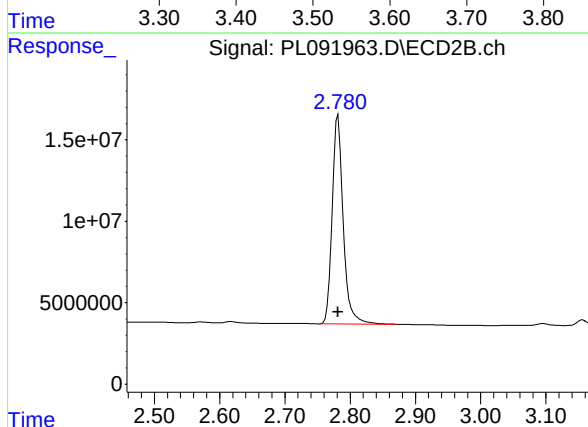




#1 Tetrachloro-m-xylene

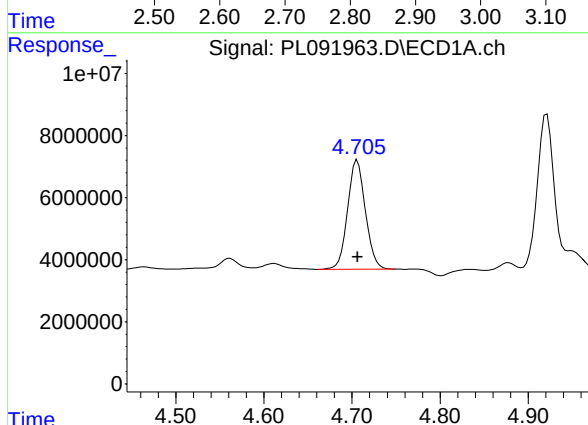
R.T.: 3.544 min
Delta R.T.: 0.000 min
Response: 105675393
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500



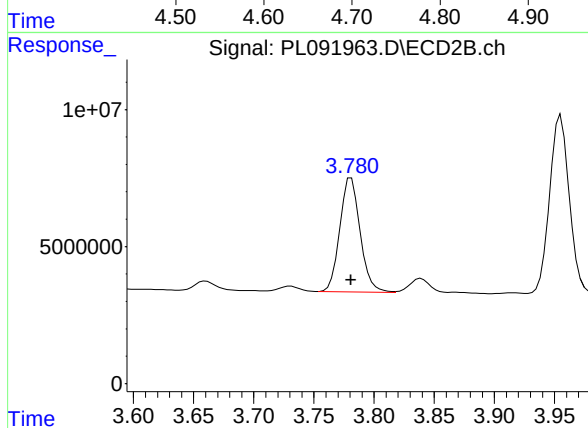
#1 Tetrachloro-m-xylene

R.T.: 2.782 min
Delta R.T.: 0.000 min
Response: 151157034
Conc: 50.00 ng/ml



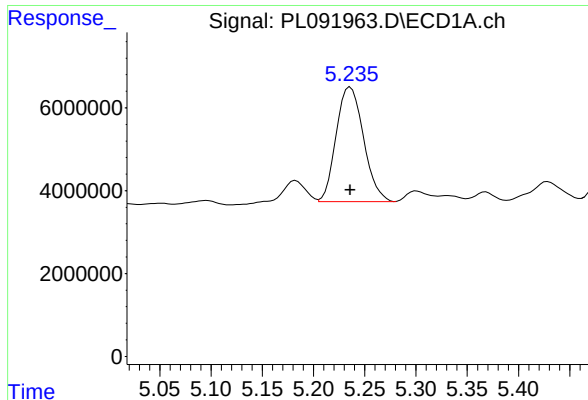
#23 Chlordane-1

R.T.: 4.706 min
Delta R.T.: 0.000 min
Response: 49457629
Conc: 500.00 ng/ml



#23 Chlordane-1

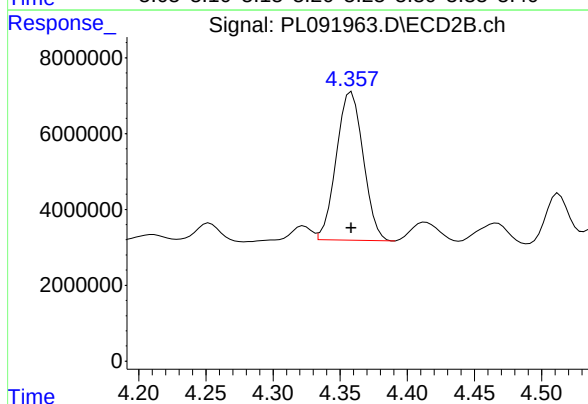
R.T.: 3.781 min
Delta R.T.: 0.000 min
Response: 49048818
Conc: 500.00 ng/ml



#24 Chlordane-2

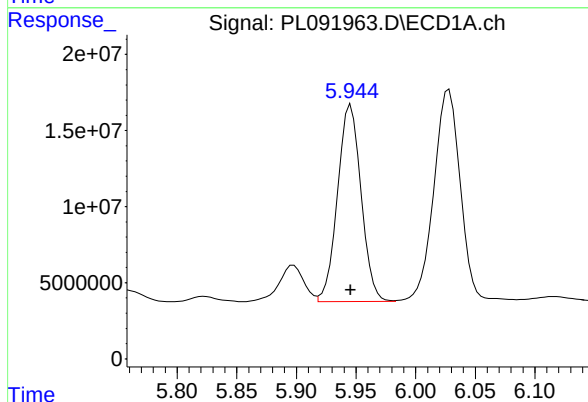
R.T.: 5.236 min
Delta R.T.: 0.000 min
Response: 51426580
Conc: 500.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500



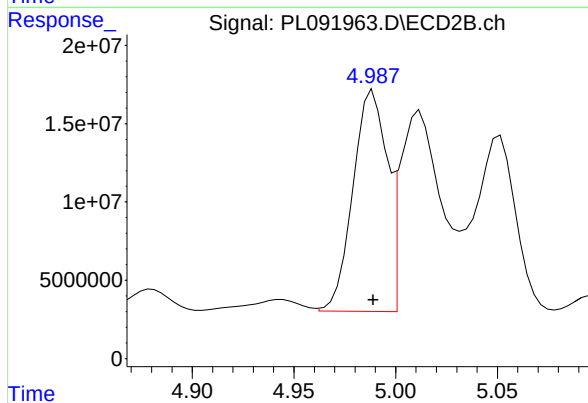
#24 Chlordane-2

R.T.: 4.358 min
Delta R.T.: 0.000 min
Response: 54655467
Conc: 500.00 ng/ml



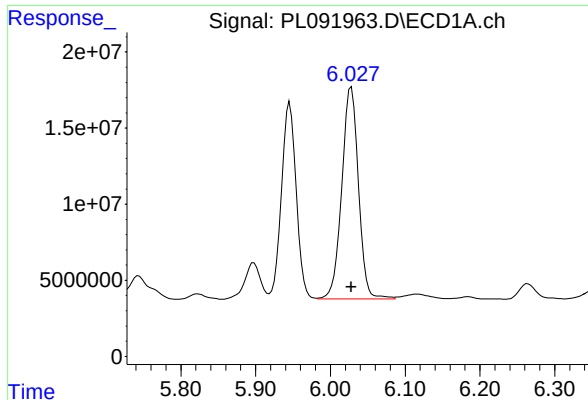
#25 Chlordane-3

R.T.: 5.946 min
Delta R.T.: 0.000 min
Response: 177668269
Conc: 500.00 ng/ml



#25 Chlordane-3

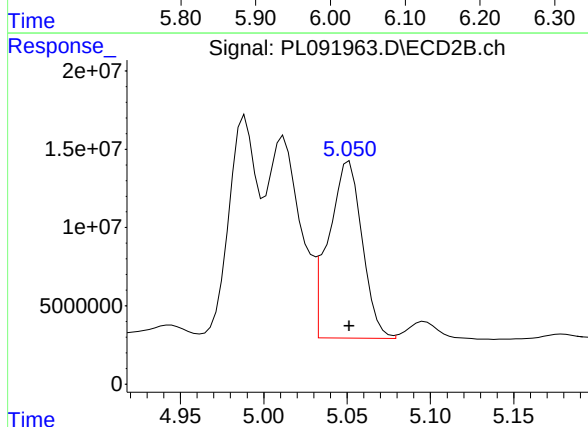
R.T.: 4.989 min
Delta R.T.: 0.000 min
Response: 164767709
Conc: 500.00 ng/ml



#26 Chlordane-4

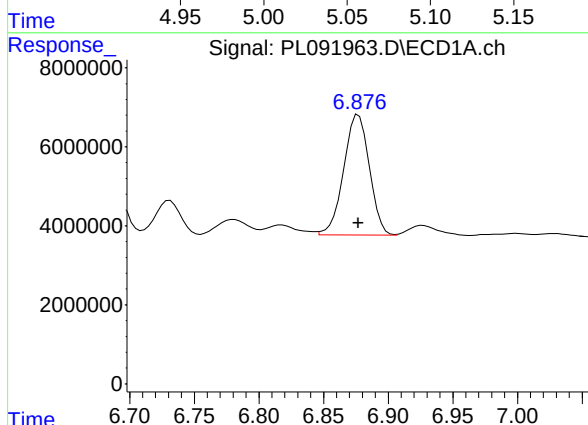
R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 216031706
Conc: 500.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500



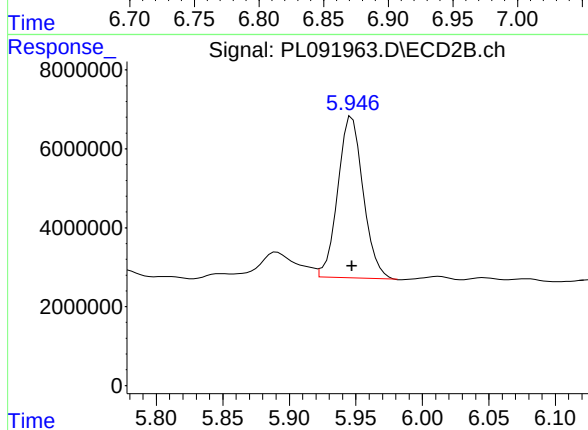
#26 Chlordane-4

R.T.: 5.051 min
Delta R.T.: 0.000 min
Response: 157779752
Conc: 500.00 ng/ml



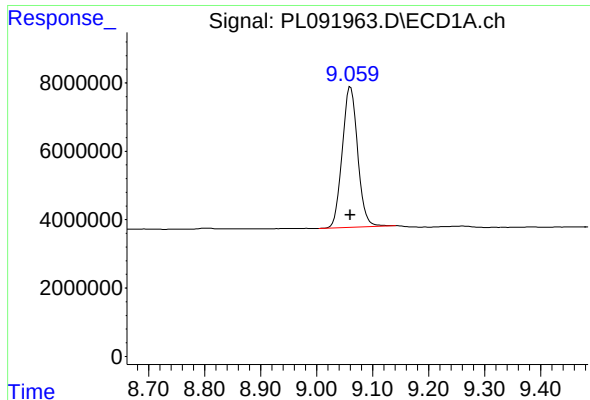
#27 Chlordane-5

R.T.: 6.877 min
Delta R.T.: 0.000 min
Response: 42070403
Conc: 500.00 ng/ml



#27 Chlordane-5

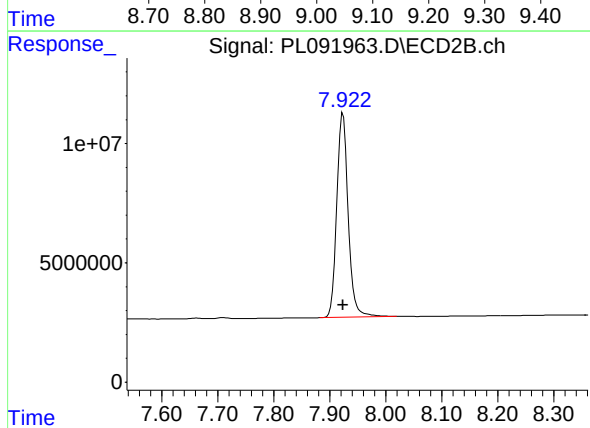
R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 54145786
Conc: 500.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min
Delta R.T.: 0.000 min
Response: 78626748
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500



#28 Decachlorobiphenyl

R.T.: 7.924 min
Delta R.T.: 0.000 min
Response: 121336825
Conc: 50.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091964.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 13:19
Operator : AR\AJ
Sample : PCHLORICC250
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 13:59:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 13:58:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.544	2.782	55649362	76418777	26.293	25.066
28) SA Decachlor...	9.061	7.923	40996191	63515556	26.334	26.089
Target Compounds						
23) Chlordane-1	4.706	3.781	26612873	25182916	267.620	253.532
24) Chlordane-2	5.235	4.359	27705732	28764449	270.916	263.641
25) Chlordane-3	5.945	4.989	93344435	81883907	260.230	246.891
26) Chlordane-4	6.027	5.052	113.8E6	79198691	261.772	248.622
27) Chlordane-5	6.876	5.947	22279405	27334257	264.666	248.682

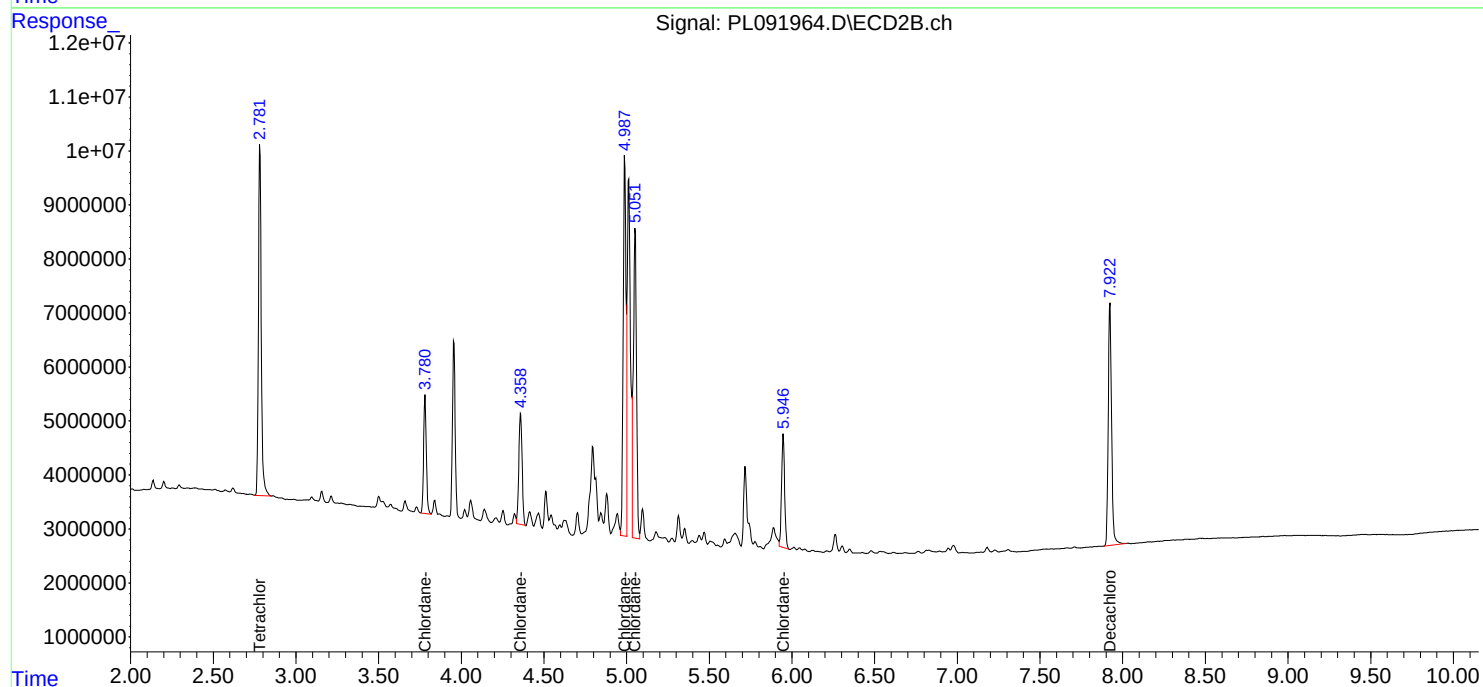
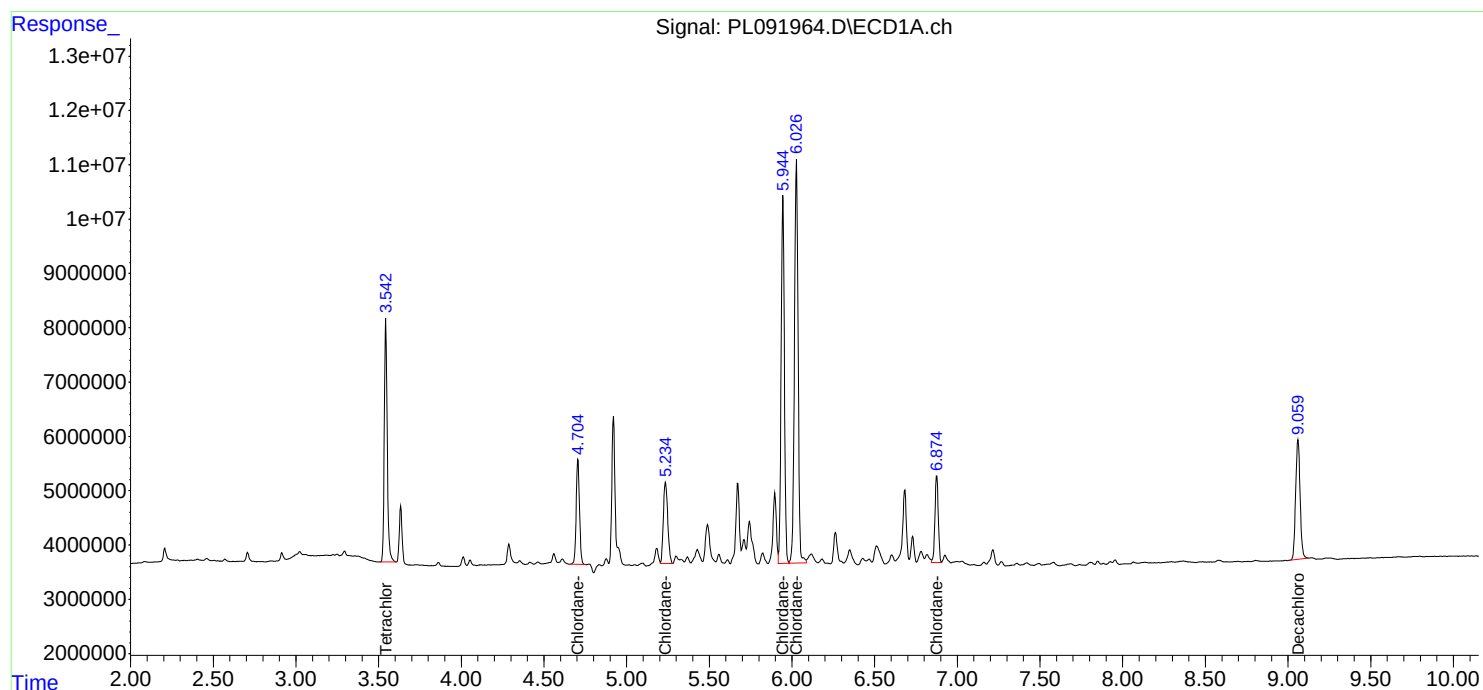
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

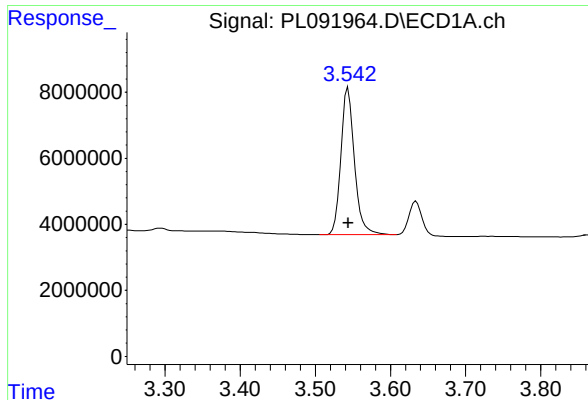
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091964.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 13:19
Operator : AR\AJ
Sample : PCHLORICC250
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 13:59:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 13:58:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

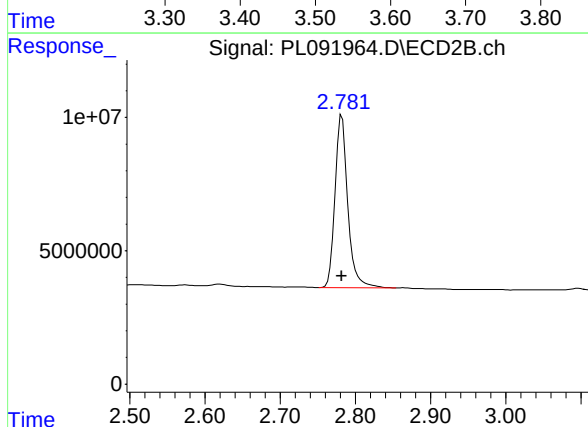




#1 Tetrachloro-m-xylene

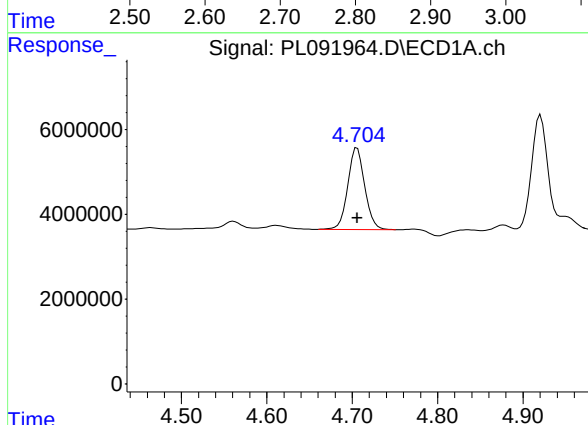
R.T.: 3.544 min
Delta R.T.: 0.000 min
Response: 55649362
Conc: 26.29 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC250



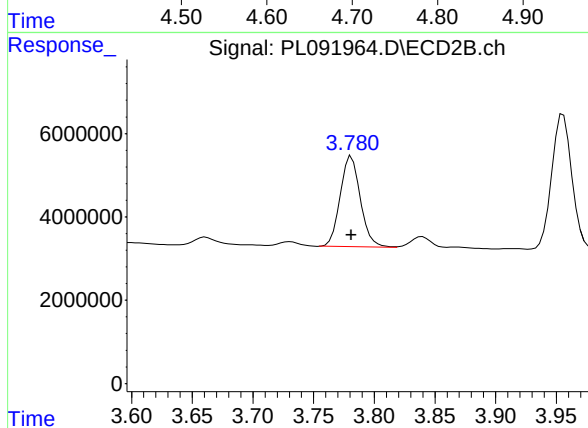
#1 Tetrachloro-m-xylene

R.T.: 2.782 min
Delta R.T.: 0.000 min
Response: 76418777
Conc: 25.07 ng/ml



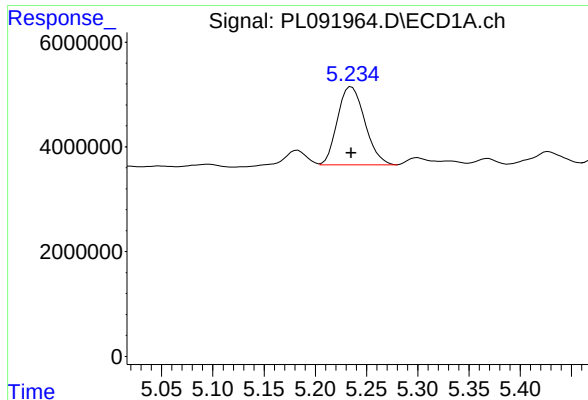
#23 Chlordane-1

R.T.: 4.706 min
Delta R.T.: 0.000 min
Response: 26612873
Conc: 267.62 ng/ml



#23 Chlordane-1

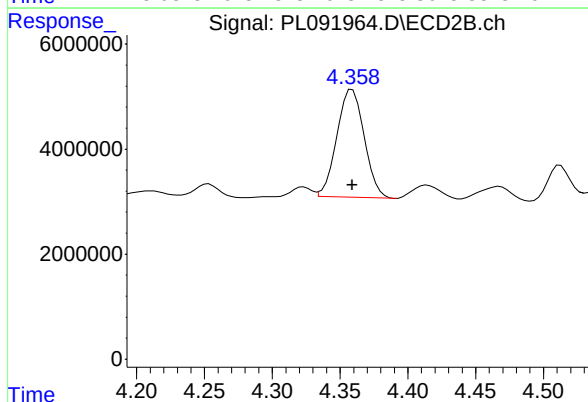
R.T.: 3.781 min
Delta R.T.: 0.000 min
Response: 25182916
Conc: 253.53 ng/ml



#24 Chlordane-2

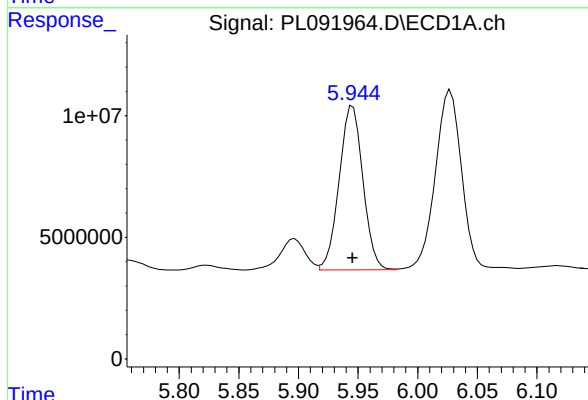
R.T.: 5.235 min
Delta R.T.: 0.000 min
Response: 27705732
Conc: 270.92 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC250



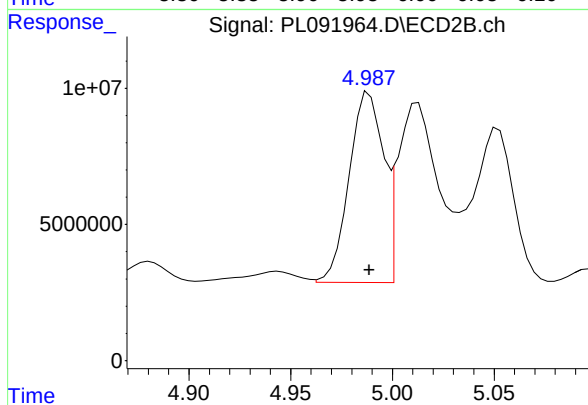
#24 Chlordane-2

R.T.: 4.359 min
Delta R.T.: 0.000 min
Response: 28764449
Conc: 263.64 ng/ml



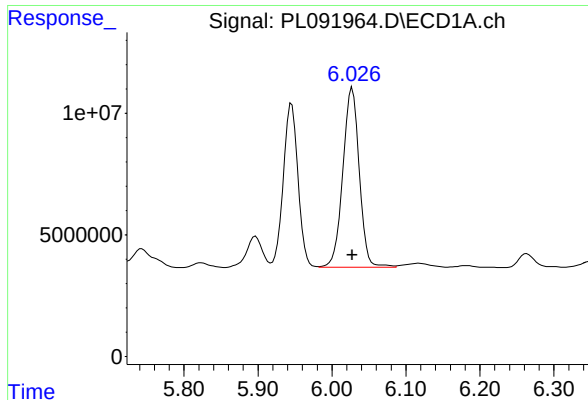
#25 Chlordane-3

R.T.: 5.945 min
Delta R.T.: 0.000 min
Response: 93344435
Conc: 260.23 ng/ml



#25 Chlordane-3

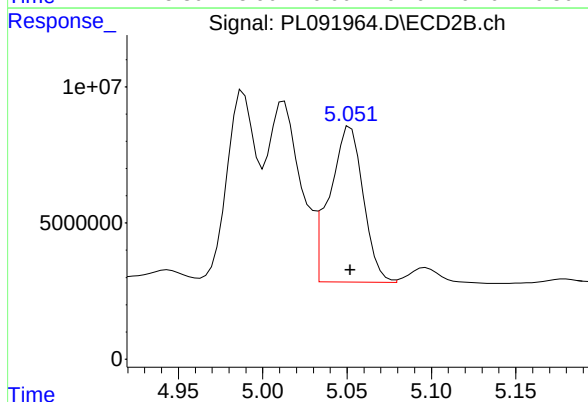
R.T.: 4.989 min
Delta R.T.: 0.000 min
Response: 81883907
Conc: 246.89 ng/ml



#26 Chlordane-4

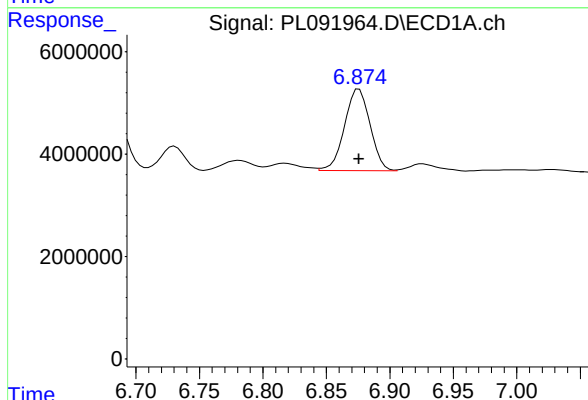
R.T.: 6.027 min
Delta R.T.: 0.000 min
Response: 113849651
Conc: 261.77 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC250



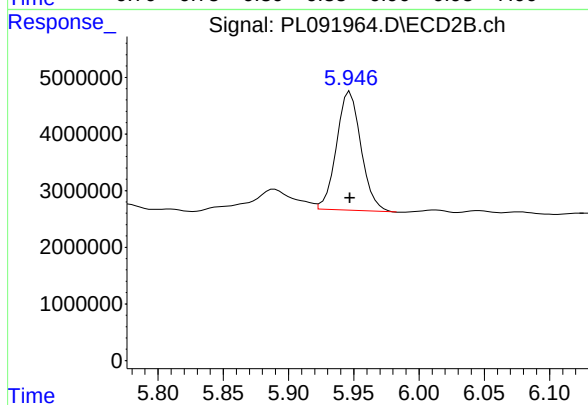
#26 Chlordane-4

R.T.: 5.052 min
Delta R.T.: 0.000 min
Response: 79198691
Conc: 248.62 ng/ml



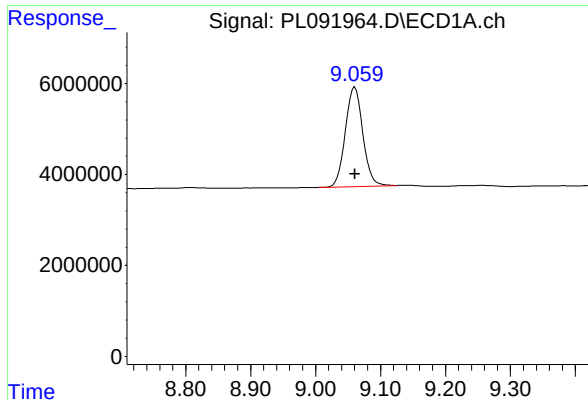
#27 Chlordane-5

R.T.: 6.876 min
Delta R.T.: 0.000 min
Response: 22279405
Conc: 264.67 ng/ml



#27 Chlordane-5

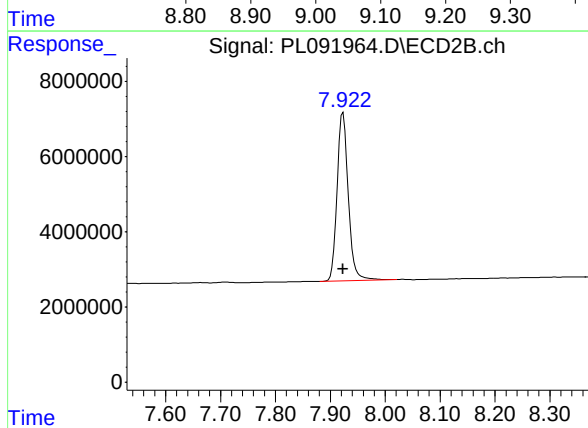
R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 27334257
Conc: 248.68 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min
Delta R.T.: 0.000 min
Response: 40996191
Conc: 26.33 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC250



#28 Decachlorobiphenyl

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 63515556
Conc: 26.09 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091965.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 13:33
Operator : AR\AJ
Sample : PCHLORICC050
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 14:01:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 14:00:52 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.543	2.782	12554280	15601593	5.719	5.094
28) SA Decachlor...	9.061	7.924	9288203	13790570	5.744	5.518
Target Compounds						
23) Chlordane-1	4.706	3.781	5848037	5129488	56.807	51.305
24) Chlordane-2	5.235	4.358	6358281	6235547	59.287	55.562
25) Chlordane-3	5.945	4.988	21904289	16475009	58.477	49.739
26) Chlordane-4	6.027	5.051	26227789	15610281	57.918	49.200
27) Chlordane-5	6.876	5.947	4967859	5129055	56.961	47.294

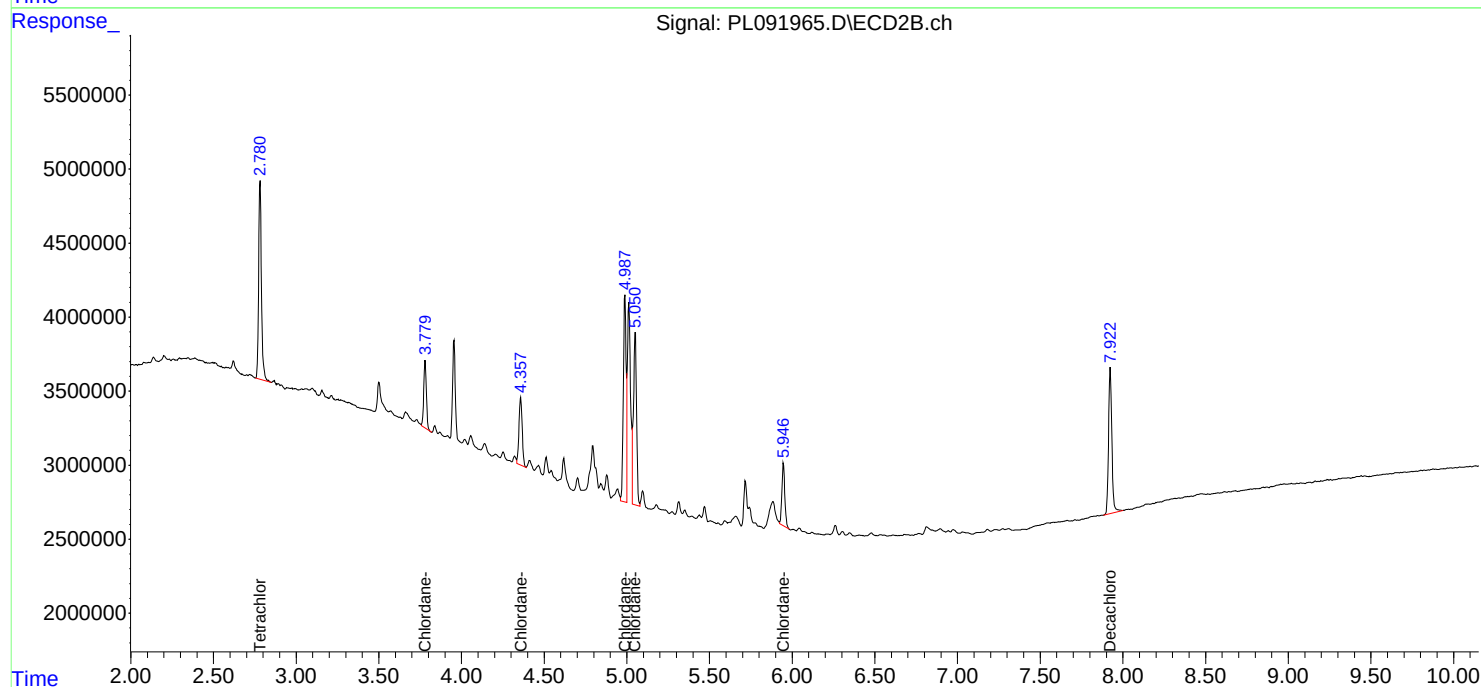
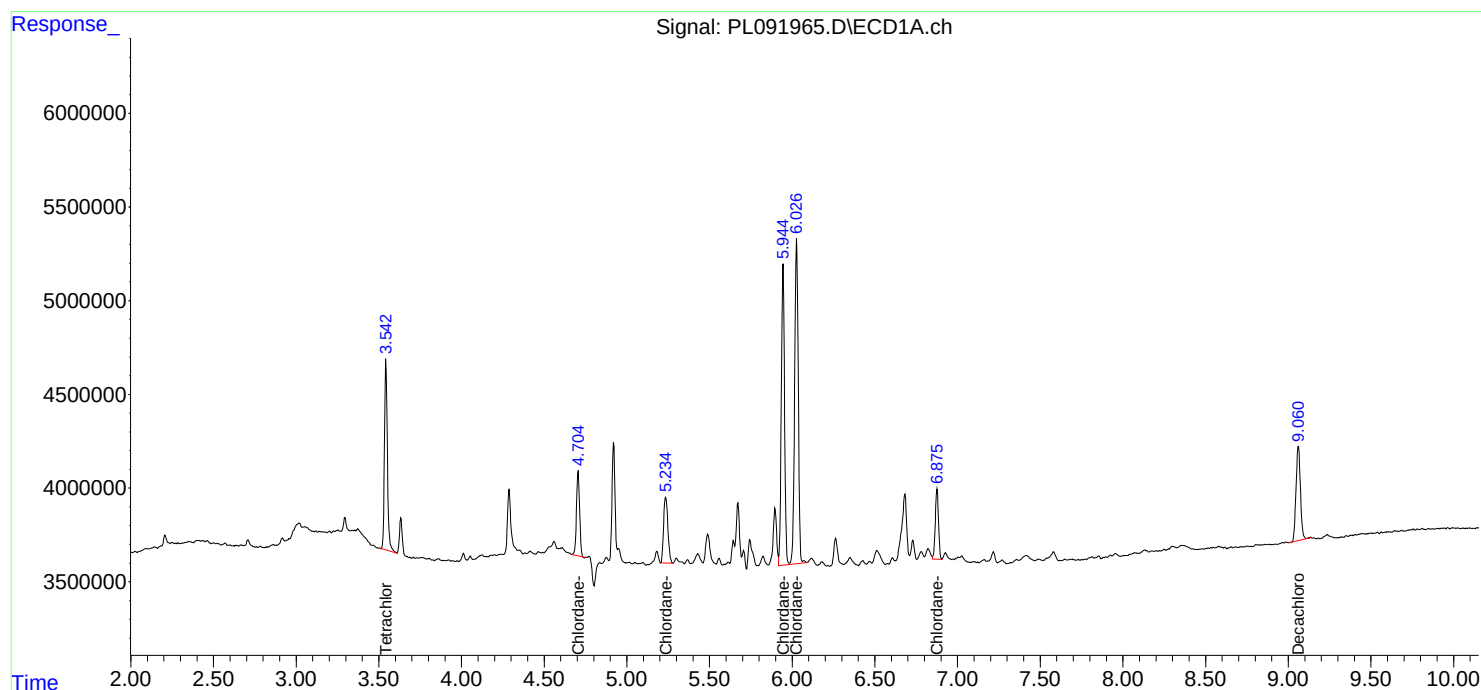
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

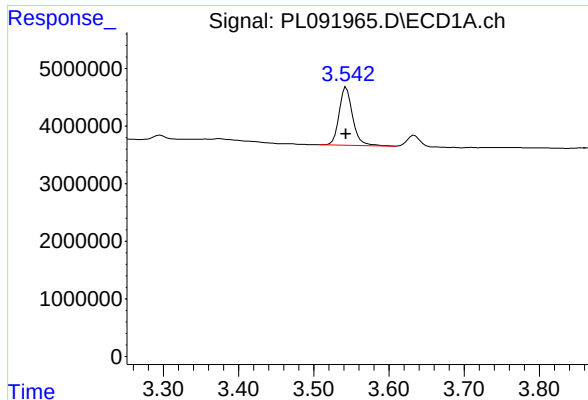
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091965.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 13:33
Operator : AR\AJ
Sample : PCHLORICC050
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 14:01:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 14:00:52 2024
Response via : Initial Calibration
Integrator: ChemStation

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

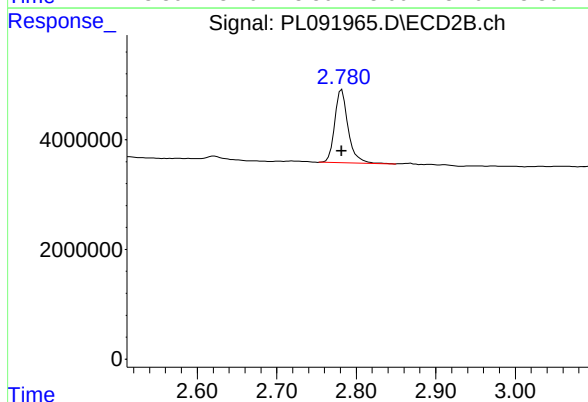




#1 Tetrachloro-m-xylene

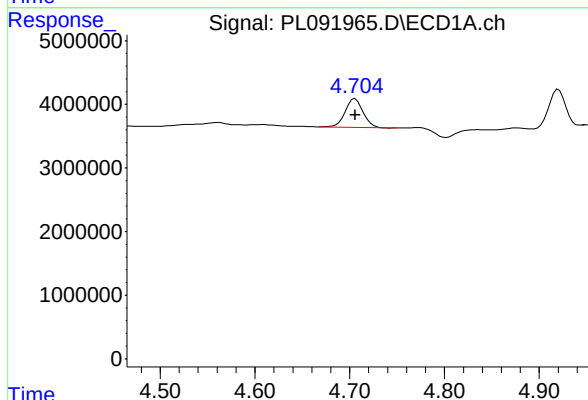
R.T.: 3.543 min
Delta R.T.: 0.000 min
Response: 12554280
Conc: 5.72 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC050



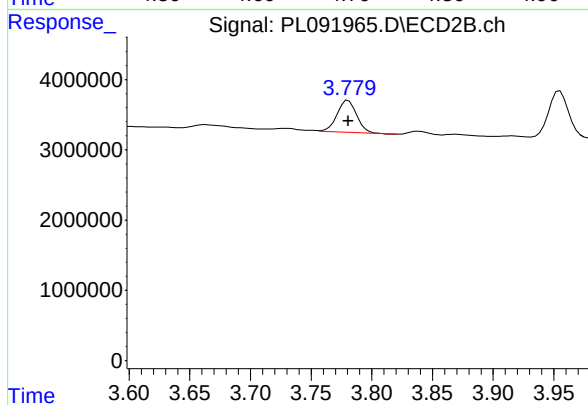
#1 Tetrachloro-m-xylene

R.T.: 2.782 min
Delta R.T.: 0.000 min
Response: 15601593
Conc: 5.09 ng/ml



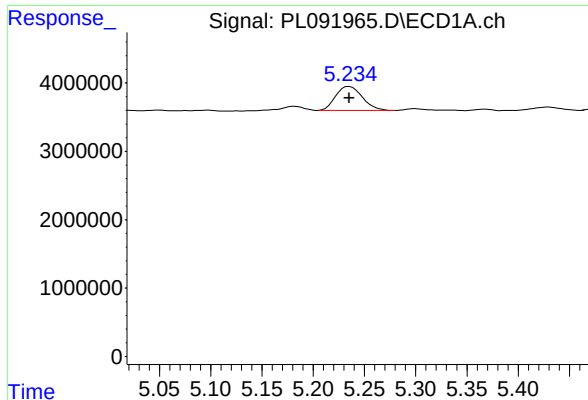
#23 Chlordane-1

R.T.: 4.706 min
Delta R.T.: 0.000 min
Response: 5848037
Conc: 56.81 ng/ml



#23 Chlordane-1

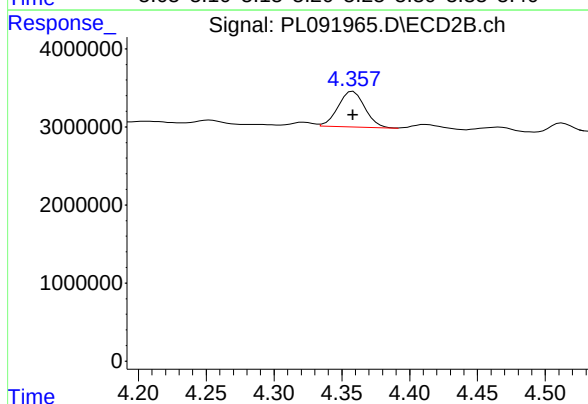
R.T.: 3.781 min
Delta R.T.: 0.000 min
Response: 5129488
Conc: 51.30 ng/ml



#24 Chlordane-2

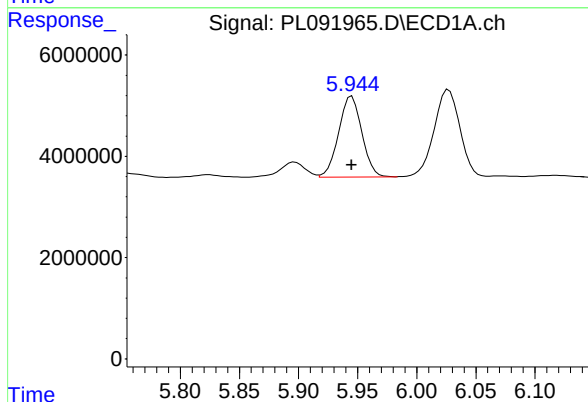
R.T.: 5.235 min
Delta R.T.: 0.000 min
Response: 6358281
Conc: 59.29 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC050



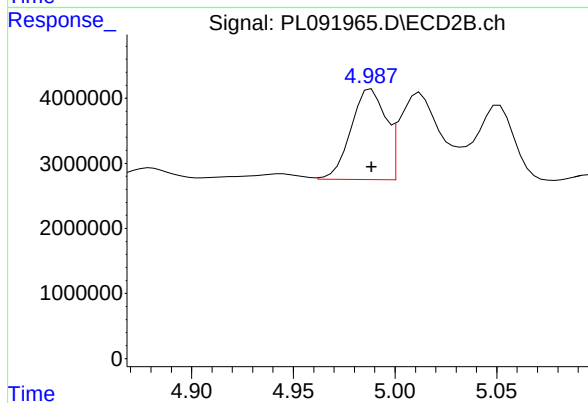
#24 Chlordane-2

R.T.: 4.358 min
Delta R.T.: 0.000 min
Response: 6235547
Conc: 55.56 ng/ml



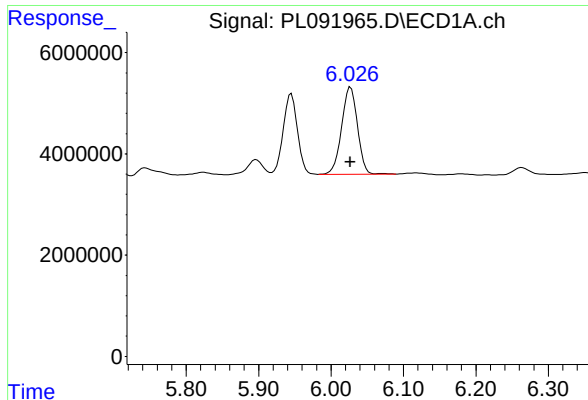
#25 Chlordane-3

R.T.: 5.945 min
Delta R.T.: 0.000 min
Response: 21904289
Conc: 58.48 ng/ml



#25 Chlordane-3

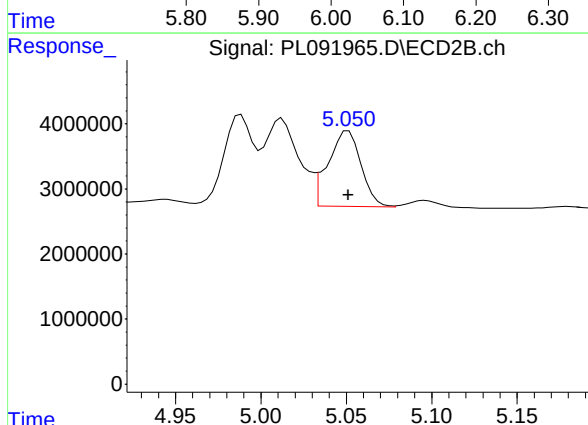
R.T.: 4.988 min
Delta R.T.: 0.000 min
Response: 16475009
Conc: 49.74 ng/ml



#26 Chlordane-4

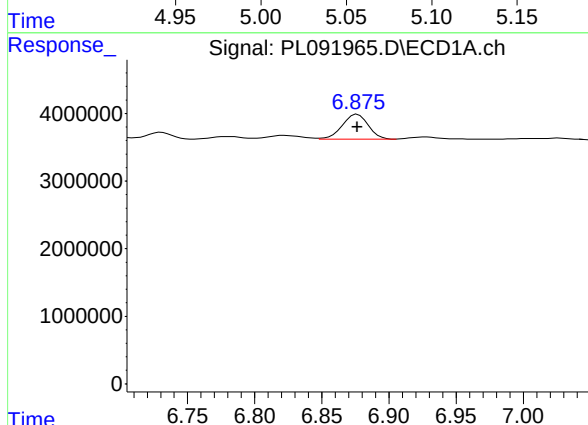
R.T.: 6.027 min
Delta R.T.: 0.000 min
Response: 26227789
Conc: 57.92 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC050



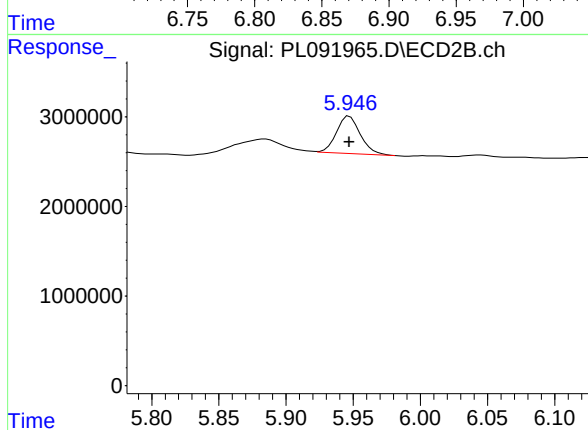
#26 Chlordane-4

R.T.: 5.051 min
Delta R.T.: 0.000 min
Response: 15610281
Conc: 49.20 ng/ml



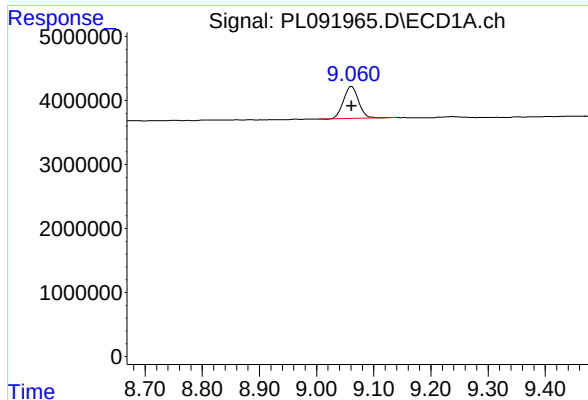
#27 Chlordane-5

R.T.: 6.876 min
Delta R.T.: 0.000 min
Response: 4967859
Conc: 56.96 ng/ml



#27 Chlordane-5

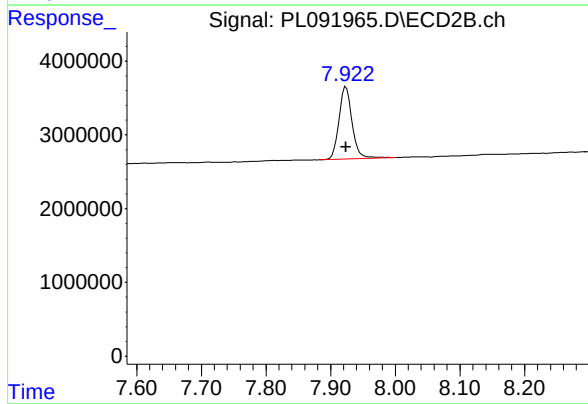
R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 5129055
Conc: 47.29 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min
Delta R.T.: 0.000 min
Response: 9288203
Conc: 5.74 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC050



#28 Decachlorobiphenyl

R.T.: 7.924 min
Delta R.T.: 0.000 min
Response: 13790570
Conc: 5.52 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 15:20
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL092324

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 16:42:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:41:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.544	2.782	106.0E6	152.5E6	48.293	49.786
2) SA Decachlor...	9.061	7.924	78307449	122.8E6	48.429	49.154
Target Compounds						
23) Chlordane-1	4.706	3.781	48433111	49506810	472.544	495.163
24) Chlordane-2	5.236	4.359	51223526	55177128	477.624	491.661
25) Chlordane-3	5.946	4.989	177.0E6	165.6E6	472.503	499.985
26) Chlordane-4	6.028	5.052	215.1E6	156.2E6	474.993	492.258
27) Chlordane-5	6.877	5.948	42165256	54383336	483.464	501.463

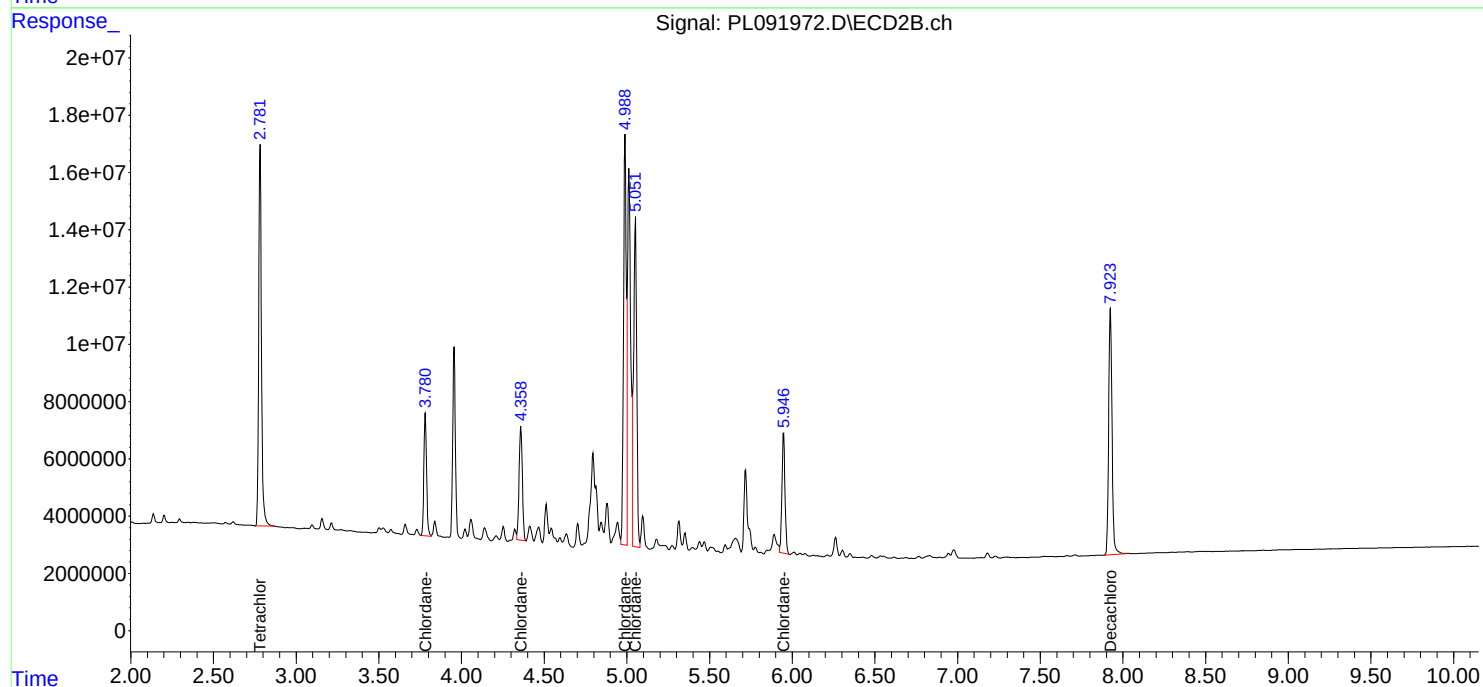
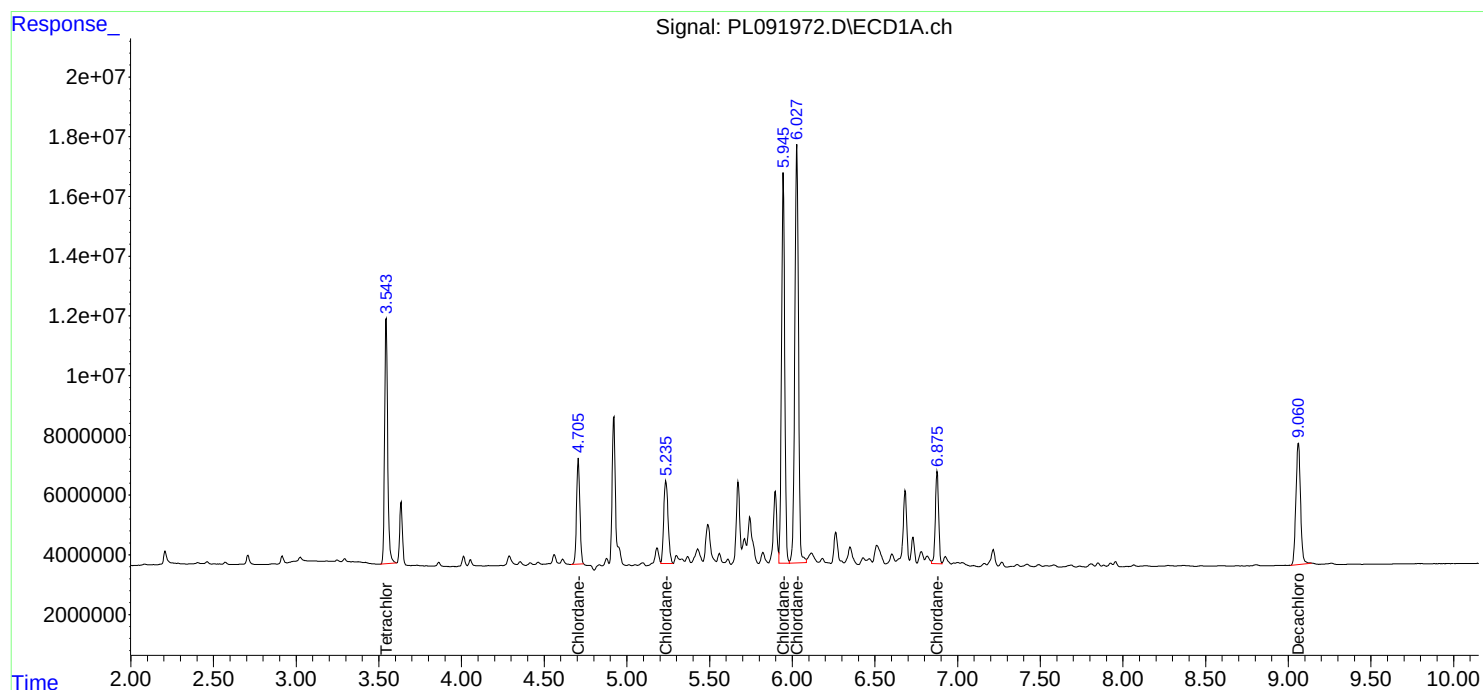
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

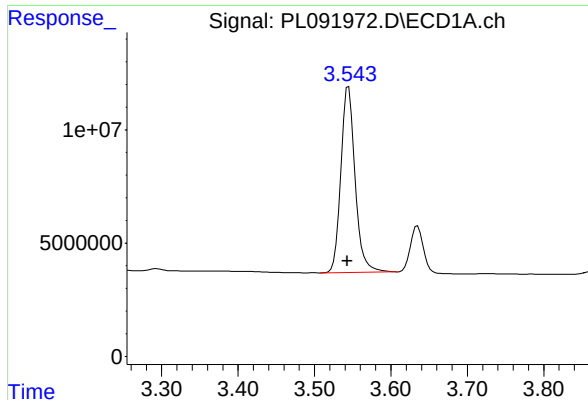
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 15:20
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL092324

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 16:42:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:41:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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

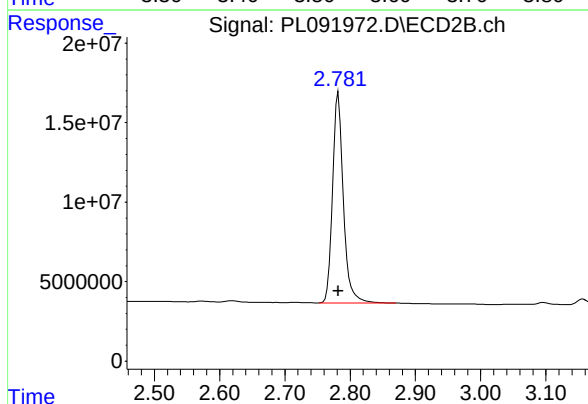




#1 Tetrachloro-m-xylene

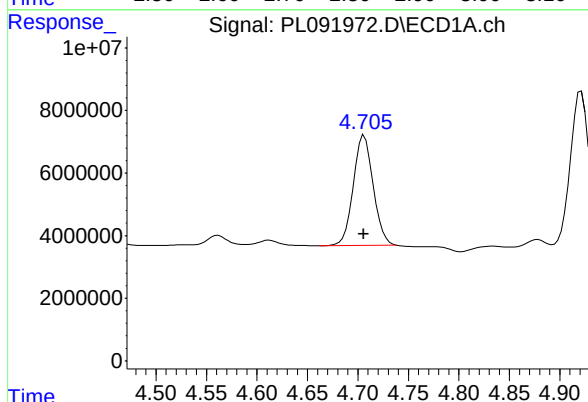
R.T.: 3.544 min
Delta R.T.: 0.001 min
Response: 106020958
Conc: 48.29 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL092324



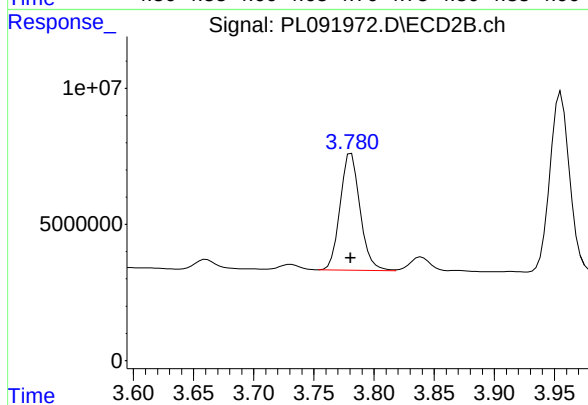
#1 Tetrachloro-m-xylene

R.T.: 2.782 min
Delta R.T.: 0.000 min
Response: 152495345
Conc: 49.79 ng/ml



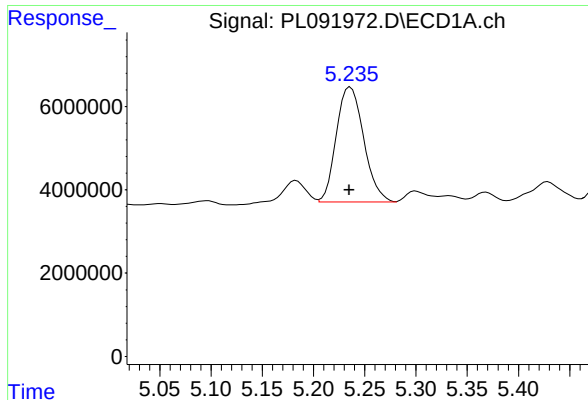
#23 Chlordane-1

R.T.: 4.706 min
Delta R.T.: 0.000 min
Response: 48433111
Conc: 472.54 ng/ml



#23 Chlordane-1

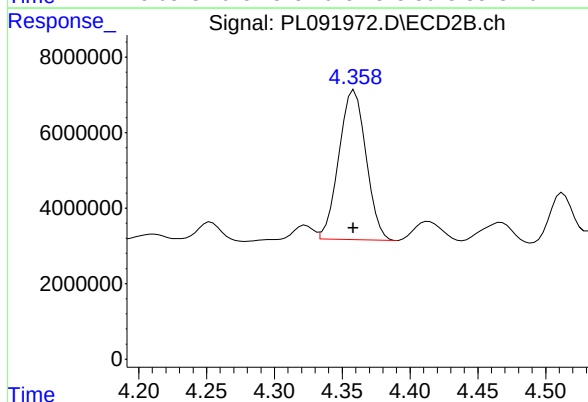
R.T.: 3.781 min
Delta R.T.: 0.000 min
Response: 49506810
Conc: 495.16 ng/ml



#24 Chlordane-2

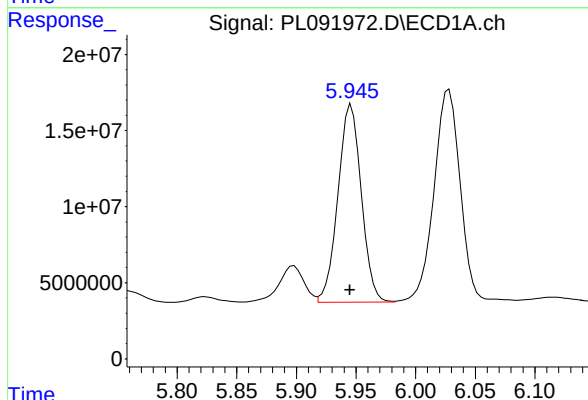
R.T.: 5.236 min
Delta R.T.: 0.000 min
Response: 51223526
Conc: 477.62 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL092324



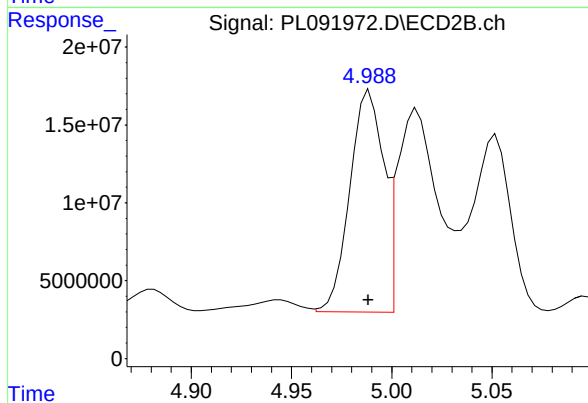
#24 Chlordane-2

R.T.: 4.359 min
Delta R.T.: 0.000 min
Response: 55177128
Conc: 491.66 ng/ml



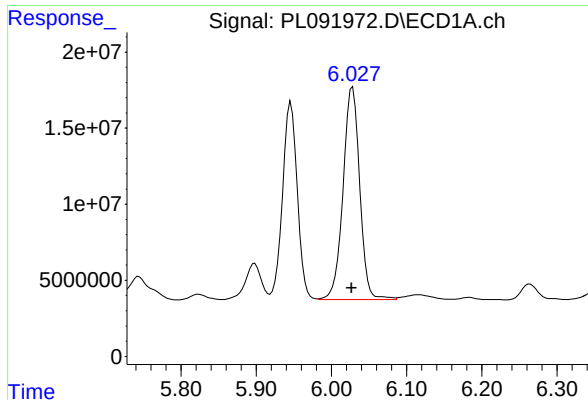
#25 Chlordane-3

R.T.: 5.946 min
Delta R.T.: 0.000 min
Response: 176988585
Conc: 472.50 ng/ml



#25 Chlordane-3

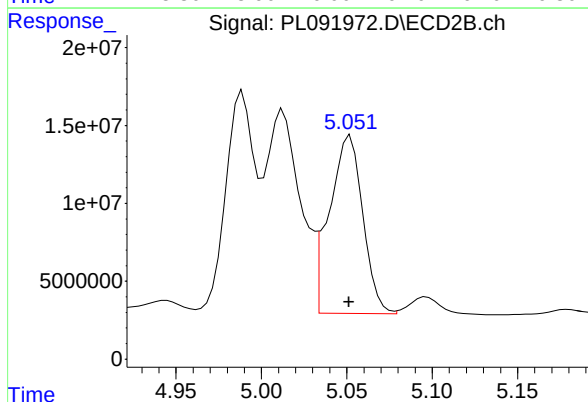
R.T.: 4.989 min
Delta R.T.: 0.000 min
Response: 165609265
Conc: 499.99 ng/ml



#26 Chlordane-4

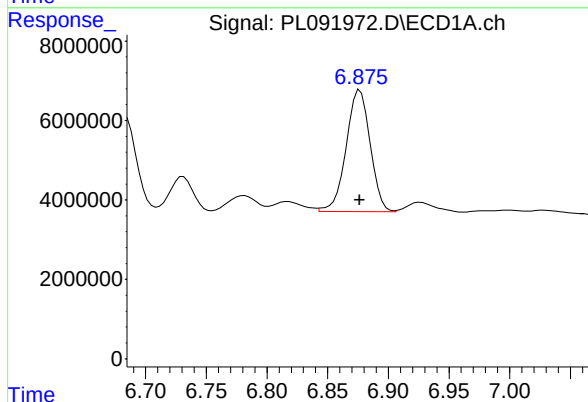
R.T.: 6.028 min
Delta R.T.: 0.001 min
Response: 215098949
Conc: 474.99 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL092324



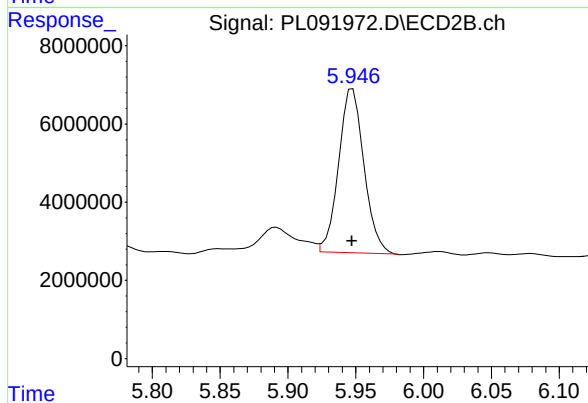
#26 Chlordane-4

R.T.: 5.052 min
Delta R.T.: 0.000 min
Response: 156184672
Conc: 492.26 ng/ml



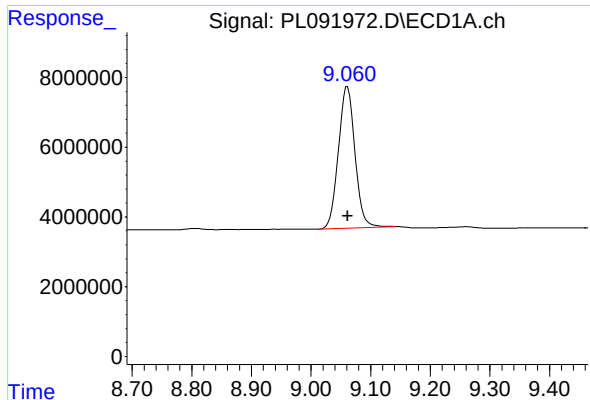
#27 Chlordane-5

R.T.: 6.877 min
Delta R.T.: 0.000 min
Response: 42165256
Conc: 483.46 ng/ml



#27 Chlordane-5

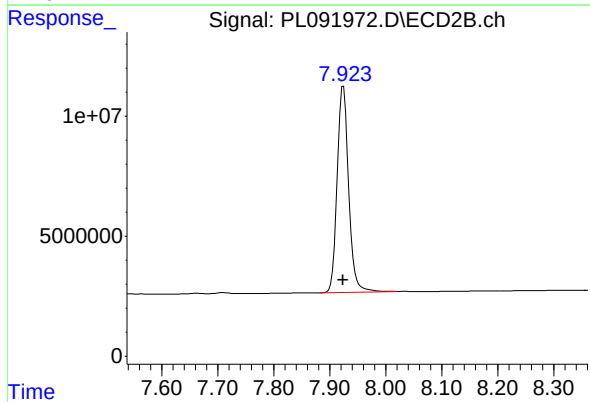
R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 54383336
Conc: 501.46 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min
Delta R.T.: 0.000 min
Response: 78307449
Conc: 48.43 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL092324



#28 Decachlorobiphenyl

R.T.: 7.924 min
Delta R.T.: 0.000 min
Response: 122848008
Conc: 49.15 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/10/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 11:56 Initial Calibration Time(s): 16:39 17:33

GC Column: ZB-MR2 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	5.95	5.85	6.05	0.00
Chlordane-4	(4)	6.03	6.03	5.93	6.13	0.00
Chlordane-5	(5)	6.88	6.88	6.78	6.98	0.00
Decachlorobiphenyl		9.06	9.06	8.96	9.16	0.00
Tetrachloro-m-xylene		3.55	3.54	3.44	3.64	-0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/10/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 11:56 Initial Calibration Time(s): 16:39 17:33

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Chlordane-1	(1)	3.78	3.78	3.68	3.88	0.00
Chlordane-2	(2)	4.36	4.36	4.26	4.46	0.00
Chlordane-3	(3)	4.99	4.99	4.89	5.09	0.00
Chlordane-4	(4)	5.05	5.05	4.95	5.15	0.00
Chlordane-5	(5)	5.95	5.95	5.85	6.05	0.00
Decachlorobiphenyl		7.93	7.93	7.83	8.03	0.00
Tetrachloro-m-xylene		2.78	2.78	2.68	2.88	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 09/09/2024 09/09/2024

Client Sample No.: CCAL01 Date Analyzed: 09/10/2024

Lab Sample No.: PCHLORCCC500 Data File : PL091607.D Time Analyzed: 11:56

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Chlordane-1	4.707	4.606	4.806	461.790	500.000	-7.6
Chlordane-2	5.238	5.136	5.336	474.810	500.000	-5.0
Chlordane-3	5.946	5.845	6.045	449.540	500.000	-10.1
Chlordane-4	6.030	5.927	6.127	473.290	500.000	-5.3
Chlordane-5	6.879	6.776	6.976	433.120	500.000	-13.4
Decachlorobiphenyl	9.061	8.960	9.160	40.970	50.000	-18.1
Tetrachloro-m-xylene	3.545	3.444	3.644	46.930	50.000	-6.1



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 09/09/2024 09/09/2024

Client Sample No.: CCAL01 Date Analyzed: 09/10/2024

Lab Sample No.: PCHLORCCC500 Data File : PL091607.D Time Analyzed: 11:56

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Chlordane-1	3.781	3.682	3.882	478.360	500.000	-4.3
Chlordane-2	4.359	4.260	4.460	480.710	500.000	-3.9
Chlordane-3	4.990	4.890	5.090	470.290	500.000	-5.9
Chlordane-4	5.053	4.953	5.153	496.270	500.000	-0.7
Chlordane-5	5.949	5.848	6.048	497.570	500.000	-0.5
Decachlorobiphenyl	7.925	7.825	8.025	46.620	50.000	-6.8
Tetrachloro-m-xylene	2.781	2.683	2.883	59.050	50.000	18.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091024\
 Data File : PL091607.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Sep 2024 11:56
 Operator : AR\AJ
 Sample : PCHLORCCC500
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PCHLORCCC500

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 09/11/2024
 Supervised By : Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 11 05:31:20 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
 Quant Title : GC Extractables
 QLast Update : Mon Sep 09 19:26:36 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.545	2.781	73150109	110.4E6	46.933	59.052 #
28) SA Decachlor...	9.061	7.925	49790829	86090870	40.969	46.623
Target Compounds						
23) Chlordane-1	4.707	3.781	28758240	33277095	461.786	478.361
24) Chlordane-2	5.238	4.359	36504744	36029897	474.814	480.709
25) Chlordane-3	5.946	4.990	115.5E6	109.6E6	449.544m	470.286
26) Chlordane-4	6.030	5.053	140.2E6	103.5E6	473.294	496.275
27) Chlordane-5	6.879	5.949	24721500	35655954	433.124	497.567

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091024\
Data File : PL091607.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 11:56
Operator : AR\AJ
Sample : PCHLORCCC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PCHLORCCC500

Manual Integrations

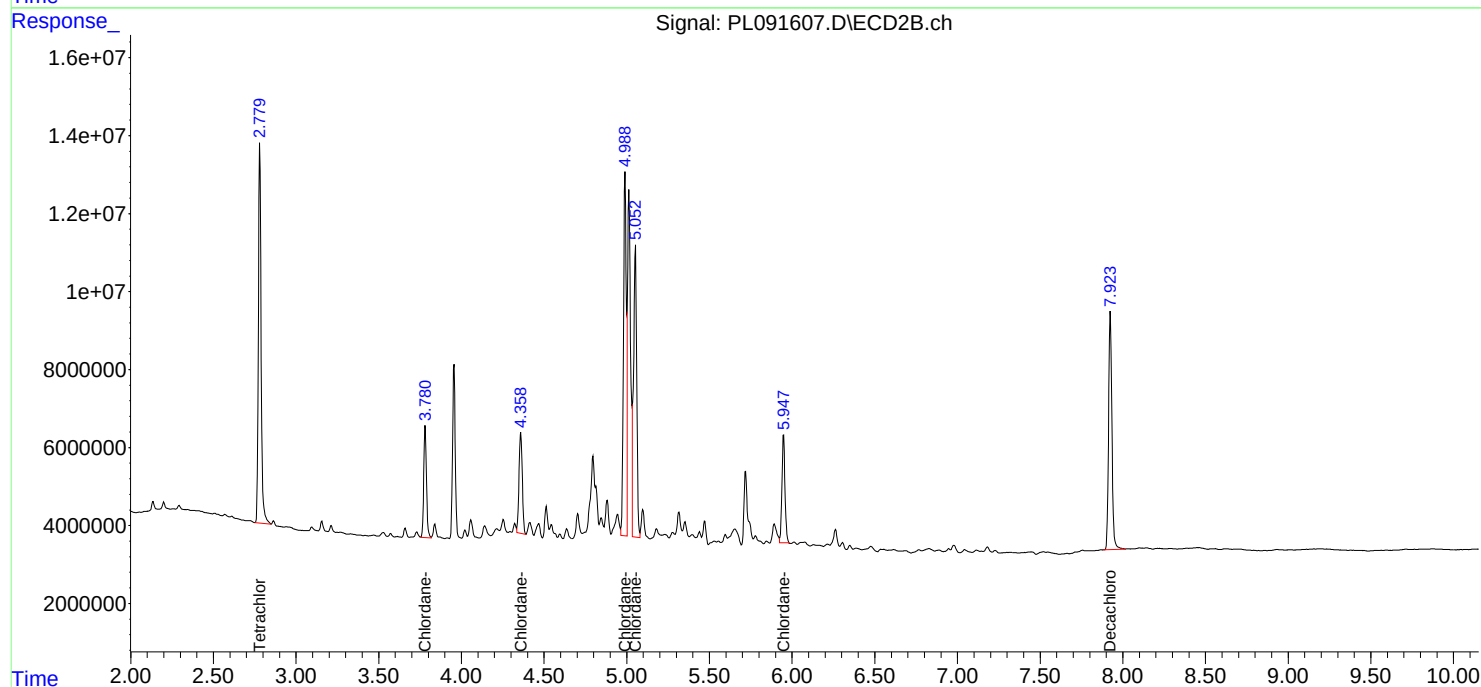
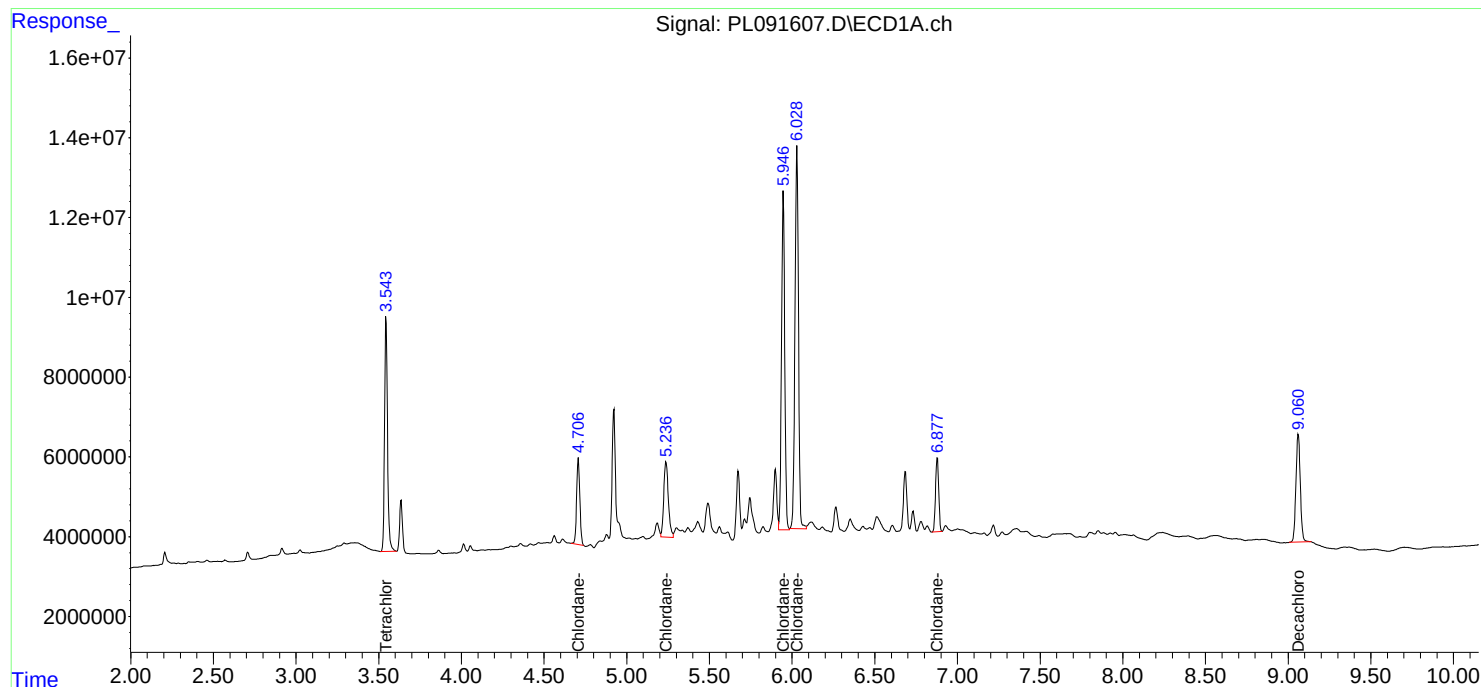
APPROVED

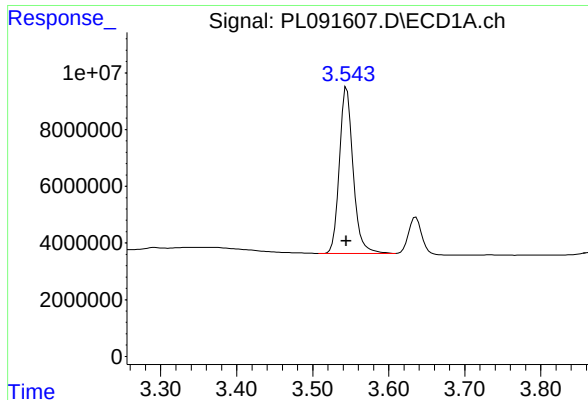
Reviewed By :Abdul Mirza 09/11/2024

Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 05:31:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#1 Tetrachloro-m-xylene

R.T.: 3.545 min
Delta R.T.: 0.000 min
Response: 73150109
Conc: 46.93 ng/ml

Instrument :

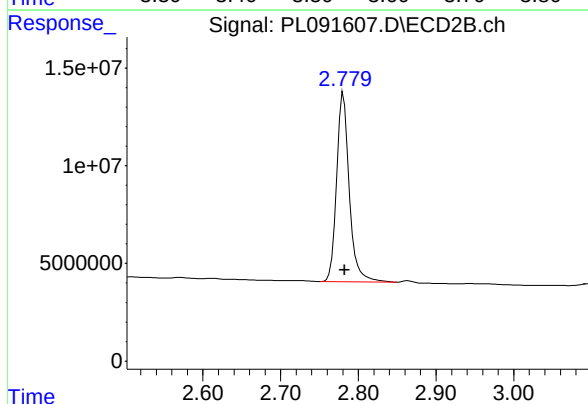
ECD_L

ClientSampleId :

PCHLORCCC500

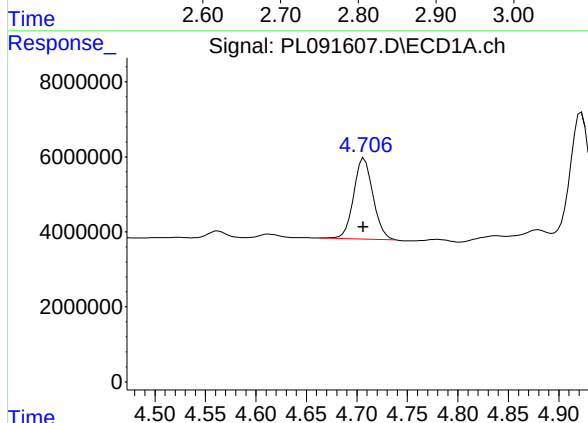
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



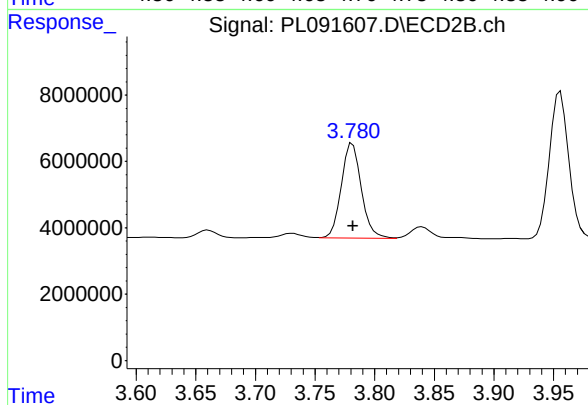
#1 Tetrachloro-m-xylene

R.T.: 2.781 min
Delta R.T.: -0.002 min
Response: 110445433
Conc: 59.05 ng/ml



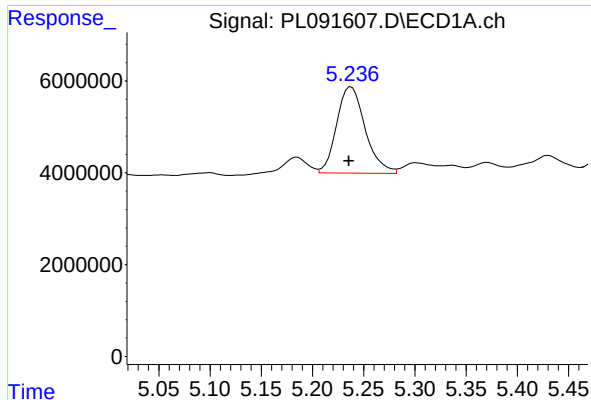
#23 Chlordane-1

R.T.: 4.707 min
Delta R.T.: 0.001 min
Response: 28758240
Conc: 461.79 ng/ml



#23 Chlordane-1

R.T.: 3.781 min
Delta R.T.: 0.000 min
Response: 33277095
Conc: 478.36 ng/ml



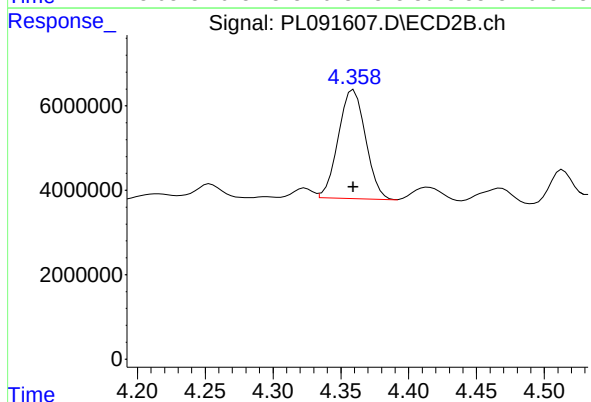
#24 Chlordane-2

R.T.: 5.238 min
Delta R.T.: 0.002 min
Response: 36504744
Conc: 474.81 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

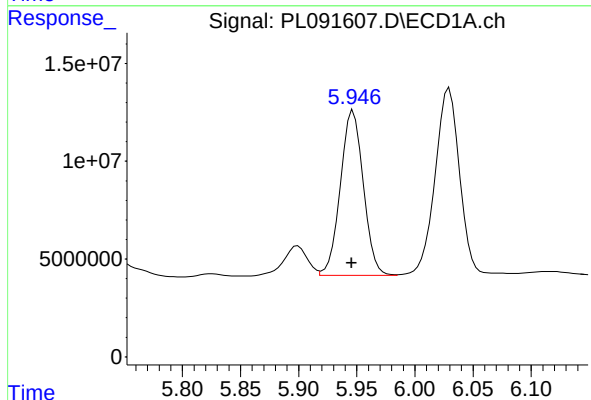
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



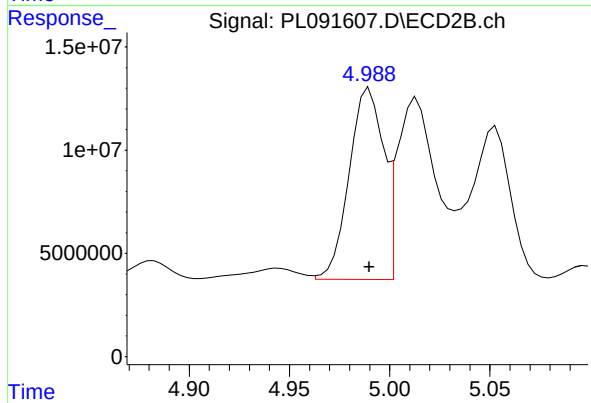
#24 Chlordane-2

R.T.: 4.359 min
Delta R.T.: 0.000 min
Response: 36029897
Conc: 480.71 ng/ml



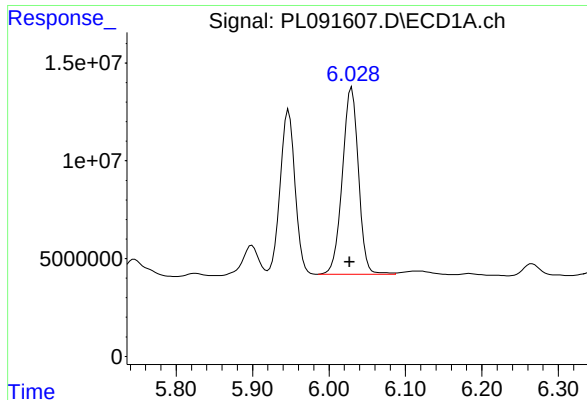
#25 Chlordane-3

R.T.: 5.946 min
Delta R.T.: 0.000 min
Response: 115487573
Conc: 449.54 ng/ml m



#25 Chlordane-3

R.T.: 4.990 min
Delta R.T.: 0.000 min
Response: 109642957
Conc: 470.29 ng/ml



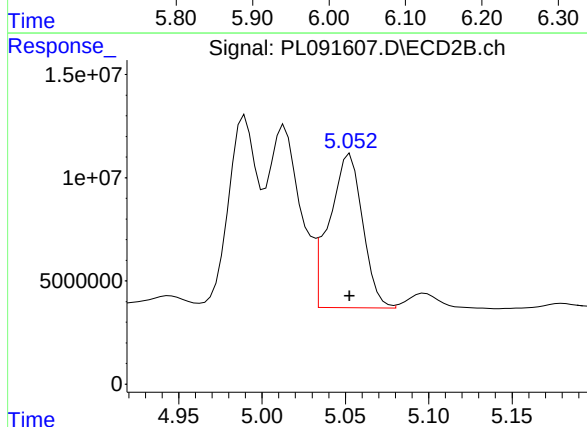
#26 Chlordane-4

R.T.: 6.030 min
Delta R.T.: 0.002 min
Response: 140169092
Conc: 473.29 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

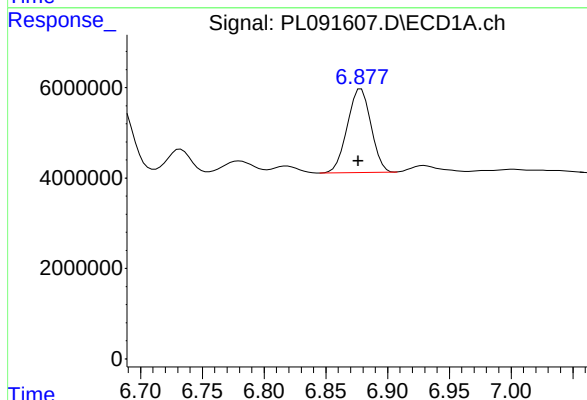
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



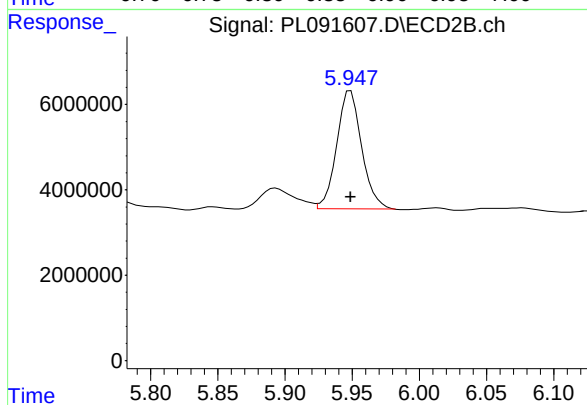
#26 Chlordane-4

R.T.: 5.053 min
Delta R.T.: 0.000 min
Response: 103489607
Conc: 496.27 ng/ml



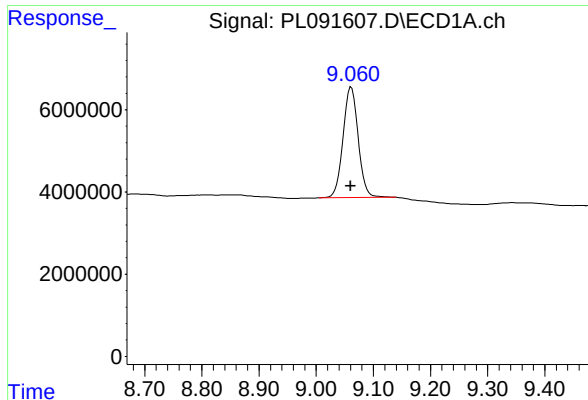
#27 Chlordane-5

R.T.: 6.879 min
Delta R.T.: 0.002 min
Response: 24721500
Conc: 433.12 ng/ml



#27 Chlordane-5

R.T.: 5.949 min
Delta R.T.: 0.000 min
Response: 35655954
Conc: 497.57 ng/ml



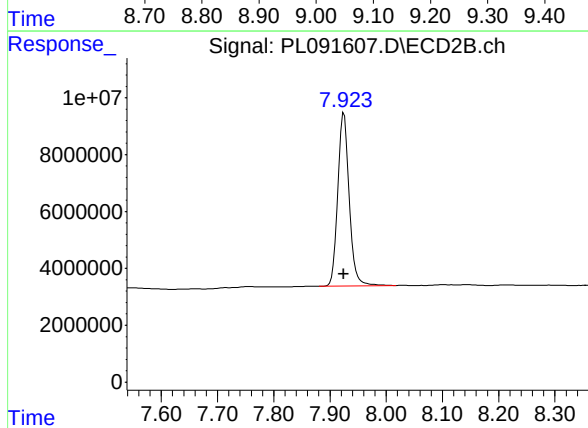
#28 Decachlorobiphenyl

R.T.: 9.061 min
Delta R.T.: 0.000 min
Response: 49790829
Conc: 40.97 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



#28 Decachlorobiphenyl

R.T.: 7.925 min
Delta R.T.: 0.000 min
Response: 86090870
Conc: 46.62 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/10/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 17:24 Initial Calibration Time(s): 16:39 17:33

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Chlordane-1	(1)	4.70	4.71	4.61	4.81	0.01
Chlordane-2	(2)	5.23	5.24	5.14	5.34	0.01
Chlordane-3	(3)	5.94	5.95	5.85	6.05	0.01
Chlordane-4	(4)	6.03	6.03	5.93	6.13	0.00
Chlordane-5	(5)	6.87	6.88	6.78	6.98	0.01
Decachlorobiphenyl		9.06	9.06	8.96	9.16	0.00
Tetrachloro-m-xylene		3.54	3.54	3.44	3.64	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/10/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 17:24 Initial Calibration Time(s): 16:39 17:33

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Chlordane-1	(1)	3.78	3.78	3.68	3.88	0.00
Chlordane-2	(2)	4.36	4.36	4.26	4.46	0.00
Chlordane-3	(3)	4.99	4.99	4.89	5.09	0.00
Chlordane-4	(4)	5.05	5.05	4.95	5.15	0.00
Chlordane-5	(5)	5.95	5.95	5.85	6.05	0.00
Decachlorobiphenyl		7.92	7.93	7.83	8.03	0.01
Tetrachloro-m-xylene		2.78	2.78	2.68	2.88	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/09/2024 09/09/2024

Client Sample No.: CCAL02 **Date Analyzed:** 09/10/2024

Lab Sample No.: PCHLORCCC500 **Data File :** PL091625.D **Time Analyzed:** 17:24

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Chlordane-1	4.703	4.606	4.806	523.440	500.000	4.7
Chlordane-2	5.233	5.136	5.336	496.640	500.000	-0.7
Chlordane-3	5.941	5.845	6.045	489.490	500.000	-2.1
Chlordane-4	6.025	5.927	6.127	508.950	500.000	1.8
Chlordane-5	6.873	6.776	6.976	515.610	500.000	3.1
Decachlorobiphenyl	9.056	8.960	9.160	47.380	50.000	-5.2
Tetrachloro-m-xylene	3.542	3.444	3.644	48.960	50.000	-2.1



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/09/2024 09/09/2024

Client Sample No.: CCAL02 **Date Analyzed:** 09/10/2024

Lab Sample No.: PCHLORCCC500 **Data File :** PL091625.D **Time Analyzed:** 17:24

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Chlordane-1	3.779	3.682	3.882	485.910	500.000	-2.8
Chlordane-2	4.356	4.260	4.460	492.910	500.000	-1.4
Chlordane-3	4.986	4.890	5.090	482.230	500.000	-3.6
Chlordane-4	5.049	4.953	5.153	506.570	500.000	1.3
Chlordane-5	5.945	5.848	6.048	513.360	500.000	2.7
Decachlorobiphenyl	7.921	7.825	8.025	48.350	50.000	-3.3
Tetrachloro-m-xylene	2.779	2.683	2.883	59.110	50.000	18.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091024\
 Data File : PL091625.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Sep 2024 17:24
 Operator : AR\AJ
 Sample : PCHLORCCC500
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PCHLORCCC500

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 09/11/2024

Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 11 05:37:33 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
 Quant Title : GC Extractables
 QLast Update : Mon Sep 09 19:26:36 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.542	2.779	76315084	110.6E6	48.964	59.110
28) SA Decachlor...	9.056	7.921	57585001	89275269	47.382	48.347
Target Compounds						
23) Chlordane-1	4.703	3.779	32597797	33802508	523.439	485.914
24) Chlordane-2	5.233	4.356	38183017	36944020	496.643	492.905
25) Chlordane-3	5.941	4.986	125.8E6	112.4E6	489.495m	482.231
26) Chlordane-4	6.025	5.049	150.7E6	105.6E6	508.947	506.566
27) Chlordane-5	6.873	5.945	29429772	36787959	515.613	513.364

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091024\
Data File : PL091625.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 17:24
Operator : AR\AJ
Sample : PCHLORCCC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PCHLORCCC500

Manual Integrations

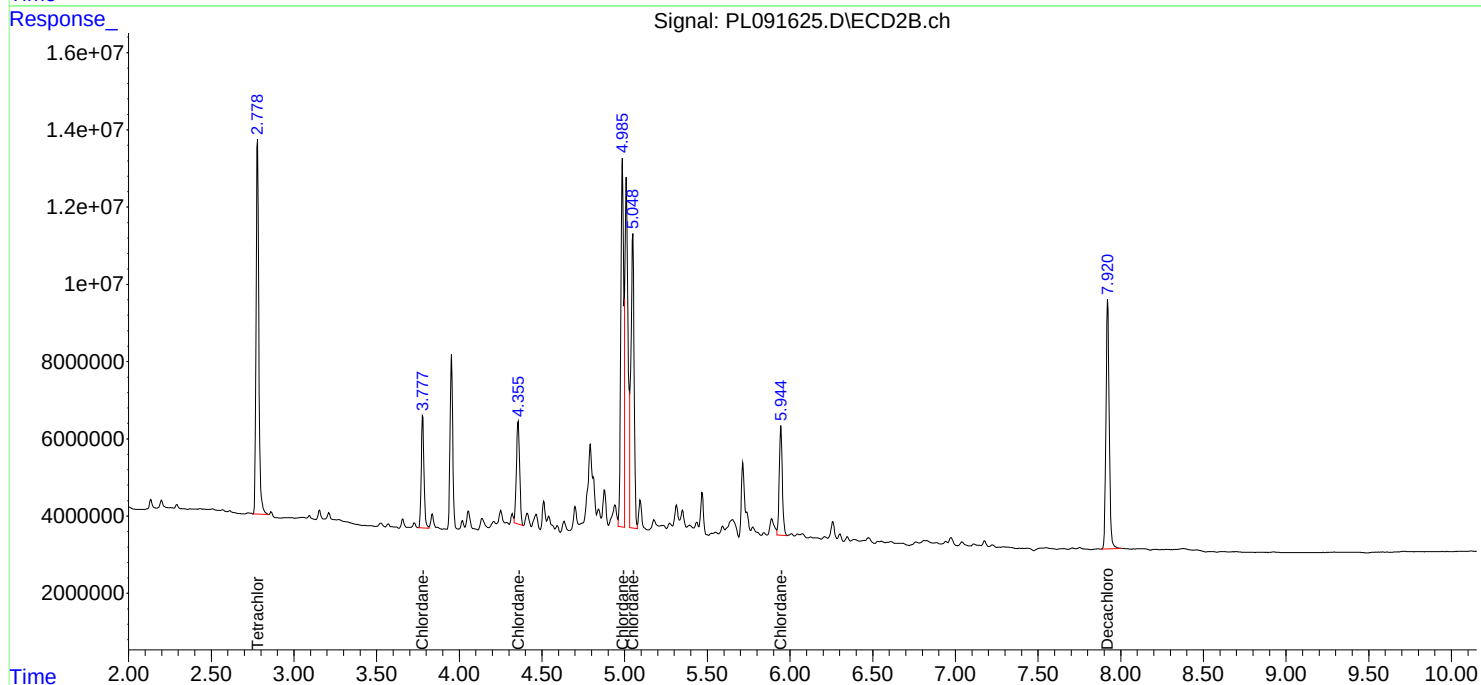
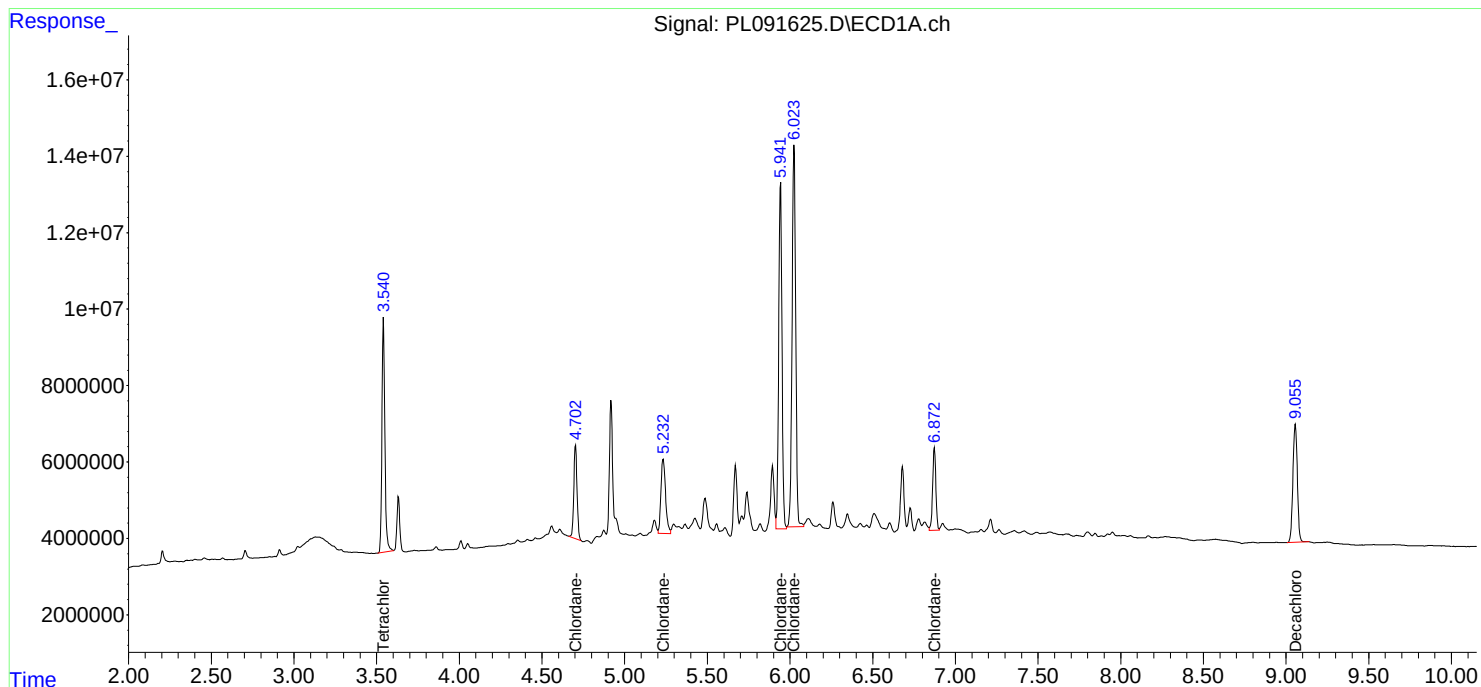
APPROVED

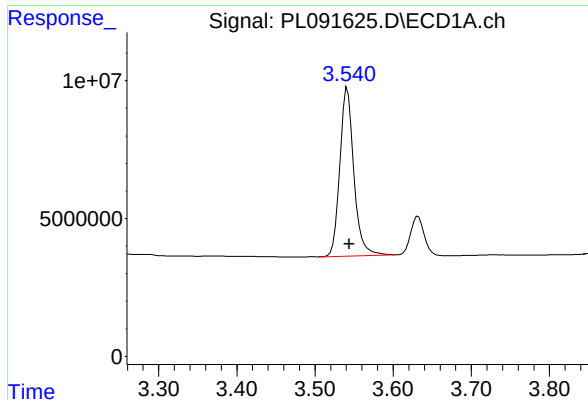
Reviewed By :Abdul Mirza 09/11/2024

Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 05:37:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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





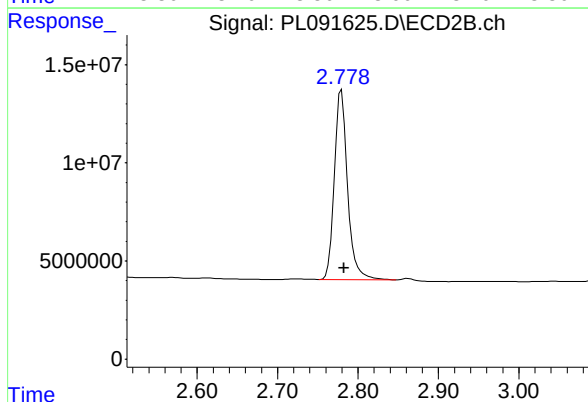
#1 Tetrachloro-m-xylene

R.T.: 3.542 min
Delta R.T.: -0.002 min
Response: 76315084
Conc: 48.96 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

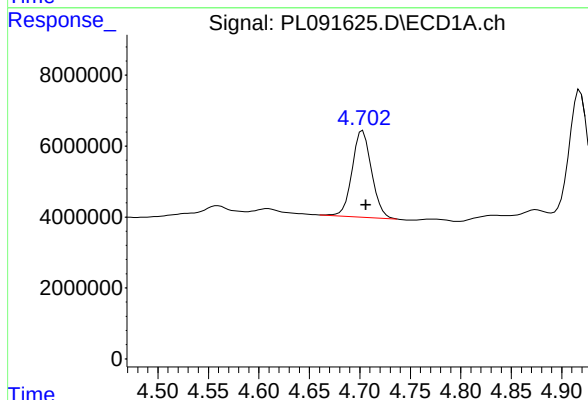
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



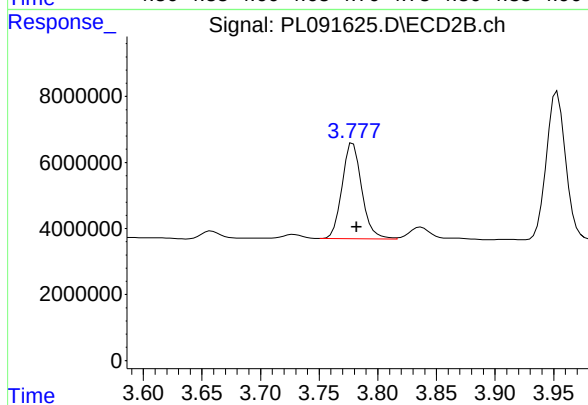
#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: -0.003 min
Response: 110553056
Conc: 59.11 ng/ml



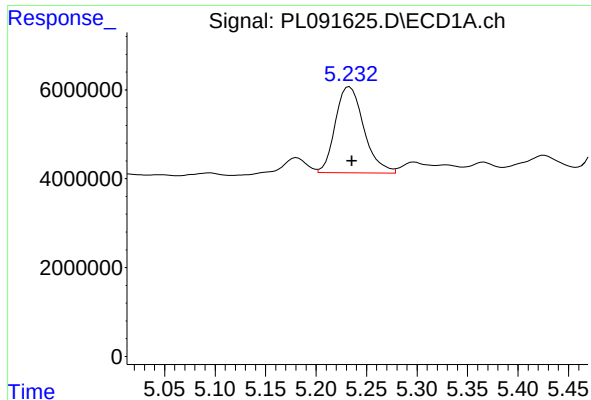
#23 Chlordane-1

R.T.: 4.703 min
Delta R.T.: -0.003 min
Response: 32597797
Conc: 523.44 ng/ml



#23 Chlordane-1

R.T.: 3.779 min
Delta R.T.: -0.003 min
Response: 33802508
Conc: 485.91 ng/ml



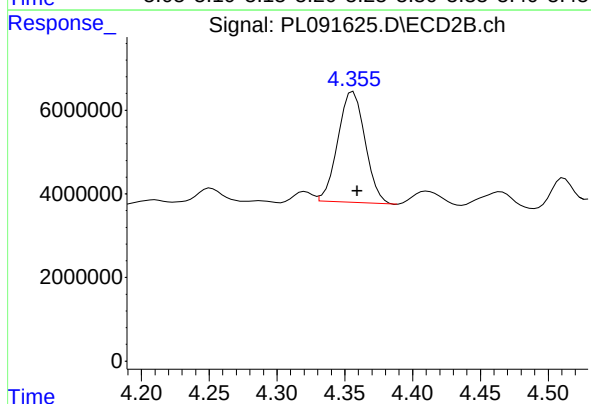
#24 Chlordane-2

R.T.: 5.233 min
Delta R.T.: -0.002 min
Response: 38183017
Conc: 496.64 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

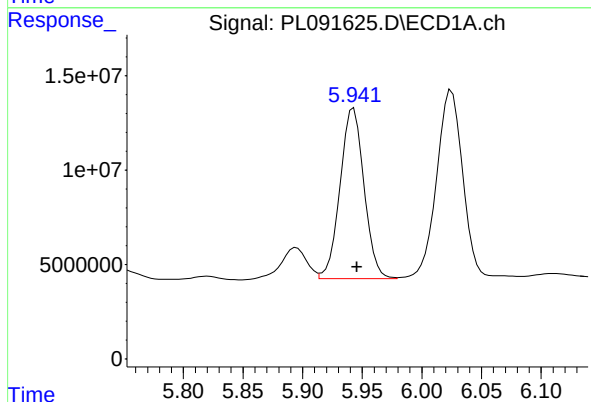
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



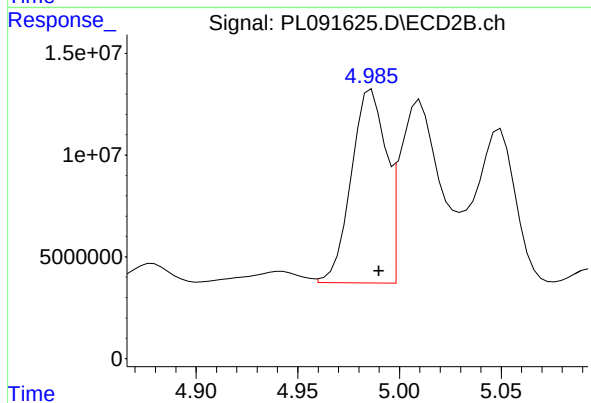
#24 Chlordane-2

R.T.: 4.356 min
Delta R.T.: -0.003 min
Response: 36944020
Conc: 492.91 ng/ml



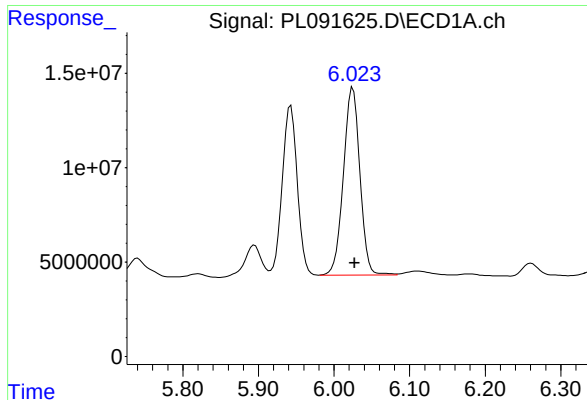
#25 Chlordane-3

R.T.: 5.941 min
Delta R.T.: -0.004 min
Response: 125750773
Conc: 489.49 ng/ml m



#25 Chlordane-3

R.T.: 4.986 min
Delta R.T.: -0.004 min
Response: 112427938
Conc: 482.23 ng/ml



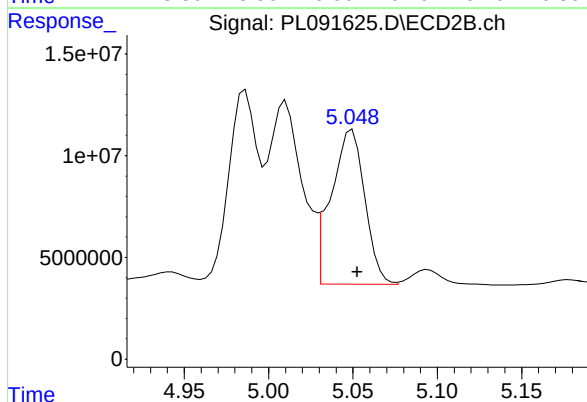
#26 Chlordane-4

R.T.: 6.025 min
Delta R.T.: -0.002 min
Response: 150728059
Conc: 508.95 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

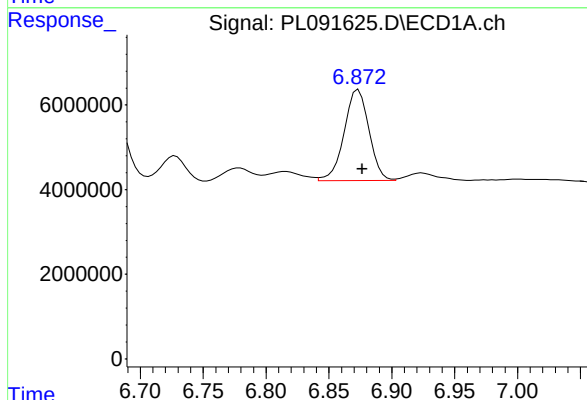
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



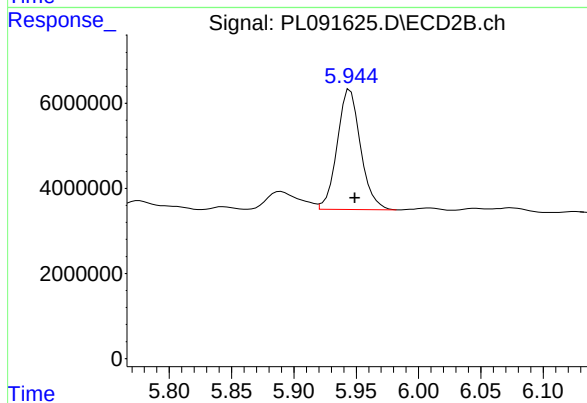
#26 Chlordane-4

R.T.: 5.049 min
Delta R.T.: -0.003 min
Response: 105635638
Conc: 506.57 ng/ml



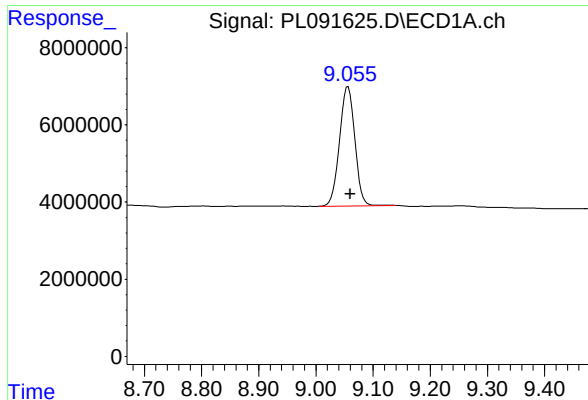
#27 Chlordane-5

R.T.: 6.873 min
Delta R.T.: -0.003 min
Response: 29429772
Conc: 515.61 ng/ml



#27 Chlordane-5

R.T.: 5.945 min
Delta R.T.: -0.004 min
Response: 36787959
Conc: 513.36 ng/ml



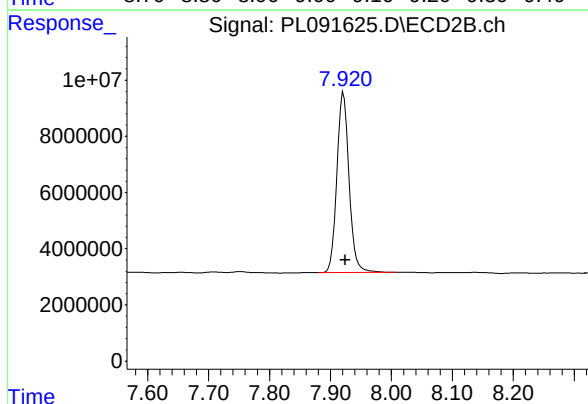
#28 Decachlorobiphenyl

R.T.: 9.056 min
Delta R.T.: -0.004 min
Response: 57585001
Conc: 47.38 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/11/2024
Supervised By :Ankita Jodhani 09/11/2024



#28 Decachlorobiphenyl

R.T.: 7.921 min
Delta R.T.: -0.003 min
Response: 89275269
Conc: 48.35 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/17/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 12:21 Initial Calibration Time(s): 16:39 17:33

GC Column: ZB-MR2 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	5.95	5.85	6.05	0.00
Chlordane-4	(4)	6.03	6.03	5.93	6.13	0.00
Chlordane-5	(5)	6.88	6.88	6.78	6.98	0.00
Decachlorobiphenyl		9.06	9.06	8.96	9.16	0.00
Tetrachloro-m-xylene		3.55	3.54	3.44	3.64	-0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/17/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 12:21 Initial Calibration Time(s): 16:39 17:33

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Chlordane-1 (1)	3.78	3.78	3.68	3.88	0.00
Chlordane-2 (2)	4.36	4.36	4.26	4.46	0.00
Chlordane-3 (3)	4.99	4.99	4.89	5.09	0.00
Chlordane-4 (4)	5.05	5.05	4.95	5.15	0.00
Chlordane-5 (5)	5.95	5.95	5.85	6.05	0.00
Decachlorobiphenyl	7.92	7.93	7.83	8.03	0.01
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 09/09/2024 09/09/2024Client Sample No.: CCAL03 Date Analyzed: 09/17/2024Lab Sample No.: PCHLORCCC500 Data File : PL091780.D Time Analyzed: 12:21

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Chlordane-1	4.708	4.606	4.806	492.060	500.000	-1.6
Chlordane-2	5.239	5.136	5.336	446.860	500.000	-10.6
Chlordane-3	5.947	5.845	6.045	460.150	500.000	-8.0
Chlordane-4	6.030	5.927	6.127	485.080	500.000	-3.0
Chlordane-5	6.879	6.776	6.976	494.360	500.000	-1.1
Decachlorobiphenyl	9.064	8.960	9.160	44.470	50.000	-11.1
Tetrachloro-m-xylene	3.547	3.444	3.644	45.460	50.000	-9.1



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/09/2024 09/09/2024

Client Sample No.: CCAL03 **Date Analyzed:** 09/17/2024

Lab Sample No.: PCHLORCCC500 **Data File :** PL091780.D **Time Analyzed:** 12:21

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Chlordane-1	3.780	3.682	3.882	442.640	500.000	-11.5
Chlordane-2	4.358	4.260	4.460	472.820	500.000	-5.4
Chlordane-3	4.989	4.890	5.090	451.210	500.000	-9.8
Chlordane-4	5.051	4.953	5.153	479.710	500.000	-4.1
Chlordane-5	5.947	5.848	6.048	511.550	500.000	2.3
Decachlorobiphenyl	7.924	7.825	8.025	47.220	50.000	-5.6
Tetrachloro-m-xylene	2.780	2.683	2.883	54.380	50.000	8.8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091724\
 Data File : PL091780.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Sep 2024 12:21
 Operator : AR\AJ
 Sample : PCHLORCCC500
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PCHLORCCC500

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/18/2024
 Supervised By :Ankita Jodhani 09/18/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 18 01:10:45 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
 Quant Title : GC Extractables
 QLast Update : Mon Sep 09 19:26:36 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.547	2.780	70851590	101.7E6	45.459	54.380
28)	SA Decachlor...	9.064	7.924	54044917	87186486	44.470	47.216
Target Compounds							
23)	Chlordane-1	4.708	3.780	30643592	30792241	492.060m	442.641
24)	Chlordane-2	5.239	4.358	34355489	35438375	446.859	472.817
25)	Chlordane-3	5.947	4.989	118.2E6	105.2E6	460.147m	451.206
26)	Chlordane-4	6.030	5.051	143.7E6	100.0E6	485.079	479.713
27)	Chlordane-5	6.879	5.947	28216682	36657637	494.360	511.545

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091724\
Data File : PL091780.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Sep 2024 12:21
Operator : AR\AJ
Sample : PCHLORCCC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PCHLORCCC500

Manual Integrations

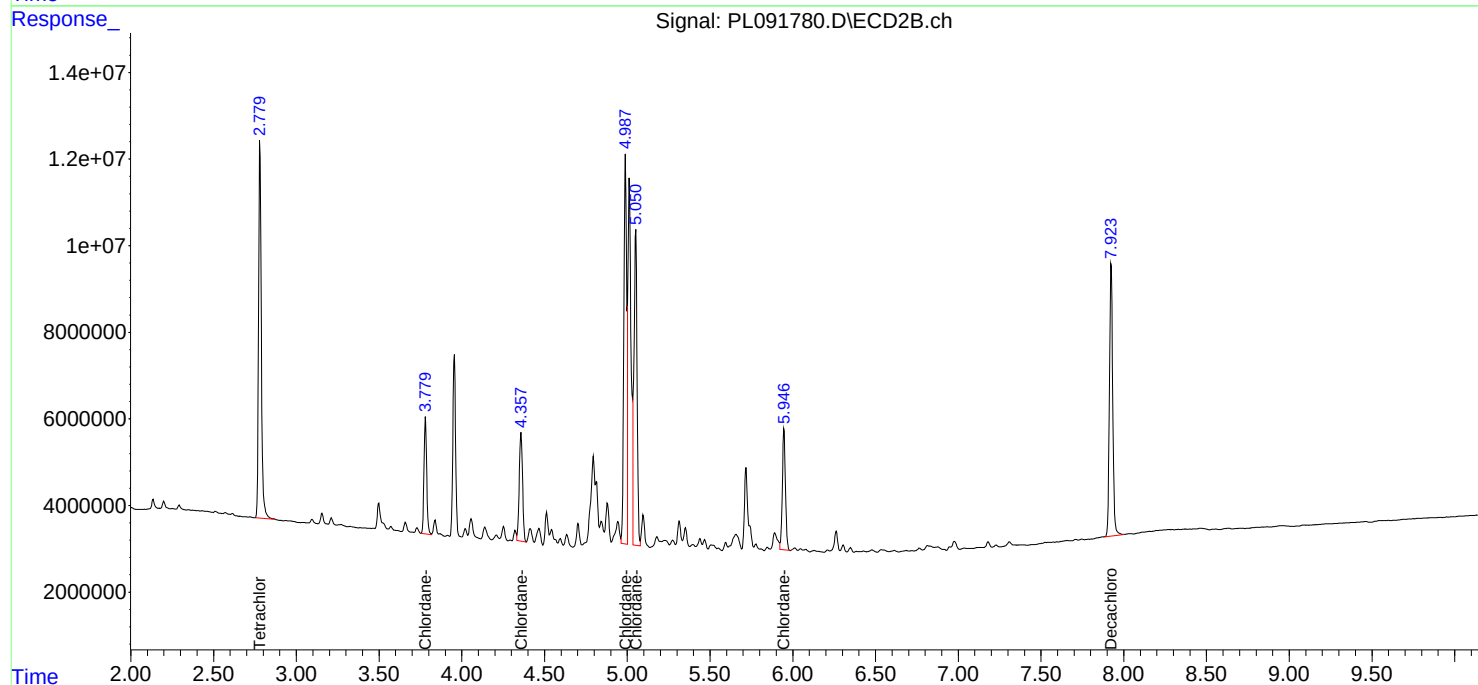
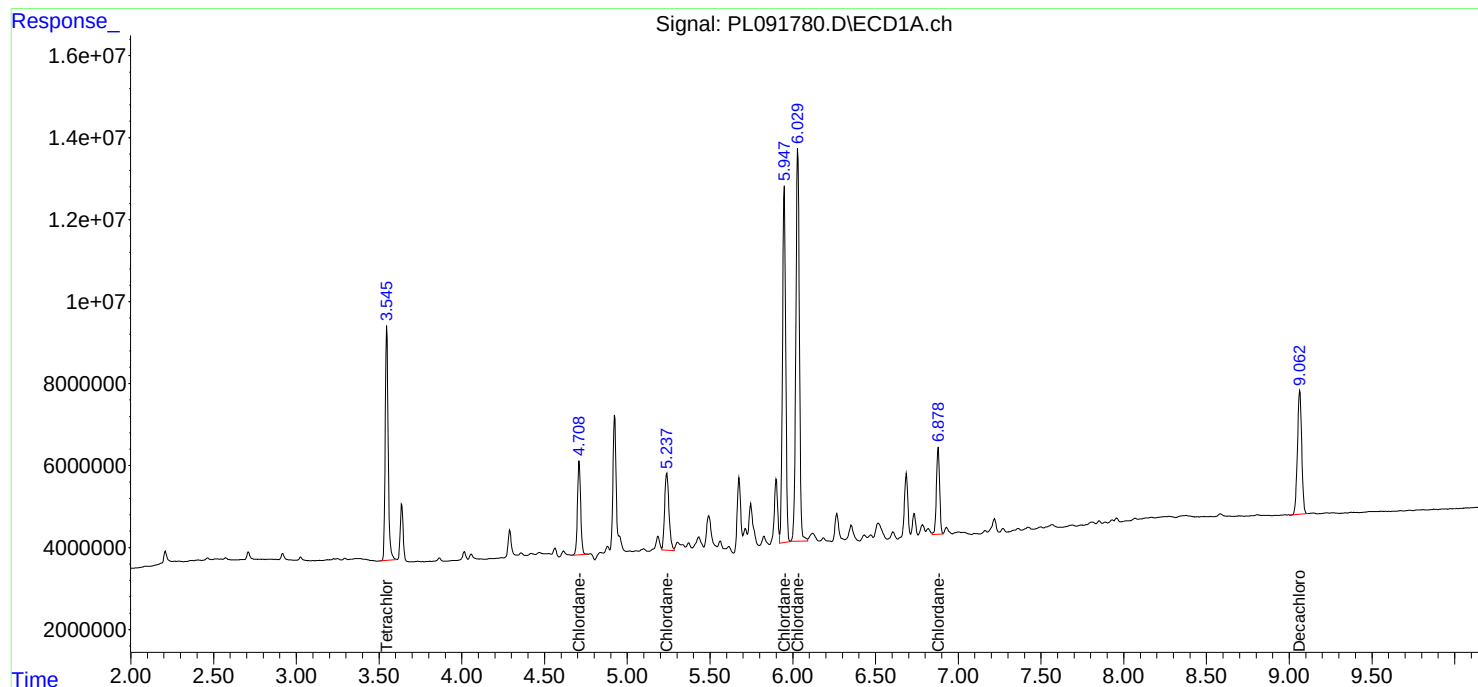
APPROVED

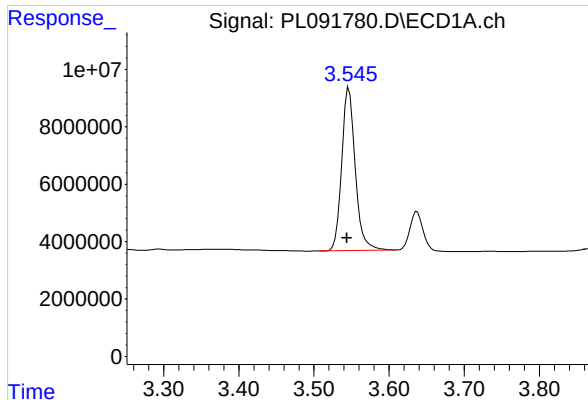
Reviewed By :Abdul Mirza 09/18/2024

Supervised By :Ankita Jodhani 09/18/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 18 01:10:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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





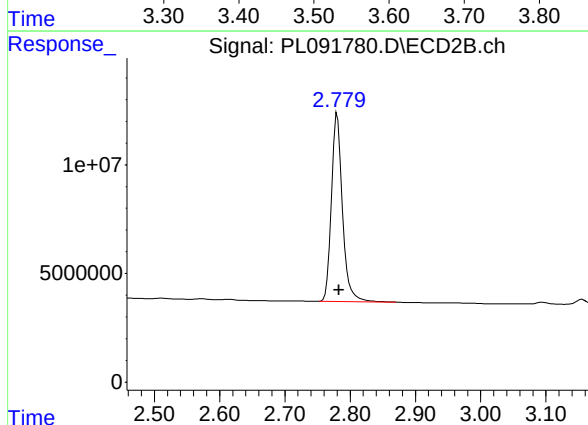
#1 Tetrachloro-m-xylene

R.T.: 3.547 min
Delta R.T.: 0.003 min
Response: 70851590
Conc: 45.46 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

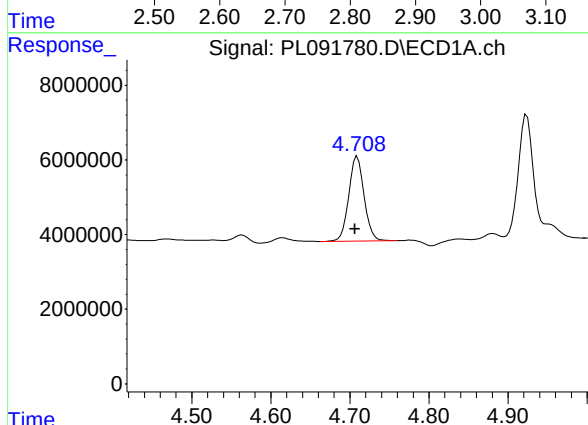
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/18/2024
Supervised By :Ankita Jodhani 09/18/2024



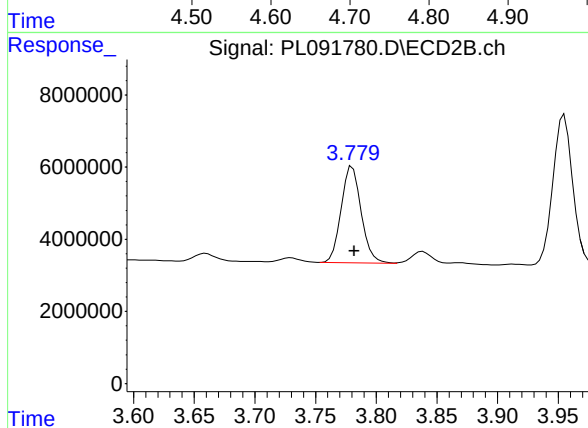
#1 Tetrachloro-m-xylene

R.T.: 2.780 min
Delta R.T.: -0.002 min
Response: 101707128
Conc: 54.38 ng/ml



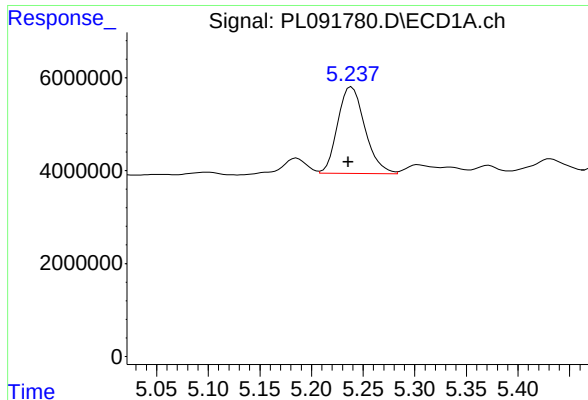
#23 Chlordane-1

R.T.: 4.708 min
Delta R.T.: 0.002 min
Response: 30643592
Conc: 492.06 ng/ml m



#23 Chlordane-1

R.T.: 3.780 min
Delta R.T.: -0.002 min
Response: 30792241
Conc: 442.64 ng/ml



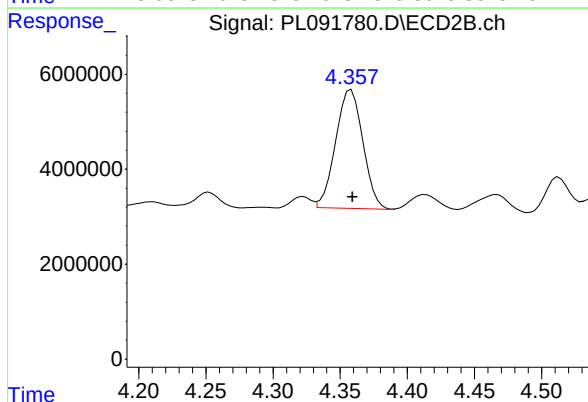
#24 Chlordane-2

R.T.: 5.239 min
Delta R.T.: 0.003 min
Response: 34355489
Conc: 446.86 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

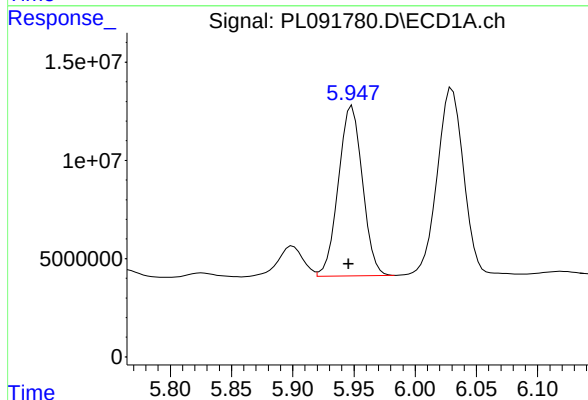
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/18/2024
Supervised By :Ankita Jodhani 09/18/2024



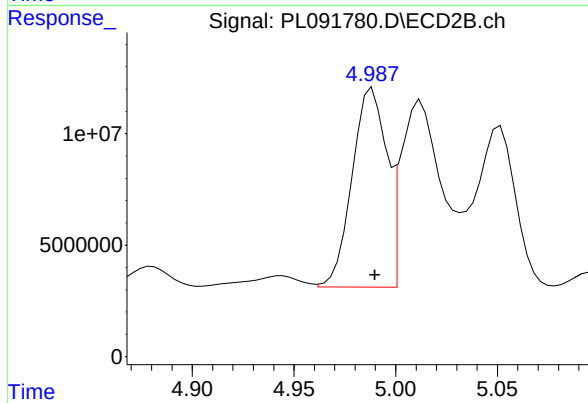
#24 Chlordane-2

R.T.: 4.358 min
Delta R.T.: -0.001 min
Response: 35438375
Conc: 472.82 ng/ml



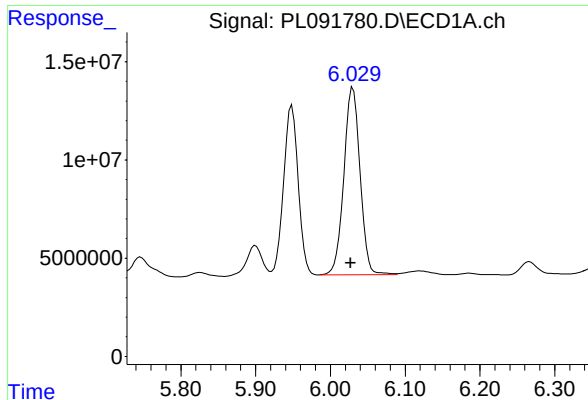
#25 Chlordane-3

R.T.: 5.947 min
Delta R.T.: 0.002 min
Response: 118211298
Conc: 460.15 ng/ml m



#25 Chlordane-3

R.T.: 4.989 min
Delta R.T.: -0.001 min
Response: 105194685
Conc: 451.21 ng/ml



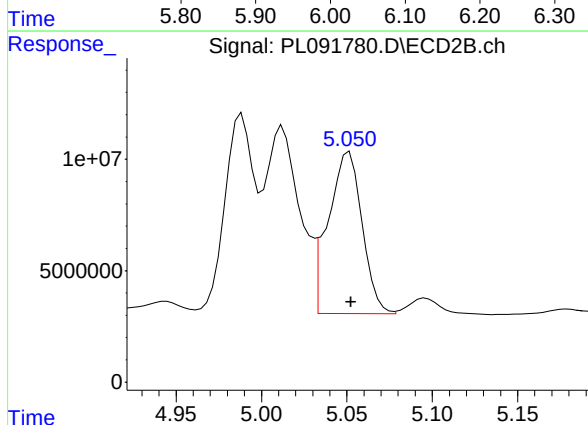
#26 Chlordane-4

R.T.: 6.030 min
Delta R.T.: 0.003 min
Response: 143659379
Conc: 485.08 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

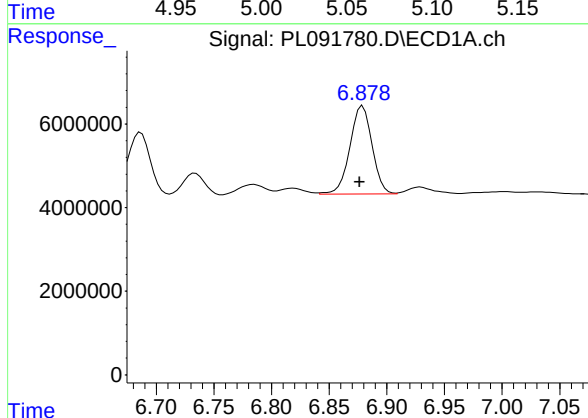
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/18/2024
Supervised By :Ankita Jodhani 09/18/2024



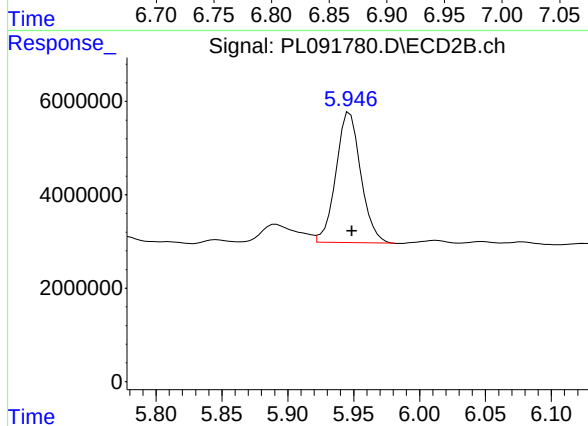
#26 Chlordane-4

R.T.: 5.051 min
Delta R.T.: -0.001 min
Response: 100035991
Conc: 479.71 ng/ml



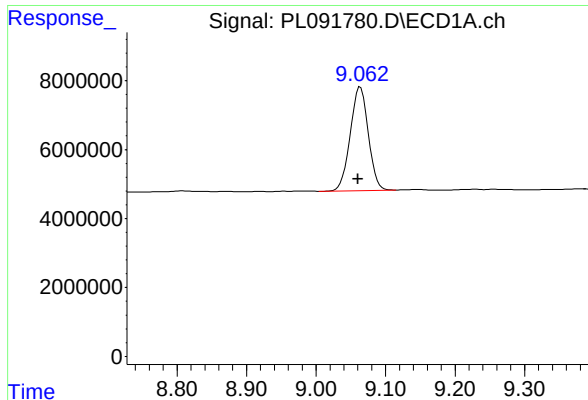
#27 Chlordane-5

R.T.: 6.879 min
Delta R.T.: 0.003 min
Response: 28216682
Conc: 494.36 ng/ml



#27 Chlordane-5

R.T.: 5.947 min
Delta R.T.: -0.002 min
Response: 36657637
Conc: 511.55 ng/ml



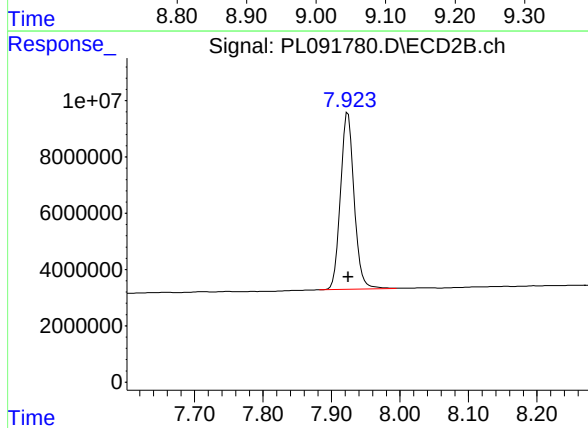
#28 Decachlorobiphenyl

R.T.: 9.064 min
Delta R.T.: 0.003 min
Response: 54044917
Conc: 44.47 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/18/2024
Supervised By :Ankita Jodhani 09/18/2024



#28 Decachlorobiphenyl

R.T.: 7.924 min
Delta R.T.: 0.000 min
Response: 87186486
Conc: 47.22 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Continuing Calib Date: 09/17/2024 **Initial Calibration Date(s):** 09/09/2024 09/09/2024

Continuing Calib Time: 15:37 **Initial Calibration Time(s):** 16:39 17:33

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Chlordane-1	(1)	4.70	4.71	4.61	4.81	0.01
Chlordane-2	(2)	5.23	5.24	5.14	5.34	0.01
Chlordane-3	(3)	5.94	5.95	5.85	6.05	0.01
Chlordane-4	(4)	6.03	6.03	5.93	6.13	0.00
Chlordane-5	(5)	6.88	6.88	6.78	6.98	0.00
Decachlorobiphenyl		9.06	9.06	8.96	9.16	0.00
Tetrachloro-m-xylene		3.54	3.54	3.44	3.64	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

Continuing Calib Date: 09/17/2024 **Initial Calibration Date(s):** 09/09/2024 09/09/2024

Continuing Calib Time: 15:37 **Initial Calibration Time(s):** 16:39 17:33

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Chlordane-1 (1)	3.78	3.78	3.68	3.88	0.00
Chlordane-2 (2)	4.36	4.36	4.26	4.46	0.00
Chlordane-3 (3)	4.99	4.99	4.89	5.09	0.00
Chlordane-4 (4)	5.05	5.05	4.95	5.15	0.00
Chlordane-5 (5)	5.95	5.95	5.85	6.05	0.00
Decachlorobiphenyl	7.92	7.93	7.83	8.03	0.01
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/09/2024 09/09/2024

Client Sample No.: CCAL04 **Date Analyzed:** 09/17/2024

Lab Sample No.: PCHLORCCC500 **Data File :** PL091786.D **Time Analyzed:** 15:37

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Chlordane-1	4.704	4.606	4.806	510.730	500.000	2.1
Chlordane-2	5.234	5.136	5.336	455.150	500.000	-9.0
Chlordane-3	5.942	5.845	6.045	474.700	500.000	-5.1
Chlordane-4	6.025	5.927	6.127	502.430	500.000	0.5
Chlordane-5	6.875	6.776	6.976	518.230	500.000	3.6
Decachlorobiphenyl	9.058	8.960	9.160	46.530	50.000	-6.9
Tetrachloro-m-xylene	3.542	3.444	3.644	48.180	50.000	-3.6



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 09/09/2024 09/09/2024

Client Sample No.: CCAL04 Date Analyzed: 09/17/2024

Lab Sample No.: PCHLORCCC500 Data File : PL091786.D Time Analyzed: 15:37

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Chlordane-1	3.779	3.682	3.882	468.620	500.000	-6.3
Chlordane-2	4.357	4.260	4.460	492.680	500.000	-1.5
Chlordane-3	4.987	4.890	5.090	465.600	500.000	-6.9
Chlordane-4	5.050	4.953	5.153	499.490	500.000	-0.1
Chlordane-5	5.946	5.848	6.048	524.960	500.000	5.0
Decachlorobiphenyl	7.922	7.825	8.025	48.720	50.000	-2.6
Tetrachloro-m-xylene	2.780	2.683	2.883	57.360	50.000	14.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091724\
 Data File : PL091786.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Sep 2024 15:37
 Operator : AR\AJ
 Sample : PCHLORCCC500
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PCHLORCCC500

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/18/2024
 Supervised By :Ankita Jodhani 09/18/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 18 01:12:20 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
 Quant Title : GC Extractables
 QLast Update : Mon Sep 09 19:26:36 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.542	2.780	75097392	107.3E6	48.183	57.362
28) SA Decachlor...	9.058	7.922	56550664	89958972	46.531	48.717
Target Compounds						
23) Chlordane-1	4.704	3.779	31806327	32599196	510.730	468.616
24) Chlordane-2	5.234	4.357	34992560	36927381	455.145	492.683
25) Chlordane-3	5.942	4.987	121.9E6	108.6E6	474.698m	465.599
26) Chlordane-4	6.025	5.050	148.8E6	104.2E6	502.430	499.488
27) Chlordane-5	6.875	5.946	29579162	37618869	518.230	524.959

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091724\
Data File : PL091786.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Sep 2024 15:37
Operator : AR\AJ
Sample : PCHLORCCC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PCHLORCCC500

Manual Integrations

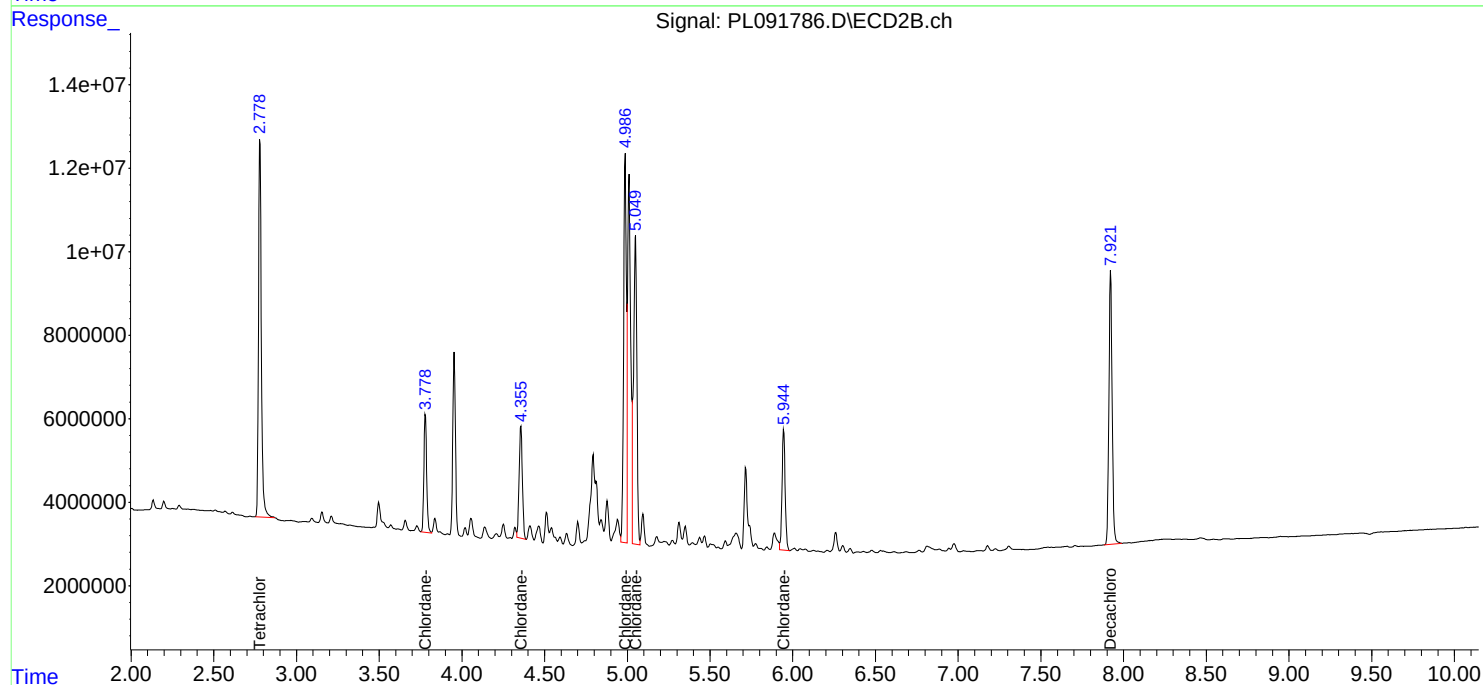
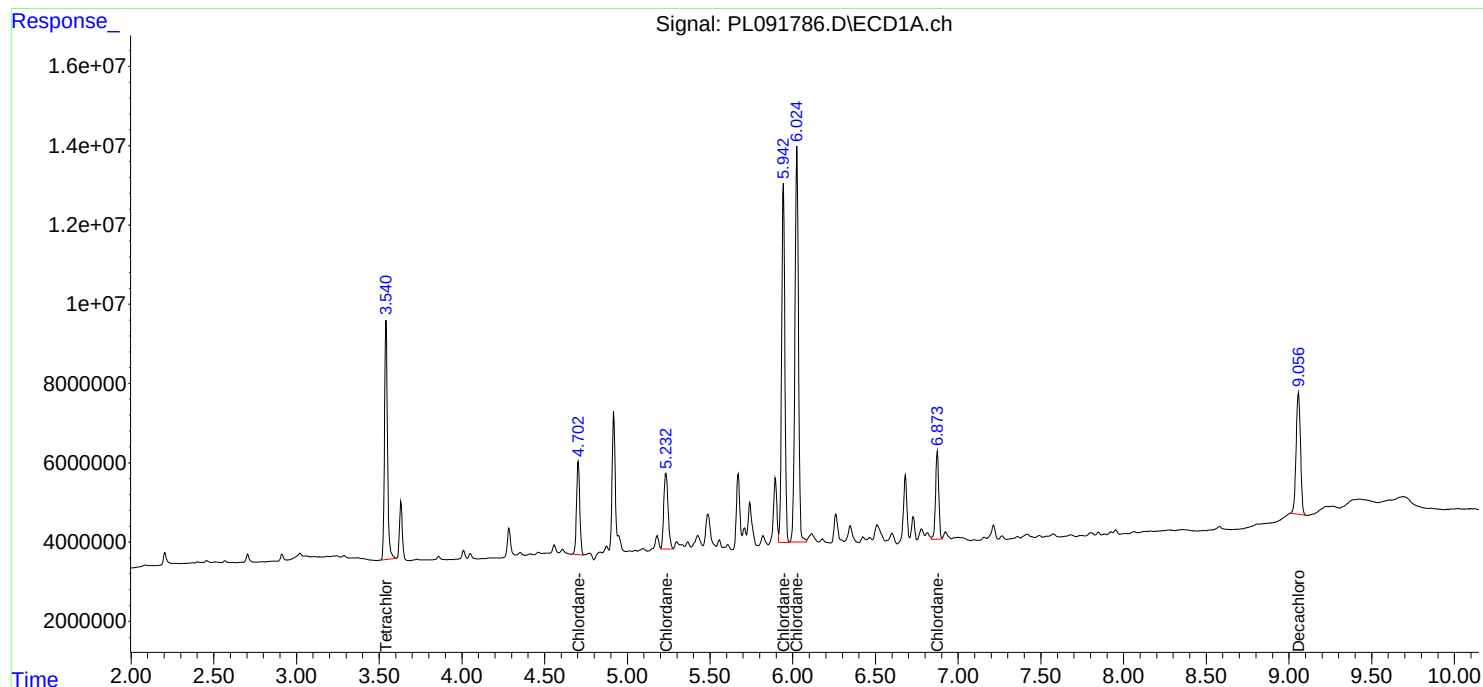
APPROVED

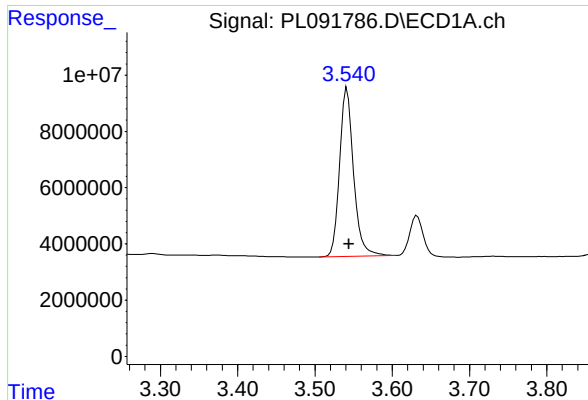
Reviewed By :Abdul Mirza 09/18/2024

Supervised By :Ankita Jodhani 09/18/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 18 01:12:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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





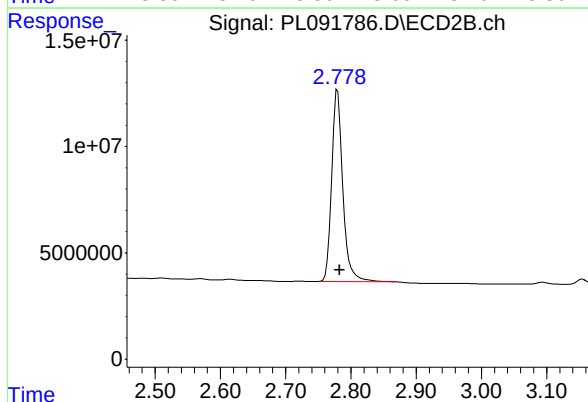
#1 Tetrachloro-m-xylene

R.T.: 3.542 min
Delta R.T.: -0.002 min
Response: 75097392
Conc: 48.18 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

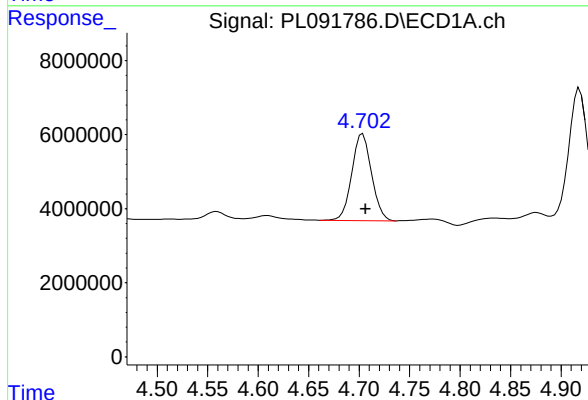
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/18/2024
Supervised By :Ankita Jodhani 09/18/2024



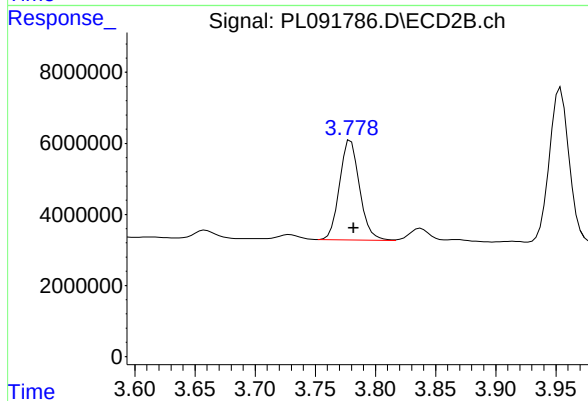
#1 Tetrachloro-m-xylene

R.T.: 2.780 min
Delta R.T.: -0.003 min
Response: 107284674
Conc: 57.36 ng/ml



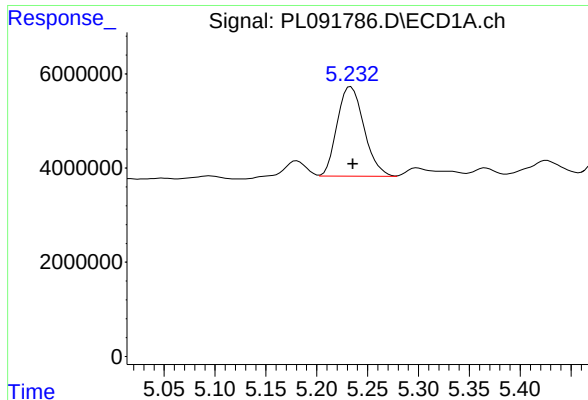
#23 Chlordane-1

R.T.: 4.704 min
Delta R.T.: -0.003 min
Response: 31806327
Conc: 510.73 ng/ml



#23 Chlordane-1

R.T.: 3.779 min
Delta R.T.: -0.003 min
Response: 32599196
Conc: 468.62 ng/ml



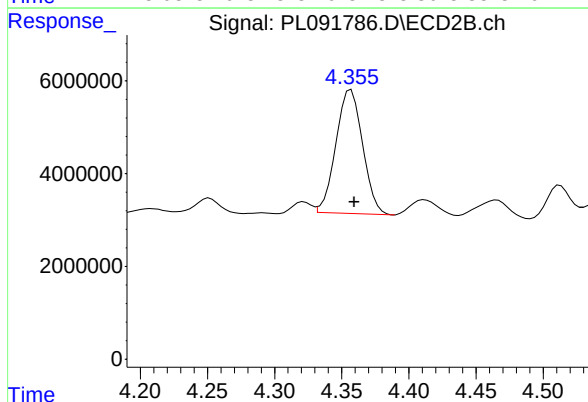
#24 Chlordane-2

R.T.: 5.234 min
Delta R.T.: -0.002 min
Response: 34992560
Conc: 455.15 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

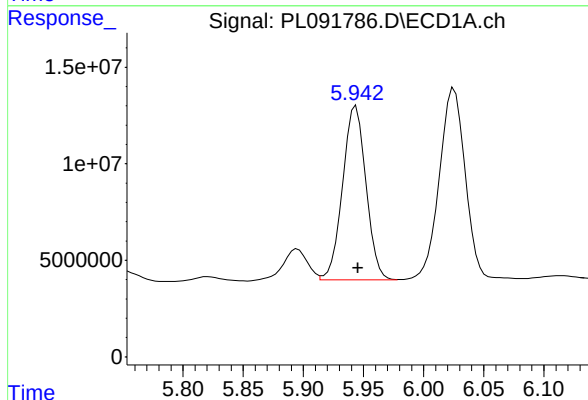
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/18/2024
Supervised By :Ankita Jodhani 09/18/2024



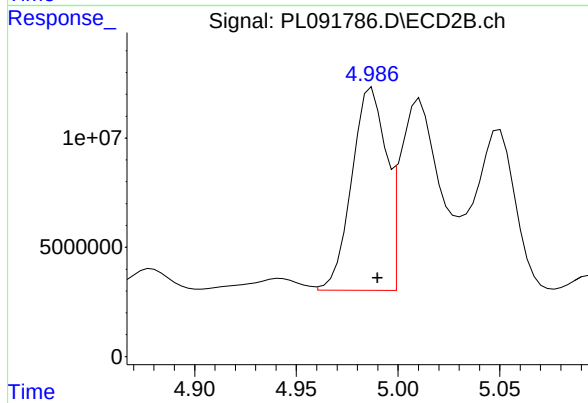
#24 Chlordane-2

R.T.: 4.357 min
Delta R.T.: -0.002 min
Response: 36927381
Conc: 492.68 ng/ml



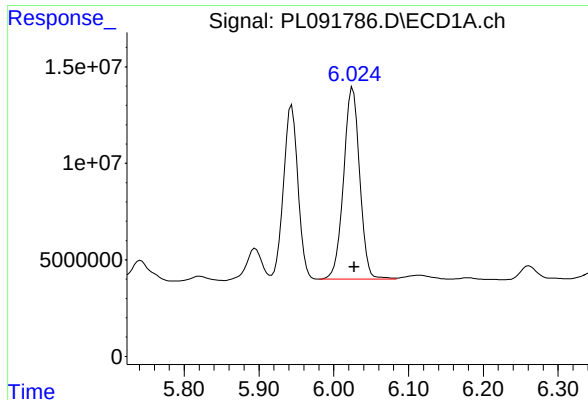
#25 Chlordane-3

R.T.: 5.942 min
Delta R.T.: -0.003 min
Response: 121949600
Conc: 474.70 ng/ml m



#25 Chlordane-3

R.T.: 4.987 min
Delta R.T.: -0.003 min
Response: 108550226
Conc: 465.60 ng/ml



#26 Chlordane-4

R.T.: 6.025 min
Delta R.T.: -0.002 min
Response: 148797759
Conc: 502.43 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/18/2024
Supervised By :Ankita Jodhani 09/18/2024

#26 Chlordane-4

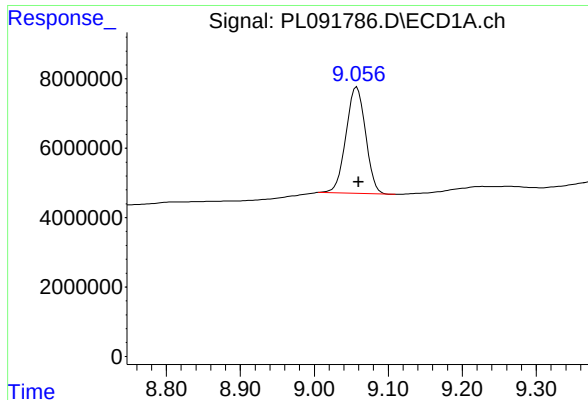
R.T.: 5.050 min
Delta R.T.: -0.003 min
Response: 104159764
Conc: 499.49 ng/ml

#27 Chlordane-5

R.T.: 6.875 min
Delta R.T.: -0.002 min
Response: 29579162
Conc: 518.23 ng/ml

#27 Chlordane-5

R.T.: 5.946 min
Delta R.T.: -0.003 min
Response: 37618869
Conc: 524.96 ng/ml



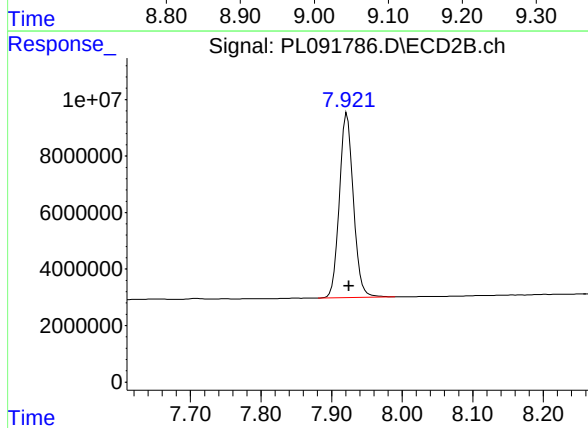
#28 Decachlorobiphenyl

R.T.: 9.058 min
Delta R.T.: -0.003 min
Response: 56550664
Conc: 46.53 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/18/2024
Supervised By :Ankita Jodhani 09/18/2024



#28 Decachlorobiphenyl

R.T.: 7.922 min
Delta R.T.: -0.003 min
Response: 89958972
Conc: 48.72 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/24/2024 Initial Calibration Date(s): 09/23/2024 09/23/2024

Continuing Calib Time: 12:02 Initial Calibration Time(s): 12:39 13:33

GC Column: ZB-MR2 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	5.95	5.85	6.05	0.00
Chlordane-4	(4)	6.04	6.03	5.93	6.13	-0.01
Chlordane-5	(5)	6.89	6.88	6.78	6.98	-0.01
Decachlorobiphenyl		9.07	9.06	8.96	9.16	-0.01
Tetrachloro-m-xylene		3.55	3.54	3.44	3.64	-0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/24/2024 Initial Calibration Date(s): 09/23/2024 09/23/2024

Continuing Calib Time: 12:02 Initial Calibration Time(s): 12:39 13:33

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Chlordane-1	(1)	3.78	3.78	3.68	3.88	0.00
Chlordane-2	(2)	4.36	4.36	4.26	4.46	0.00
Chlordane-3	(3)	4.99	4.99	4.89	5.09	0.00
Chlordane-4	(4)	5.05	5.05	4.95	5.15	0.00
Chlordane-5	(5)	5.95	5.95	5.85	6.05	0.00
Decachlorobiphenyl		7.93	7.92	7.82	8.02	-0.01
Tetrachloro-m-xylene		2.78	2.78	2.68	2.88	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

Client Sample No.: CCAL05 **Date Analyzed:** 09/24/2024

Lab Sample No.: PCHLORCCC500 **Data File :** PL091994.D **Time Analyzed:** 12:02

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Chlordane-1	4.712	4.606	4.806	420.770	500.000	-15.8
Chlordane-2	5.244	5.136	5.336	433.840	500.000	-13.2
Chlordane-3	5.954	5.846	6.046	422.680	500.000	-15.5
Chlordane-4	6.036	5.928	6.128	422.580	500.000	-15.5
Chlordane-5	6.885	6.777	6.977	430.890	500.000	-13.8
Decachlorobiphenyl	9.070	8.961	9.161	42.700	50.000	-14.6
Tetrachloro-m-xylene	3.552	3.444	3.644	42.730	50.000	-14.5



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 09/23/2024 09/23/2024

Client Sample No.: CCAL05 Date Analyzed: 09/24/2024

Lab Sample No.: PCHLORCCC500 Data File : PL091994.D Time Analyzed: 12:02

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Chlordane-1	3.782	3.681	3.881	433.970	500.000	-13.2
Chlordane-2	4.360	4.258	4.458	436.080	500.000	-12.8
Chlordane-3	4.991	4.889	5.089	439.750	500.000	-12.1
Chlordane-4	5.054	4.951	5.151	439.980	500.000	-12.0
Chlordane-5	5.950	5.847	6.047	439.270	500.000	-12.1
Decachlorobiphenyl	7.926	7.824	8.024	43.140	50.000	-13.7
Tetrachloro-m-xylene	2.783	2.682	2.882	54.100	50.000	8.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092424\
 Data File : PL091994.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 24 Sep 2024 12:02
 Operator : AR\AJ
 Sample : PCHLORCCC500
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PCHLORCCC500

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/25/2024
 Supervised By :Ankita Jodhani 09/25/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 25 01:17:10 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
 Quant Title : GC Extractables
 QLast Update : Mon Sep 23 16:44:57 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.552	2.783	95049670	135.7E6	42.725	54.100 #
28)	SA Decachlor...	9.070	7.926	69955035	107.9E6	42.702	43.141
Target Compounds							
23)	Chlordane-1	4.712	3.782	43126462	43388546	420.769m	433.969
24)	Chlordane-2	5.244	4.360	46528308	48939231	433.844	436.078
25)	Chlordane-3	5.954	4.991	158.3E6	145.7E6	422.678	439.747
26)	Chlordane-4	6.036	5.054	191.4E6	139.6E6	422.580	439.980
27)	Chlordane-5	6.885	5.950	37579863	47638832	430.888	439.272

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092424\
Data File : PL091994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 12:02
Operator : AR\AJ
Sample : PCHLORCCC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PCHLORCCC500

Manual Integrations

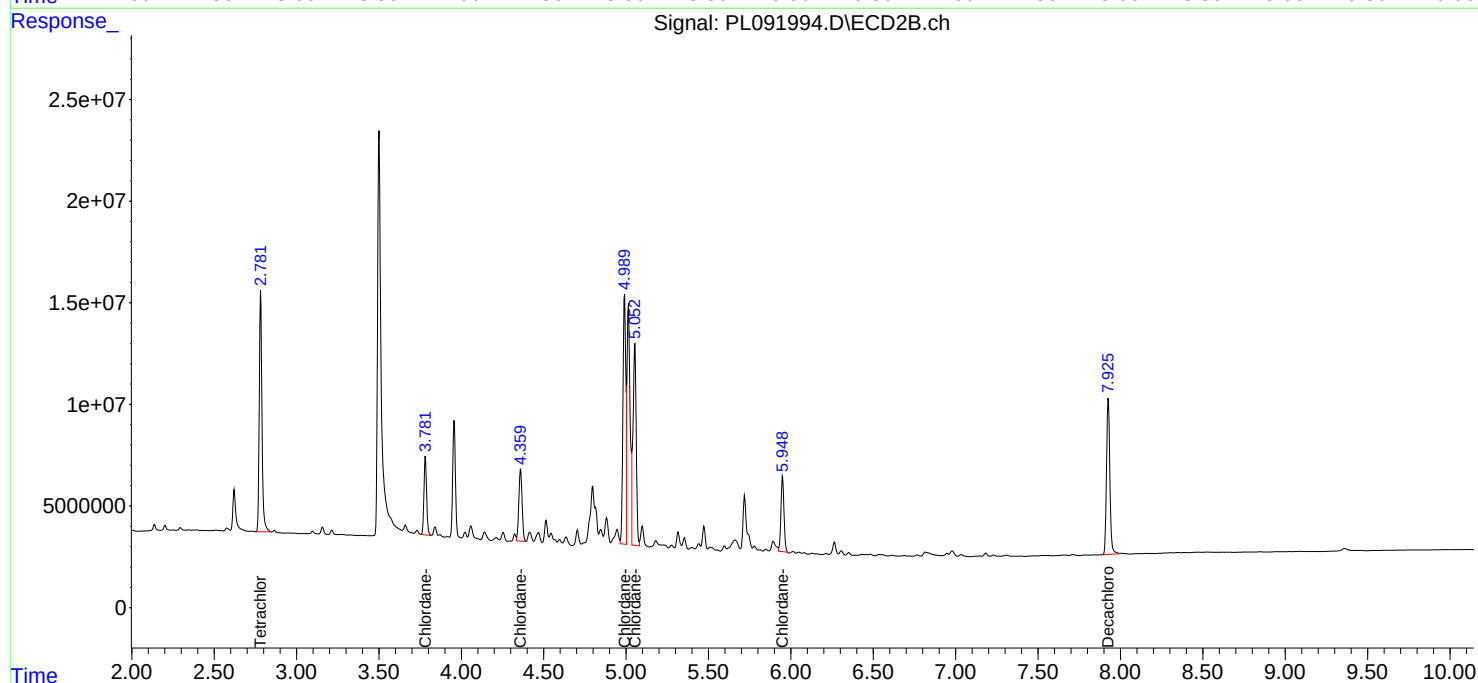
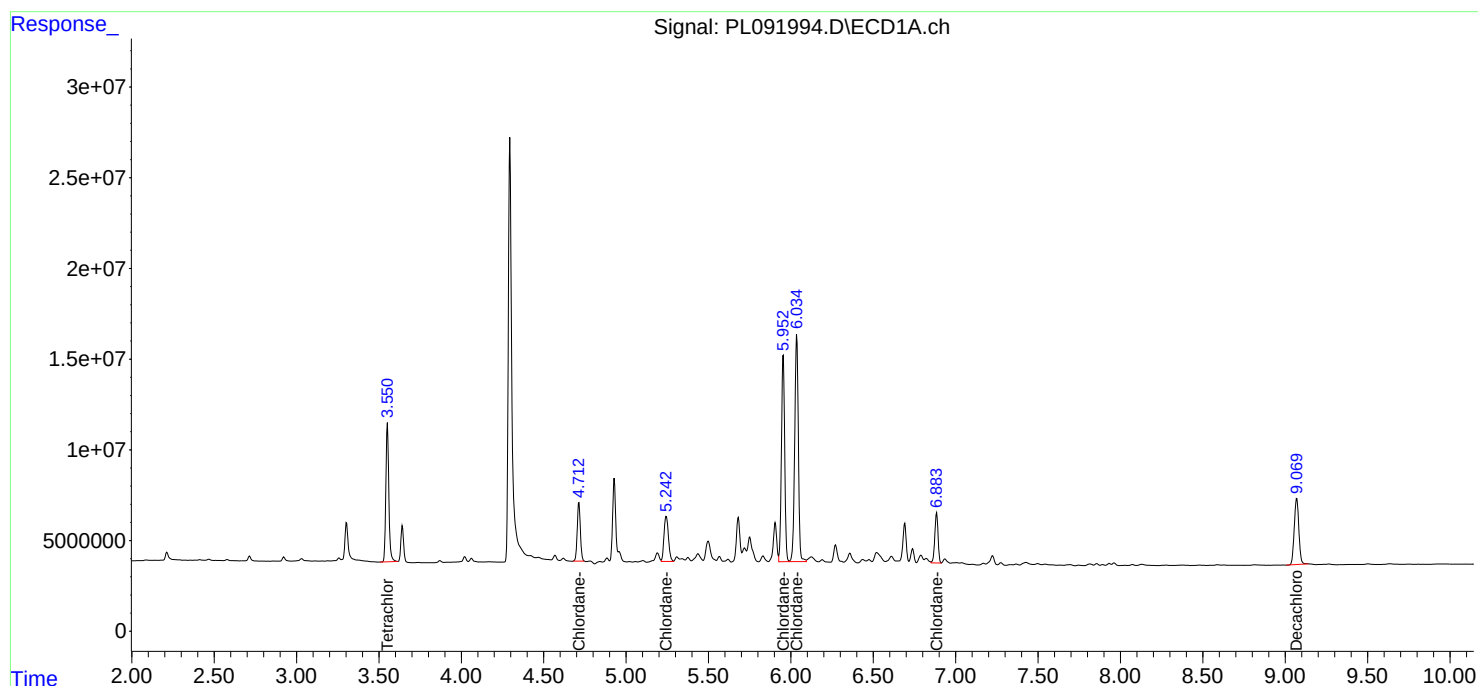
APPROVED

Reviewed By :Abdul Mirza 09/25/2024

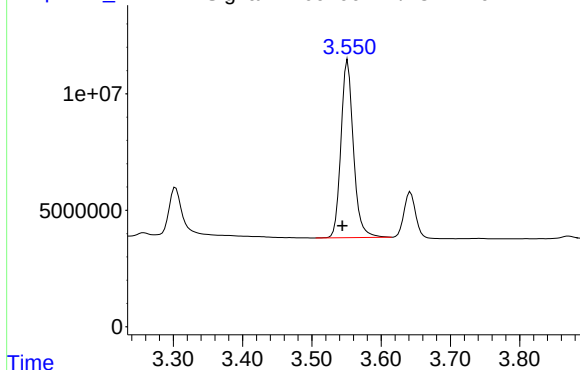
Supervised By :Ankita Jodhani 09/25/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 01:17:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Response_ Signal: PL091994.D\ECD1A.ch



#1 Tetrachloro-m-xylene

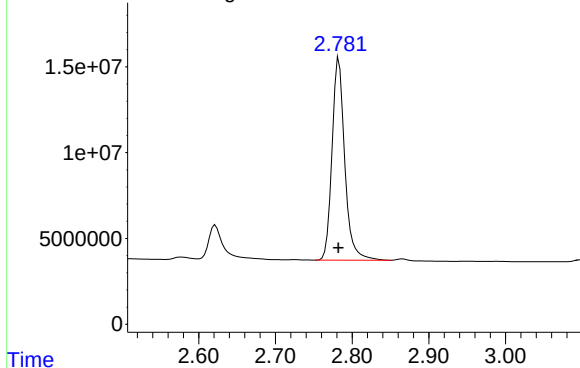
R.T.: 3.552 min
Delta R.T.: 0.008 min
Response: 95049670
Conc: 42.73 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/25/2024
Supervised By :Ankita Jodhani 09/25/2024

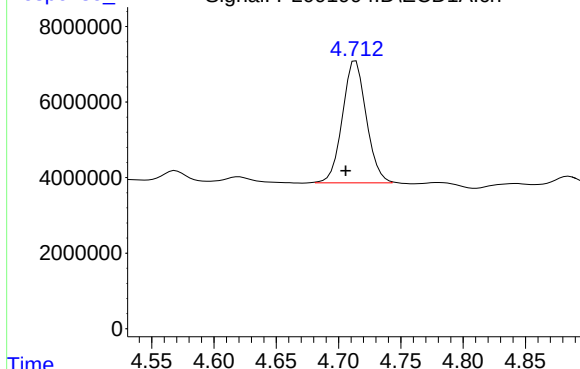
Time Response_ Signal: PL091994.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 2.783 min
Delta R.T.: 0.000 min
Response: 135688137
Conc: 54.10 ng/ml

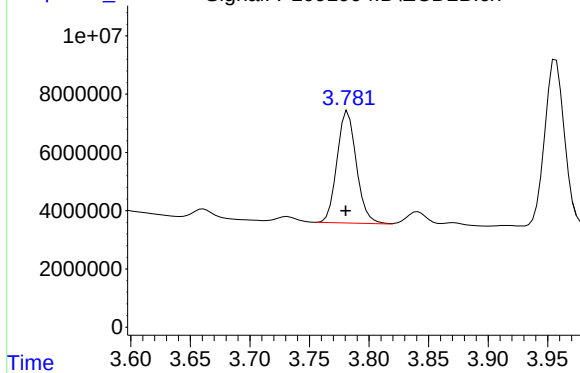
Time Response_ Signal: PL091994.D\ECD1A.ch



#23 Chlordane-1

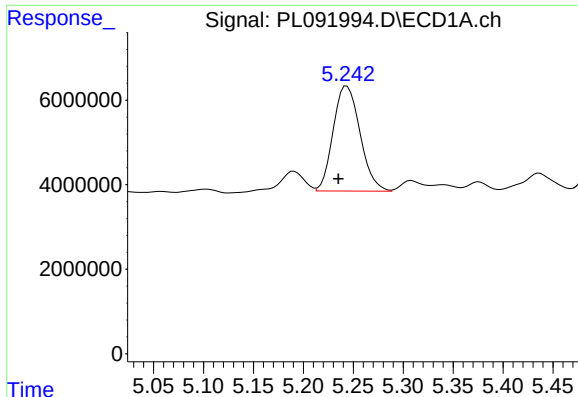
R.T.: 4.712 min
Delta R.T.: 0.007 min
Response: 43126462
Conc: 420.77 ng/ml m

Time Response_ Signal: PL091994.D\ECD2B.ch



#23 Chlordane-1

R.T.: 3.782 min
Delta R.T.: 0.002 min
Response: 43388546
Conc: 433.97 ng/ml



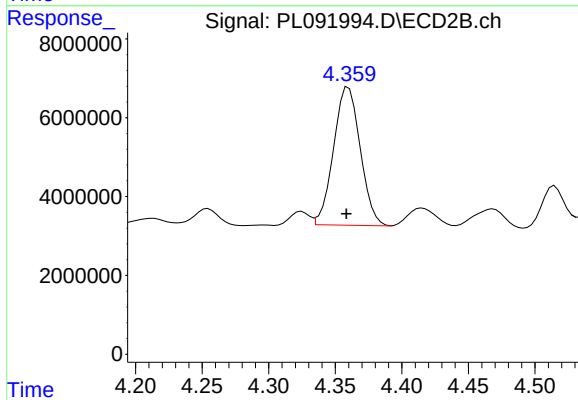
#24 Chlordane-2

R.T.: 5.244 min
Delta R.T.: 0.009 min
Response: 46528308
Conc: 433.84 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

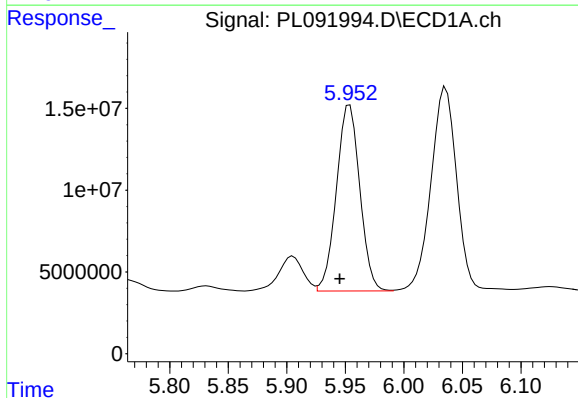
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/25/2024
Supervised By :Ankita Jodhani 09/25/2024



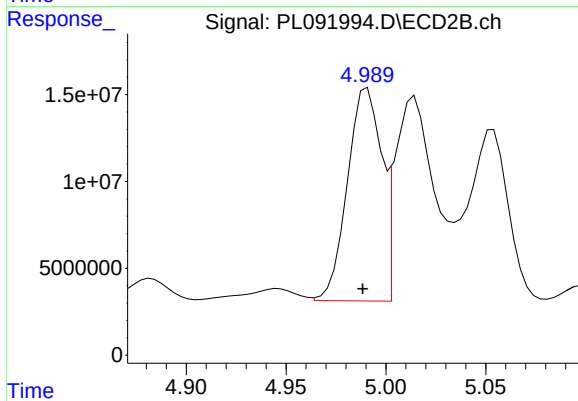
#24 Chlordane-2

R.T.: 4.360 min
Delta R.T.: 0.002 min
Response: 48939231
Conc: 436.08 ng/ml



#25 Chlordane-3

R.T.: 5.954 min
Delta R.T.: 0.009 min
Response: 158325342
Conc: 422.68 ng/ml

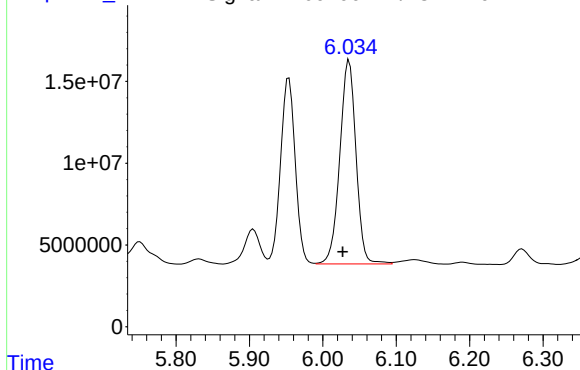


#25 Chlordane-3

R.T.: 4.991 min
Delta R.T.: 0.002 min
Response: 145656587
Conc: 439.75 ng/ml

Response_ Signal: PL091994.D\ECD1A.ch

#26 Chlordane-4



R.T.: 6.036 min
Delta R.T.: 0.009 min
Response: 191363620
Conc: 422.58 ng/ml

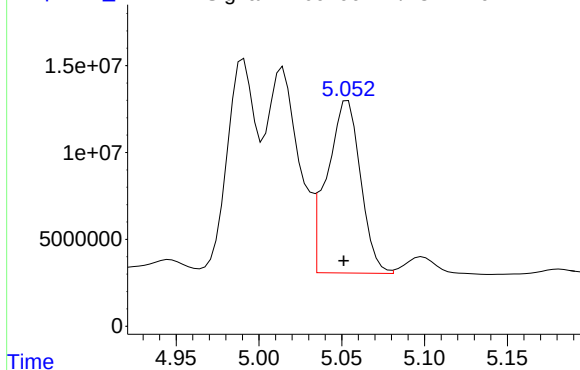
Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/25/2024
Supervised By :Ankita Jodhani 09/25/2024

Time Response_ Signal: PL091994.D\ECD2B.ch

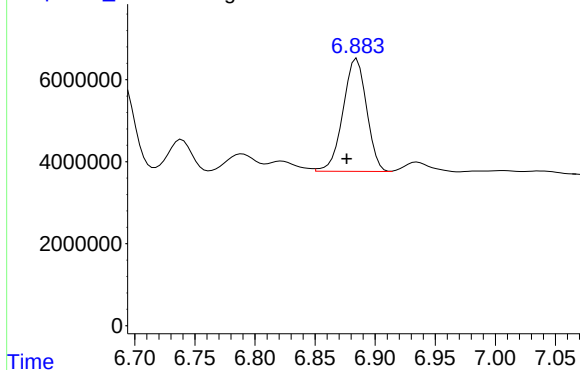
#26 Chlordane-4



R.T.: 5.054 min
Delta R.T.: 0.003 min
Response: 139597788
Conc: 439.98 ng/ml

Time Response_ Signal: PL091994.D\ECD1A.ch

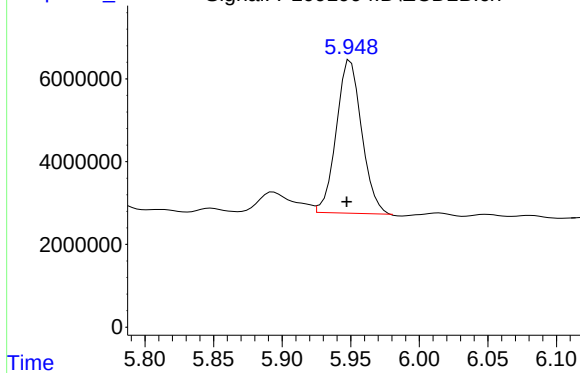
#27 Chlordane-5



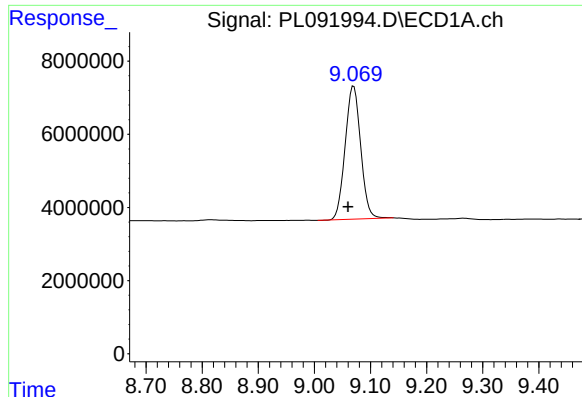
R.T.: 6.885 min
Delta R.T.: 0.008 min
Response: 37579863
Conc: 430.89 ng/ml

Time Response_ Signal: PL091994.D\ECD2B.ch

#27 Chlordane-5



R.T.: 5.950 min
Delta R.T.: 0.003 min
Response: 47638832
Conc: 439.27 ng/ml



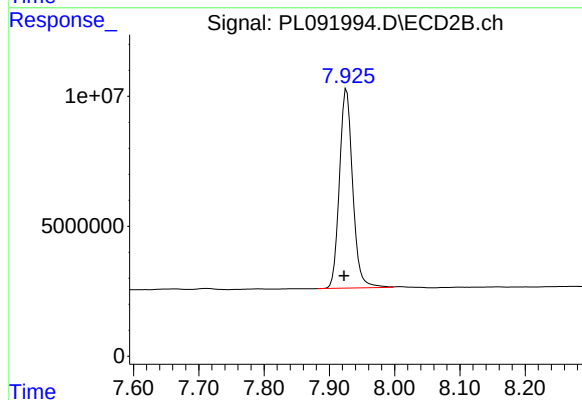
#28 Decachlorobiphenyl

R.T.: 9.070 min
Delta R.T.: 0.010 min
Response: 69955035
Conc: 42.70 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/25/2024
Supervised By :Ankita Jodhani 09/25/2024



#28 Decachlorobiphenyl

R.T.: 7.926 min
Delta R.T.: 0.004 min
Response: 107937423
Conc: 43.14 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/24/2024 Initial Calibration Date(s): 09/23/2024 09/23/2024

Continuing Calib Time: 14:35 Initial Calibration Time(s): 12:39 13:33

GC Column: ZB-MR2 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	5.95	5.85	6.05	0.00
Chlordane-4	(4)	6.03	6.03	5.93	6.13	0.00
Chlordane-5	(5)	6.88	6.88	6.78	6.98	0.00
Decachlorobiphenyl		9.06	9.06	8.96	9.16	0.00
Tetrachloro-m-xylene		3.54	3.54	3.44	3.64	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/24/2024 Initial Calibration Date(s): 09/23/2024 09/23/2024

Continuing Calib Time: 14:35 Initial Calibration Time(s): 12:39 13:33

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Chlordane-1	(1)	3.78	3.78	3.68	3.88	0.00
Chlordane-2	(2)	4.36	4.36	4.26	4.46	0.00
Chlordane-3	(3)	4.99	4.99	4.89	5.09	0.00
Chlordane-4	(4)	5.05	5.05	4.95	5.15	0.00
Chlordane-5	(5)	5.95	5.95	5.85	6.05	0.00
Decachlorobiphenyl		7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene		2.78	2.78	2.68	2.88	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 09/23/2024 09/23/2024

Client Sample No.: CCAL06 Date Analyzed: 09/24/2024

Lab Sample No.: PCHLORCCC500 Data File : PL092004.D Time Analyzed: 14:35

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Chlordane-1	4.706	4.606	4.806	440.860	500.000	-11.8
Chlordane-2	5.235	5.136	5.336	440.530	500.000	-11.9
Chlordane-3	5.946	5.846	6.046	440.740	500.000	-11.9
Chlordane-4	6.027	5.928	6.128	442.260	500.000	-11.5
Chlordane-5	6.876	6.777	6.977	447.250	500.000	-10.6
Decachlorobiphenyl	9.060	8.961	9.161	44.760	50.000	-10.5
Tetrachloro-m-xylene	3.544	3.444	3.644	44.150	50.000	-11.7



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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/23/2024 09/23/2024

Client Sample No.: CCAL06 **Date Analyzed:** 09/24/2024

Lab Sample No.: PCHLORCCC500 **Data File :** PL092004.D **Time Analyzed:** 14:35

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Chlordane-1	3.781	3.681	3.881	455.810	500.000	-8.8
Chlordane-2	4.358	4.258	4.458	454.570	500.000	-9.1
Chlordane-3	4.989	4.889	5.089	461.980	500.000	-7.6
Chlordane-4	5.051	4.951	5.151	459.420	500.000	-8.1
Chlordane-5	5.947	5.847	6.047	458.530	500.000	-8.3
Decachlorobiphenyl	7.923	7.824	8.024	45.170	50.000	-9.7
Tetrachloro-m-xylene	2.782	2.682	2.882	56.090	50.000	12.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092424\
Data File : PL092004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 14:35
Operator : AR\AJ
Sample : PCHLORCCC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 01:18:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.544	2.782	98225428	140.7E6	44.153	56.089 #
28)	SA Decachlor...	9.060	7.923	73319861	113.0E6	44.756	45.172
Target Compounds							
23)	Chlordane-1	4.706	3.781	45186114	45572058	440.864	455.808
24)	Chlordane-2	5.235	4.358	47245210	51014589	440.529	454.570
25)	Chlordane-3	5.946	4.989	165.1E6	153.0E6	440.743	461.976
26)	Chlordane-4	6.027	5.051	200.3E6	145.8E6	442.260	459.421
27)	Chlordane-5	6.876	5.947	39006794	49726991	447.249	458.527

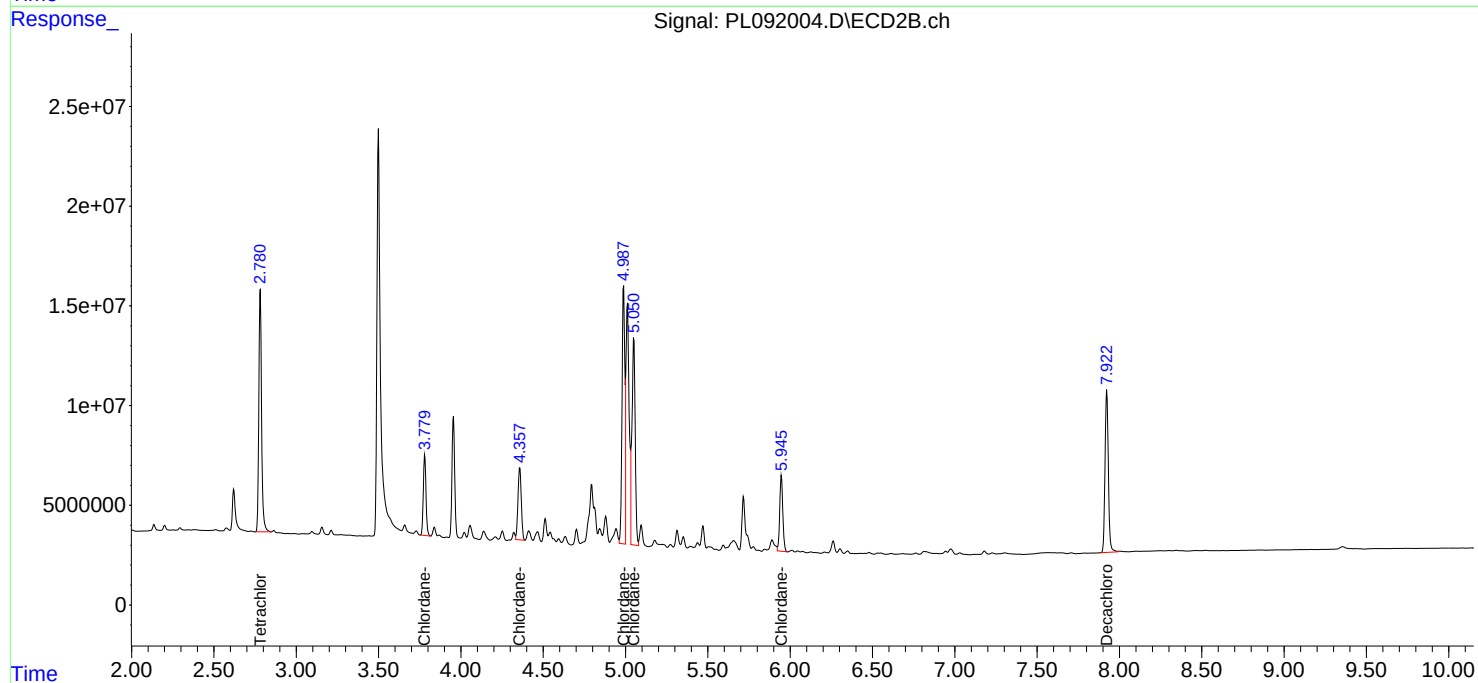
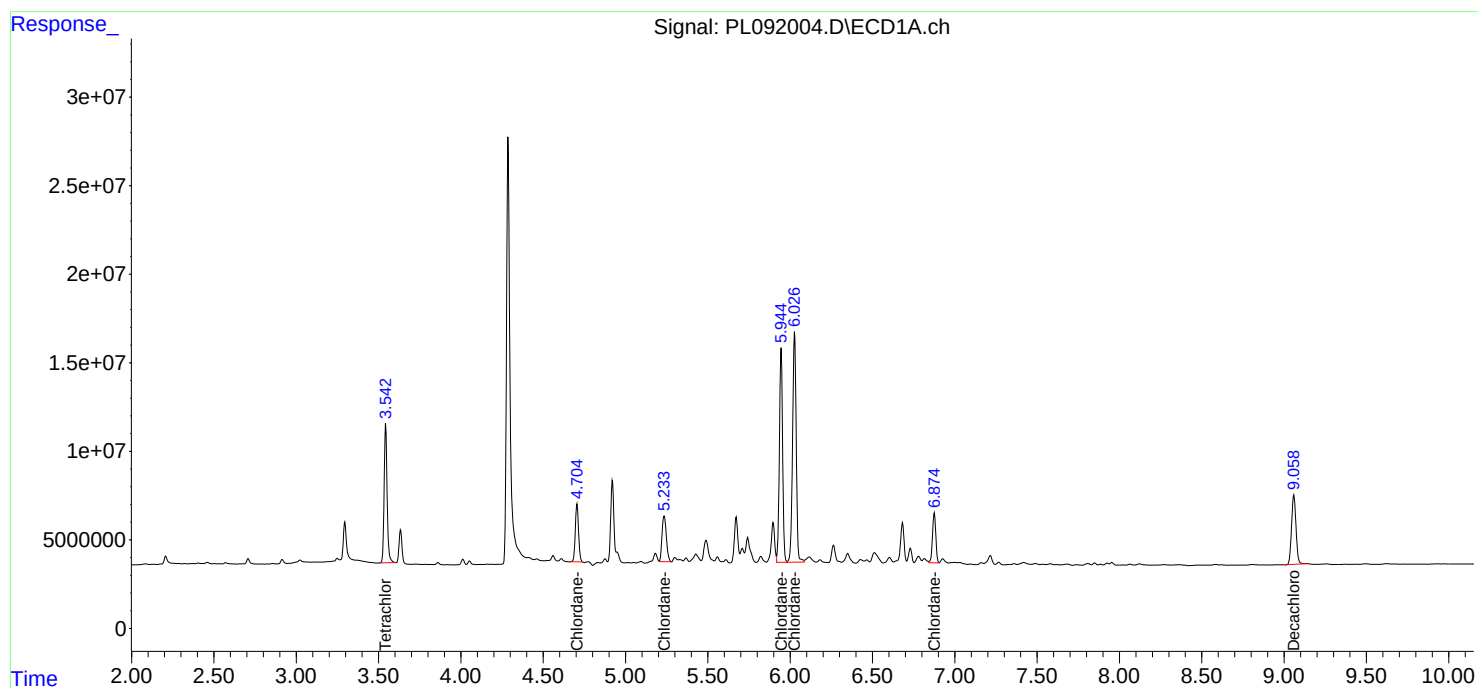
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092424\
Data File : PL092004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 14:35
Operator : AR\AJ
Sample : PCHLORCCC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 01:18:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Response_ Signal: PL092004.D\ECD1A.ch

#1 Tetrachloro-m-xylene

R.T.: 3.544 min
Delta R.T.: 0.000 min
Response: 98225428
Conc: 44.15 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

Time

Response_ Signal: PL092004.D\ECD2B.ch

#1 Tetrachloro-m-xylene

R.T.: 2.782 min
Delta R.T.: 0.000 min
Response: 140674561
Conc: 56.09 ng/ml

Time

Response_ Signal: PL092004.D\ECD1A.ch

#23 Chlordane-1

R.T.: 4.706 min
Delta R.T.: 0.000 min
Response: 45186114
Conc: 440.86 ng/ml

Time

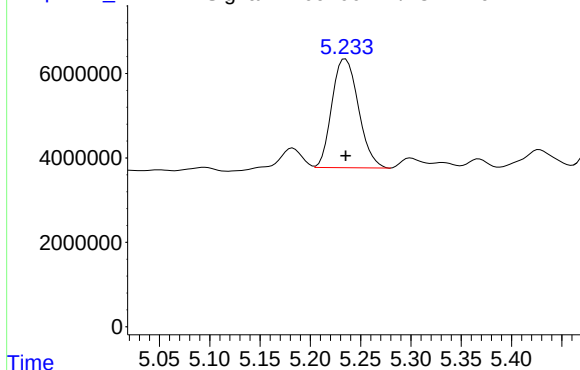
Response_ Signal: PL092004.D\ECD2B.ch

#23 Chlordane-1

R.T.: 3.781 min
Delta R.T.: 0.000 min
Response: 45572058
Conc: 455.81 ng/ml

Time

Response_ Signal: PL092004.D\ECD1A.ch

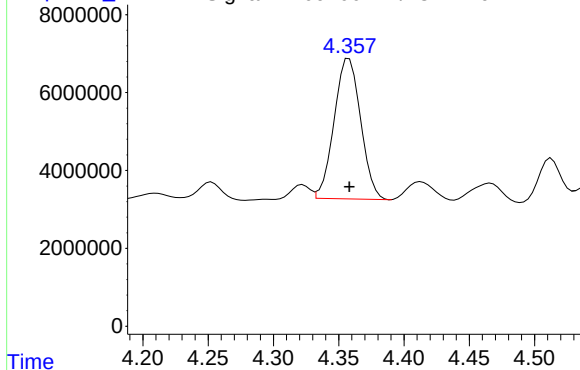


#24 Chlordane-2

R.T.: 5.235 min
Delta R.T.: 0.000 min
Response: 47245210
Conc: 440.53 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

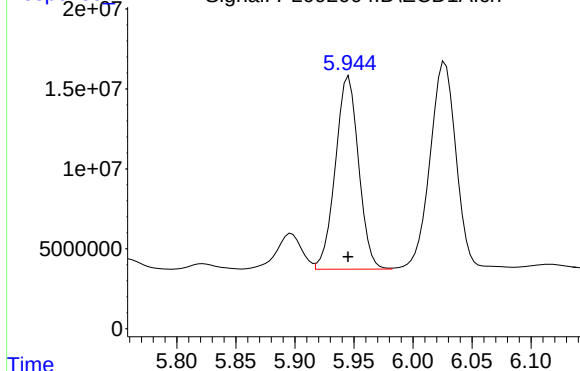
Time Response_ Signal: PL092004.D\ECD2B.ch



#24 Chlordane-2

R.T.: 4.358 min
Delta R.T.: 0.000 min
Response: 51014589
Conc: 454.57 ng/ml

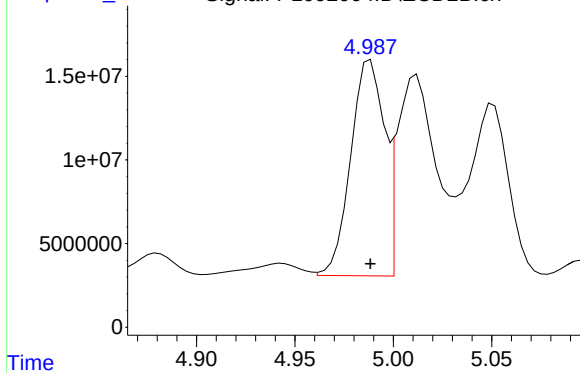
Time Response_ Signal: PL092004.D\ECD1A.ch



#25 Chlordane-3

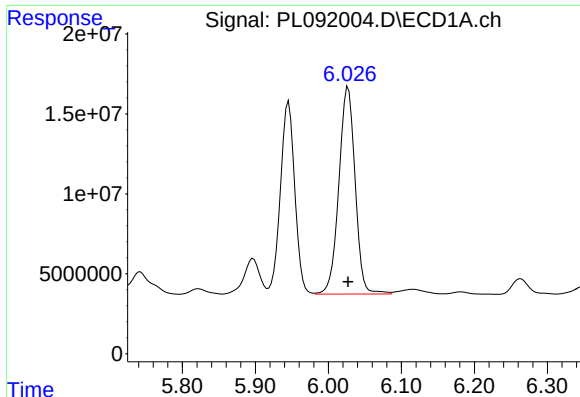
R.T.: 5.946 min
Delta R.T.: 0.000 min
Response: 165092049
Conc: 440.74 ng/ml

Time Response_ Signal: PL092004.D\ECD2B.ch



#25 Chlordane-3

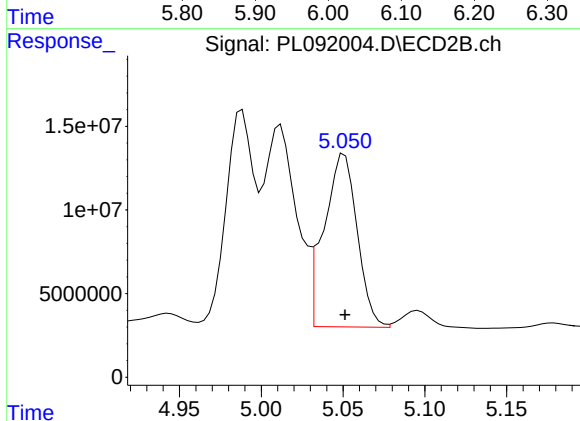
R.T.: 4.989 min
Delta R.T.: 0.000 min
Response: 153019638
Conc: 461.98 ng/ml



#26 Chlordane-4

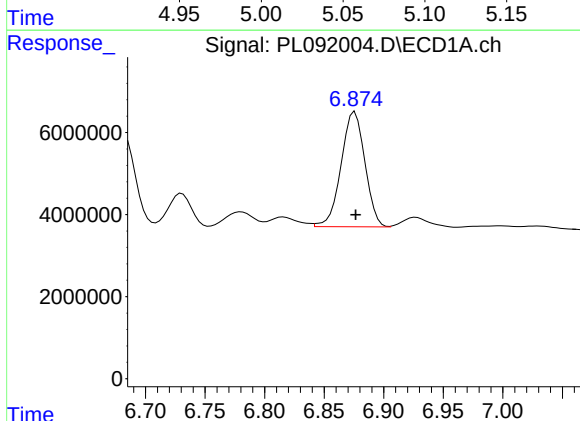
R.T.: 6.027 min
Delta R.T.: 0.000 min
Response: 200275658
Conc: 442.26 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500



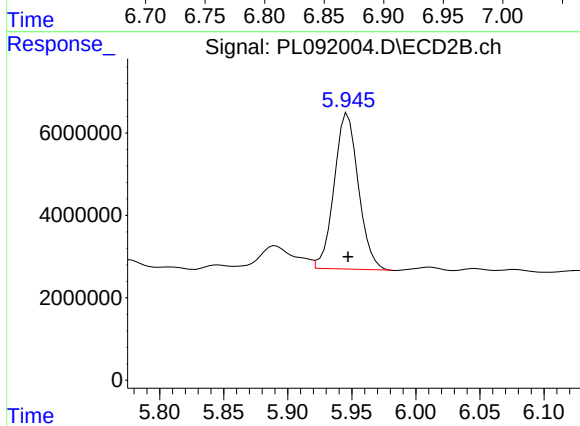
#26 Chlordane-4

R.T.: 5.051 min
Delta R.T.: 0.000 min
Response: 145765896
Conc: 459.42 ng/ml



#27 Chlordane-5

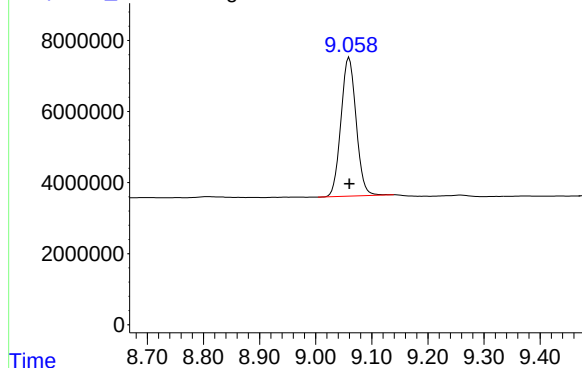
R.T.: 6.876 min
Delta R.T.: 0.000 min
Response: 39006794
Conc: 447.25 ng/ml



#27 Chlordane-5

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 49726991
Conc: 458.53 ng/ml

Signal: PL092004.D\ECD1A.ch

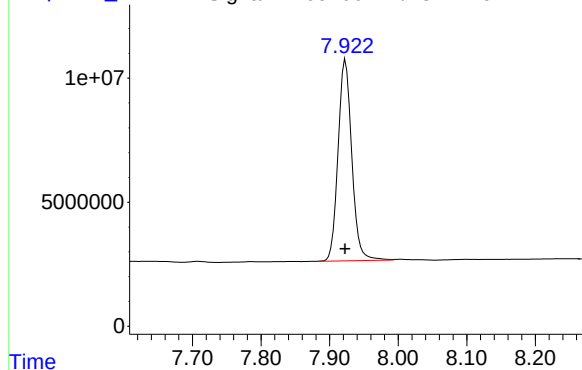


#28 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.000 min
Response: 73319861
Conc: 44.76 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORCCC500

Signal: PL092004.D\ECD2B.ch



#28 Decachlorobiphenyl

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 113018494
Conc: 45.17 ng/ml

Analytical Sequence

Client: Chemtech Consulting Group

SDG No.: P3845

Project: NJ Waste Water PT

Instrument ID: ECD_L

GC Column: ZB-MR2

ID: 0.32 (mm)

Inst. Calib. Date(s): 09/09/2024

09/09/2024

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	09/09/2024	14:50	PL091568.D	9.06	3.54
PCHLORICC1000	PCHLORICC1000	09/09/2024	16:39	PL091576.D	9.06	3.55
PCHLORICC750	PCHLORICC750	09/09/2024	16:52	PL091577.D	9.06	3.54
PCHLORICC500	PCHLORICC500	09/09/2024	17:06	PL091578.D	9.06	3.54
PCHLORICC250	PCHLORICC250	09/09/2024	17:19	PL091579.D	9.06	3.54
PCHLORICC050	PCHLORICC050	09/09/2024	17:33	PL091580.D	9.05	3.54
IBLK	IBLK	09/10/2024	10:57	PL091604.D	9.06	3.54
PCHLORCCC500	PCHLORCCC500	09/10/2024	11:56	PL091607.D	9.06	3.55
PB163230BL	PB163230BL	09/10/2024	13:52	PL091615.D	9.06	3.54
IBLK	IBLK	09/10/2024	16:56	PL091623.D	9.06	3.54
PCHLORCCC500	PCHLORCCC500	09/10/2024	17:24	PL091625.D	9.06	3.54
IBLK	IBLK	09/17/2024	11:20	PL091777.D	9.06	3.54
PCHLORCCC500	PCHLORCCC500	09/17/2024	12:21	PL091780.D	9.06	3.55
PB163230BS	PB163230BS	09/17/2024	12:40	PL091781.D	9.07	3.55
IBLK	IBLK	09/17/2024	14:50	PL091784.D	9.06	3.54
PCHLORCCC500	PCHLORCCC500	09/17/2024	15:37	PL091786.D	9.06	3.54
IBLK	IBLK	09/23/2024	10:52	PL091953.D	9.06	3.54
PCHLORICC1000	PCHLORICC1000	09/23/2024	12:39	PL091961.D	9.06	3.54
PCHLORICC750	PCHLORICC750	09/23/2024	12:52	PL091962.D	9.06	3.54
PCHLORICC500	PCHLORICC500	09/23/2024	13:06	PL091963.D	9.06	3.54
PCHLORICC250	PCHLORICC250	09/23/2024	13:19	PL091964.D	9.06	3.54
PCHLORICC050	PCHLORICC050	09/23/2024	13:33	PL091965.D	9.06	3.54
IBLK	IBLK	09/24/2024	09:28	PL091991.D	9.06	3.55
PCHLORCCC500	PCHLORCCC500	09/24/2024	12:02	PL091994.D	9.07	3.55
PT-CHLR-WP	P3845-11	09/24/2024	12:49	PL091997.D	9.06	3.54
IBLK	IBLK	09/24/2024	14:08	PL092002.D	9.06	3.54
PCHLORCCC500	PCHLORCCC500	09/24/2024	14:35	PL092004.D	9.06	3.54

Analytical Sequence

Client: Chemtech Consulting Group	SDG No.: P3845
Project: NJ Waste Water PT	Instrument ID: ECD_L
GC Column: ZB-MR1	ID: 0.32 (mm) Inst. Calib. Date(s): 09/09/2024 09/09/2024

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	09/09/2024	14:50	PL091568.D	7.92	2.78
PCHLORICC1000	PCHLORICC1000	09/09/2024	16:39	PL091576.D	7.93	2.78
PCHLORICC750	PCHLORICC750	09/09/2024	16:52	PL091577.D	7.93	2.78
PCHLORICC500	PCHLORICC500	09/09/2024	17:06	PL091578.D	7.93	2.78
PCHLORICC250	PCHLORICC250	09/09/2024	17:19	PL091579.D	7.93	2.78
PCHLORICC050	PCHLORICC050	09/09/2024	17:33	PL091580.D	7.92	2.78
IBLK	IBLK	09/10/2024	10:57	PL091604.D	7.92	2.78
PCHLORCCC500	PCHLORCCC500	09/10/2024	11:56	PL091607.D	7.93	2.78
PB163230BL	PB163230BL	09/10/2024	13:52	PL091615.D	7.92	2.78
IBLK	IBLK	09/10/2024	16:56	PL091623.D	7.92	2.78
PCHLORCCC500	PCHLORCCC500	09/10/2024	17:24	PL091625.D	7.92	2.78
IBLK	IBLK	09/17/2024	11:20	PL091777.D	7.92	2.78
PCHLORCCC500	PCHLORCCC500	09/17/2024	12:21	PL091780.D	7.92	2.78
PB163230BS	PB163230BS	09/17/2024	12:40	PL091781.D	7.93	2.78
IBLK	IBLK	09/17/2024	14:50	PL091784.D	7.92	2.78
PCHLORCCC500	PCHLORCCC500	09/17/2024	15:37	PL091786.D	7.92	2.78
IBLK	IBLK	09/23/2024	10:52	PL091953.D	7.92	2.78
PCHLORICC1000	PCHLORICC1000	09/23/2024	12:39	PL091961.D	7.92	2.78
PCHLORICC750	PCHLORICC750	09/23/2024	12:52	PL091962.D	7.92	2.78
PCHLORICC500	PCHLORICC500	09/23/2024	13:06	PL091963.D	7.92	2.78
PCHLORICC250	PCHLORICC250	09/23/2024	13:19	PL091964.D	7.92	2.78
PCHLORICC050	PCHLORICC050	09/23/2024	13:33	PL091965.D	7.92	2.78
IBLK	IBLK	09/24/2024	09:28	PL091991.D	7.92	2.78
PCHLORCCC500	PCHLORCCC500	09/24/2024	12:02	PL091994.D	7.93	2.78
PT-CHLR-WP	P3845-11	09/24/2024	12:49	PL091997.D	7.92	2.78
IBLK	IBLK	09/24/2024	14:08	PL092002.D	7.92	2.78
PCHLORCCC500	PCHLORCCC500	09/24/2024	14:35	PL092004.D	7.92	2.78

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB163230BS

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Lab Sample ID: PB163230BS Date(s) Analyzed: 09/17/2024 09/17/2024

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2 ID: 0.32 (mm) GC Column:(2): ZB-MR1 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	5.76	5.71	5.81	2.10	4.9
	2	4.83	4.78	4.88	2.00	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PT-CHLR-WP

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Lab Sample ID: P3845-11 Date(s) Analyzed: 09/24/2024 09/24/2024

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column: (1): ZB-MR2 ID: 0.32 (mm) GC Column:(2): ZB-MR1 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	5.76	5.71	5.81	8.00	11.8
	2	4.83	4.78	4.88	9.00	



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:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163230BL	SDG No.:	P3845
Lab Sample ID:	PB163230BL	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL091615.D	1	09/09/24 10:00	09/10/24 13:52	PB163230

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.5		43 - 140	113%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		77 - 126	103%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091024\
Data File : PL091615.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 13:52
Operator : AR\AJ
Sample : PB163230BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB163230BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 05:34:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.543	2.782	31537145	38623150	20.234	20.651
28) SA Decachlor...	9.060	7.924	24526283	41610203	20.181	22.534

Target Compounds

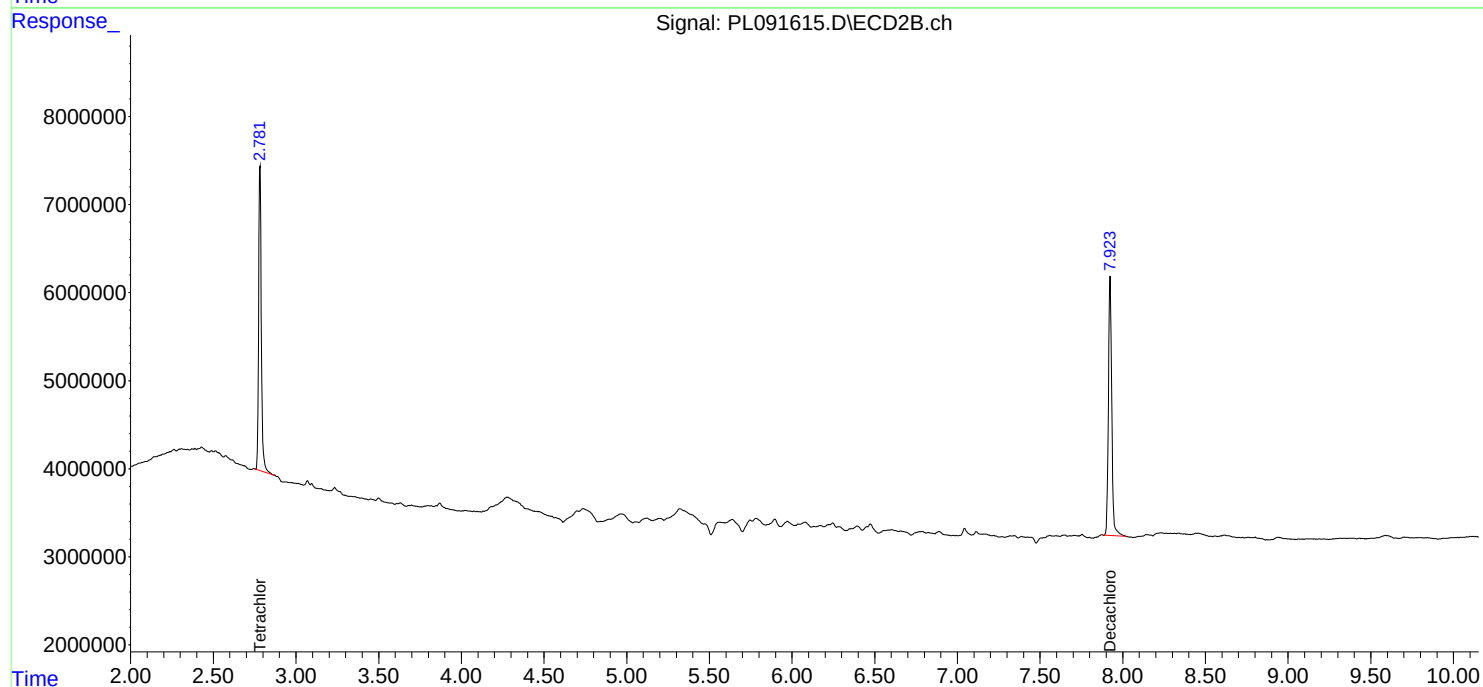
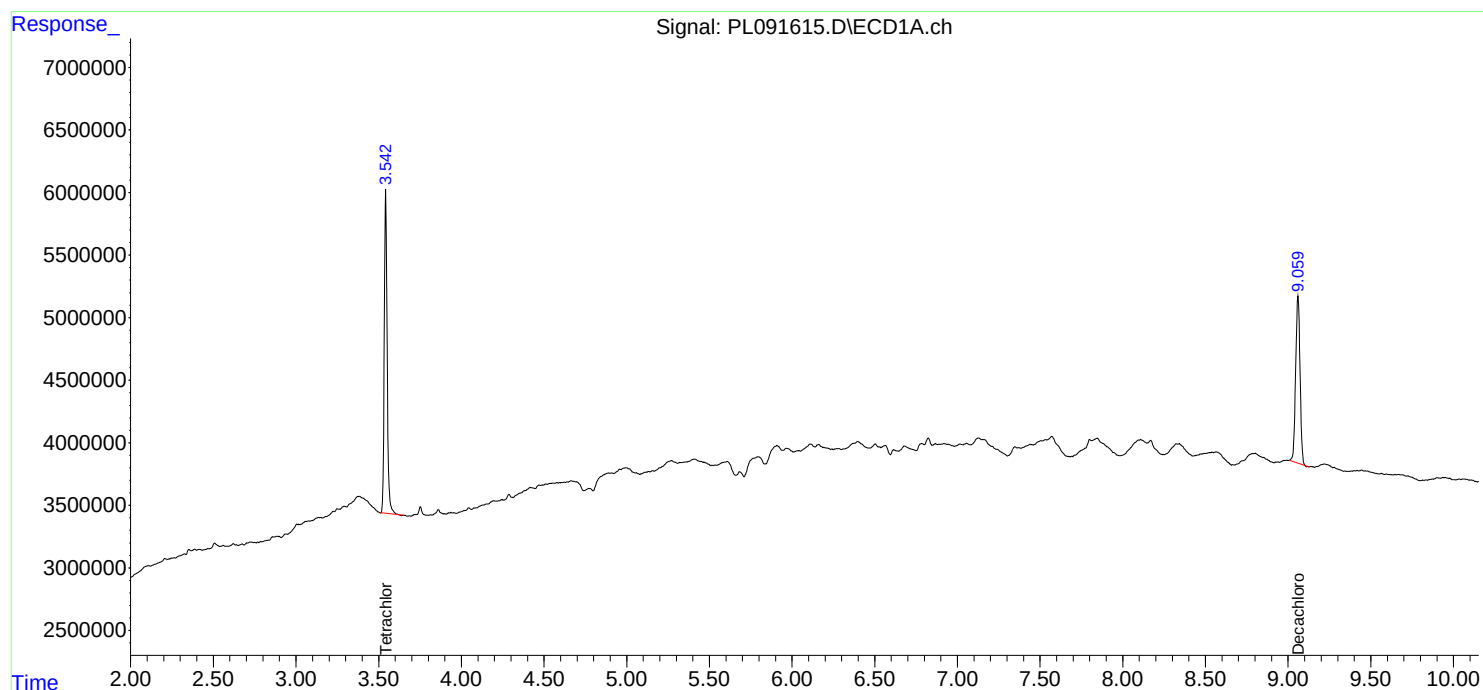
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

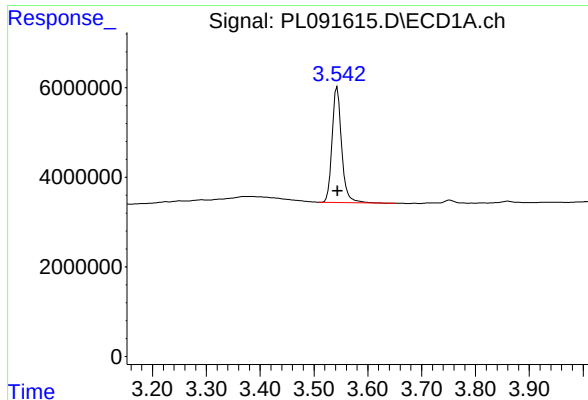
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091024\
Data File : PL091615.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 13:52
Operator : AR\AJ
Sample : PB163230BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB163230BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 05:34:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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

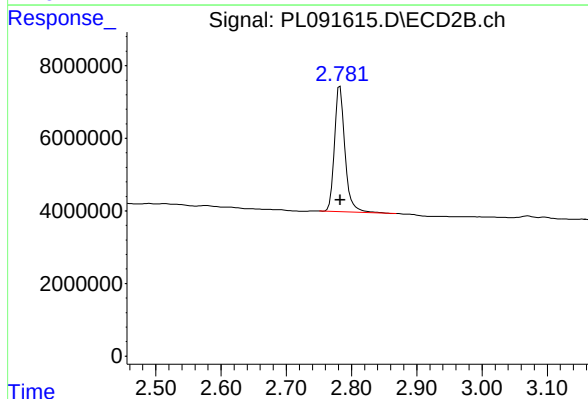




#1 Tetrachloro-m-xylene

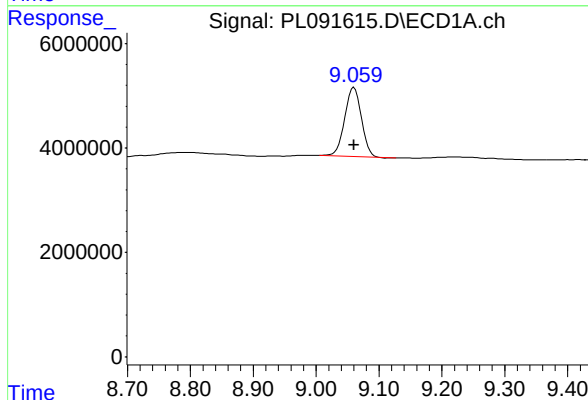
R.T.: 3.543 min
Delta R.T.: 0.000 min
Response: 31537145
Conc: 20.23 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB163230BL



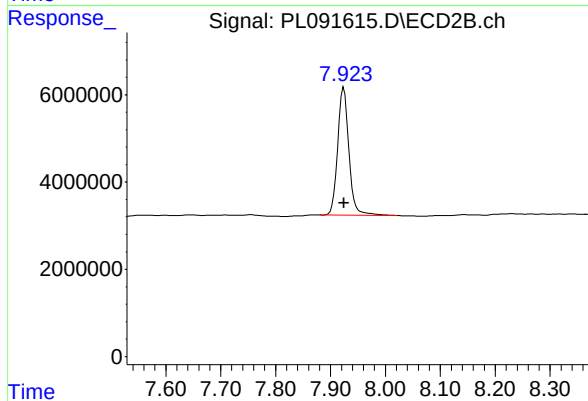
#1 Tetrachloro-m-xylene

R.T.: 2.782 min
Delta R.T.: 0.000 min
Response: 38623150
Conc: 20.65 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.000 min
Response: 24526283
Conc: 20.18 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.924 min
Delta R.T.: 0.000 min
Response: 41610203
Conc: 22.53 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/09/24
Project:	NJ Waste Water PT	Date Received:	09/09/24
Client Sample ID:	PIBLK-PL091568.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PL091568.D	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL091568.D	1		09/09/24	PL090924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	26.7		43 - 140	133%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.3		77 - 126	121%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
 Data File : PL091568.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Sep 2024 14:50
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 09 18:05:14 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
 Quant Title : GC Extractables
 QLast Update : Mon Sep 09 17:50:55 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.544	2.783	37715852	45438208	24.199	24.295
28) SA Decachlor...	9.060	7.924	32431838	48319649	26.686	26.168

Target Compounds

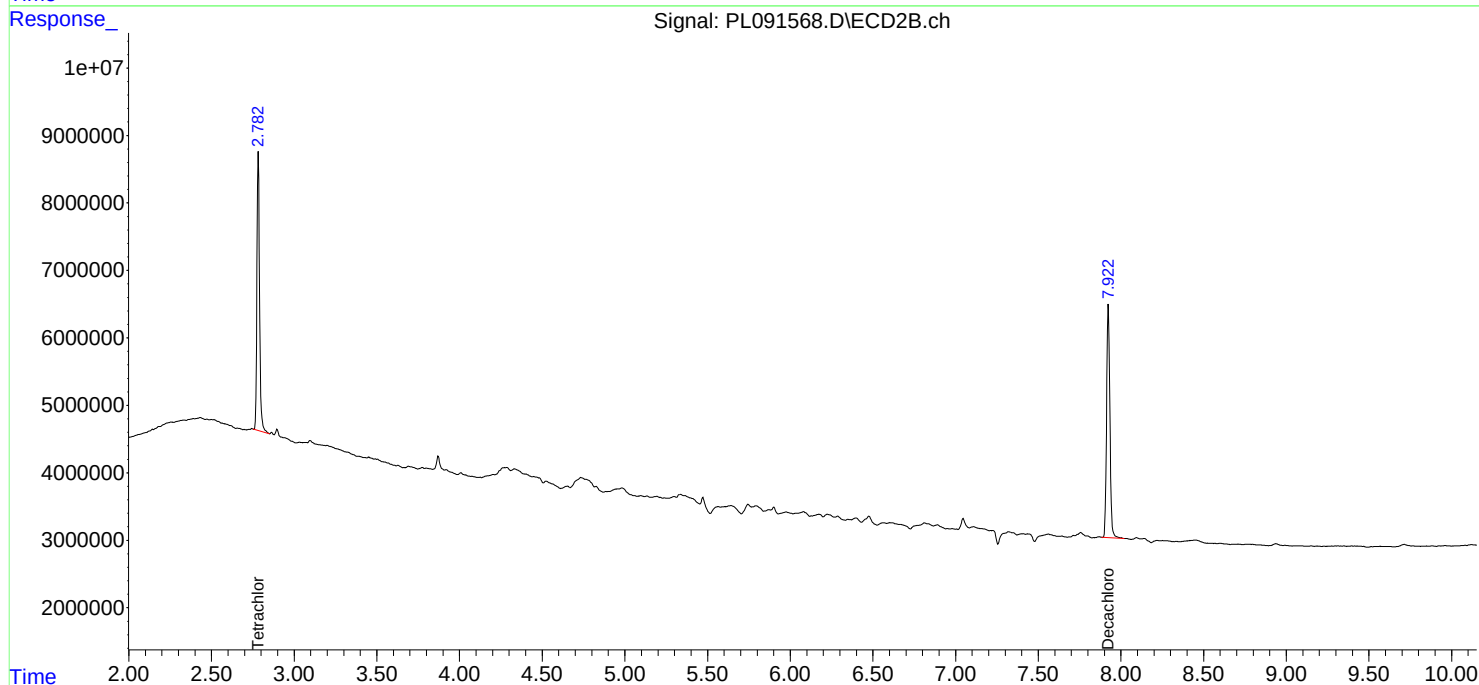
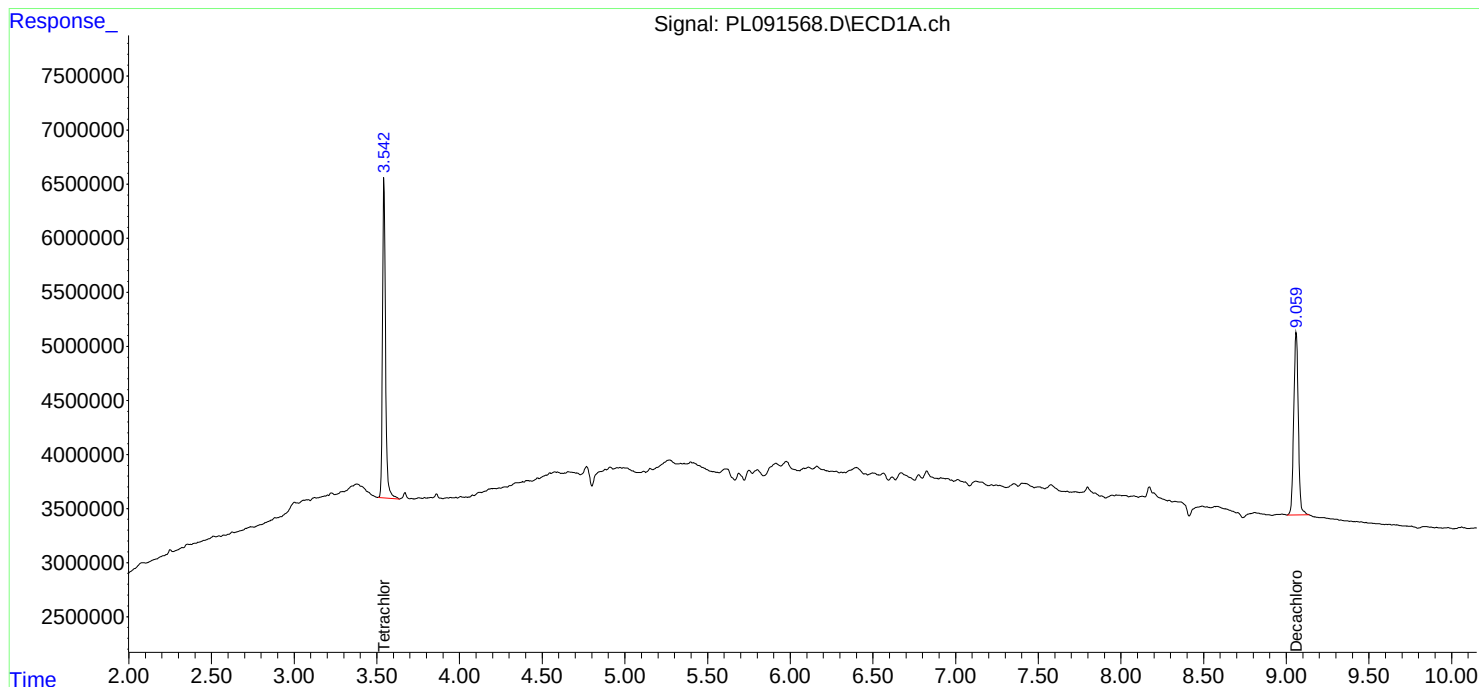
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

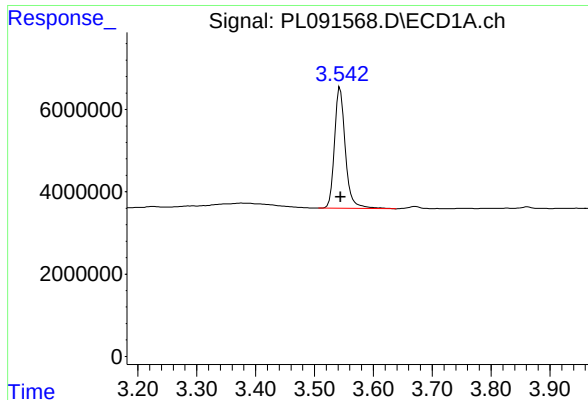
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL090924\
Data File : PL091568.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2024 14:50
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 18:05:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 17:50:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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

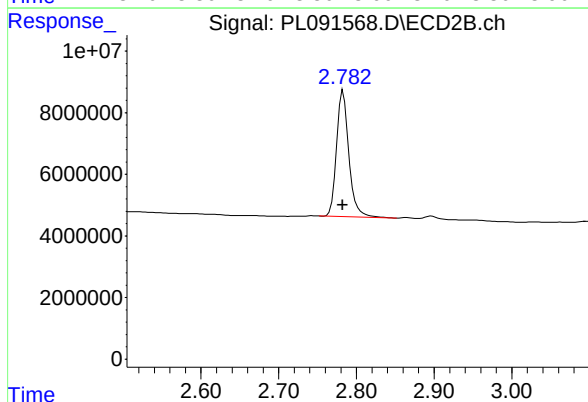




#1 Tetrachloro-m-xylene

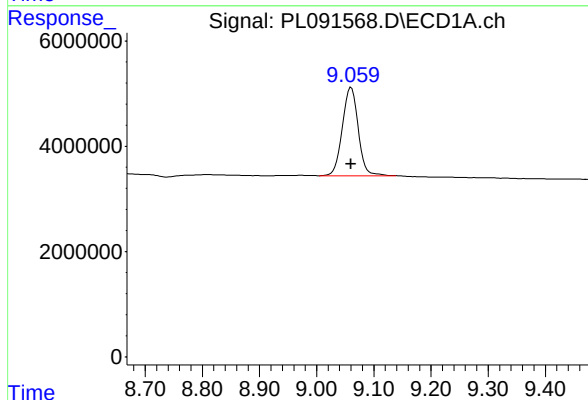
R.T.: 3.544 min
Delta R.T.: 0.000 min
Response: 37715852
Conc: 24.20 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



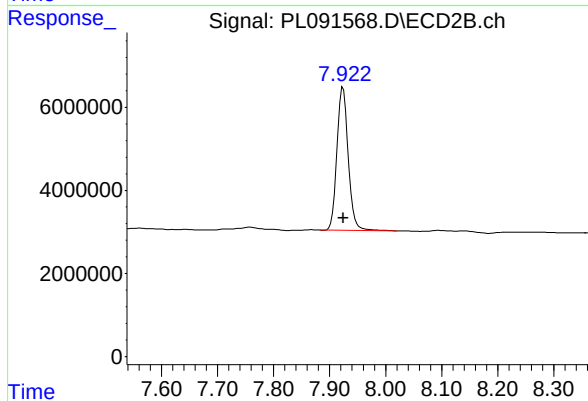
#1 Tetrachloro-m-xylene

R.T.: 2.783 min
Delta R.T.: 0.000 min
Response: 45438208
Conc: 24.29 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.000 min
Response: 32431838
Conc: 26.69 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.924 min
Delta R.T.: 0.000 min
Response: 48319649
Conc: 26.17 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/10/24
Project:	NJ Waste Water PT	Date Received:	09/10/24
Client Sample ID:	PIBLK-PL091604.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PL091604.D	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL091604.D	1		09/10/24	pl091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.4		43 - 140	92%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.0		77 - 126	95%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091024\
Data File : PL091604.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 10:57
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 05:30:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.542	2.781	29671243	34654067	19.037	18.529
28) SA Decachlor...	9.055	7.922	22318962	31969536	18.365	17.313

Target Compounds

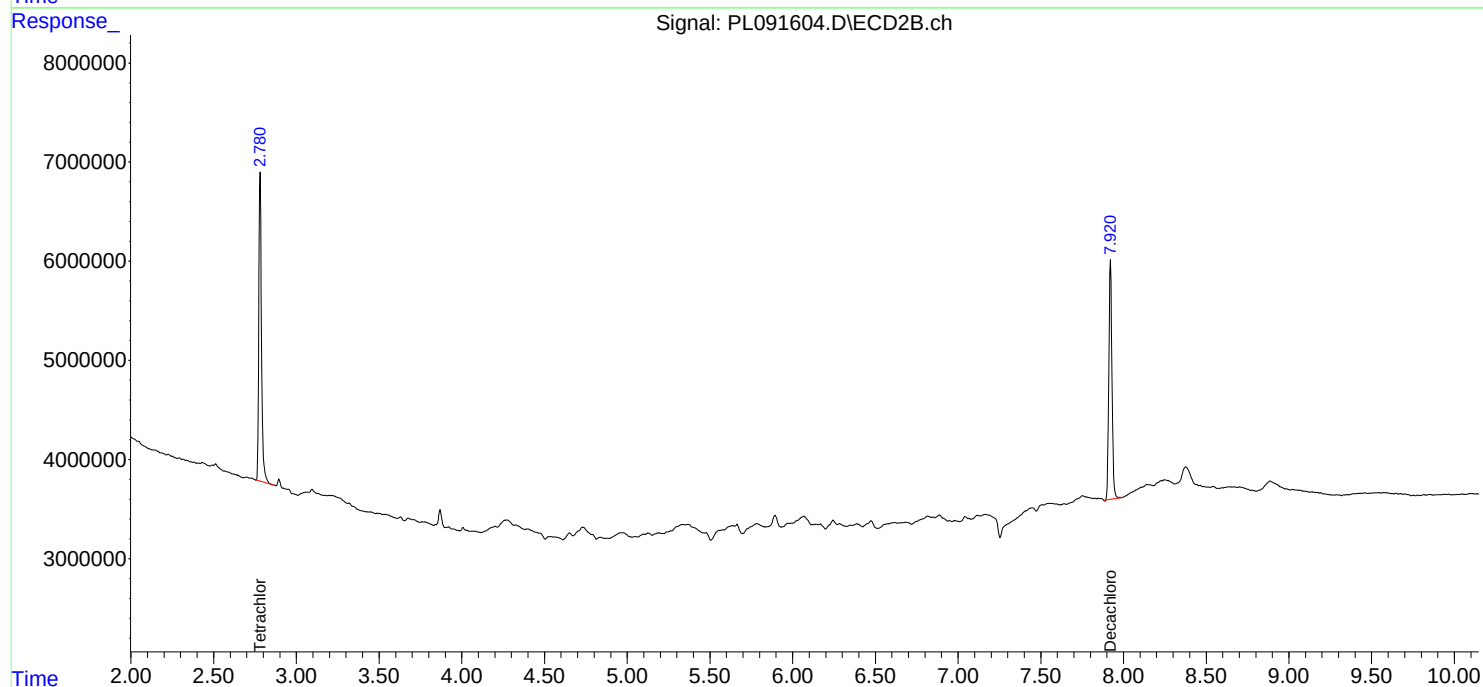
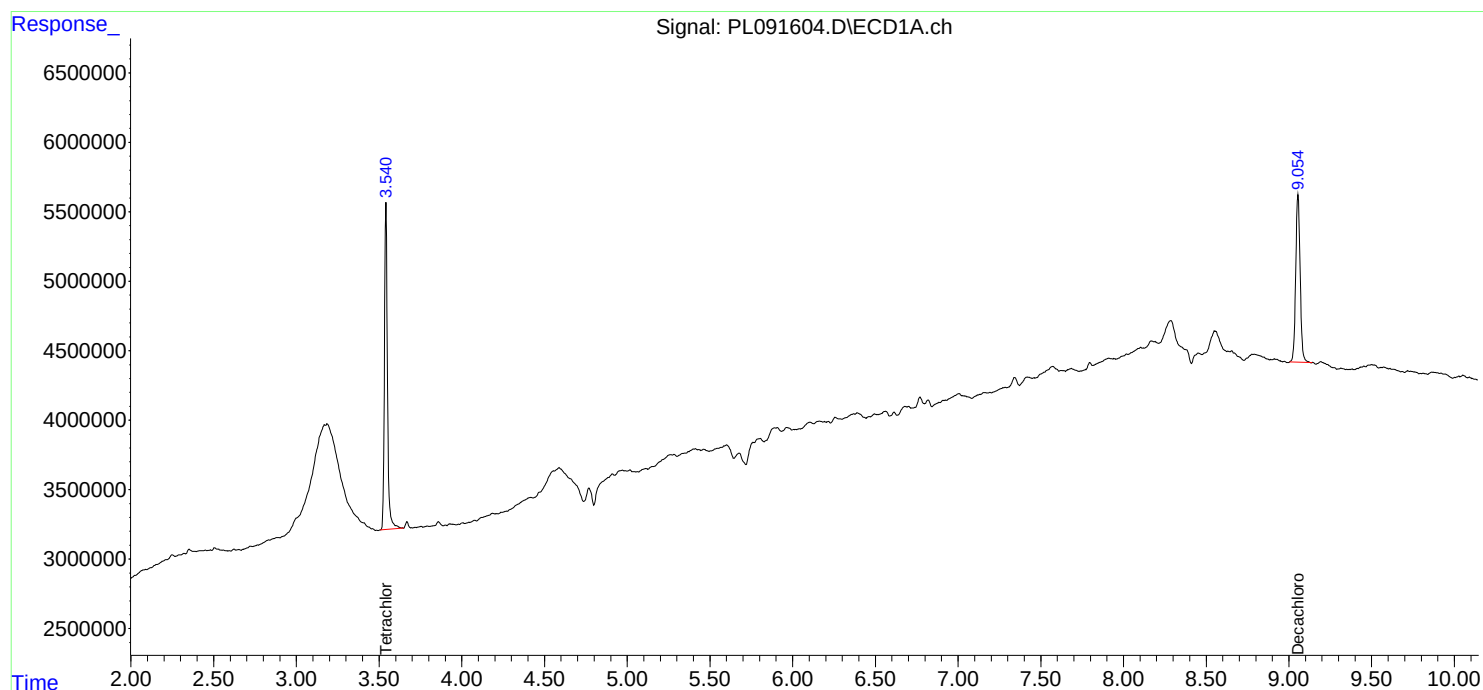
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

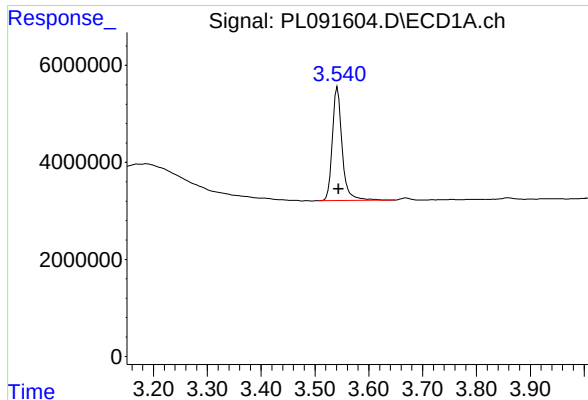
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091024\
Data File : PL091604.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 10:57
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 11 05:30:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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

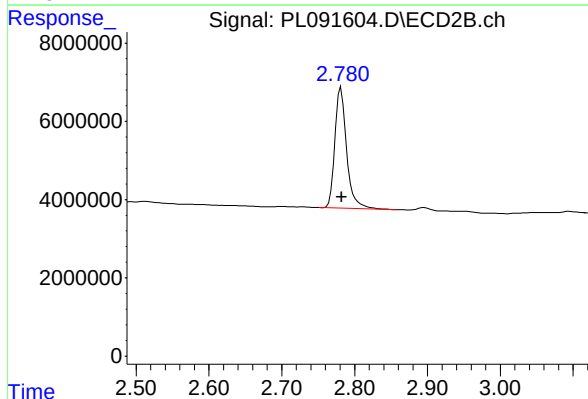




#1 Tetrachloro-m-xylene

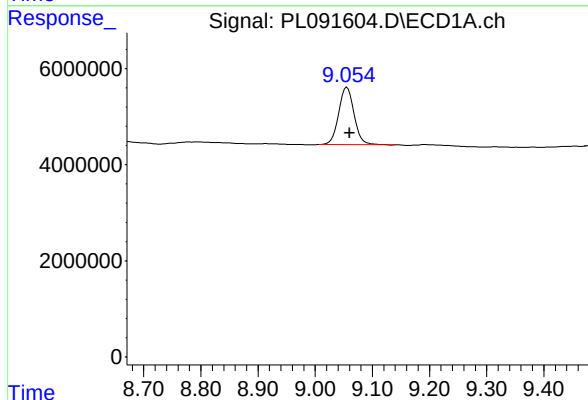
R.T.: 3.542 min
Delta R.T.: -0.002 min
Response: 29671243
Conc: 19.04 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



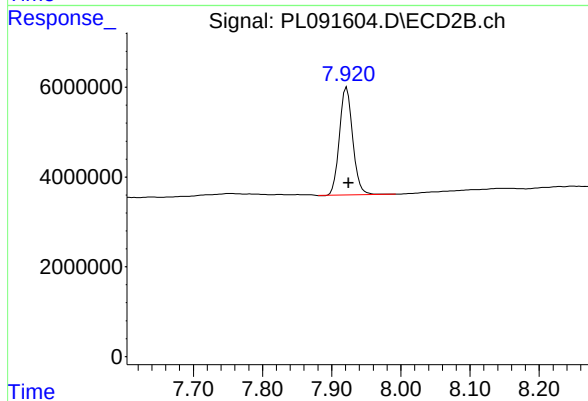
#1 Tetrachloro-m-xylene

R.T.: 2.781 min
Delta R.T.: -0.001 min
Response: 34654067
Conc: 18.53 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.055 min
Delta R.T.: -0.005 min
Response: 22318962
Conc: 18.36 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.922 min
Delta R.T.: -0.003 min
Response: 31969536
Conc: 17.31 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/10/24
Project:	NJ Waste Water PT	Date Received:	09/10/24
Client Sample ID:	PIBLK-PL091623.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PL091623.D	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL091623.D	1		09/10/24	PL091024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.3		43 - 140	102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.6		77 - 126	98%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091024\
Data File : PL091623.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 16:56
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 12 07:03:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.542	2.781	30600433	33515003	19.633	17.920
28) SA Decachlor...	9.057	7.922	24674384	36881684	20.303	19.973

Target Compounds

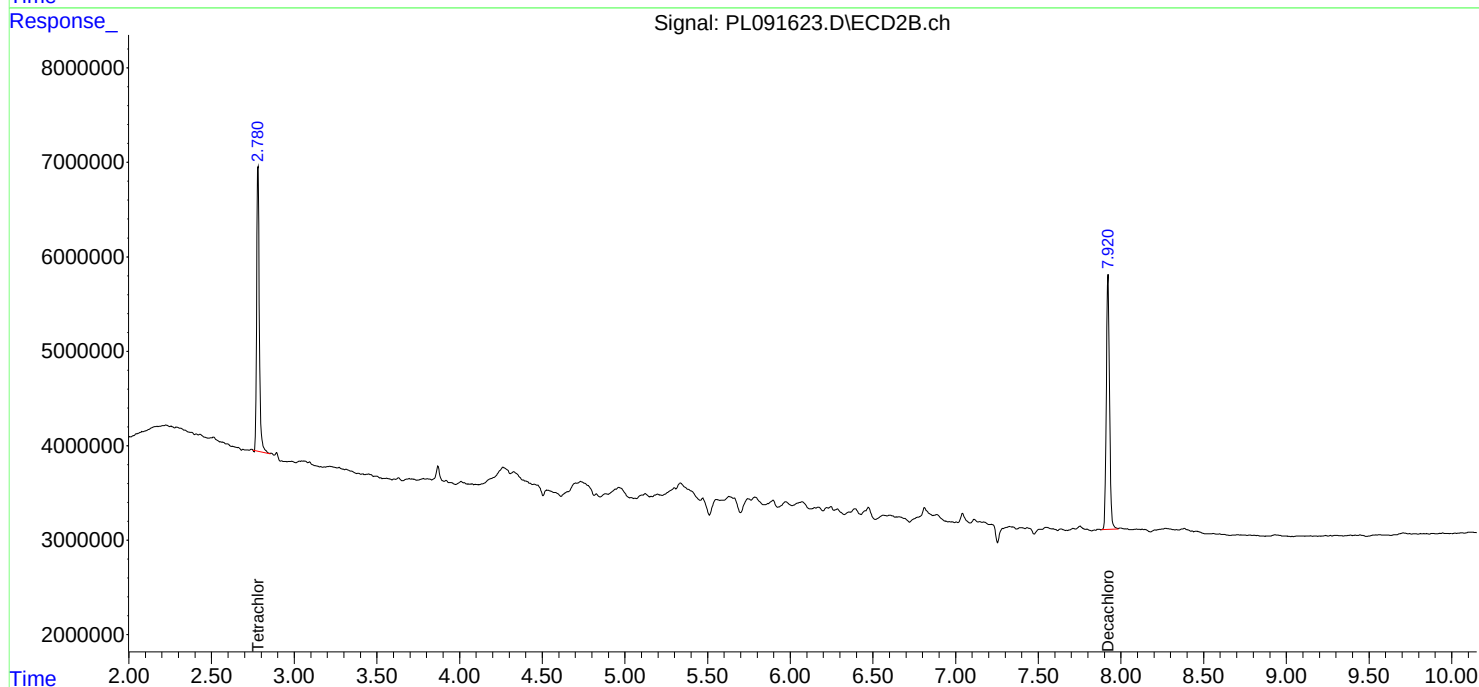
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

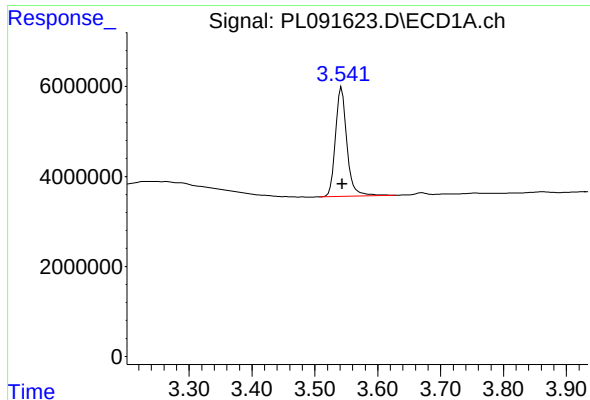
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091024\
Data File : PL091623.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2024 16:56
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 12 07:03:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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

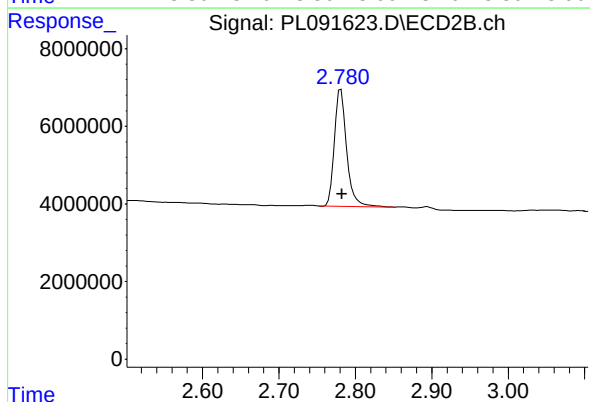




#1 Tetrachloro-m-xylene

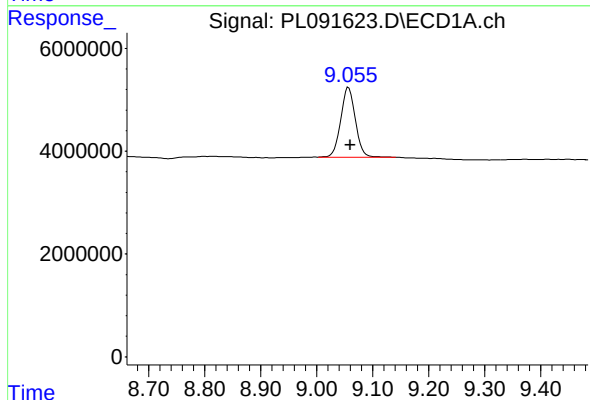
R.T.: 3.542 min
Delta R.T.: -0.002 min
Response: 30600433
Conc: 19.63 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



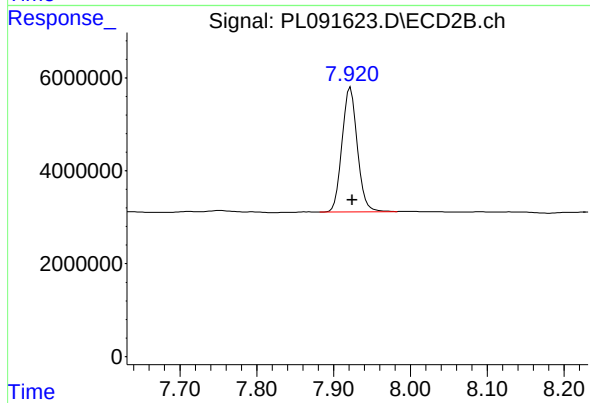
#1 Tetrachloro-m-xylene

R.T.: 2.781 min
Delta R.T.: -0.002 min
Response: 33515003
Conc: 17.92 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.057 min
Delta R.T.: -0.003 min
Response: 24674384
Conc: 20.30 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.922 min
Delta R.T.: -0.003 min
Response: 36881684
Conc: 19.97 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/17/24
Project:	NJ Waste Water PT	Date Received:	09/17/24
Client Sample ID:	PIBLK-PL091777.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PL091777.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PESTICIDE Group2
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL091777.D	1		09/17/24	pl091724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.9		43 - 140	115%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.3		77 - 126	111%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091724\
Data File : PL091777.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Sep 2024 11:20
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 18 01:09:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.542	2.780	34711610	37484192	22.271	20.042
28) SA Decachlor...	9.057	7.922	27826432	40796037	22.896	22.093

Target Compounds

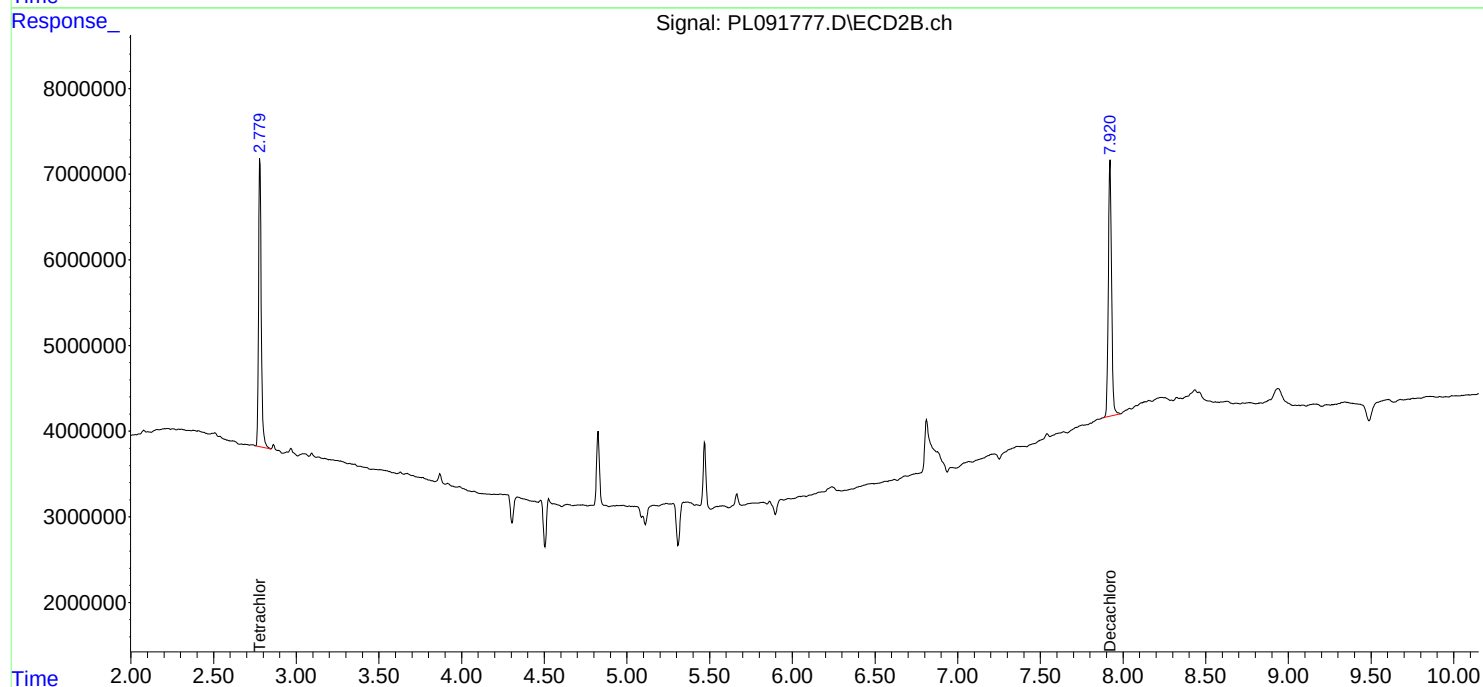
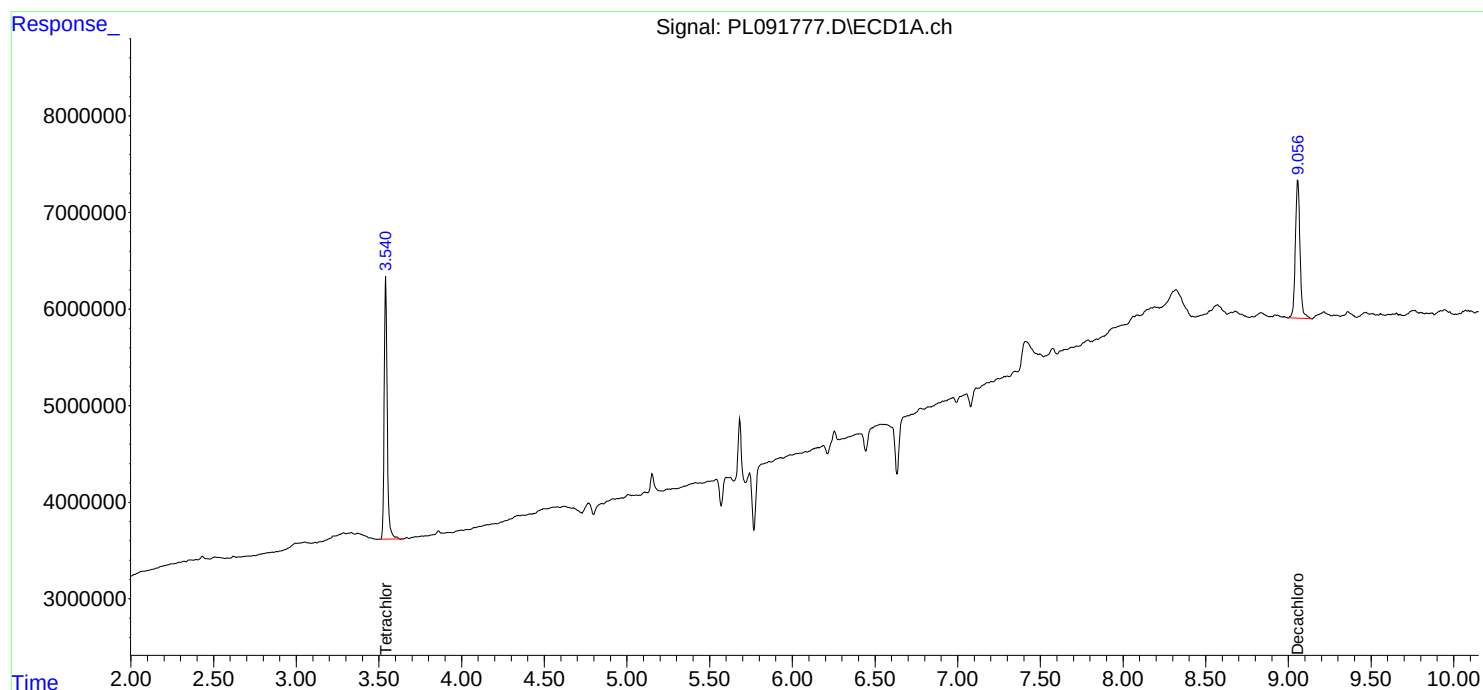
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

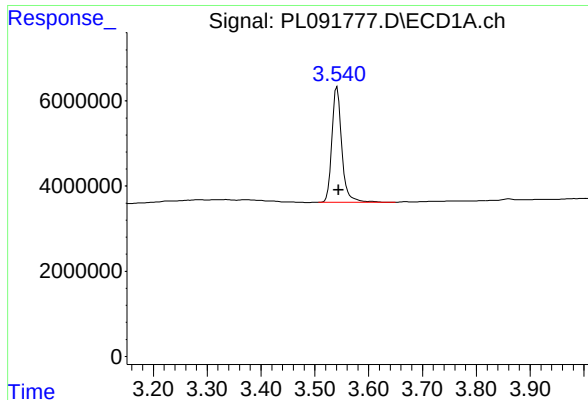
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091724\
Data File : PL091777.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Sep 2024 11:20
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 18 01:09:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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

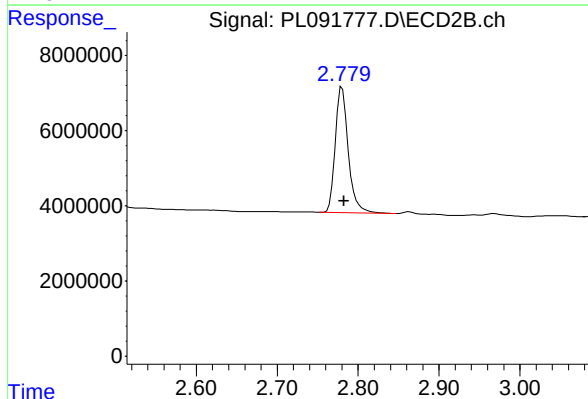




#1 Tetrachloro-m-xylene

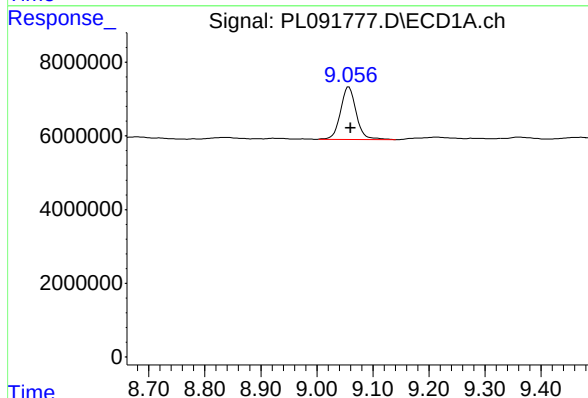
R.T.: 3.542 min
Delta R.T.: -0.002 min
Response: 34711610
Conc: 22.27 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



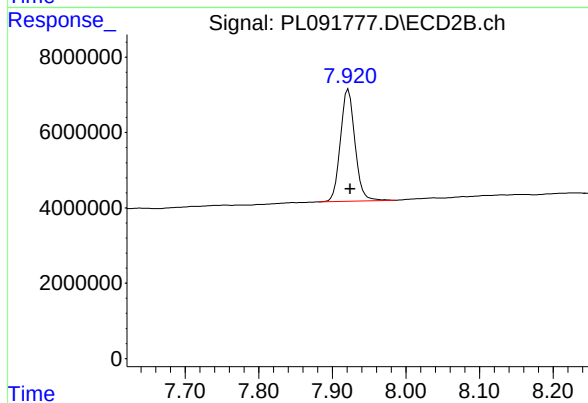
#1 Tetrachloro-m-xylene

R.T.: 2.780 min
Delta R.T.: -0.002 min
Response: 37484192
Conc: 20.04 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.057 min
Delta R.T.: -0.003 min
Response: 27826432
Conc: 22.90 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.922 min
Delta R.T.: -0.003 min
Response: 40796037
Conc: 22.09 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group		Date Collected:	09/17/24	
Project:	NJ Waste Water PT		Date Received:	09/17/24	
Client Sample ID:	PIBLK-PL091784.D		SDG No.:	P3845	
Lab Sample ID:	I.BLK-PL091784.D		Matrix:	WATER	
Analytical Method:	SW8081		% 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
PL091784.D	1		09/17/24	pl091724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.3		43 - 140	122%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.0		77 - 126	120%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091724\
Data File : PL091784.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Sep 2024 14:50
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 18 01:11:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.539	2.781	37471378	40034118	24.042	21.405
28) SA Decachlor...	9.055	7.921	28647462	44901734	23.572	24.317

Target Compounds

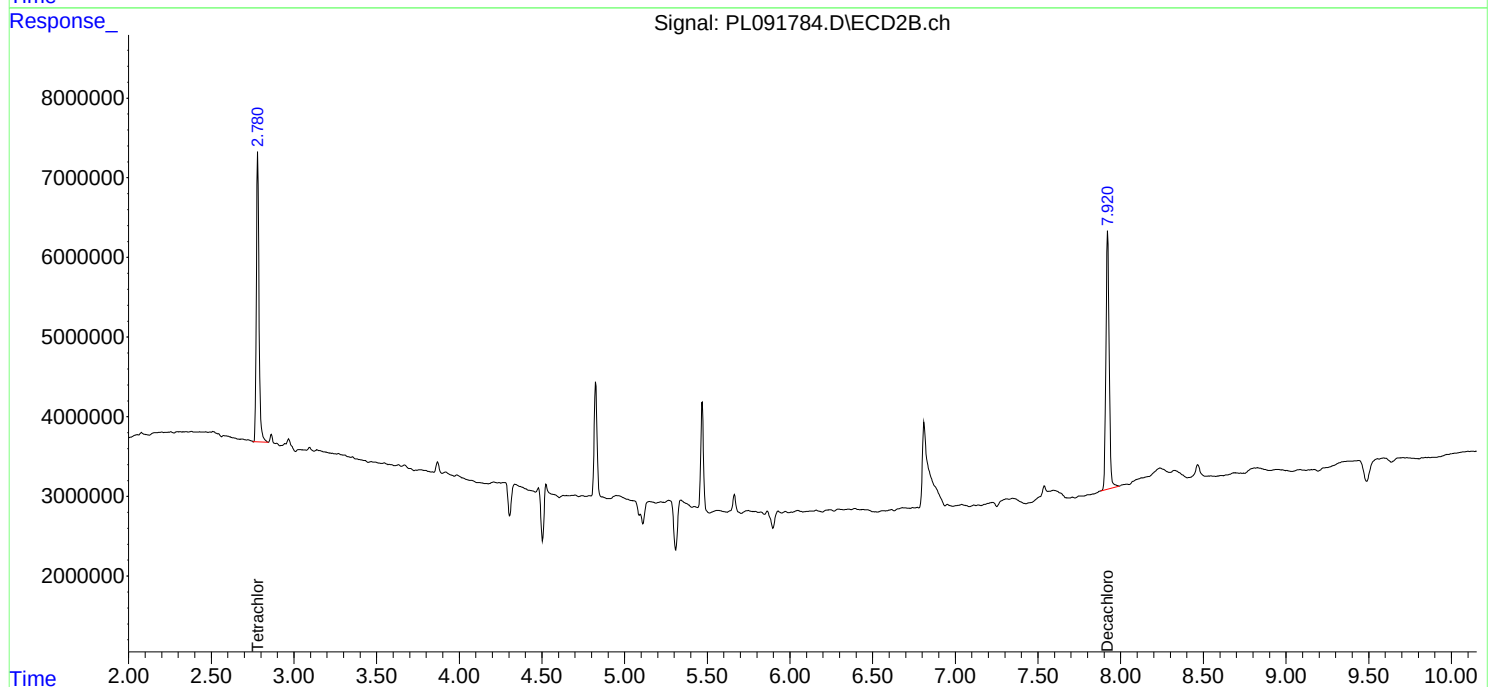
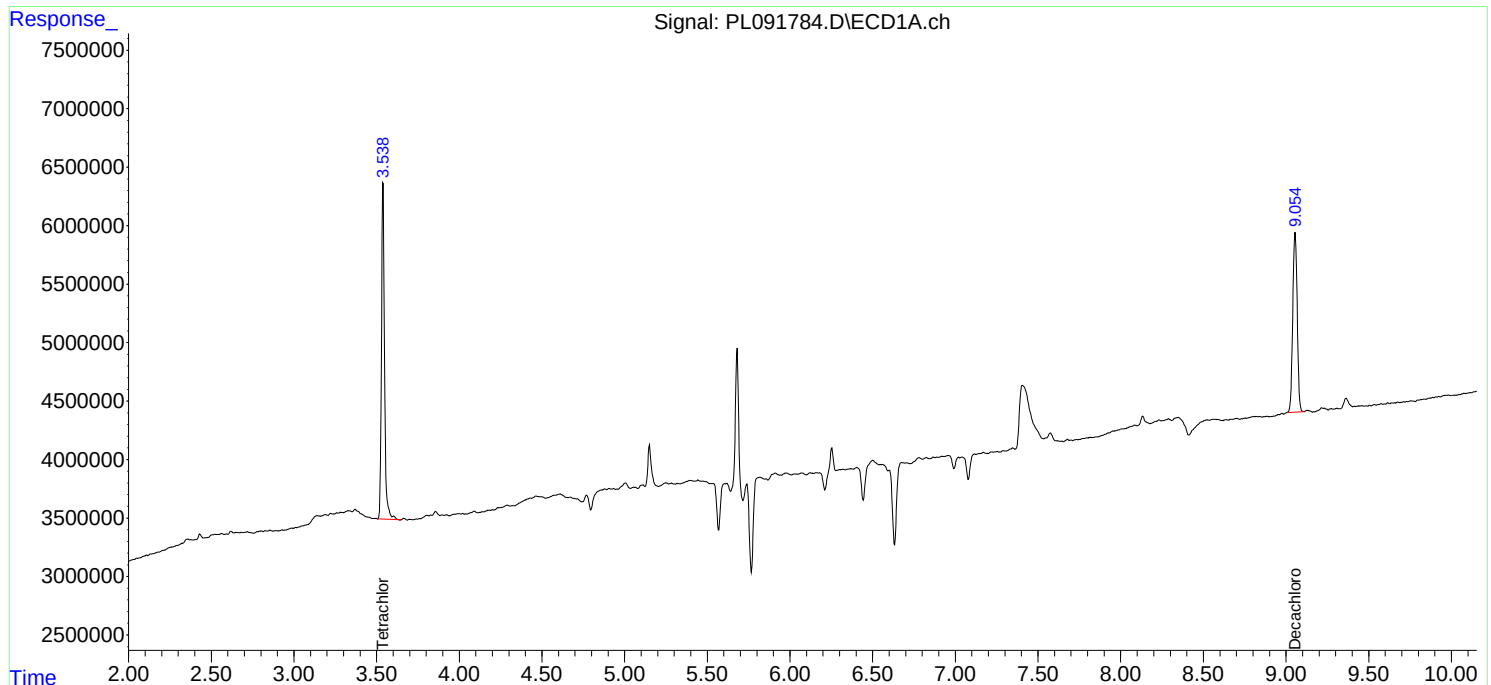
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

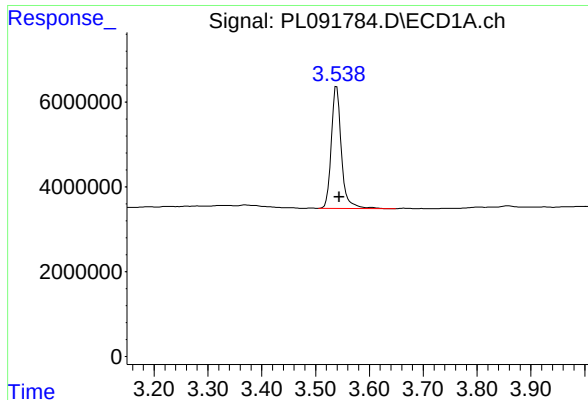
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091724\
Data File : PL091784.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Sep 2024 14:50
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 18 01:11:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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

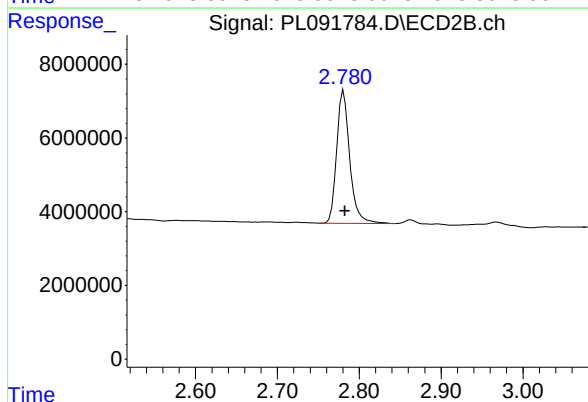




#1 Tetrachloro-m-xylene

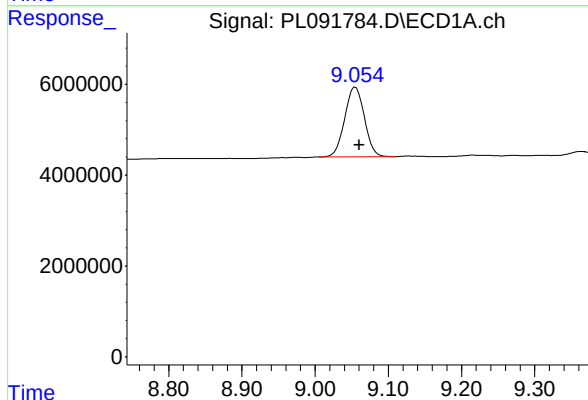
R.T.: 3.539 min
Delta R.T.: -0.005 min
Response: 37471378
Conc: 24.04 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



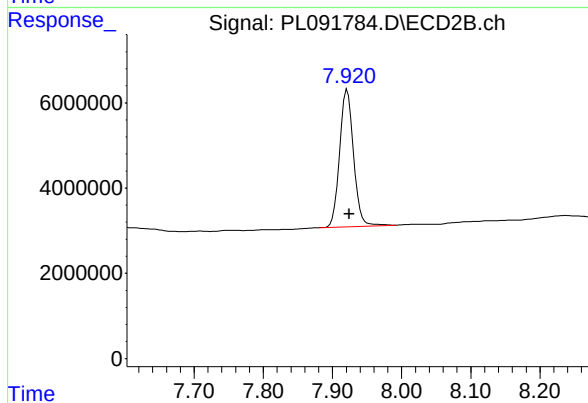
#1 Tetrachloro-m-xylene

R.T.: 2.781 min
Delta R.T.: -0.002 min
Response: 40034118
Conc: 21.41 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.055 min
Delta R.T.: -0.005 min
Response: 28647462
Conc: 23.57 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.921 min
Delta R.T.: -0.003 min
Response: 44901734
Conc: 24.32 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/23/24
Project:	NJ Waste Water PT	Date Received:	09/23/24
Client Sample ID:	PIBLK-PL091953.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PL091953.D	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL091953.D	1		09/23/24	PL092324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.6		43 - 140	98%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.0		77 - 126	95%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091953.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 10:52
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 14:04:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 14:03:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.544	2.782	42236372	45921989	18.986	18.310
28) SA Decachlor...	9.060	7.923	32124664	46897103	19.609	18.744

Target Compounds

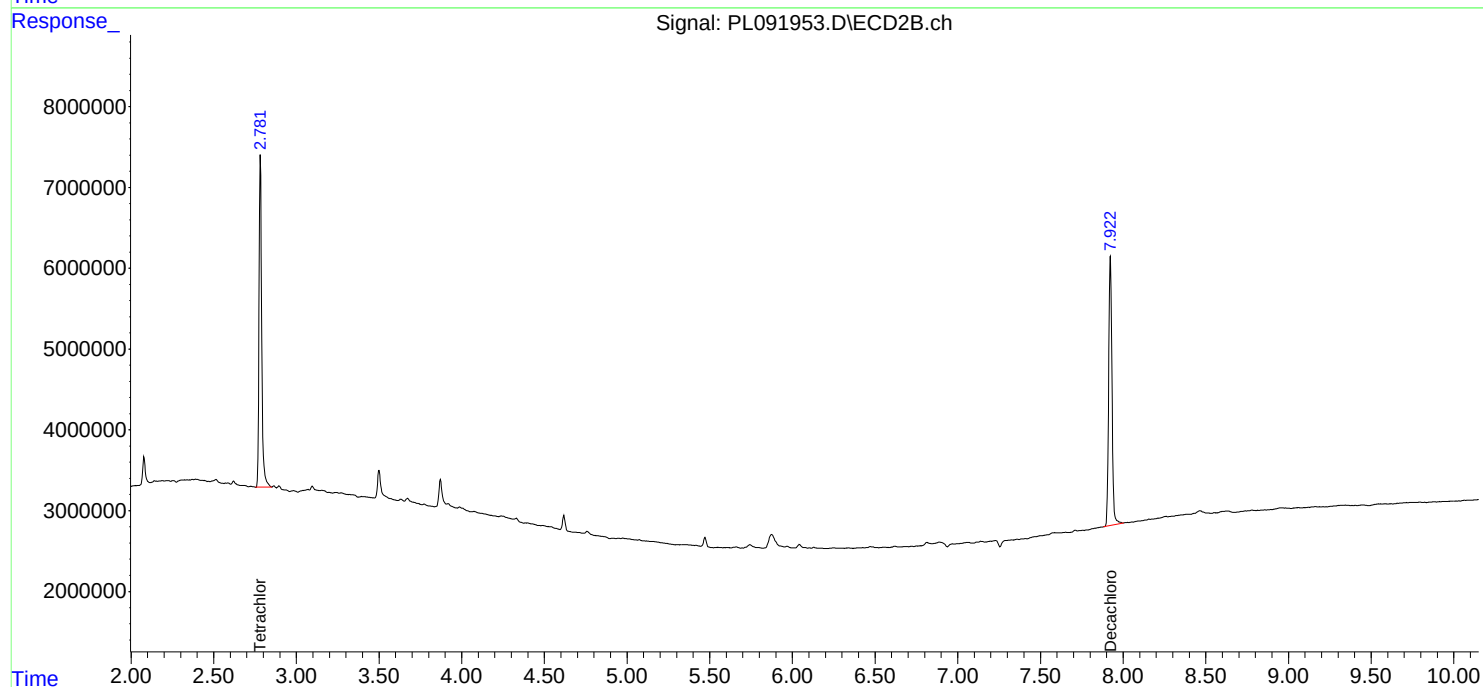
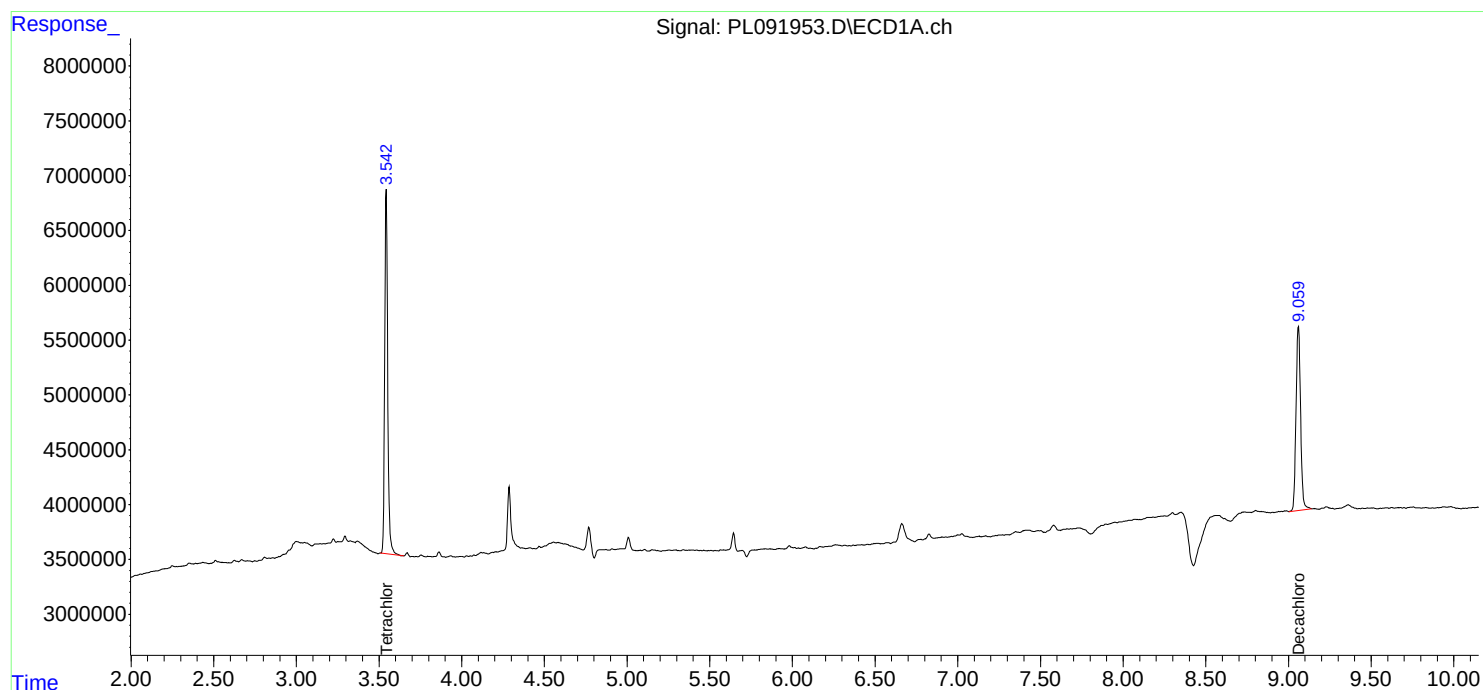
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

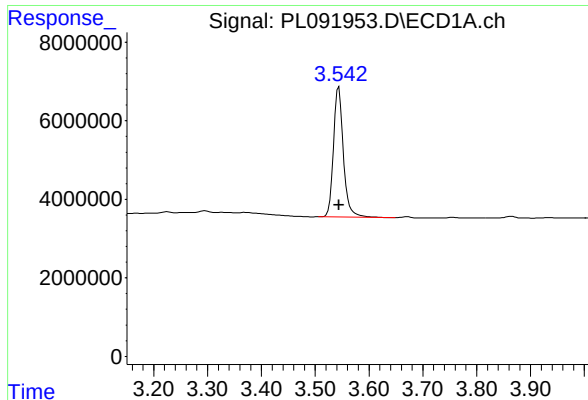
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092324\
Data File : PL091953.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Sep 2024 10:52
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 23 14:04:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 14:03:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

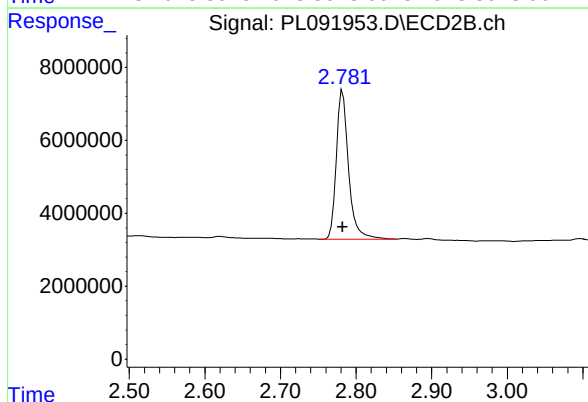




#1 Tetrachloro-m-xylene

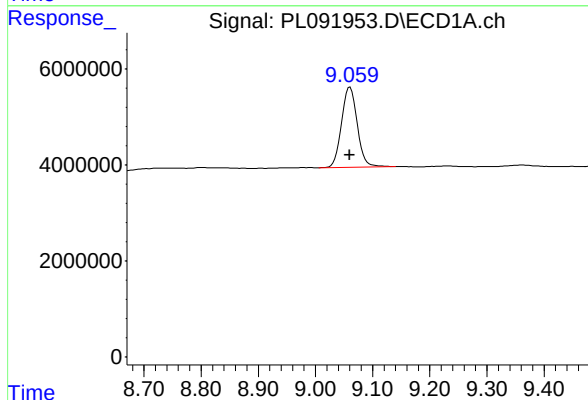
R.T.: 3.544 min
Delta R.T.: 0.000 min
Response: 42236372
Conc: 18.99 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



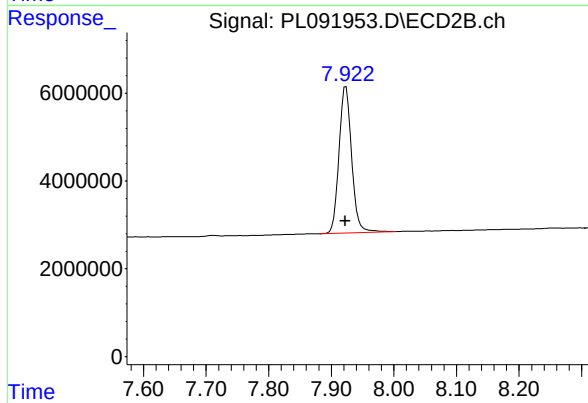
#1 Tetrachloro-m-xylene

R.T.: 2.782 min
Delta R.T.: 0.000 min
Response: 45921989
Conc: 18.31 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.000 min
Response: 32124664
Conc: 19.61 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 46897103
Conc: 18.74 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/24/24
Project:	NJ Waste Water PT	Date Received:	09/24/24
Client Sample ID:	PIBLK-PL091991.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PL091991.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PESTICIDE Group2
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL091991.D	1		09/24/24	PL092424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.7		43 - 140	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.3		77 - 126	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_L\Data\PL092424\
Data File : PL091991.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 09:28
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 01:16:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.545	2.782	45103558	49097982	20.274	19.576
28)	SA Decachlor...	9.061	7.923	33923814	48894949	20.708	19.543

Target Compounds

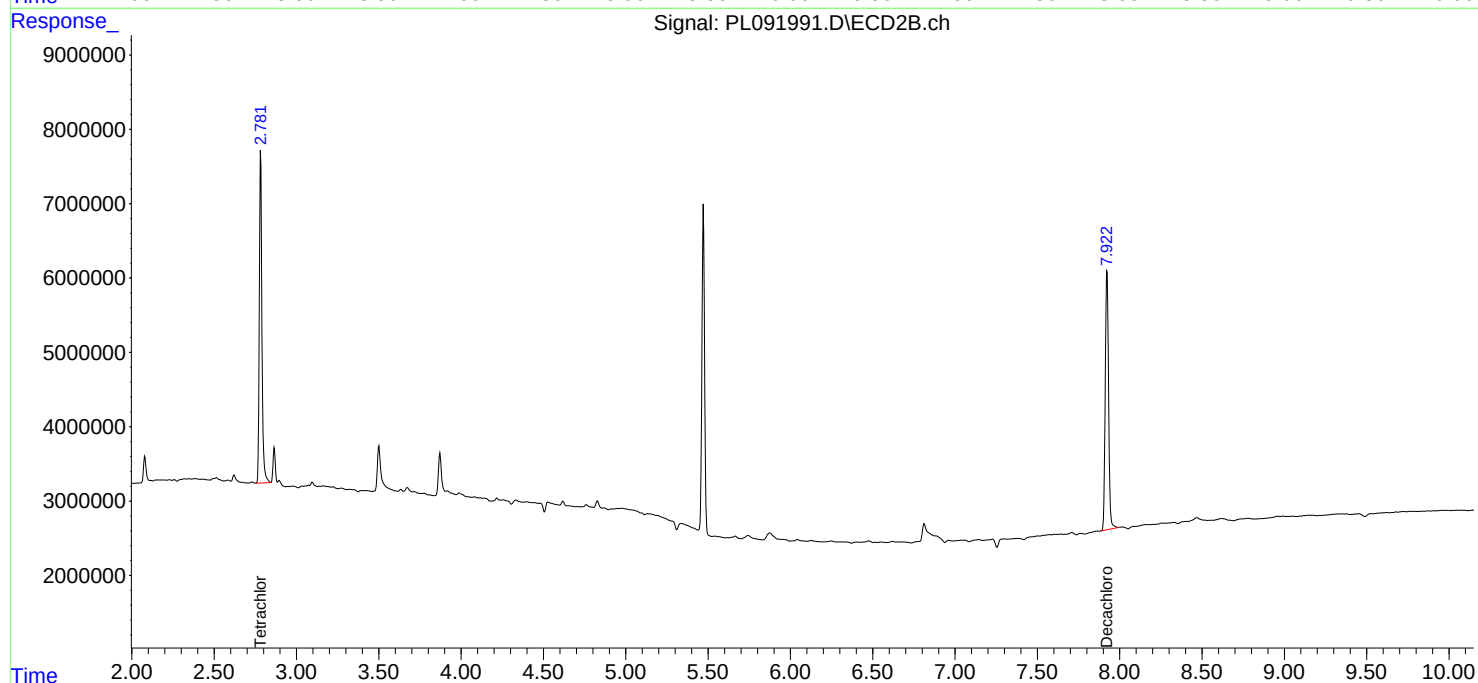
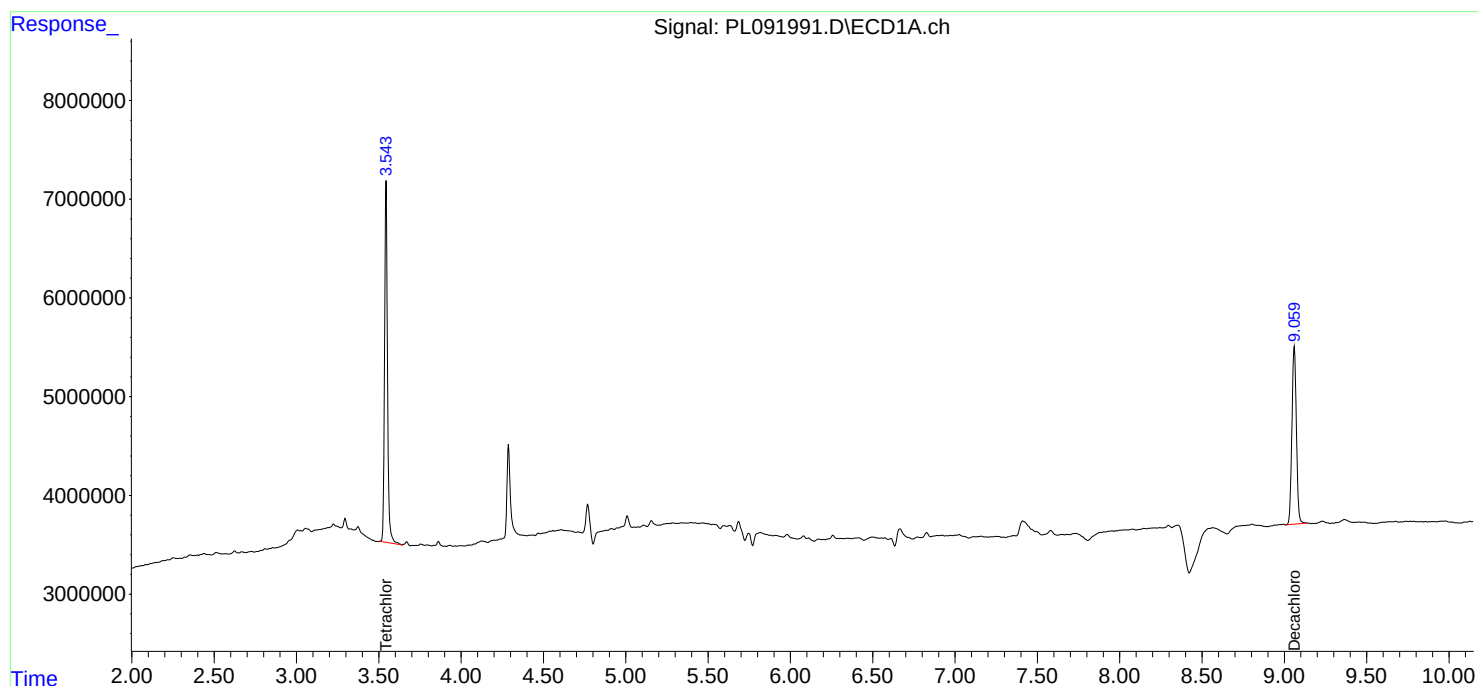
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

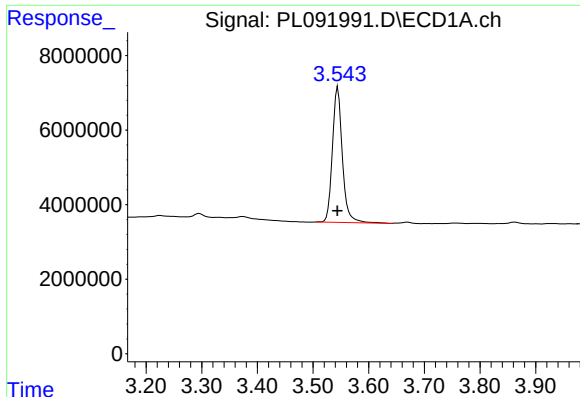
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092424\
Data File : PL091991.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 09:28
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 01:16:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 2024
Response via : Initial Calibration
Integrator: ChemStation

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

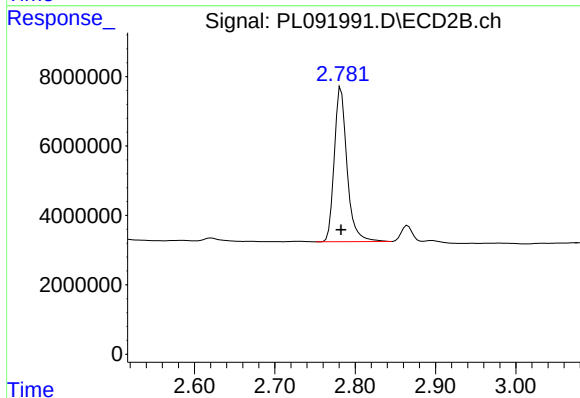




#1 Tetrachloro-m-xylene

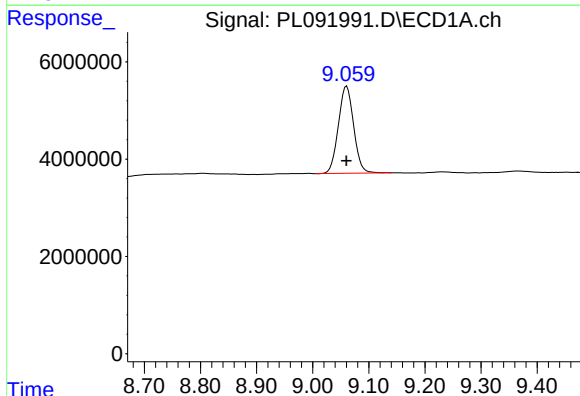
R.T.: 3.545 min
Delta R.T.: 0.000 min
Response: 45103558
Conc: 20.27 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



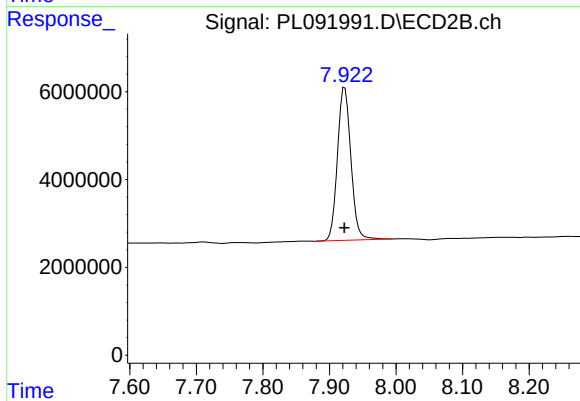
#1 Tetrachloro-m-xylene

R.T.: 2.782 min
Delta R.T.: 0.000 min
Response: 49097982
Conc: 19.58 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min
Delta R.T.: 0.000 min
Response: 33923814
Conc: 20.71 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 48894949
Conc: 19.54 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/24/24
Project:	NJ Waste Water PT	Date Received:	09/24/24
Client Sample ID:	PIBLK-PL092002.D	SDG No.:	P3845
Lab Sample ID:	I.BLK-PL092002.D	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL092002.D	1		09/24/24	PL092424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.9		43 - 140	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.0		77 - 126	100%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092424\
Data File : PL092002.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 14:08
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 01:18:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 2024
Response via : Initial Calibration
Integrator: ChemStation

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

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

System Monitoring Compounds							
1)	SA Tetrachlo...	3.544	2.783	44399966	48843118	19.958	19.474
28)	SA Decachlor...	9.061	7.923	34165687	50902131	20.855	20.345

Target Compounds

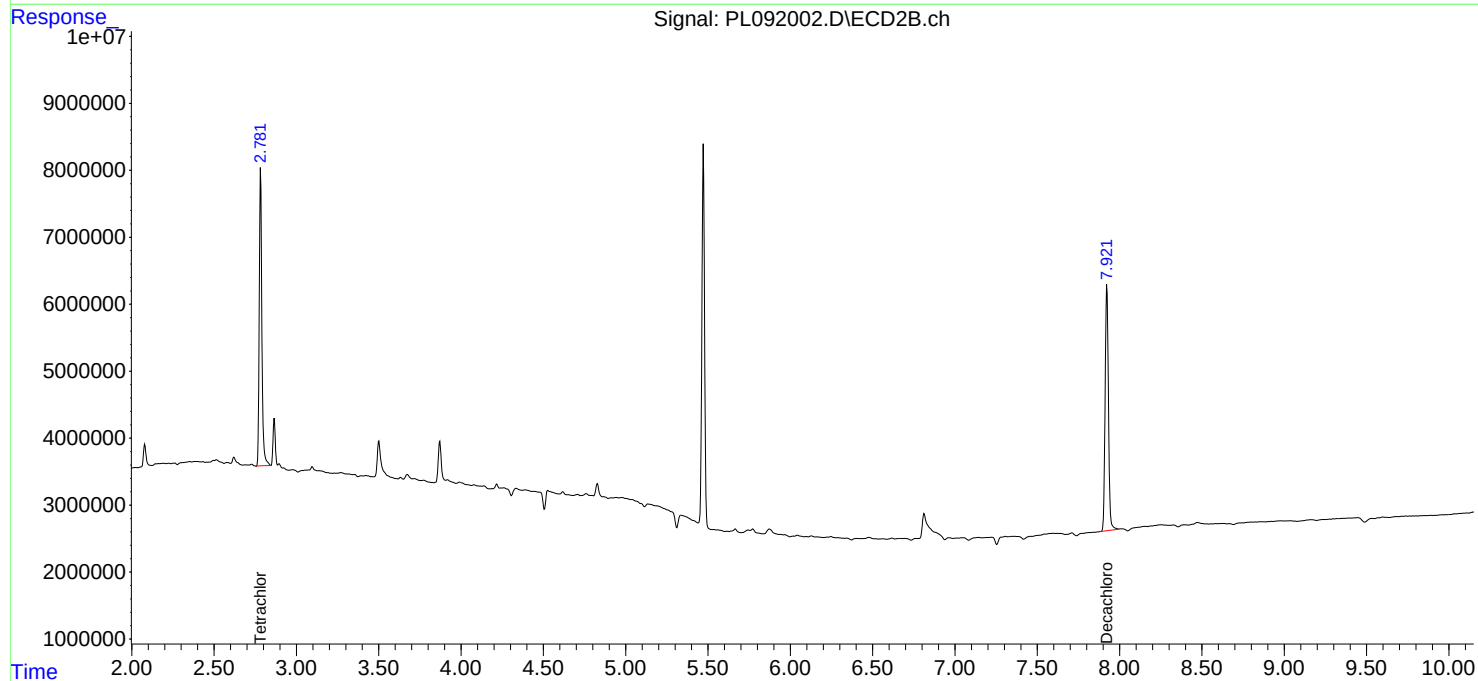
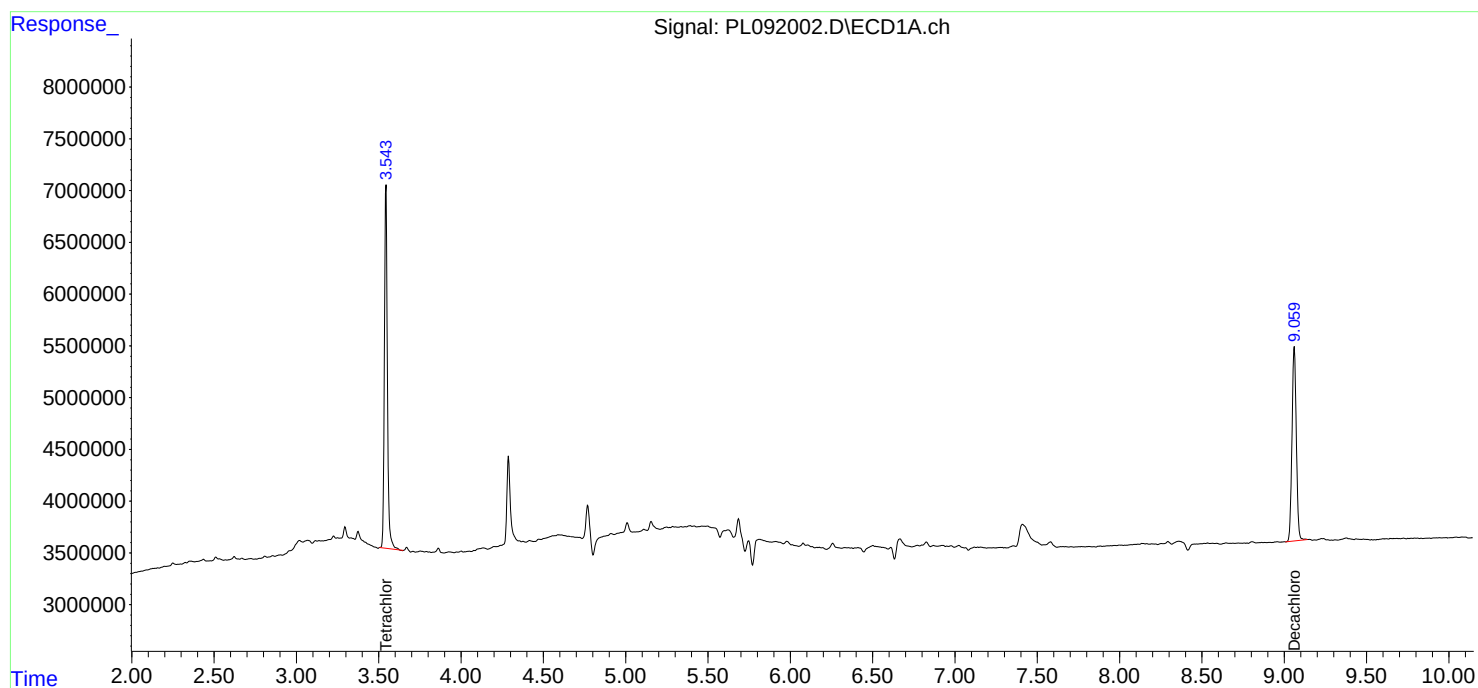
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

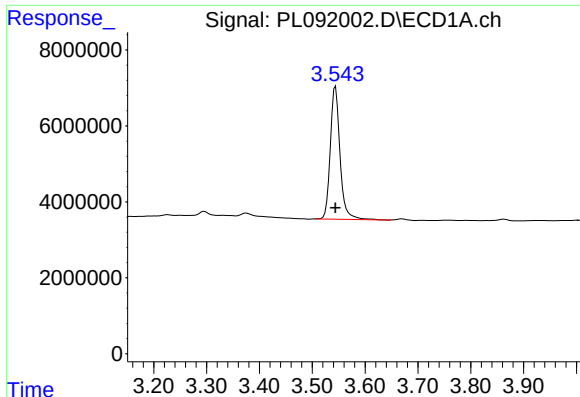
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL092424\
Data File : PL092002.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Sep 2024 14:08
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 01:18:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL092324.M
Quant Title : GC Extractables
QLast Update : Mon Sep 23 16:44:57 2024
Response via : Initial Calibration
Integrator: ChemStation

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

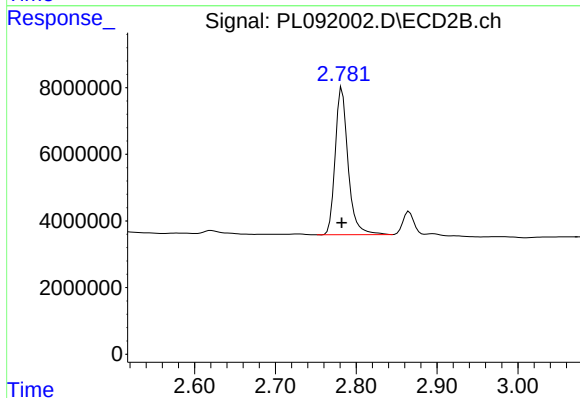




#1 Tetrachloro-m-xylene

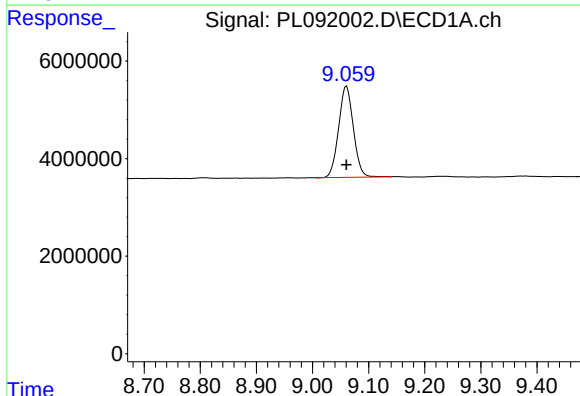
R.T.: 3.544 min
Delta R.T.: 0.000 min
Response: 44399966
Conc: 19.96 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



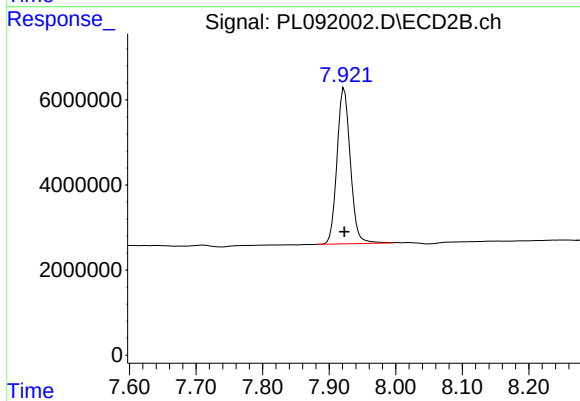
#1 Tetrachloro-m-xylene

R.T.: 2.783 min
Delta R.T.: 0.000 min
Response: 48843118
Conc: 19.47 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min
Delta R.T.: 0.000 min
Response: 34165687
Conc: 20.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 50902131
Conc: 20.35 ng/ml

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163230BS	SDG No.:	P3845
Lab Sample ID:	PB163230BS	Matrix:	WATER
Analytical Method:	SW8081	% 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
PL091781.D	1	09/09/24 10:00	09/17/24 12:40	PB163230

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
57-74-9	Chlordane	2.10		0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.6		43 - 140	113%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.6		77 - 126	118%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091724\
 Data File : PL091781.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Sep 2024 12:40
 Operator : AR\AJ
 Sample : PB163230BS
 Misc : BS/CHLOR
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PB163230BS

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 09/18/2024

Supervised By :Ankita Jodhani 09/18/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 18 01:11:02 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
 Quant Title : GC Extractables
 QLast Update : Mon Sep 09 19:26:36 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds						
1) SA Tetrachlo...	3.548	2.780	32281365	44195133	20.712	23.630
28) SA Decachlor...	9.065	7.925	27458684	40212891	22.594	21.777
Target Compounds						
23) Chlordane-1	4.708	3.780	13705346	13334730	220.074m	191.688
24) Chlordane-2	5.239	4.358	15235802	16062289	198.171	214.302
25) Chlordane-3	5.948	4.989	52542829	43962012	204.527m	188.564
26) Chlordane-4	6.031	5.052	64122284	42838876	216.515	205.430
27) Chlordane-5	6.880	5.948	12311791	15608703	215.704	217.814

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL091724\
Data File : PL091781.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Sep 2024 12:40
Operator : AR\AJ
Sample : PB163230BS
Misc : BS/CHLOR
ALS Vial : 6 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PB163230BS

Manual Integrations

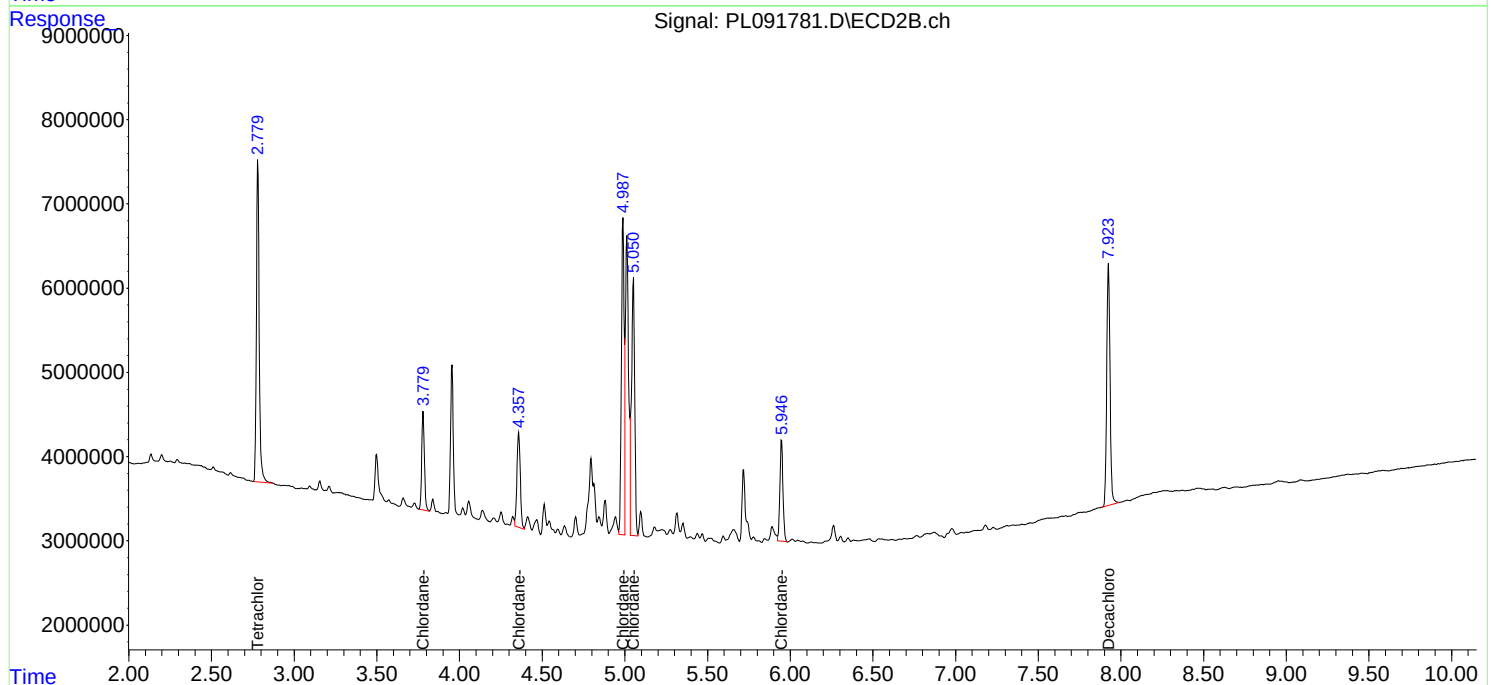
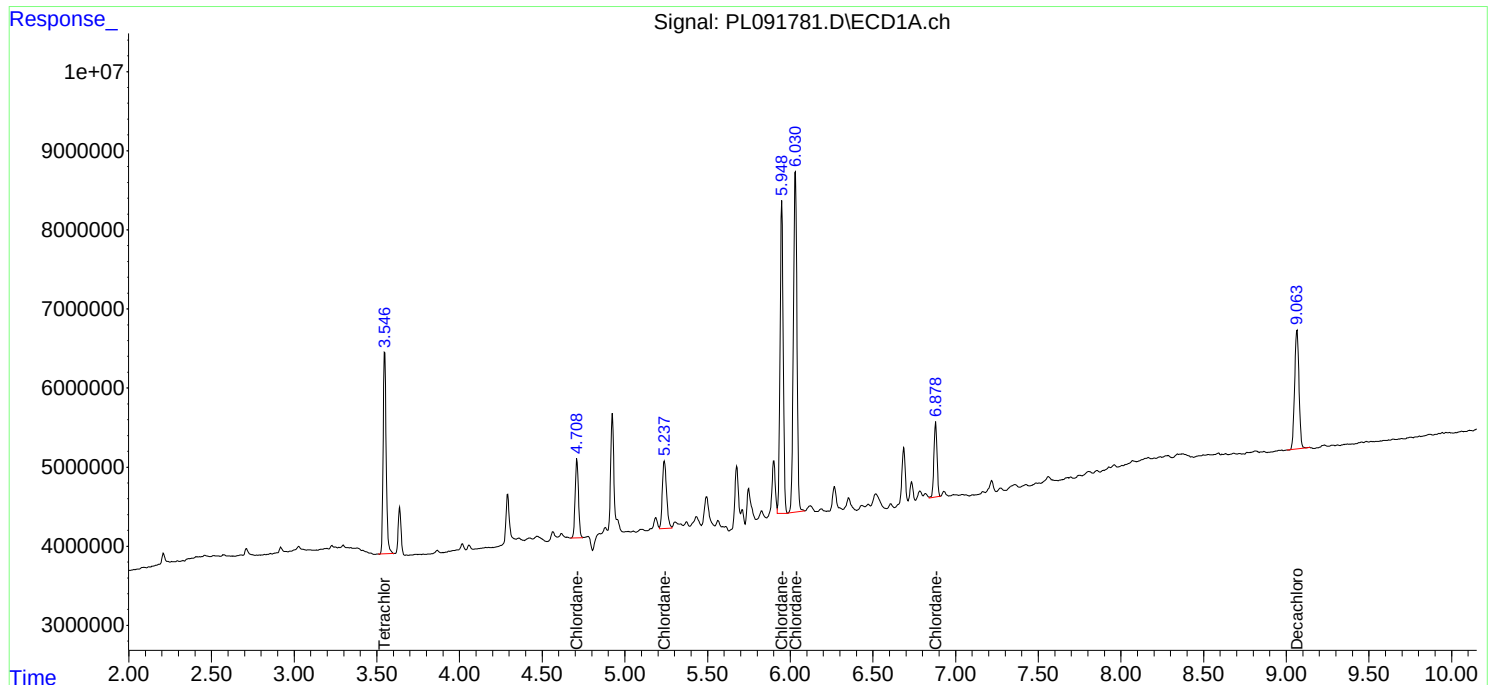
APPROVED

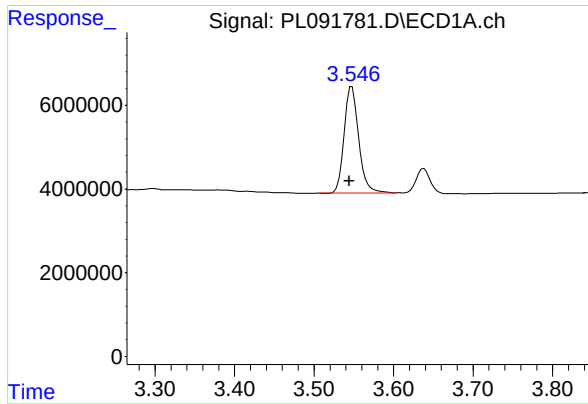
Reviewed By :Abdul Mirza 09/18/2024

Supervised By :Ankita Jodhani 09/18/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 18 01:11:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL090924.M
Quant Title : GC Extractables
QLast Update : Mon Sep 09 19:26:36 2024
Response via : Initial Calibration
Integrator: ChemStation

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





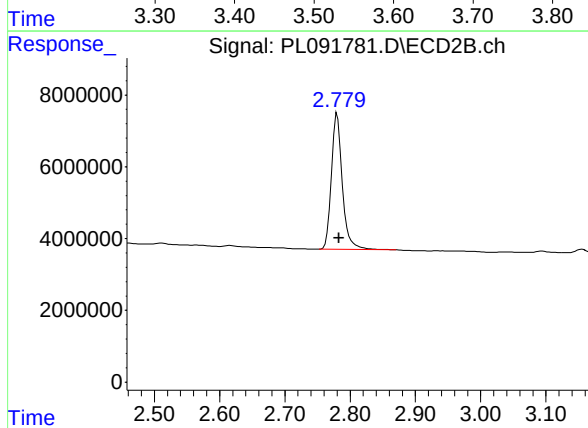
#1 Tetrachloro-m-xylene

R.T.: 3.548 min
Delta R.T.: 0.004 min
Response: 32281365
Conc: 20.71 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB163230BS

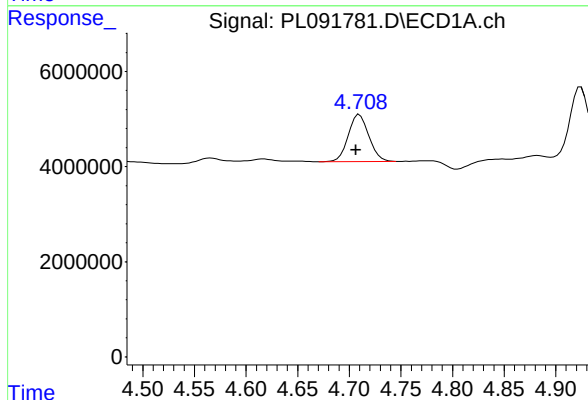
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/18/2024
Supervised By :Ankita Jodhani 09/18/2024



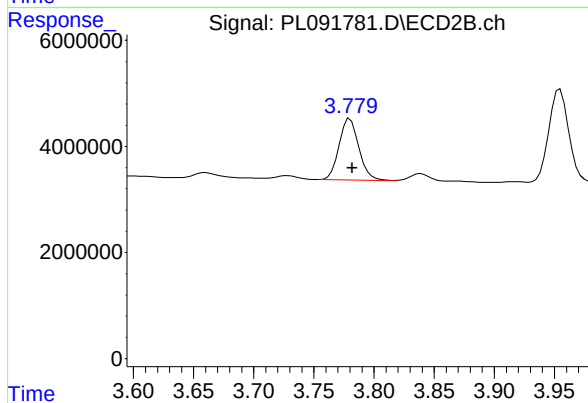
#1 Tetrachloro-m-xylene

R.T.: 2.780 min
Delta R.T.: -0.002 min
Response: 44195133
Conc: 23.63 ng/ml



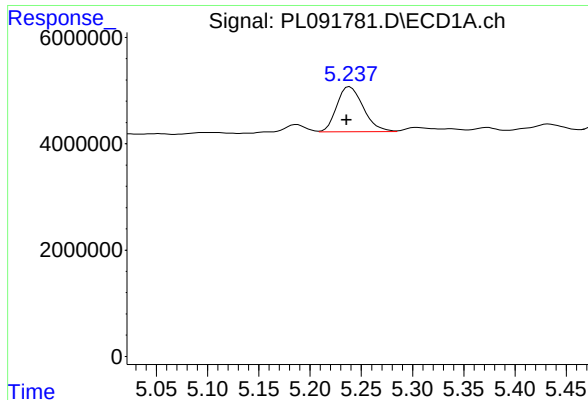
#23 Chlordane-1

R.T.: 4.708 min
Delta R.T.: 0.002 min
Response: 13705346
Conc: 220.07 ng/ml m



#23 Chlordane-1

R.T.: 3.780 min
Delta R.T.: -0.002 min
Response: 13334730
Conc: 191.69 ng/ml



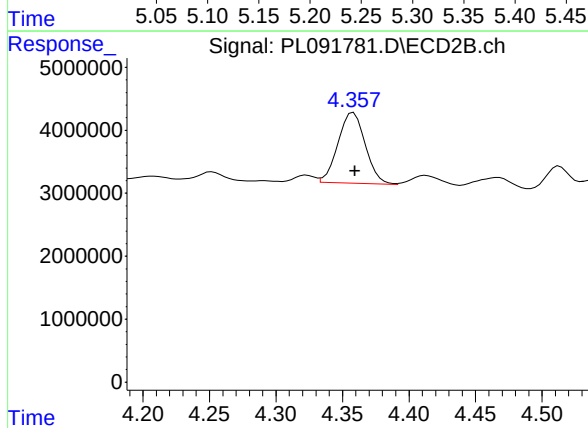
#24 Chlordane-2

R.T.: 5.239 min
Delta R.T.: 0.003 min
Response: 15235802
Conc: 198.17 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB163230BS

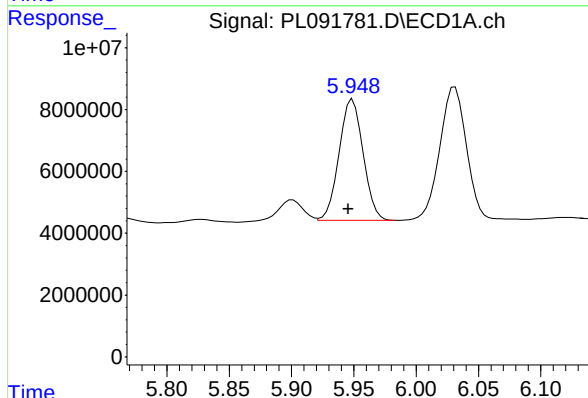
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/18/2024
Supervised By :Ankita Jodhani 09/18/2024



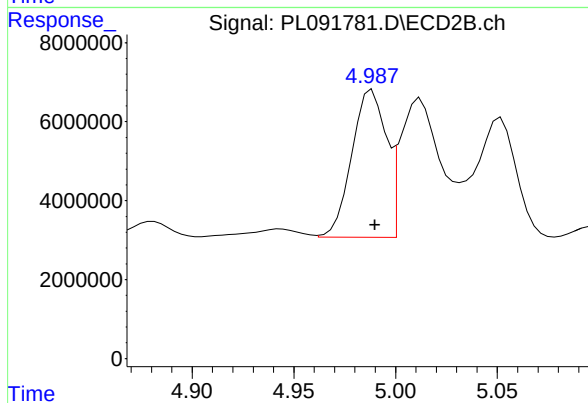
#24 Chlordane-2

R.T.: 4.358 min
Delta R.T.: -0.001 min
Response: 16062289
Conc: 214.30 ng/ml



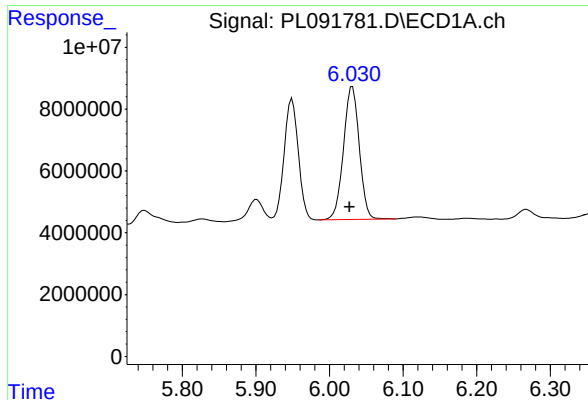
#25 Chlordane-3

R.T.: 5.948 min
Delta R.T.: 0.002 min
Response: 52542829
Conc: 204.53 ng/ml m



#25 Chlordane-3

R.T.: 4.989 min
Delta R.T.: -0.001 min
Response: 43962012
Conc: 188.56 ng/ml



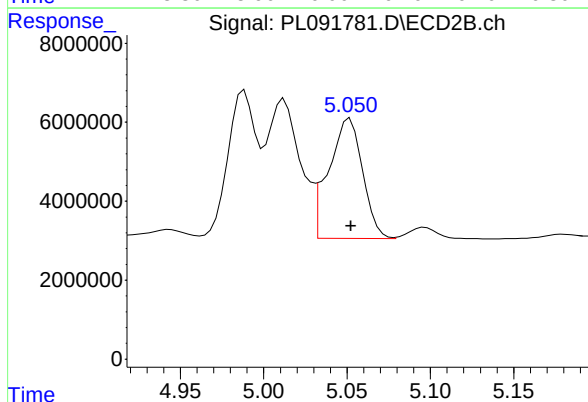
#26 Chlordane-4

R.T.: 6.031 min
Delta R.T.: 0.004 min
Response: 64122284
Conc: 216.51 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB163230BS

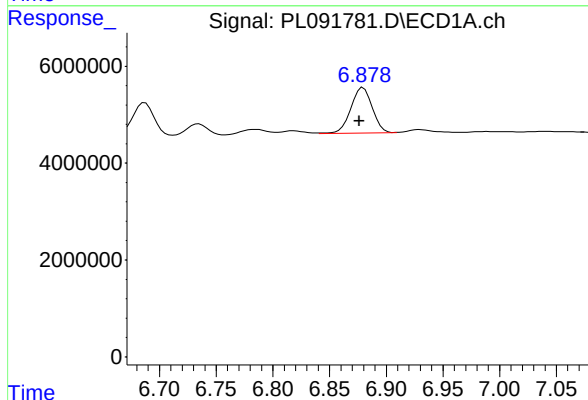
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/18/2024
Supervised By :Ankita Jodhani 09/18/2024



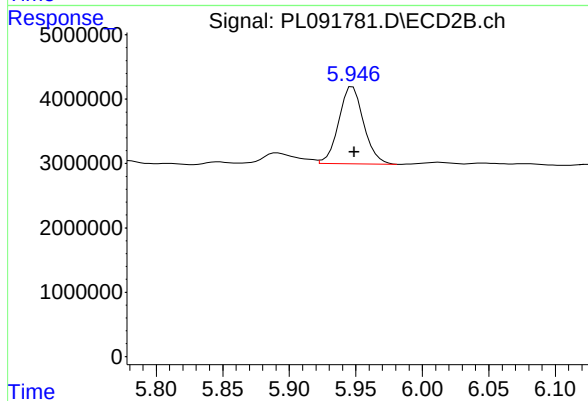
#26 Chlordane-4

R.T.: 5.052 min
Delta R.T.: 0.000 min
Response: 42838876
Conc: 205.43 ng/ml



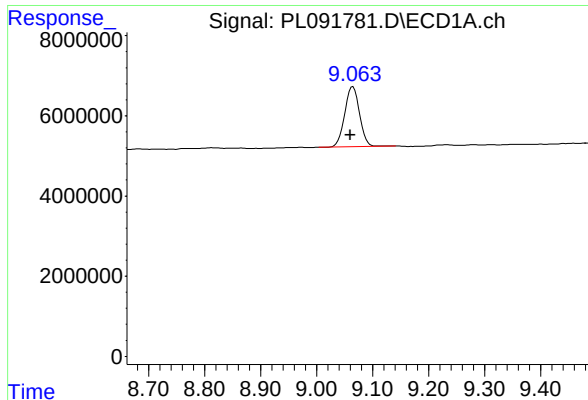
#27 Chlordane-5

R.T.: 6.880 min
Delta R.T.: 0.003 min
Response: 12311791
Conc: 215.70 ng/ml



#27 Chlordane-5

R.T.: 5.948 min
Delta R.T.: -0.001 min
Response: 15608703
Conc: 217.81 ng/ml



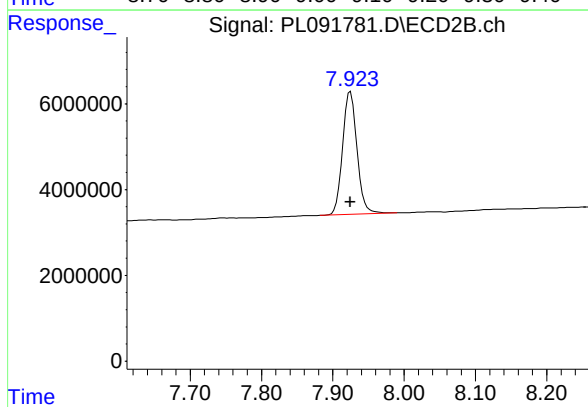
#28 Decachlorobiphenyl

R.T.: 9.065 min
Delta R.T.: 0.004 min
Response: 27458684
Conc: 22.59 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB163230BS

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/18/2024
Supervised By :Ankita Jodhani 09/18/2024



#28 Decachlorobiphenyl

R.T.: 7.925 min
Delta R.T.: 0.000 min
Response: 40212891
Conc: 21.78 ng/ml

Manual Integration Report

Sequence:	PL090924	Instrument	ECD_I
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL091569.D	Endrin ketone	Abdul	9/11/2024 11:42:32 AM	Ankita	9/11/2024 1:51:36	Peak Integrated by Software
RESCHK	PL091570.D	gamma-Chlordane #2	Abdul	9/11/2024 11:42:35 AM	Ankita	9/11/2024 1:51:37	Peak Integrated by Software
PCHLORICC05 0	PL091580.D	Chlordane-1	Abdul	9/11/2024 11:42:49 AM	Ankita	9/11/2024 1:51:44	Peak Integrated by Software
PCHLORICC05 0	PL091580.D	Chlordane-1 #2	Abdul	9/11/2024 11:42:49 AM	Ankita	9/11/2024 1:51:44	Peak Integrated by Software
PCHLORICC05 0	PL091580.D	Chlordane-2	Abdul	9/11/2024 11:42:49 AM	Ankita	9/11/2024 1:51:44	Peak Integrated by Software
PCHLORICC05 0	PL091580.D	Chlordane-2 #2	Abdul	9/11/2024 11:42:49 AM	Ankita	9/11/2024 1:51:44	Peak Integrated by Software
PCHLORICC05 0	PL091580.D	Chlordane-3	Abdul	9/11/2024 11:42:49 AM	Ankita	9/11/2024 1:51:44	Peak Integrated by Software
PCHLORICC05 0	PL091580.D	Chlordane-4	Abdul	9/11/2024 11:42:49 AM	Ankita	9/11/2024 1:51:44	Peak Integrated by Software
PCHLORICC05 0	PL091580.D	Chlordane-5	Abdul	9/11/2024 11:42:49 AM	Ankita	9/11/2024 1:51:44	Peak Integrated by Software
PCHLORICC05 0	PL091580.D	Decachlorobiphenyl	Abdul	9/11/2024 11:42:49 AM	Ankita	9/11/2024 1:51:44	Peak Integrated by Software
PCHLORICC05 0	PL091580.D	Decachlorobiphenyl #2	Abdul	9/11/2024 11:42:49 AM	Ankita	9/11/2024 1:51:44	Peak Integrated by Software
PSTDICV050	PL091586.D	gamma-Chlordane #2	Abdul	9/11/2024 11:42:59 AM	Ankita	9/11/2024 1:51:45	Peak Integrated by Software
I.BLK	PL091589.D	Decachlorobiphenyl #2	Abdul	9/11/2024 11:43:04 AM	Ankita	9/11/2024 1:51:47	Peak Integrated by Software

Manual Integration Report

Sequence:	PL090924	Instrument	ECD_I
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PL091589.D	Tetrachloro-m-xylene #2	Abdul	9/11/2024 11:43:04 AM	Ankita	9/11/2024 1:51:47	Peak Integrated by Software
PEM	PL091590.D	4,4"-DDD #2	Abdul	9/11/2024 11:43:08 AM	Ankita	9/11/2024 1:51:48	Peak Integrated by Software
PEM	PL091590.D	Endrin aldehyde	Abdul	9/11/2024 11:43:08 AM	Ankita	9/11/2024 1:51:48	Peak Integrated by Software
PSTDCCC050	PL091591.D	4,4"-DDE #2	Abdul	9/11/2024 11:43:12 AM	Ankita	9/11/2024 1:51:50	Peak Integrated by Software
PSTDCCC050	PL091591.D	gamma-Chlordane #2	Abdul	9/11/2024 11:43:12 AM	Ankita	9/11/2024 1:51:50	Peak Integrated by Software
I.BLK	PL091601.D	Decachlorobiphenyl #2	Abdul	9/11/2024 11:43:47 AM	Ankita	9/11/2024 1:52:04	Peak Integrated by Software
PSTDCCC050	PL091602.D	4,4"-DDT #2	Abdul	9/11/2024 11:43:51 AM	Ankita	9/11/2024 1:52:06	Peak Integrated by Software
PSTDCCC050	PL091602.D	Aldrin	Abdul	9/11/2024 11:43:51 AM	Ankita	9/11/2024 1:52:06	Peak Integrated by Software
PSTDCCC050	PL091602.D	Endrin aldehyde	Abdul	9/11/2024 11:43:51 AM	Ankita	9/11/2024 1:52:06	Peak Integrated by Software
PSTDCCC050	PL091602.D	Methoxychlor	Abdul	9/11/2024 11:43:51 AM	Ankita	9/11/2024 1:52:06	Peak Integrated by Software

Manual Integration Report

Sequence:	pl091024	Instrument	ECD_I
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL091605.D	4,4"-DDD #2	Abdul	9/11/2024 9:20:40 AM	Ankita	9/11/2024 11:32:09	Peak Integrated by Software
PEM	PL091605.D	4,4"-DDE	Abdul	9/11/2024 9:20:40 AM	Ankita	9/11/2024 11:32:09	Peak Integrated by Software
PEM	PL091605.D	4,4"-DDE #2	Abdul	9/11/2024 9:20:40 AM	Ankita	9/11/2024 11:32:09	Peak Integrated by Software
PEM	PL091605.D	Endrin	Abdul	9/11/2024 9:20:40 AM	Ankita	9/11/2024 11:32:09	Peak Integrated by Software
PSTDCCC050	PL091606.D	4,4"-DDD #2	Abdul	9/11/2024 9:20:43 AM	Ankita	9/11/2024 11:32:11	Peak Integrated by Software
PSTDCCC050	PL091606.D	Aldrin #2	Abdul	9/11/2024 9:20:43 AM	Ankita	9/11/2024 11:32:11	Peak Integrated by Software
PSTDCCC050	PL091606.D	Endosulfan II	Abdul	9/11/2024 9:20:43 AM	Ankita	9/11/2024 11:32:11	Peak Integrated by Software
PSTDCCC050	PL091606.D	Endrin	Abdul	9/11/2024 9:20:43 AM	Ankita	9/11/2024 11:32:11	Peak Integrated by Software
PSTDCCC050	PL091606.D	Endrin #2	Abdul	9/11/2024 9:20:43 AM	Ankita	9/11/2024 11:32:11	Peak Integrated by Software
PSTDCCC050	PL091606.D	Endrin aldehyde	Abdul	9/11/2024 9:20:43 AM	Ankita	9/11/2024 11:32:11	Peak Integrated by Software
PSTDCCC050	PL091606.D	gamma-Chlordane #2	Abdul	9/11/2024 9:20:43 AM	Ankita	9/11/2024 11:32:11	Peak Integrated by Software
PSTDCCC050	PL091606.D	Heptachlor epoxide #2	Abdul	9/11/2024 9:20:43 AM	Ankita	9/11/2024 11:32:11	Peak Integrated by Software
PCHLORCCC500	PL091607.D	Chlordane-3	Abdul	9/11/2024 9:20:47 AM	Ankita	9/11/2024 11:32:13	Peak Integrated by Software

Manual Integration Report

Sequence:	pl091024	Instrument	ECD_I
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PTOXCCC500	PL091608.D	Toxaphene-1	Abdul	9/12/2024 9:38:57 AM	Ankita	9/12/2024 11:58:31	Peak Integrated by Software
PSTDCCC050	PL091624.D	Aldrin	Abdul	9/12/2024 3:02:46 PM	Ankita	9/13/2024 11:00:08	Peak Integrated by Software
PSTDCCC050	PL091624.D	gamma-Chlordane #2	Abdul	9/12/2024 3:02:46 PM	Ankita	9/13/2024 11:00:08	Peak Integrated by Software
PSTDCCC050	PL091624.D	Heptachlor	Abdul	9/12/2024 3:02:46 PM	Ankita	9/13/2024 11:00:08	Peak Integrated by Software
PCHLORCCC500	PL091625.D	Chlordane-3	Abdul	9/11/2024 9:21:29 AM	Ankita	9/11/2024 11:32:33	Peak Integrated by Software
PTOXCCC500	PL091626.D	Toxaphene-1	Abdul	9/12/2024 9:39:12 AM	Ankita	9/12/2024 11:58:39	Peak Integrated by Software

Manual Integration Report

Sequence:	pl091724	Instrument	ECD_I
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL091778.D	4,4"-DDD #2	Abdul	9/18/2024 10:33:55 AM	Ankita	9/18/2024 11:57:59	Peak Integrated by Software
PEM	PL091778.D	beta-BHC #2	Abdul	9/18/2024 10:33:55 AM	Ankita	9/18/2024 11:57:59	Peak Integrated by Software
PEM	PL091778.D	Endrin	Abdul	9/18/2024 10:33:55 AM	Ankita	9/18/2024 11:57:59	Peak Integrated by Software
PEM	PL091778.D	Endrin aldehyde	Abdul	9/18/2024 10:33:55 AM	Ankita	9/18/2024 11:57:59	Peak Integrated by Software
PSTDCCC050	PL091779.D	4,4"-DDE #2	Abdul	9/18/2024 10:33:57 AM	Ankita	9/18/2024 11:58:01	Peak Integrated by Software
PSTDCCC050	PL091779.D	Aldrin	Abdul	9/18/2024 10:33:57 AM	Ankita	9/18/2024 11:58:01	Peak Integrated by Software
PSTDCCC050	PL091779.D	Aldrin #2	Abdul	9/18/2024 10:33:57 AM	Ankita	9/18/2024 11:58:01	Peak Integrated by Software
PSTDCCC050	PL091779.D	delta-BHC #2	Abdul	9/18/2024 10:33:57 AM	Ankita	9/18/2024 11:58:01	Peak Integrated by Software
PSTDCCC050	PL091779.D	Endosulfan II #2	Abdul	9/18/2024 10:33:57 AM	Ankita	9/18/2024 11:58:01	Peak Integrated by Software
PSTDCCC050	PL091779.D	Endrin	Abdul	9/18/2024 10:33:57 AM	Ankita	9/18/2024 11:58:01	Peak Integrated by Software
PSTDCCC050	PL091779.D	Endrin ketone #2	Abdul	9/18/2024 10:33:57 AM	Ankita	9/18/2024 11:58:01	Peak Integrated by Software
PSTDCCC050	PL091779.D	Heptachlor	Abdul	9/18/2024 10:33:57 AM	Ankita	9/18/2024 11:58:01	Peak Integrated by Software
PSTDCCC050	PL091779.D	Heptachlor epoxide	Abdul	9/18/2024 10:33:57 AM	Ankita	9/18/2024 11:58:01	Peak Integrated by Software

Manual Integration Report

Sequence:	pl091724	Instrument	ECD_I
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PCHLORCCC500	PL091780.D	Chlordane-1	Abdul	9/18/2024 10:34:01 AM	Ankita	9/18/2024 11:58:04	Peak Integrated by Software
PCHLORCCC500	PL091780.D	Chlordane-3	Abdul	9/18/2024 10:34:01 AM	Ankita	9/18/2024 11:58:04	Peak Integrated by Software
PB163230BS	PL091781.D	Chlordane-1	Abdul	9/18/2024 10:34:05 AM	Ankita	9/18/2024 11:58:06	Peak Integrated by Software
PB163230BS	PL091781.D	Chlordane-3	Abdul	9/18/2024 10:34:05 AM	Ankita	9/18/2024 11:58:06	Peak Integrated by Software
PSTDCCC050	PL091785.D	Aldrin	Abdul	9/18/2024 10:34:45 AM	Ankita	9/18/2024 11:58:10	Peak Integrated by Software
PSTDCCC050	PL091785.D	Dieldrin	Abdul	9/18/2024 10:34:45 AM	Ankita	9/18/2024 11:58:10	Peak Integrated by Software
PSTDCCC050	PL091785.D	Endrin	Abdul	9/18/2024 10:34:45 AM	Ankita	9/18/2024 11:58:10	Peak Integrated by Software
PCHLORCCC500	PL091786.D	Chlordane-3	Abdul	9/18/2024 10:34:12 AM	Ankita	9/18/2024 11:58:43	Peak Integrated by Software
PSTDCCC050	PL091794.D	Aldrin	Abdul	9/18/2024 10:34:32 AM	Ankita	9/18/2024 11:58:31	Peak Integrated by Software
PSTDCCC050	PL091794.D	Endrin	Abdul	9/18/2024 10:34:32 AM	Ankita	9/18/2024 11:58:31	Peak Integrated by Software
PSTDCCC050	PL091794.D	Endrin ketone #2	Abdul	9/18/2024 10:34:32 AM	Ankita	9/18/2024 11:58:31	Peak Integrated by Software

Manual Integration Report

Sequence:	PL092324	Instrument	ECD_I
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL091954.D	Endrin ketone #2	Abdul	9/24/2024 9:17:41 AM	Ankita	9/24/2024 11:06:36	Peak Integrated by Software
PEM	PL091975.D	4,4"-DDE	Abdul	9/25/2024 12:23:38 PM	Ankita	9/25/2024 12:24:20	Peak Integrated by Software
PEM	PL091975.D	4,4"-DDE #2	Abdul	9/25/2024 12:23:38 PM	Ankita	9/25/2024 12:24:20	Peak Integrated by Software
PEM	PL091975.D	4,4"-DDT #2	Abdul	9/25/2024 12:23:38 PM	Ankita	9/25/2024 12:24:20	Peak Integrated by Software
PEM	PL091975.D	Endrin ketone #2	Abdul	9/25/2024 12:23:38 PM	Ankita	9/25/2024 12:24:20	Peak Integrated by Software
PEM	PL091975.D	gamma-BHC (Lindane)	Abdul	9/25/2024 12:23:38 PM	Ankita	9/25/2024 12:24:20	Peak Integrated by Software
PEM	PL091975.D	Methoxychlor #2	Abdul	9/25/2024 12:23:38 PM	Ankita	9/25/2024 12:24:20	Peak Integrated by Software
PSTDCCC050	PL091976.D	4,4"-DDE #2	Abdul	9/24/2024 9:18:08 AM	Ankita	9/24/2024 11:06:48	Peak Integrated by Software
PSTDCCC050	PL091976.D	Aldrin #2	Abdul	9/24/2024 9:18:08 AM	Ankita	9/24/2024 11:06:48	Peak Integrated by Software
PSTDCCC050	PL091976.D	delta-BHC #2	Abdul	9/24/2024 9:18:08 AM	Ankita	9/24/2024 11:06:48	Peak Integrated by Software
PSTDCCC050	PL091976.D	Endrin aldehyde	Abdul	9/24/2024 9:18:08 AM	Ankita	9/24/2024 11:06:48	Peak Integrated by Software
PSTDCCC050	PL091976.D	Endrin ketone #2	Abdul	9/24/2024 9:18:08 AM	Ankita	9/24/2024 11:06:48	Peak Integrated by Software
I.BLK	PL091988.D	Tetrachloro-m-xylene	Abdul	9/24/2024 9:23:07 AM	Ankita	9/24/2024 11:07:26	Peak Integrated by Software

Manual Integration Report

Sequence:	PL092324	Instrument	ECD_I
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL091989.D	4,4"-DDD	Abdul	9/24/2024 9:23:10 AM	Ankita	9/24/2024 11:07:29	Peak Integrated by Software
PSTDCCC050	PL091989.D	4,4"-DDE #2	Abdul	9/24/2024 9:23:10 AM	Ankita	9/24/2024 11:07:29	Peak Integrated by Software
PSTDCCC050	PL091989.D	Aldrin #2	Abdul	9/24/2024 9:23:10 AM	Ankita	9/24/2024 11:07:29	Peak Integrated by Software
PSTDCCC050	PL091989.D	delta-BHC #2	Abdul	9/24/2024 9:23:10 AM	Ankita	9/24/2024 11:07:29	Peak Integrated by Software
PSTDCCC050	PL091989.D	Endosulfan II	Abdul	9/24/2024 9:23:10 AM	Ankita	9/24/2024 11:07:29	Peak Integrated by Software
PSTDCCC050	PL091989.D	Endosulfan II #2	Abdul	9/24/2024 9:23:10 AM	Ankita	9/24/2024 11:07:29	Peak Integrated by Software
PSTDCCC050	PL091989.D	Endrin	Abdul	9/24/2024 9:23:10 AM	Ankita	9/24/2024 11:07:29	Peak Integrated by Software

Manual Integration Report

Sequence:	PL092424	Instrument	ECD_I
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL091992.D	4,4"-DDE	Abdul	9/25/2024 10:47:14 AM	Ankita	9/25/2024 2:17:24	Peak Integrated by Software
PEM	PL091992.D	4,4"-DDE #2	Abdul	9/25/2024 10:47:14 AM	Ankita	9/25/2024 2:17:24	Peak Integrated by Software
PEM	PL091992.D	Endrin ketone #2	Abdul	9/25/2024 10:47:14 AM	Ankita	9/25/2024 2:17:24	Peak Integrated by Software
PSTDCCC050	PL091993.D	4,4"-DDD	Abdul	9/25/2024 10:47:17 AM	Ankita	9/25/2024 2:17:25	Peak Integrated by Software
PSTDCCC050	PL091993.D	4,4"-DDE #2	Abdul	9/25/2024 10:47:17 AM	Ankita	9/25/2024 2:17:25	Peak Integrated by Software
PSTDCCC050	PL091993.D	Aldrin #2	Abdul	9/25/2024 10:47:17 AM	Ankita	9/25/2024 2:17:25	Peak Integrated by Software
PSTDCCC050	PL091993.D	Endosulfan II #2	Abdul	9/25/2024 10:47:17 AM	Ankita	9/25/2024 2:17:25	Peak Integrated by Software
PSTDCCC050	PL091993.D	Endrin	Abdul	9/25/2024 10:47:17 AM	Ankita	9/25/2024 2:17:25	Peak Integrated by Software
PSTDCCC050	PL091993.D	Endrin ketone #2	Abdul	9/25/2024 10:47:17 AM	Ankita	9/25/2024 2:17:25	Peak Integrated by Software
PSTDCCC050	PL091993.D	gamma-Chlordane	Abdul	9/25/2024 10:47:17 AM	Ankita	9/25/2024 2:17:25	Peak Integrated by Software
PSTDCCC050	PL091993.D	Heptachlor epoxide	Abdul	9/25/2024 10:47:17 AM	Ankita	9/25/2024 2:17:25	Peak Integrated by Software
PSTDCCC050	PL091993.D	Methoxychlor	Abdul	9/25/2024 10:47:17 AM	Ankita	9/25/2024 2:17:25	Peak Integrated by Software
PCHLORCCC500	PL091994.D	Chlordane-1	Abdul	9/25/2024 10:47:20 AM	Ankita	9/25/2024 2:17:27	Peak Integrated by Software

Manual Integration Report

Sequence:	PL092424	Instrument	ECD_I
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P3845-11	PL091997.D	Chlordane-1	Abdul	9/25/2024 10:47:31 AM	Ankita	9/25/2024 2:17:30	Peak Integrated by Software
PSTDCCC050	PL092003.D	4,4"-DDD	Abdul	9/25/2024 10:47:50 AM	Ankita	9/25/2024 2:17:43	Peak Integrated by Software
PSTDCCC050	PL092003.D	4,4"-DDE #2	Abdul	9/25/2024 10:47:50 AM	Ankita	9/25/2024 2:17:43	Peak Integrated by Software
PSTDCCC050	PL092003.D	Aldrin #2	Abdul	9/25/2024 10:47:50 AM	Ankita	9/25/2024 2:17:43	Peak Integrated by Software
PSTDCCC050	PL092003.D	alpha-Chlordane	Abdul	9/25/2024 10:47:50 AM	Ankita	9/25/2024 2:17:43	Peak Integrated by Software
PSTDCCC050	PL092003.D	Endrin	Abdul	9/25/2024 10:47:50 AM	Ankita	9/25/2024 2:17:43	Peak Integrated by Software
PSTDCCC050	PL092003.D	Endrin ketone #2	Abdul	9/25/2024 10:47:50 AM	Ankita	9/25/2024 2:17:43	Peak Integrated by Software
PSTDCCC050	PL092003.D	gamma-Chlordane	Abdul	9/25/2024 10:47:50 AM	Ankita	9/25/2024 2:17:43	Peak Integrated by Software
PSTDCCC050	PL092003.D	Heptachlor epoxide	Abdul	9/25/2024 10:47:50 AM	Ankita	9/25/2024 2:17:43	Peak Integrated by Software
PSTDCCC050	PL092015.D	4,4"-DDD	Abdul	9/25/2024 10:48:24 AM	Ankita	9/25/2024 2:17:56	Peak Integrated by Software
PSTDCCC050	PL092015.D	4,4"-DDE #2	Abdul	9/25/2024 10:48:24 AM	Ankita	9/25/2024 2:17:56	Peak Integrated by Software
PSTDCCC050	PL092015.D	Aldrin	Abdul	9/25/2024 10:48:24 AM	Ankita	9/25/2024 2:17:56	Peak Integrated by Software
PSTDCCC050	PL092015.D	Aldrin #2	Abdul	9/25/2024 10:48:24 AM	Ankita	9/25/2024 2:17:56	Peak Integrated by Software

Manual Integration Report

Sequence:	PL092424	Instrument	ECD_I
-----------	----------	------------	-------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL092015.D	alpha-Chlordane	Abdul	9/25/2024 10:48:24 AM	Ankita	9/25/2024 2:17:56	Peak Integrated by Software
PSTDCCC050	PL092015.D	Endosulfan II #2	Abdul	9/25/2024 10:48:24 AM	Ankita	9/25/2024 2:17:56	Peak Integrated by Software
PSTDCCC050	PL092015.D	Endrin	Abdul	9/25/2024 10:48:24 AM	Ankita	9/25/2024 2:17:56	Peak Integrated by Software
PSTDCCC050	PL092015.D	Endrin ketone #2	Abdul	9/25/2024 10:48:24 AM	Ankita	9/25/2024 2:17:56	Peak Integrated by Software
PSTDCCC050	PL092015.D	gamma-Chlordane	Abdul	9/25/2024 10:48:24 AM	Ankita	9/25/2024 2:17:56	Peak Integrated by Software
PSTDCCC050	PL092015.D	Heptachlor epoxide	Abdul	9/25/2024 10:48:24 AM	Ankita	9/25/2024 2:17:56	Peak Integrated by Software
PSTDCCC050	PL092015.D	Methoxychlor	Abdul	9/25/2024 10:48:24 AM	Ankita	9/25/2024 2:17:56	Peak Integrated by Software
PSTDCCC050	PL092021.D	4,4"-DDD	Abdul	9/25/2024 10:48:40 AM	Ankita	9/25/2024 2:18:03	Peak Integrated by Software
PSTDCCC050	PL092021.D	4,4"-DDE #2	Abdul	9/25/2024 10:48:40 AM	Ankita	9/25/2024 2:18:03	Peak Integrated by Software
PSTDCCC050	PL092021.D	Aldrin #2	Abdul	9/25/2024 10:48:40 AM	Ankita	9/25/2024 2:18:03	Peak Integrated by Software
PSTDCCC050	PL092021.D	Endosulfan I #2	Abdul	9/25/2024 10:48:40 AM	Ankita	9/25/2024 2:18:03	Peak Integrated by Software
PSTDCCC050	PL092021.D	Endrin	Abdul	9/25/2024 10:48:40 AM	Ankita	9/25/2024 2:18:03	Peak Integrated by Software
PSTDCCC050	PL092021.D	Endrin ketone #2	Abdul	9/25/2024 10:48:40 AM	Ankita	9/25/2024 2:18:03	Peak Integrated by Software

Manual Integration Report

Sequence:

PL092424

Instrument

ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL092021.D	gamma-Chlordane	Abdul	9/25/2024 10:48:40 AM	Ankita	9/25/2024 2:18:03	Peak Integrated by Software
PSTDCCC050	PL092021.D	Heptachlor epoxide	Abdul	9/25/2024 10:48:40 AM	Ankita	9/25/2024 2:18:03	Peak Integrated by Software
PSTDCCC050	PL092021.D	Mirex #2	Abdul	9/25/2024 10:48:40 AM	Ankita	9/25/2024 2:18:03	Peak Integrated by Software

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL090924

Review By	Abdul	Review On	9/11/2024 11:44:26 AM
Supervise By	Ankita	Supervise On	9/11/2024 1:52:24 PM
SubDirectory	PL090924	HP Acquire Method	HP Processing Method pl090924 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482		
CCC	PP23484,PP23489,PP23494		
Internal Standard/PEM			
ICV/I.BLK	PP23487,PP23497,PP23498		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL091567.D	09 Sep 2024 10:14	AR\AJ	Ok
2	I.BLK	PL091568.D	09 Sep 2024 14:50	AR\AJ	Ok
3	PEM	PL091569.D	09 Sep 2024 15:03	AR\AJ	Ok,M
4	RESCHK	PL091570.D	09 Sep 2024 15:17	AR\AJ	Ok,M
5	PSTDICC100	PL091571.D	09 Sep 2024 15:31	AR\AJ	Ok
6	PSTDICC075	PL091572.D	09 Sep 2024 15:44	AR\AJ	Ok,M
7	PSTDICC050	PL091573.D	09 Sep 2024 15:58	AR\AJ	Ok
8	PSTDICC025	PL091574.D	09 Sep 2024 16:11	AR\AJ	Ok,M
9	PSTDICC005	PL091575.D	09 Sep 2024 16:25	AR\AJ	Ok,M
10	PCHLORICC1000	PL091576.D	09 Sep 2024 16:39	AR\AJ	Ok
11	PCHLORICC750	PL091577.D	09 Sep 2024 16:52	AR\AJ	Ok
12	PCHLORICC500	PL091578.D	09 Sep 2024 17:06	AR\AJ	Ok
13	PCHLORICC250	PL091579.D	09 Sep 2024 17:19	AR\AJ	Ok
14	PCHLORICC050	PL091580.D	09 Sep 2024 17:33	AR\AJ	Ok,M
15	PTOXICC1000	PL091581.D	09 Sep 2024 17:47	AR\AJ	Ok
16	PTOXICC750	PL091582.D	09 Sep 2024 18:01	AR\AJ	Ok,M
17	PTOXICC500	PL091583.D	09 Sep 2024 18:14	AR\AJ	Ok,M
18	PTOXICC250	PL091584.D	09 Sep 2024 18:28	AR\AJ	Ok
19	PTOXICC100	PL091585.D	09 Sep 2024 18:42	AR\AJ	Ok,M
20	PSTDICV050	PL091586.D	09 Sep 2024 18:56	AR\AJ	Ok,M
21	PCHLORICV500	PL091587.D	09 Sep 2024 19:10	AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL090924

Review By	Abdul	Review On	9/11/2024 11:44:26 AM
Supervise By	Ankita	Supervise On	9/11/2024 1:52:24 PM
SubDirectory	PL090924	HP Acquire Method	HP Processing Method pl090924 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482		
CCC	PP23484,PP23489,PP23494		
Internal Standard/PEM			
ICV/I.BLK	PP23487,PP23497,PP23498		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PTOXICV500	PL091588.D	09 Sep 2024 19:23	AR\AJ	Ok
23	I.BLK	PL091589.D	09 Sep 2024 19:37	AR\AJ	Not Ok
24	PEM	PL091590.D	09 Sep 2024 19:51	AR\AJ	Ok,M
25	PSTDCCC050	PL091591.D	09 Sep 2024 20:05	AR\AJ	Ok,M
26	PB163178BS	PL091592.D	09 Sep 2024 20:18	AR\AJ	Not Ok
27	P3861-01	PL091593.D	09 Sep 2024 20:32	AR\AJ	Not Ok
28	PB163218BL	PL091594.D	09 Sep 2024 20:46	AR\AJ	Not Ok
29	PB163218BS	PL091595.D	09 Sep 2024 21:00	AR\AJ	Not Ok
30	P3888-01	PL091596.D	09 Sep 2024 21:13	AR\AJ	Not Ok
31	P3888-02	PL091597.D	09 Sep 2024 21:27	AR\AJ	Not Ok
32	P3888-02MS	PL091598.D	09 Sep 2024 21:41	AR\AJ	Not Ok
33	P3888-02MSD	PL091599.D	09 Sep 2024 21:55	AR\AJ	Not Ok
34	P3892-02	PL091600.D	09 Sep 2024 22:08	AR\AJ	Not Ok
35	I.BLK	PL091601.D	09 Sep 2024 22:22	AR\AJ	Ok,M
36	PSTDCCC050	PL091602.D	09 Sep 2024 22:36	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL091024

Review By	Abdul	Review On	9/11/2024 9:23:53 AM
Supervise By	Ankita	Supervise On	9/12/2024 11:58:50 AM
SubDirectory	PL091024	HP Acquire Method	HP Processing Method pl090924 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482		
CCC	PP23484,PP23489,PP23494		
Internal Standard/PEM			
ICV/I.BLK	PP23487,PP23497,PP23498		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL091603.D	10 Sep 2024 10:43	AR\AJ	Ok
2	I.BLK	PL091604.D	10 Sep 2024 10:57	AR\AJ	Ok
3	PEM	PL091605.D	10 Sep 2024 11:10	AR\AJ	Ok,M
4	PSTDCCC050	PL091606.D	10 Sep 2024 11:24	AR\AJ	Ok,M
5	PCHLORCCC500	PL091607.D	10 Sep 2024 11:56	AR\AJ	Ok,M
6	PTOXCCC500	PL091608.D	10 Sep 2024 12:12	AR\AJ	Ok,M
7	PB163178BS	PL091609.D	10 Sep 2024 12:26	AR\AJ	Ok,M
8	PB163229BL	PL091610.D	10 Sep 2024 12:40	AR\AJ	Ok
9	PB163229BS	PL091611.D	10 Sep 2024 12:57	AR\AJ	Ok,M
10	PB163229BSD	PL091612.D	10 Sep 2024 13:11	AR\AJ	Not Ok
11	P3845-09	PL091613.D	10 Sep 2024 13:25	AR\AJ	Not Ok
12	P3853-01	PL091614.D	10 Sep 2024 13:38	AR\AJ	Ok
13	PB163230BL	PL091615.D	10 Sep 2024 13:52	AR\AJ	Ok
14	PB163230BS	PL091616.D	10 Sep 2024 15:02	AR\AJ	Not Ok
15	P3845-11	PL091617.D	10 Sep 2024 15:16	AR\AJ	Not Ok
16	PB163231BL	PL091618.D	10 Sep 2024 15:29	AR\AJ	Ok
17	PB163231BS	PL091619.D	10 Sep 2024 15:43	AR\AJ	Ok
18	P3845-13	PL091620.D	10 Sep 2024 15:57	AR\AJ	Not Ok
19	P3845-13DL	PL091621.D	10 Sep 2024 16:23	AR\AJ	Not Ok
20	P3845-13DL2	PL091622.D	10 Sep 2024 16:43	AR\AJ	Not Ok
21	I.BLK	PL091623.D	10 Sep 2024 16:56	AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL091024

Review By	Abdul	Review On	9/11/2024 9:23:53 AM
Supervise By	Ankita	Supervise On	9/12/2024 11:58:50 AM
SubDirectory	PL091024	HP Acquire Method	HP Processing Method pl090924 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482		
CCC	PP23484,PP23489,PP23494		
Internal Standard/PEM			
ICV/I.BLK	PP23487,PP23497,PP23498		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PSTDCCC050	PL091624.D	10 Sep 2024 17:10	AR\AJ	Ok,M
23	PCHLORCCC500	PL091625.D	10 Sep 2024 17:24	AR\AJ	Ok,M
24	PTOXCCC500	PL091626.D	10 Sep 2024 17:54	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL091724

Review By	Abdul	Review On	9/18/2024 10:35:50 AM
Supervise By	Ankita	Supervise On	9/18/2024 11:58:49 AM
SubDirectory	PL091724	HP Acquire Method	HP Processing Method pl090924 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482		
CCC	PP23484,PP23489,PP23494		
Internal Standard/PEM			
ICV/I.BLK	PP23487,PP23497,PP23498		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL091776.D	17 Sep 2024 11:07	AR\AJ	Ok
2	I.BLK	PL091777.D	17 Sep 2024 11:20	AR\AJ	Ok
3	PEM	PL091778.D	17 Sep 2024 11:34	AR\AJ	Ok,M
4	PSTDCCC050	PL091779.D	17 Sep 2024 11:47	AR\AJ	Ok,M
5	PCHLORCCC500	PL091780.D	17 Sep 2024 12:21	AR\AJ	Ok,M
6	PB163230BS	PL091781.D	17 Sep 2024 12:40	AR\AJ	Ok,M
7	PB163453BL	PL091782.D	17 Sep 2024 14:11	AR\AJ	Ok
8	PB163453BS	PL091783.D	17 Sep 2024 14:24	AR\AJ	Not Ok
9	I.BLK	PL091784.D	17 Sep 2024 14:50	AR\AJ	Ok
10	PSTDCCC050	PL091785.D	17 Sep 2024 15:24	AR\AJ	Ok,M
11	PCHLORCCC500	PL091786.D	17 Sep 2024 15:37	AR\AJ	Ok,M
12	P4014-01	PL091787.D	17 Sep 2024 15:51	AR\AJ	Ok,M
13	P4023-01	PL091788.D	17 Sep 2024 16:05	AR\AJ	Ok,M
14	P4023-03	PL091789.D	17 Sep 2024 16:18	AR\AJ	Ok,M
15	P4027-01	PL091790.D	17 Sep 2024 16:31	AR\AJ	Ok,M
16	P4027-01MS	PL091791.D	17 Sep 2024 16:45	AR\AJ	Ok,M
17	P4027-01MSD	PL091792.D	17 Sep 2024 16:58	AR\AJ	Ok,M
18	I.BLK	PL091793.D	17 Sep 2024 17:12	AR\AJ	Ok
19	PSTDCCC050	PL091794.D	17 Sep 2024 17:25	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL092324

Review By	Abdul	Review On	9/24/2024 9:27:05 AM
Supervise By	Ankita	Supervise On	9/24/2024 11:07:44 AM
SubDirectory	PL092324	HP Acquire Method	HP Processing Method pl092324 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL091952.D	23 Sep 2024 10:38	AR\AJ	Ok
2	I.BLK	PL091953.D	23 Sep 2024 10:52	AR\AJ	Ok
3	PEM	PL091954.D	23 Sep 2024 11:05	AR\AJ	Ok,M
4	RESCHK	PL091955.D	23 Sep 2024 11:19	AR\AJ	Ok
5	PSTDICC100	PL091956.D	23 Sep 2024 11:32	AR\AJ	Ok
6	PSTDICC075	PL091957.D	23 Sep 2024 11:45	AR\AJ	Ok
7	PSTDICC050	PL091958.D	23 Sep 2024 11:59	AR\AJ	Ok
8	PSTDICC025	PL091959.D	23 Sep 2024 12:12	AR\AJ	Ok,M
9	PSTDICC005	PL091960.D	23 Sep 2024 12:26	AR\AJ	Ok,M
10	PCHLORICC1000	PL091961.D	23 Sep 2024 12:39	AR\AJ	Ok
11	PCHLORICC750	PL091962.D	23 Sep 2024 12:52	AR\AJ	Ok
12	PCHLORICC500	PL091963.D	23 Sep 2024 13:06	AR\AJ	Ok
13	PCHLORICC250	PL091964.D	23 Sep 2024 13:19	AR\AJ	Ok
14	PCHLORICC050	PL091965.D	23 Sep 2024 13:33	AR\AJ	Ok
15	PTOXICC1000	PL091966.D	23 Sep 2024 13:46	AR\AJ	Ok
16	PTOXICC750	PL091967.D	23 Sep 2024 13:59	AR\AJ	Ok
17	PTOXICC500	PL091968.D	23 Sep 2024 14:13	AR\AJ	Ok
18	PTOXICC250	PL091969.D	23 Sep 2024 14:26	AR\AJ	Ok
19	PTOXICC100	PL091970.D	23 Sep 2024 14:40	AR\AJ	Ok,M
20	PSTDICV050	PL091971.D	23 Sep 2024 14:53	AR\AJ	Ok
21	PCHLORICV500	PL091972.D	23 Sep 2024 15:20	AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL092324

Review By	Abdul	Review On	9/24/2024 9:27:05 AM
Supervise By	Ankita	Supervise On	9/24/2024 11:07:44 AM
SubDirectory	PL092324	HP Acquire Method	HP Processing Method pl092324 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PTOXICV500	PL091973.D	23 Sep 2024 15:47	AR\AJ	Ok
23	I.BLK	PL091974.D	23 Sep 2024 16:13	AR\AJ	Ok
24	PEM	PL091975.D	23 Sep 2024 16:27	AR\AJ	Ok,M
25	PSTDCCC050	PL091976.D	23 Sep 2024 16:40	AR\AJ	Ok,M
26	PB163572BL	PL091977.D	23 Sep 2024 16:54	AR\AJ	Ok
27	PB163572BS	PL091978.D	23 Sep 2024 17:07	AR\AJ	Ok,M
28	P4103-02	PL091979.D	23 Sep 2024 17:20	AR\AJ	Ok,M
29	P4103-02MS	PL091980.D	23 Sep 2024 17:34	AR\AJ	Ok,M
30	P4103-02MSD	PL091981.D	23 Sep 2024 17:47	AR\AJ	Ok,M
31	P4103-05	PL091982.D	23 Sep 2024 18:01	AR\AJ	Ok
32	P4103-08	PL091983.D	23 Sep 2024 18:14	AR\AJ	Ok,M
33	P4103-11	PL091984.D	23 Sep 2024 18:28	AR\AJ	Ok,M
34	P4103-14	PL091985.D	23 Sep 2024 18:41	AR\AJ	Ok,M
35	P4103-17	PL091986.D	23 Sep 2024 18:55	AR\AJ	Ok,M
36	PB163511TB	PL091987.D	23 Sep 2024 19:08	AR\AJ	Ok,M
37	I.BLK	PL091988.D	23 Sep 2024 19:21	AR\AJ	Ok,M
38	PSTDCCC050	PL091989.D	23 Sep 2024 19:35	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL092424

Review By	Abdul	Review On	9/25/2024 10:49:05 AM
Supervise By	Ankita	Supervise On	9/25/2024 2:18:21 PM
SubDirectory	PL092424	HP Acquire Method	HP Processing Method pl092324 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL091990.D	24 Sep 2024 09:15	AR\AJ	Ok
2	I.BLK	PL091991.D	24 Sep 2024 09:28	AR\AJ	Ok
3	PEM	PL091992.D	24 Sep 2024 09:41	AR\AJ	Ok,M
4	PSTDCCC050	PL091993.D	24 Sep 2024 09:55	AR\AJ	Ok,M
5	PCHLORCCC500	PL091994.D	24 Sep 2024 12:02	AR\AJ	Ok,M
6	PTOXCCC500	PL091995.D	24 Sep 2024 12:16	AR\AJ	Ok
7	P3845-09	PL091996.D	24 Sep 2024 12:35	AR\AJ	Dilution
8	P3845-11	PL091997.D	24 Sep 2024 12:49	AR\AJ	Ok,M
9	P3845-13	PL091998.D	24 Sep 2024 13:02	AR\AJ	Dilution
10	P3845-09DL	PL091999.D	24 Sep 2024 13:19	AR\AJ	Dilution
11	P3845-09DL2	PL092000.D	24 Sep 2024 13:32	AR\AJ	Ok,M
12	P3845-13DL	PL092001.D	24 Sep 2024 13:54	AR\AJ	Ok,M
13	I.BLK	PL092002.D	24 Sep 2024 14:08	AR\AJ	Ok
14	PSTDCCC050	PL092003.D	24 Sep 2024 14:21	AR\AJ	Ok,M
15	PCHLORCCC500	PL092004.D	24 Sep 2024 14:35	AR\AJ	Ok
16	PTOXCCC500	PL092005.D	24 Sep 2024 14:48	AR\AJ	Ok
17	PB163645BL	PL092006.D	24 Sep 2024 15:01	AR\AJ	Ok
18	PB163645BS	PL092007.D	24 Sep 2024 15:32	AR\AJ	Not Ok
19	P4149-13	PL092008.D	24 Sep 2024 15:45	AR\AJ	Ok,M
20	P4149-14	PL092009.D	24 Sep 2024 15:59	AR\AJ	Dilution
21	P4149-15	PL092010.D	24 Sep 2024 16:12	AR\AJ	Ok,M

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL092424

Review By	Abdul	Review On	9/25/2024 10:49:05 AM
Supervise By	Ankita	Supervise On	9/25/2024 2:18:21 PM
SubDirectory	PL092424	HP Acquire Method	HP Processing Method pl092324 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4149-15MS	PL092011.D	24 Sep 2024 16:26	AR\AJ	Ok,M
23	P4149-15MSD	PL092012.D	24 Sep 2024 16:39	AR\AJ	Ok,M
24	PB163645BS	PL092013.D	24 Sep 2024 16:52	AR\AJ	Ok,M
25	I.BLK	PL092014.D	24 Sep 2024 17:06	AR\AJ	Ok
26	PSTDCCC050	PL092015.D	24 Sep 2024 17:19	AR\AJ	Ok,M
27	P4142-01	PL092016.D	24 Sep 2024 05:46 pm	AR\AJ	Ok,M
28	P4146-01	PL092017.D	24 Sep 2024 18:00	AR\AJ	Ok,M
29	P4148-01	PL092018.D	24 Sep 2024 18:13	AR\AJ	Ok,M
30	P4150-01	PL092019.D	24 Sep 2024 18:27	AR\AJ	Ok
31	I.BLK	PL092020.D	24 Sep 2024 18:40	AR\AJ	Ok
32	PSTDCCC050	PL092021.D	24 Sep 2024 19:20	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL090924

Review By	Abdul	Review On	9/11/2024 11:44:26 AM
Supervise By	Ankita	Supervise On	9/11/2024 1:52:24 PM
SubDirectory	PL090924	HP Acquire Method	HP Processing Method p090924 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482		
CCC	PP23484,PP23489,PP23494		
Internal Standard/PEM			
ICV/I.BLK	PP23487,PP23497,PP23498		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL091567.D	09 Sep 2024 10:14		AR\AJ	Ok
2	I.BLK	I.BLK	PL091568.D	09 Sep 2024 14:50		AR\AJ	Ok
3	PEM	PEM	PL091569.D	09 Sep 2024 15:03		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL091570.D	09 Sep 2024 15:17		AR\AJ	Ok,M
5	PSTDICC100	PSTDICC100	PL091571.D	09 Sep 2024 15:31		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PL091572.D	09 Sep 2024 15:44		AR\AJ	Ok,M
7	PSTDICC050	PSTDICC050	PL091573.D	09 Sep 2024 15:58		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL091574.D	09 Sep 2024 16:11		AR\AJ	Ok,M
9	PSTDICC005	PSTDICC005	PL091575.D	09 Sep 2024 16:25		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL091576.D	09 Sep 2024 16:39		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL091577.D	09 Sep 2024 16:52		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL091578.D	09 Sep 2024 17:06		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL091579.D	09 Sep 2024 17:19		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL091580.D	09 Sep 2024 17:33		AR\AJ	Ok,M
15	PTOXICC1000	PTOXICC1000	PL091581.D	09 Sep 2024 17:47		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL091582.D	09 Sep 2024 18:01		AR\AJ	Ok,M
17	PTOXICC500	PTOXICC500	PL091583.D	09 Sep 2024 18:14		AR\AJ	Ok,M
18	PTOXICC250	PTOXICC250	PL091584.D	09 Sep 2024 18:28		AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL090924

Review By	Abdul	Review On	9/11/2024 11:44:26 AM
Supervise By	Ankita	Supervise On	9/11/2024 1:52:24 PM
SubDirectory	PL090924	HP Acquire Method	HP Processing Method
			pl090924 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482		
CCC	PP23484,PP23489,PP23494		
Internal Standard/PEM			
ICV/I.BLK	PP23487,PP23497,PP23498		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	PTOXICC100	PTOXICC100	PL091585.D	09 Sep 2024 18:42		AR\AJ	Ok,M
20	PSTDICV050	ICVPL090924	PL091586.D	09 Sep 2024 18:56		AR\AJ	Ok,M
21	PCHLORICV500	ICVPL090924	PL091587.D	09 Sep 2024 19:10		AR\AJ	Ok
22	PTOXICV500	ICVPL090924	PL091588.D	09 Sep 2024 19:23		AR\AJ	Ok
23	I.BLK	I.BLK	PL091589.D	09 Sep 2024 19:37	F flag coming in second column tcmx, surrogate high in dcb and tcmx in 1st column	AR\AJ	Not Ok
24	PEM	PEM	PL091590.D	09 Sep 2024 19:51		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PL091591.D	09 Sep 2024 20:05		AR\AJ	Ok,M
26	PB163178BS	PB163178BS	PL091592.D	09 Sep 2024 20:18		AR\AJ	Not Ok
27	P3861-01	DN-B-37	PL091593.D	09 Sep 2024 20:32		AR\AJ	Not Ok
28	PB163218BL	PB163218BL	PL091594.D	09 Sep 2024 20:46		AR\AJ	Not Ok
29	PB163218BS	PB163218BS	PL091595.D	09 Sep 2024 21:00		AR\AJ	Not Ok
30	P3888-01	DN-B-36	PL091596.D	09 Sep 2024 21:13	need 2x dilution	AR\AJ	Not Ok
31	P3888-02	DN-W-02	PL091597.D	09 Sep 2024 21:27		AR\AJ	Not Ok
32	P3888-02MS	DN-W-02MS	PL091598.D	09 Sep 2024 21:41		AR\AJ	Not Ok
33	P3888-02MSD	DN-W-02MSD	PL091599.D	09 Sep 2024 21:55		AR\AJ	Not Ok
34	P3892-02	ARS20-005	PL091600.D	09 Sep 2024 22:08	typo P3892-01	AR\AJ	Not Ok
35	I.BLK	I.BLK	PL091601.D	09 Sep 2024 22:22	TCMX HIGH in both column	AR\AJ	Ok,M
36	PSTDCCC050	PSTDCCC050	PL091602.D	09 Sep 2024 22:36		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL091024

Review By	Abdul	Review On	9/11/2024 9:23:53 AM
Supervise By	Ankita	Supervise On	9/12/2024 11:58:50 AM
SubDirectory	PL091024	HP Acquire Method	HP Processing Method p1090924 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23282,PP23517
Initial Calibration Stds	PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482
CCC	PP23484,PP23489,PP23494
Internal Standard/PEM	
ICV/I.BLK	PP23487,PP23497,PP23498
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL091603.D	10 Sep 2024 10:43		AR\AJ	Ok
2	I.BLK	I.BLK	PL091604.D	10 Sep 2024 10:57		AR\AJ	Ok
3	PEM	PEM	PL091605.D	10 Sep 2024 11:10		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL091606.D	10 Sep 2024 11:24		AR\AJ	Ok,M
5	PCHLORCCC500	PCHLORCCC500	PL091607.D	10 Sep 2024 11:56		AR\AJ	Ok,M
6	PTOXCCC500	PTOXCCC500	PL091608.D	10 Sep 2024 12:12		AR\AJ	Ok,M
7	PB163178BS	PB163178BS	PL091609.D	10 Sep 2024 12:26		AR\AJ	Ok,M
8	PB163229BL	PB163229BL	PL091610.D	10 Sep 2024 12:40		AR\AJ	Ok
9	PB163229BS	PB163229BS	PL091611.D	10 Sep 2024 12:57		AR\AJ	Ok,M
10	PB163229BSD	PB163229BSD	PL091612.D	10 Sep 2024 13:11	Recovery fail	AR\AJ	Not Ok
11	P3845-09	PT-PEST-WP	PL091613.D	10 Sep 2024 13:25	not used	AR\AJ	Not Ok
12	P3853-01	252805	PL091614.D	10 Sep 2024 13:38		AR\AJ	Ok
13	PB163230BL	PB163230BL	PL091615.D	10 Sep 2024 13:52		AR\AJ	Ok
14	PB163230BS	PB163230BS	PL091616.D	10 Sep 2024 15:02	Recovery fail	AR\AJ	Not Ok
15	P3845-11	PT-CHLR-WP	PL091617.D	10 Sep 2024 15:16	not used	AR\AJ	Not Ok
16	PB163231BL	PB163231BL	PL091618.D	10 Sep 2024 15:29		AR\AJ	Ok
17	PB163231BS	PB163231BS	PL091619.D	10 Sep 2024 15:43		AR\AJ	Ok
18	P3845-13	PT-TXP-WP	PL091620.D	10 Sep 2024 15:57	not used	AR\AJ	Not Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL091024

Review By	Abdul	Review On	9/11/2024 9:23:53 AM
Supervise By	Ankita	Supervise On	9/12/2024 11:58:50 AM
SubDirectory	PL091024	HP Acquire Method	HP Processing Method pl090924 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482		
CCC	PP23484,PP23489,PP23494		
Internal Standard/PEM			
ICV/I.BLK	PP23487,PP23497,PP23498		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P3845-13DL	PT-TXP-WPDL	PL091621.D	10 Sep 2024 16:23	not used	AR\AJ	Not Ok
20	P3845-13DL2	PT-TXP-WPDL2	PL091622.D	10 Sep 2024 16:43	Not required.	AR\AJ	Not Ok
21	I.BLK	I.BLK	PL091623.D	10 Sep 2024 16:56		AR\AJ	Ok
22	PSTDCCC050	PSTDCCC050	PL091624.D	10 Sep 2024 17:10		AR\AJ	Ok,M
23	PCHLORCCC500	PCHLORCCC500	PL091625.D	10 Sep 2024 17:24		AR\AJ	Ok,M
24	PTOXCCC500	PTOXCCC500	PL091626.D	10 Sep 2024 17:54		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL091724

Review By	Abdul	Review On	9/18/2024 10:35:50 AM
Supervise By	Ankita	Supervise On	9/18/2024 11:58:49 AM
SubDirectory	PL091724	HP Acquire Method	HP Processing Method p1090924 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23282,PP23517
Initial Calibration Stds	PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482
CCC	PP23484,PP23489,PP23494
Internal Standard/PEM	
ICV/I.BLK	PP23487,PP23497,PP23498
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL091776.D	17 Sep 2024 11:07		AR\AJ	Ok
2	I.BLK	I.BLK	PL091777.D	17 Sep 2024 11:20		AR\AJ	Ok
3	PEM	PEM	PL091778.D	17 Sep 2024 11:34		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL091779.D	17 Sep 2024 11:47		AR\AJ	Ok,M
5	PCHLORCCC500	PCHLORCCC500	PL091780.D	17 Sep 2024 12:21		AR\AJ	Ok,M
6	PB163230BS	PB163230BS	PL091781.D	17 Sep 2024 12:40		AR\AJ	Ok,M
7	PB163453BL	PB163453BL	PL091782.D	17 Sep 2024 14:11		AR\AJ	Ok
8	PB163453BS	PB163453BS	PL091783.D	17 Sep 2024 14:24	recovery fail	AR\AJ	Not Ok
9	I.BLK	I.BLK	PL091784.D	17 Sep 2024 14:50		AR\AJ	Ok
10	PSTDCCC050	PSTDCCC050	PL091785.D	17 Sep 2024 15:24		AR\AJ	Ok,M
11	PCHLORCCC500	PCHLORCCC500	PL091786.D	17 Sep 2024 15:37		AR\AJ	Ok,M
12	P4014-01	OR-03-09162024	PL091787.D	17 Sep 2024 15:51		AR\AJ	Ok,M
13	P4023-01	TP-9	PL091788.D	17 Sep 2024 16:05		AR\AJ	Ok,M
14	P4023-03	CONCRETE-TP-9	PL091789.D	17 Sep 2024 16:18		AR\AJ	Ok,M
15	P4027-01	DN-B-49	PL091790.D	17 Sep 2024 16:31		AR\AJ	Ok,M
16	P4027-01MS	DN-B-49MS	PL091791.D	17 Sep 2024 16:45	Some compound recovery fail	AR\AJ	Ok,M
17	P4027-01MSD	DN-B-49MSD	PL091792.D	17 Sep 2024 16:58	Some compound recovery fail	AR\AJ	Ok,M
18	I.BLK	I.BLK	PL091793.D	17 Sep 2024 17:12		AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL091724

Review By	Abdul	Review On	9/18/2024 10:35:50 AM
Supervise By	Ankita	Supervise On	9/18/2024 11:58:49 AM
SubDirectory	PL091724	HP Acquire Method	HP Processing Method pl090924 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482		
CCC	PP23484,PP23489,PP23494		
Internal Standard/PEM			
ICV/I.BLK	PP23487,PP23497,PP23498		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			
19	PSTDCCC050	PSTDCCC050	PL091794.D
			17 Sep 2024 17:25
			ARIAJ
			Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL092324

Review By	Abdul	Review On	9/24/2024 9:27:05 AM
Supervise By	Ankita	Supervise On	9/24/2024 11:07:44 AM
SubDirectory	PL092324	HP Acquire Method	HP Processing Method pl092324 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23282,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL091952.D	23 Sep 2024 10:38		AR\AJ	Ok
2	I.BLK	I.BLK	PL091953.D	23 Sep 2024 10:52		AR\AJ	Ok
3	PEM	PEM	PL091954.D	23 Sep 2024 11:05		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL091955.D	23 Sep 2024 11:19		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PL091956.D	23 Sep 2024 11:32		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PL091957.D	23 Sep 2024 11:45		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL091958.D	23 Sep 2024 11:59		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL091959.D	23 Sep 2024 12:12		AR\AJ	Ok,M
9	PSTDICC005	PSTDICC005	PL091960.D	23 Sep 2024 12:26		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL091961.D	23 Sep 2024 12:39		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL091962.D	23 Sep 2024 12:52		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL091963.D	23 Sep 2024 13:06		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL091964.D	23 Sep 2024 13:19		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL091965.D	23 Sep 2024 13:33		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PL091966.D	23 Sep 2024 13:46		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL091967.D	23 Sep 2024 13:59		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL091968.D	23 Sep 2024 14:13		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL091969.D	23 Sep 2024 14:26		AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL092324

Review By	Abdul	Review On	9/24/2024 9:27:05 AM	
Supervise By	Ankita	Supervise On	9/24/2024 11:07:44 AM	
SubDirectory	PL092324	HP Acquire Method	HP Processing Method	pl092324 8081
STD. NAME	STD REF.#			
Tune/Reschk	PP23282,PP23517			
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683			
CCC	PP23686,PP23690,PP23695			
Internal Standard/PEM				
ICV/I.BLK	PP23687,PP23693,PP23698			
Surrogate Standard				
MS/MSD Standard				
LCS Standard				

19	PTOXICC100	PTOXICC100	PL091970.D	23 Sep 2024 14:40		AR\AJ	Ok,M
20	PSTDICV050	ICVPL092324	PL091971.D	23 Sep 2024 14:53		AR\AJ	Ok
21	PCHLORICV500	ICVPL092324CHLOR	PL091972.D	23 Sep 2024 15:20		AR\AJ	Ok
22	PTOXICV500	ICVPL092324TOX	PL091973.D	23 Sep 2024 15:47		AR\AJ	Ok
23	I.BLK	I.BLK	PL091974.D	23 Sep 2024 16:13		AR\AJ	Ok
24	PEM	PEM	PL091975.D	23 Sep 2024 16:27		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PL091976.D	23 Sep 2024 16:40		AR\AJ	Ok,M
26	PB163572BL	PB163572BL	PL091977.D	23 Sep 2024 16:54		AR\AJ	Ok
27	PB163572BS	PB163572BS	PL091978.D	23 Sep 2024 17:07		AR\AJ	Ok,M
28	P4103-02	WC-22A	PL091979.D	23 Sep 2024 17:20	TCMX low 1st column	AR\AJ	Ok,M
29	P4103-02MS	WC-22AMS	PL091980.D	23 Sep 2024 17:34	TCMX low 1st column	AR\AJ	Ok,M
30	P4103-02MSD	WC-22AMSD	PL091981.D	23 Sep 2024 17:47	TCMX low 1st column	AR\AJ	Ok,M
31	P4103-05	WC-14-5-7.5A	PL091982.D	23 Sep 2024 18:01		AR\AJ	Ok
32	P4103-08	WC-14-5-7.5B	PL091983.D	23 Sep 2024 18:14		AR\AJ	Ok,M
33	P4103-11	WC-14-7.5-10A	PL091984.D	23 Sep 2024 18:28		AR\AJ	Ok,M
34	P4103-14	WC-14-7.5-10B	PL091985.D	23 Sep 2024 18:41		AR\AJ	Ok,M
35	P4103-17	WC-23	PL091986.D	23 Sep 2024 18:55		AR\AJ	Ok,M
36	PB163511TB	PB163511TB	PL091987.D	23 Sep 2024 19:08		AR\AJ	Ok,M
37	I.BLK	I.BLK	PL091988.D	23 Sep 2024 19:21		AR\AJ	Ok,M

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL092324

Review By	Abdul	Review On	9/24/2024 9:27:05 AM				
Supervise By	Ankita	Supervise On	9/24/2024 11:07:44 AM				
SubDirectory	PL092324	HP Acquire Method	HP Processing Method		pl092324 8081		
STD. NAME		STD REF.#					
Tune/Reschk		PP23282,PP23517					
Initial Calibration Stds		PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683					
CCC		PP23686,PP23690,PP23695					
Internal Standard/PEM							
ICV/I.BLK		PP23687,PP23693,PP23698					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

38	PSTDCCC050	PSTDCCC050	PL091989.D	23 Sep 2024 19:35		AR\AJ	Ok,M
----	------------	------------	------------	-------------------	--	-------	------

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL092424

Review By	Abdul	Review On	9/25/2024 10:49:05 AM
Supervise By	Ankita	Supervise On	9/25/2024 2:18:21 PM
SubDirectory	PL092424	HP Acquire Method	HP Processing Method p1092324 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23282,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL091990.D	24 Sep 2024 09:15		AR\AJ	Ok
2	I.BLK	I.BLK	PL091991.D	24 Sep 2024 09:28		AR\AJ	Ok
3	PEM	PEM	PL091992.D	24 Sep 2024 09:41		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL091993.D	24 Sep 2024 09:55		AR\AJ	Ok,M
5	PCHLORCCC500	PCHLORCCC500	PL091994.D	24 Sep 2024 12:02		AR\AJ	Ok,M
6	PTOXCCC500	PTOXCCC500	PL091995.D	24 Sep 2024 12:16		AR\AJ	Ok
7	P3845-09	PT-PEST-WP	PL091996.D	24 Sep 2024 12:35	TCMX high in 1st column, Need dilution	AR\AJ	Dilution
8	P3845-11	PT-CHLR-WP	PL091997.D	24 Sep 2024 12:49	TCMX high in 2nd column	AR\AJ	Ok,M
9	P3845-13	PT-TXP-WP	PL091998.D	24 Sep 2024 13:02	Need Dilution	AR\AJ	Dilution
10	P3845-09DL	PT-PEST-WPDL	PL091999.D	24 Sep 2024 13:19	TCMX high in first column , need dilution.	AR\AJ	Dilution
11	P3845-09DL2	PT-PEST-WPDL2	PL092000.D	24 Sep 2024 13:32	TCMX high in first column	AR\AJ	Ok,M
12	P3845-13DL	PT-TXP-WPDL	PL092001.D	24 Sep 2024 13:54		AR\AJ	Ok,M
13	I.BLK	I.BLK	PL092002.D	24 Sep 2024 14:08		AR\AJ	Ok
14	PSTDCCC050	PSTDCCC050	PL092003.D	24 Sep 2024 14:21		AR\AJ	Ok,M
15	PCHLORCCC500	PCHLORCCC500	PL092004.D	24 Sep 2024 14:35		AR\AJ	Ok
16	PTOXCCC500	PTOXCCC500	PL092005.D	24 Sep 2024 14:48		AR\AJ	Ok
17	PB163645BL	PB163645BL	PL092006.D	24 Sep 2024 15:01		AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL092424

Review By	Abdul	Review On	9/25/2024 10:49:05 AM
Supervise By	Ankita	Supervise On	9/25/2024 2:18:21 PM
SubDirectory	PL092424	HP Acquire Method	HP Processing Method pl092324 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23282,PP23517		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	PB163645BS	PB163645BS	PL092007.D	24 Sep 2024 15:32	Some compound Recovry fail	AR\AJ	Not Ok
19	P4149-13	COMP-6	PL092008.D	24 Sep 2024 15:45		AR\AJ	Ok,M
20	P4149-14	COMP-7	PL092009.D	24 Sep 2024 15:59	Need dilution	AR\AJ	Dilution
21	P4149-15	COMP-8	PL092010.D	24 Sep 2024 16:12		AR\AJ	Ok,M
22	P4149-15MS	COMP-8MS	PL092011.D	24 Sep 2024 16:26		AR\AJ	Ok,M
23	P4149-15MSD	COMP-8MSD	PL092012.D	24 Sep 2024 16:39		AR\AJ	Ok,M
24	PB163645BS	PB163645BS	PL092013.D	24 Sep 2024 16:52		AR\AJ	Ok,M
25	I.BLK	I.BLK	PL092014.D	24 Sep 2024 17:06		AR\AJ	Ok
26	PSTDCCC050	PSTDCCC050	PL092015.D	24 Sep 2024 17:19		AR\AJ	Ok,M
27	P4142-01	OR-02-09202024	PL092016.D	24 Sep 2024 05:46 pm		AR\AJ	Ok,M
28	P4146-01	CL-02-092024	PL092017.D	24 Sep 2024 18:00		AR\AJ	Ok,M
29	P4148-01	STOCK-PILE	PL092018.D	24 Sep 2024 18:13		AR\AJ	Ok,M
30	P4150-01	OK-02-09132024	PL092019.D	24 Sep 2024 18:27		AR\AJ	Ok
31	I.BLK	I.BLK	PL092020.D	24 Sep 2024 18:40		AR\AJ	Ok
32	PSTDCCC050	PSTDCCC050	PL092021.D	24 Sep 2024 19:20		AR\AJ	Ok,M

M : Manual Integration

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

Clean Up SOP #: Florisil

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strlp Lot#: E3574

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 09/09/2024

Extraction Start Time : 10:00

Extraction End Date : 09/09/2024

Extraction End Time : 15:00

Concentration By: RS

Supervisor By : rajesh

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

Standarded Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	2.0ML	1000 PPB	PP23504
Surrogate	1.0ML	200 PPB	PP23608
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	E3790
Baked Na2SO4	N/A	EP2532
Hexane	N/A	E3789
Florisil	N/A	E3713
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40ML Vial Lot # 03-40BTS721.

KD Bath ID: WATER BATH-1,2

Envap ID: NE VAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/09/24	RP (Ext 705)	Y.P. Peltipca
15:05	Preparation Group	Analysis Group

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

Concentration Date: 09/09/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB163230BL	PBLK230	PESTICIDE Group2	1000	6	RUPESH	ritesh	10			SEP-6
PB163230BS	PLCS230	PESTICIDE Group2	1000	6	RUPESH	ritesh	10			7
P3845-11	PT-CHLR-WP	PESTICIDE Group2	1000	6	RUPESH	ritesh	10			8

* Extracts relinquished on the same date as received.

8/9/24

09/09/24
10:03:18
P3845-PESTICIDE Group2

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p3845 WorkList ID : 183286 Department : Extraction Date : 09-09-2024 10:03:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3845-09	PT-PEST-WP	Water	PESTICIDE Group1	Cool 4 deg C	CHEM02	QA Of	09/03/2024	8081B
P3845-11	PT-CHLR-WP	Water	PESTICIDE Group2	Cool 4 deg C	CHEM02	QA Of	09/03/2024	8081B
P3845-13	PT-TXP-WP	Water	PESTICIDE Group3	Cool 4 deg C	CHEM02	QA Of	09/03/2024	8081B
P3853-01	252805	Water	Pesticide-TCL	Cool 4 deg C	PSEG03	H53	09/05/2024	8081B

Date/Time 09/09/24 10:05
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 09/09/24 10:20
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

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

Prep Standard - Chemical Standard Summary

Order ID : P3845
Test : PESTICIDE Group2
Prepbatch ID : PB163230,
Sequence ID/Qc Batch ID: pl091024,pl091724,PL092424,

Standard ID :

EP2532,PP23215,PP23282,PP23472,PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,P
P23481,PP23482,PP23484,PP23487,PP23489,PP23494,PP23497,PP23498,PP23504,PP23517,PP23608,PP23673,P
P23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683,PP23686,PP23687,P
P23690,PP23693,PP23695,PP23698,

Chemical ID :

E3551,E3713,E3735,E3762,E3763,E3770,E3772,E3789,E3790,E3792,P11065,P11145,P11146,P11815,P11895,P11896
,P12599,P12810,P12812,P12814,P13035,P13036,P13039,P13244,P13349,P13358,P13359,P13402,P9051,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2532	08/30/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 08/30/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
84	Pest/PCB Surrogate Stock 20 PPM	PP23215	04/22/2024	10/22/2024	Ankita Jodhani	None	None	Yogesh Patel 04/22/2024

FROM 1.00000ml of P12810 + 9.00000ml of E3735 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
518	Pest/PCB I.BLK 20 PPB	PP23282	04/22/2024	10/22/2024	Ankita Jodhani	None	None	Yogesh Patel
								04/22/2024

FROM 99.90000ml of E3735 + 0.10000ml of PP23215 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
84	Pest/PCB Surrogate Stock 20 PPM	PP23472	06/20/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/21/2024

FROM 1.00000ml of P12812 + 9.00000ml of E3762 = 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>
3629	20 PPM PEST stock Solution 1st source(RESTEK)	PP23473	06/20/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
06/21/2024								

FROM 1.00000ml of P11065 + 9.00000ml of E3762 = 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	PP23474	06/20/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
06/21/2024								

FROM 1.00000ml of P13035 + 9.00000ml of E3762 = 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)	PP23475	06/20/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
06/21/2024								

FROM 0.20000ml of P9051 + 9.80000ml of E3762 = 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)	PP23476	06/20/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
06/21/2024								

FROM 0.20000ml of P11145 + 9.80000ml of E3762 = 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>
3630	100/100 PPB PEST Working std.1st Source(RESTEK)	PP23477	06/20/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/21/2024

FROM 98.50000ml of E3762 + 0.50000ml of PP23472 + 0.50000ml of PP23473 + 0.50000ml of PP23475 = 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>
80	100/100 PPB Pesticide Working Solution 2nd Source	PP23478	06/20/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/21/2024

FROM 98.50000ml of E3762 + 0.50000ml of PP23472 + 0.50000ml of PP23474 + 0.50000ml of PP23476 = 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>
386	1000/100 PPB Chlordane STD (Restek)	PP23479	06/20/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
06/21/2024								

FROM 0.10000ml of P11895 + 99.40000ml of E3762 + 0.50000ml of PP23472 = 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>
3746	1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE	PP23480	06/20/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
06/21/2024								

FROM 0.10000ml of P12599 + 99.40000ml of E3762 + 0.50000ml of PP23472 = 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>
383	1000/100 PPB Toxaphene STD (Restek)	PP23481	06/20/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/21/2024

FROM 0.10000ml of P11815 + 99.40000ml of E3762 + 0.50000ml of PP23472 = 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>
3669	1000/100 PPB TOXAPHENE STD 2nd source (RESTEK)	PP23482	06/20/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/21/2024

FROM 0.10000ml of P13358 + 99.40000ml of E3762 + 0.50000ml of PP23472 = 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>
3632	50 PPB ICAL PEST STD(RESTEK)	PP23484	06/24/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani 06/24/2024

FROM 0.50000ml of E3762 + 0.50000ml of PP23477 = 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)	PP23487	06/24/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani 06/24/2024

FROM 0.50000ml of E3762 + 0.50000ml of PP23478 = 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>
529	CHLOR 500 PPB STD	PP23489	06/24/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
06/24/2024								

FROM 0.50000ml of E3762 + 0.50000ml of PP23479 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
534	TOX 500 PPB STD	PP23494	06/24/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
06/24/2024								

FROM 0.50000ml of E3762 + 0.50000ml of PP23481 = 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	PP23497	06/24/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
06/24/2024								

FROM 0.50000ml of E3762 + 0.50000ml of PP23480 = 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)	PP23498	06/24/2024	12/18/2024	Abdul Mirza	None	None	Ankita Jodhani
06/24/2024								

FROM 0.50000ml of E3762 + 0.50000ml of PP23482 = 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>
1501	1000 ppb CHLORDANE SPIKE (RESTEK)	PP23504	07/01/2024	12/20/2024	Abdul Mirza	None	None	Ankita Jodhani
07/02/2024								

FROM 0.10000ml of P12599 + 99.90000ml of E3763 = 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>
4027	Pesticide resolution Check Mixture 8081	PP23517	07/12/2024	01/12/2025	Abdul Mirza	None	None	Ankita Jodhani
07/16/2024								

FROM 1.00000ml of E3770 + 99.00000ml of P13244 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
465	200 PPB Pest/PCB Surrogate Spike	PP23608	08/08/2024	02/01/2025	Abdul Mirza	None	None	Ankita Jodhani 08/08/2024

FROM 1.00000ml of P12814 + 999.00000ml of E3772 = 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>
84	Pest/PCB Surrogate Stock 20 PPM	PP23673	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

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

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)	PP23674	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
10/01/2024								

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

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

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

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)	PP23676	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

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

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

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

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>
3630	100/100 PPB PEST Working std.1st Source(RESTEK)	PP23678	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

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

<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	PP23679	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 98.50000ml of E3792 + 0.50000ml of PP23673 + 0.50000ml of PP23675 + 0.50000ml of PP23677 = 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>
386	1000/100 PPB Chlordane STD (Restek)	PP23680	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

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

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

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

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>
383	1000/100 PPB Toxaphene STD (Restek)	PP23682	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

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

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

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

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)	PP23686	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

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

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

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

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>
529	CHLOR 500 PPB STD	PP23690	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
10/01/2024								

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

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

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

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	PP23695	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
10/01/2024								

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

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

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

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
phenomenex	FS0006 / Cleanert SPE Silica, 1000 mg/6ml, 30PK	M06485	10/08/2024	04/08/2024 / Rajesh	03/08/2024 / Rajesh	E3713

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	10/22/2024	04/22/2024 / Rajesh	04/19/2024 / Rajesh	E3735

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	12/18/2024	06/18/2024 / Rajesh	06/17/2024 / Rajesh	E3762

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)	23H1462005	12/25/2024	06/25/2024 / Rajesh	06/20/2024 / Rajesh	E3763

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	04/15/2025	07/12/2024 / Rajesh	07/02/2024 / Rajesh	E3770

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	22L2862006	02/01/2025	08/01/2024 / Rajesh	07/19/2024 / Rajesh	E3772

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	02/13/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3789

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)	24G0862022	02/26/2025	08/26/2024 / Rajesh	08/07/2024 / Rajesh	E3790

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0168439	12/20/2024	06/20/2024 / Abdul	09/29/2021 / Abdul	P11065

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	102821	12/20/2024	06/20/2024 / Abdul	10/29/2021 / Abdul	P11145

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0177326	12/20/2024	06/20/2024 / Abdul	06/17/2022 / Ankita	P11815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0181737	12/20/2024	06/20/2024 / Abdul	06/17/2022 / Abdul	P11895

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0193299	12/20/2024	06/20/2024 / Abdul	07/03/2023 / Abdul	P12599

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	A0200112	10/22/2024	04/22/2024 / Ankita	09/25/2023 / Abdul	P12810

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	A0200112	12/20/2024	06/20/2024 / Abdul	09/25/2023 / Abdul	P12812

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	A0200112	02/08/2025	08/08/2024 / Abdul	09/25/2023 / Abdul	P12814

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	12/20/2024	06/20/2024 / Abdul	12/26/2023 / Abdul	P13035

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

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

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

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	A0206810	03/21/2025	09/21/2024 / Abdul	04/22/2024 / Abdul	P13349

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203830	12/20/2024	06/20/2024 / Abdul	05/03/2024 / Abdul	P13358

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

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

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	12/20/2024	06/20/2024 / Abdul	11/01/2019 / Stephen	P9051



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32021 **Lot No.:** A0193299

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

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

Expiration Date : April 30, 2029 **Storage:** 10°C or colder
Ship: Ambient

P12596
↓
P12602
⑦
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	---%	1,010.0 µg/mL	+/- 56.0475

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

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

Tech Tips:

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

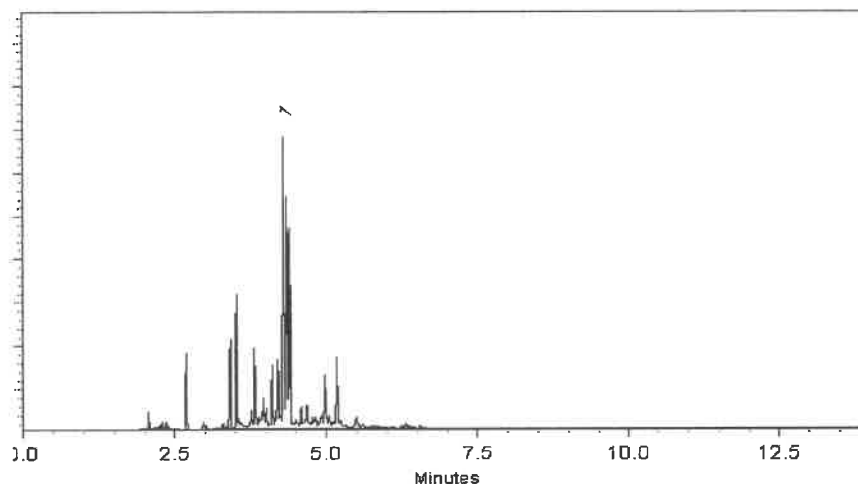
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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


Bryan Snyder - Operations Tech I

Date Mixed: 06-Jan-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jan-2023

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0200112

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, 2029 **Storage:** 10°C or colder

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

P 12806 / 10
P 12815 / 1
V. R. AUF
9/25/2023

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%	201.3 µg/mL	+/- 11.1676
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30679	99%	201.5 µg/mL	+/- 11.1787

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

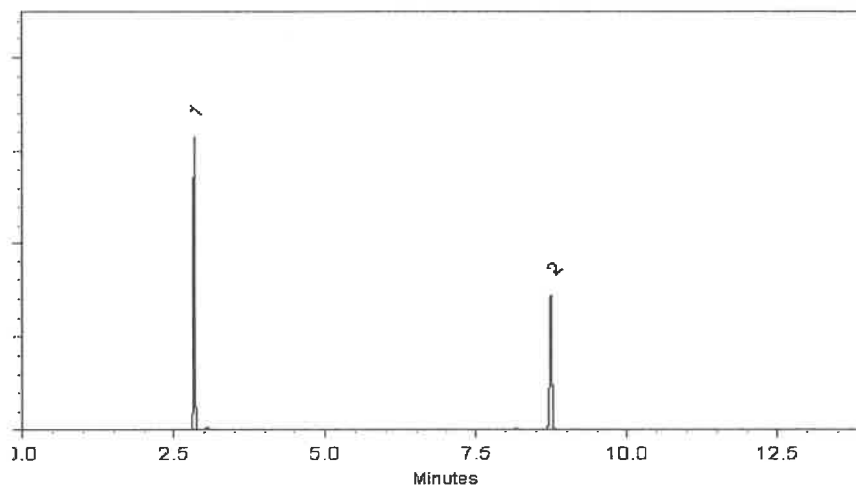
ECD

Split Vent:

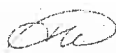
10 ml/min.

Inj. Vol

1µl



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


Jess Hoy - Operations Tech I

Date Mixed: 20-Jul-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jul-2023

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

P12806 } (10)
↓
P12815
/


9/25/2023



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0200112

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, 2029 **Storage:** 10°C or colder

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

P 12806 / 10
P 12815 / 1
V. R. AUF
9/25/2023

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%	201.3 µg/mL	+/- 11.1676
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30679	99%	201.5 µg/mL	+/- 11.1787

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

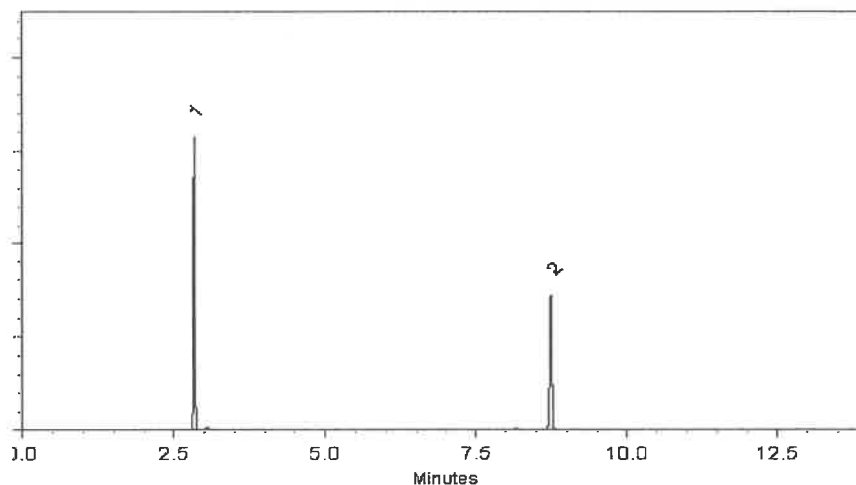
ECD

Split Vent:

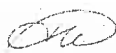
10 ml/min.

Inj. Vol

1µl



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


Jess Hoy - Operations Tech I

Date Mixed: 20-Jul-2023

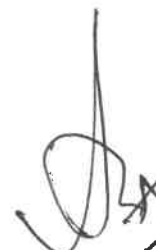
Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jul-2023

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

P12806 } (10)
↓
P12815
/


9/25/2023



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32000 **Lot No.:** A0200112

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, 2029 **Storage:** 10°C or colder

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

P 12806 / 10
P 12815 / 1
V. R. AUF
9/25/2023

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%	201.3 µg/mL	+/- 11.1676
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30679	99%	201.5 µg/mL	+/- 11.1787

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

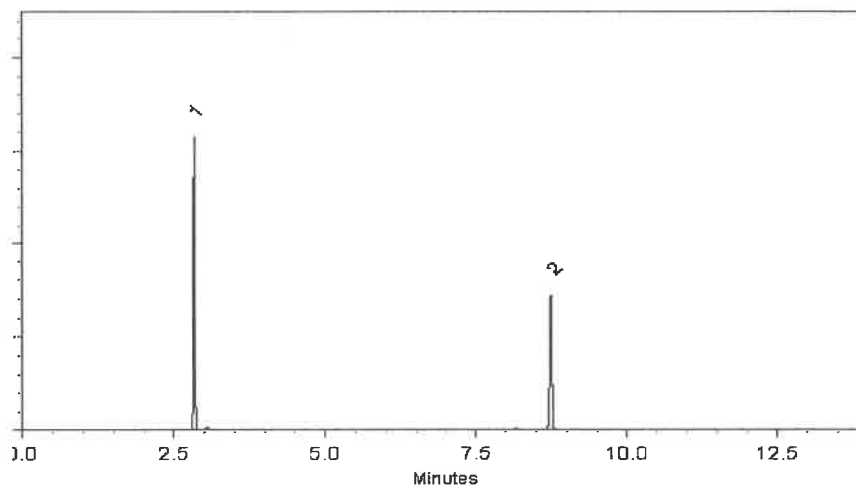
ECD

Split Vent:

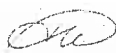
10 ml/min.

Inj. Vol

1µl



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


Jess Hoy - Operations Tech I

Date Mixed: 20-Jul-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jul-2023

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

P12806 } (10)
↓
P12815
/


9/25/2023



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

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

CERTIFICATE OF ANALYSIS

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

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

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

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

RC-02-01, Ed. 3

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



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

Certificate of Analysis

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

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

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

Recd. by RP on 4/19/24

E3735

Jamie Croak
Director Quality Operations, Bioscience Production

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

Certificate of Analysis

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

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

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

Recd. by RP on 6/11/24

E 3762

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 23H1462005

Manufactured Date: 2023-07-26

Expiration Date: 2026-07-25

Revision No.: 0

Certificate of Analysis

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

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

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3763

Recd. by RP on 6/20/24

Ken Koehnlein
Sr. Manager, Quality Assurance

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

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

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

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

Recd. by RP on 7/21/24

E 3769

Ken Koehnlein
Sr. Manager, Quality Assurance

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 22L2862006
Manufactured Date: 2022-12-19
Expiration Date: 2025-12-18
Revision No.: 0

Certificate of Analysis

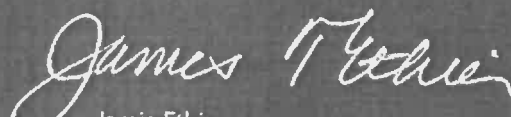
Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4

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

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

Recd by RP on 7/19/24

E3772


Jamie Ethier
Vice President Global Quality

Material No.: 94
Batch No.: 24C186
Manufactured Date: 2024
Expiration Date: 2025
Revision: 0

Certificate of Analysis

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

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

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

Recd. by RP on 8/13/24

E 3789



Jamie Croak
Director Quality Operations, Bioscience Products

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

Page 1 of 1

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



Material No.: 9266-A4
Batch No.: 24G0862022
Manufactured Date: 2024-06-05
Expiration Date: 2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F05012

E 3790

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor™



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

Certificate of Analysis

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

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

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

Recd by RP on 09/11/24

E 3192

Jamie Croak
Director Quality Operations, Bioscience Production



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Chlordane Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

Solvent: Hexane

CAS # 110-54-3

Purity 99%

Tech Tips:

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

P 11892
↓
P 11896
5

06/17/2022

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

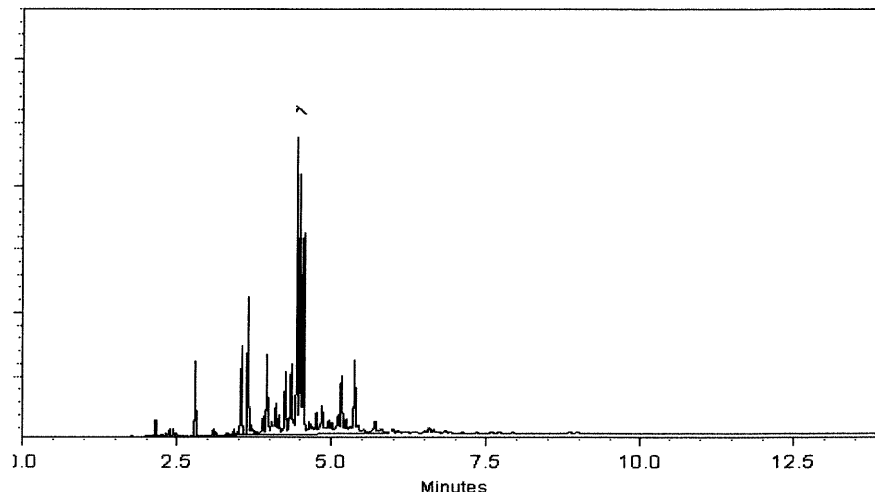
Carrier Gas:
helium-constant pressure 20 psi.

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

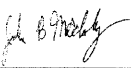
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

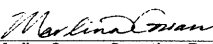


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Josh McCloskey - Operations Technician I

Date Mixed: 11-Feb-2022

Balance: B442140311


Marlina Cowan - Operations Tech I

Date Passed: 24-Feb-2022

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

P 11892 / (5)
↓
P 11896 / 1


06/17/2022



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Chlordane Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

Tech Tips:

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

P 11892
↓
P 11896
5

06/17/2022

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

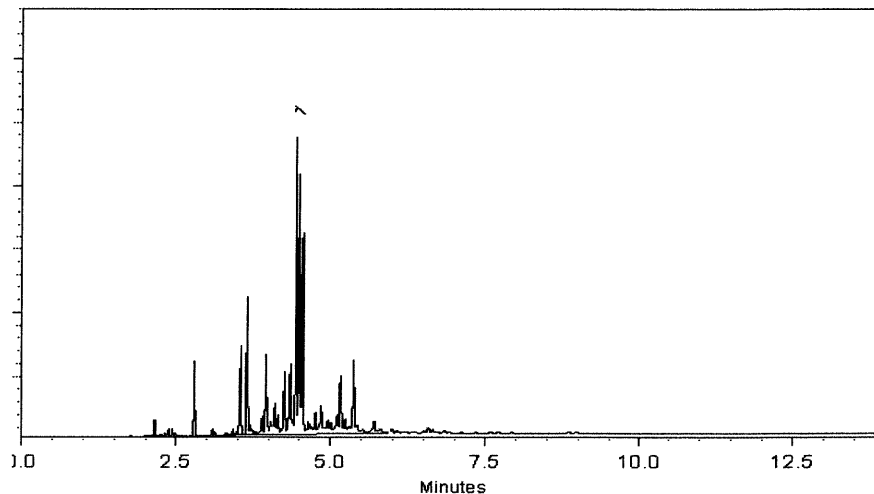
Carrier Gas:
helium-constant pressure 20 psi.

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

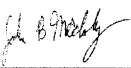
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

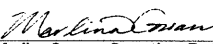


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Josh McCloskey - Operations Technician I

Date Mixed: 11-Feb-2022

Balance: B442140311


Marlina Cowan - Operations Tech I

Date Passed: 24-Feb-2022

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

P 11892
↓
P 11896 / (5)


06/17/2022



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Organochlorine Pesticide Mix AB #1

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

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

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

Ship: Ambient

P130397 5
↓
P13043 1
✓
12-26-2023

CERTIFIED VALUES

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

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

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

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

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.)

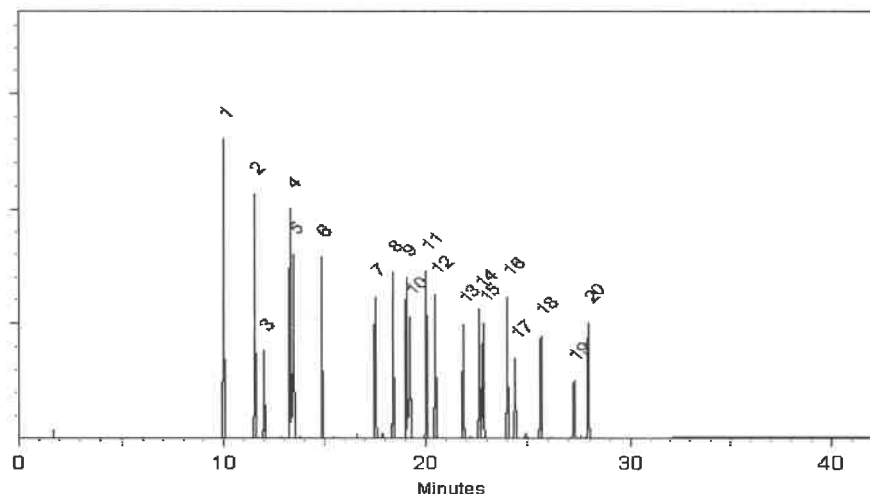
Inj. Temp:
 200°C

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 REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32291 **Lot No.:** A0168439

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 : January 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

P11061
↓
P11065
AR
9/30/2021

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	alpha-BHC CAS # 319-84-6 (Lot 0012018BHC) Purity 99%	200.5 µg/mL	+/- 1.4217 µg/mL +/- 9.1674 µg/mL +/- 13.2104 µg/mL	Gravimetric Unstressed Stressed
2	gamma-BHC (Lindane) CAS # 58-89-9 (Lot 10972000) Purity 97%	200.8 µg/mL	+/- 1.4238 µg/mL +/- 9.1807 µg/mL +/- 13.2295 µg/mL	Gravimetric Unstressed Stressed
3	beta-BHC CAS # 319-85-7 (Lot SL210106) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL +/- 9.1446 µg/mL +/- 13.1774 µg/mL	Gravimetric Unstressed Stressed
4	delta-BHC CAS # 319-86-8 (Lot ER02101401) Purity 98%	199.9 µg/mL	+/- 1.4176 µg/mL +/- 9.1409 µg/mL +/- 13.1722 µg/mL	Gravimetric Unstressed Stressed
5	Heptachlor CAS # 76-44-8 (Lot 0006540595) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL +/- 9.1446 µg/mL +/- 13.1774 µg/mL	Gravimetric Unstressed Stressed
6	Aldrin CAS # 309-00-2 (Lot 11129800) Purity 97%	199.8 µg/mL	+/- 1.4169 µg/mL +/- 9.1363 µg/mL +/- 13.1656 µg/mL	Gravimetric Unstressed Stressed
7	Heptachlor epoxide (isomer B) CAS # 1024-57-3 (Lot 10039000) Purity 99%	200.5 µg/mL	+/- 1.4217 µg/mL +/- 9.1674 µg/mL +/- 13.2104 µg/mL	Gravimetric Unstressed Stressed

8	trans-Chlordane CAS # 5103-74-2 Purity 99%	(Lot 32095)	200.5 µg/mL	+/- +/- +/-	1.4217 9.1674 13.2104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	cis-Chlordane CAS # 5103-71-9 Purity 99%	(Lot 31707)	200.0 µg/mL	+/- +/- +/-	1.4182 9.1446 13.1774	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Endosulfan I CAS # 959-98-8 Purity 99%	(Lot BCBS8631)	200.5 µg/mL	+/- +/- +/-	1.4217 9.1674 13.2104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	4,4'-DDE CAS # 72-55-9 Purity 99%	(Lot GHYQG)	200.0 µg/mL	+/- +/- +/-	1.4182 9.1446 13.1774	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Dieldrin CAS # 60-57-1 Purity 98%	(Lot 10714300)	200.4 µg/mL	+/- +/- +/-	1.4211 9.1633 13.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	Endrin CAS # 72-20-8 Purity 98%	(Lot 11129700)	199.9 µg/mL	+/- +/- +/-	1.4176 9.1409 13.1722	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	4,4'-DDD CAS # 72-54-8 Purity 99%	(Lot HAN02)	200.5 µg/mL	+/- +/- +/-	1.4217 9.1674 13.2104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Endosulfan II CAS # 33213-65-9 Purity 99%	(Lot 11129400)	201.0 µg/mL	+/- +/- +/-	1.4253 9.1903 13.2433	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	4,4'-DDT CAS # 50-29-3 Purity 99%	(Lot S37912V)	200.0 µg/mL	+/- +/- +/-	1.4182 9.1446 13.1774	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Endrin aldehyde CAS # 7421-93-4 Purity 98%	(Lot 30455)	200.9 µg/mL	+/- +/- +/-	1.4245 9.1857 13.2367	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Endosulfan sulfate CAS # 1031-07-8 Purity 99%	(Lot BCCB0424)	200.0 µg/mL	+/- +/- +/-	1.4182 9.1446 13.1774	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Methoxychlor CAS # 72-43-5 Purity 97%	(Lot 10720900)	199.8 µg/mL	+/- +/- +/-	1.4169 9.1363 13.1656	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Endrin ketone CAS # 53494-70-5 Purity 97%	(Lot 11129600)	199.8 µg/mL	+/- +/- +/-	1.4169 9.1363 13.1656	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent: Hexane/Toluene (50:50) CAS # 110-54-3/108-88-3 Purity 99%							

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

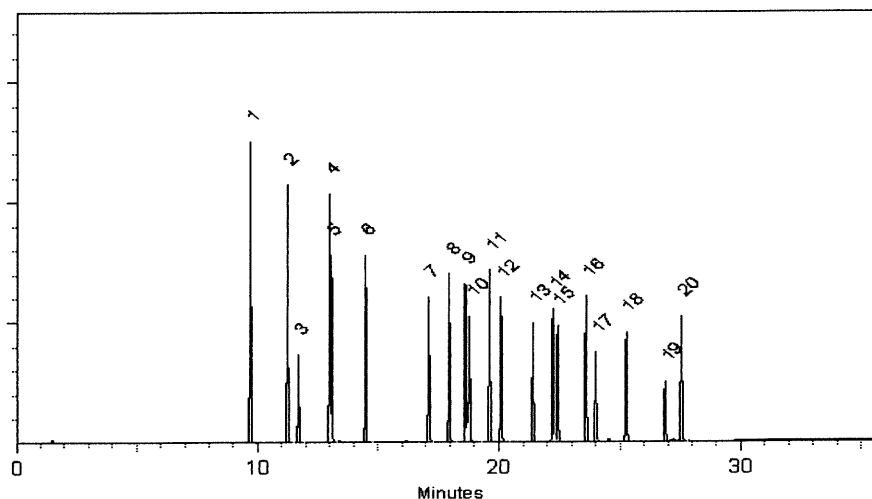
Carrier Gas:
helium-constant pressure 20 psi.

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

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



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.

Matt Fragassi
Matt Fragassi - Mix Technician

Date Mixed: 25-Jan-2021

Balance: 1128342314

Marlene Cowan
Marlene Cowan - Operations Tech I

Date Passed: 29-Jan-2021

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

P11061
↓
P11065
AR
9/30/2021

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

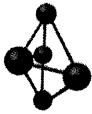
- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



Certified Reference Material CRM



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

CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

79136
102821
Mirex

Solvent(s):
Acetone

Lot#
81025

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

102826
Refrigerate (4 °C)
1000
6UTB

5E-05 Balance Uncertainty
0.006 Flask Uncertainty

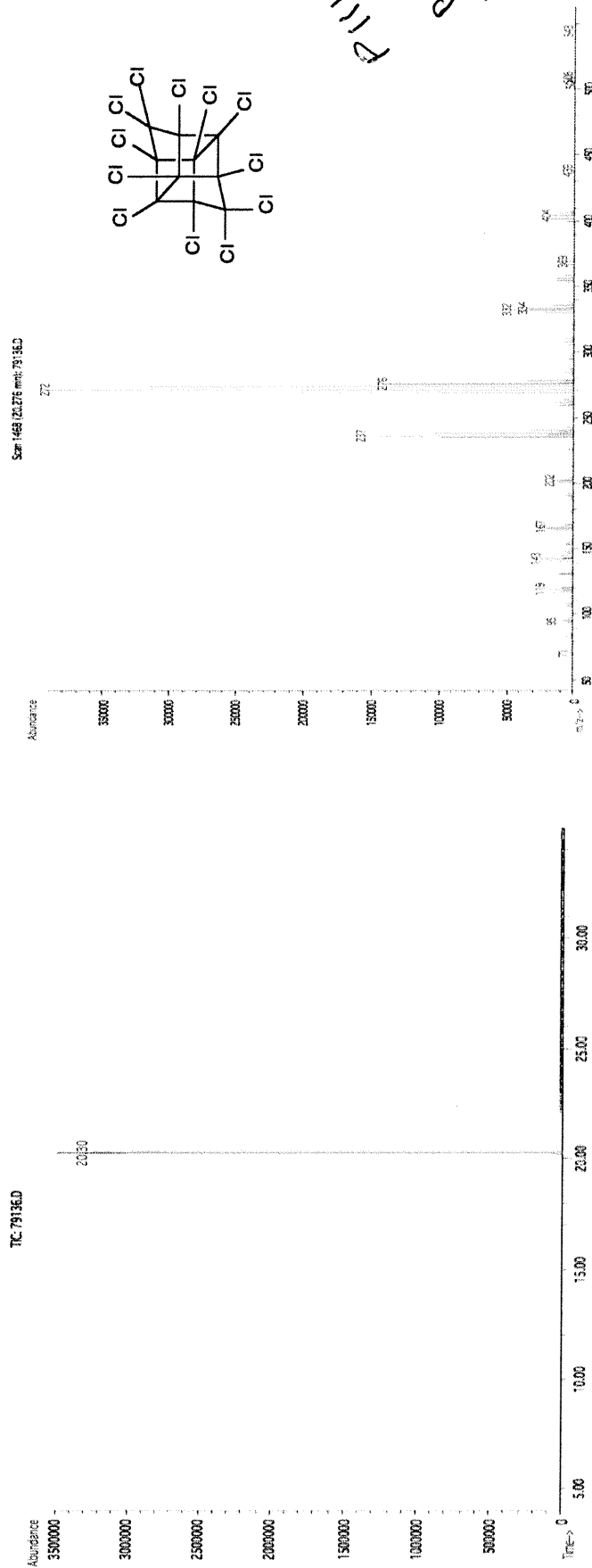
Weight(s) shown below were combined and diluted to (mL):

50.0

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

1. Mirex 437 9492400 1000 99.4 0.5 0.05034 0.05039 1000.9 10.3 2385-85-5 N/A orl-rat 306mg/kg

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



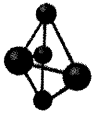
The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.

Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).

Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.

All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.

Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

79136
102821
Mirex

Solvent(s):
Acetone

Lot#
81025

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

102826
Refrigerate (4 °C)
1000
6UTB

5E-05 Balance Uncertainty
0.006 Flask Uncertainty

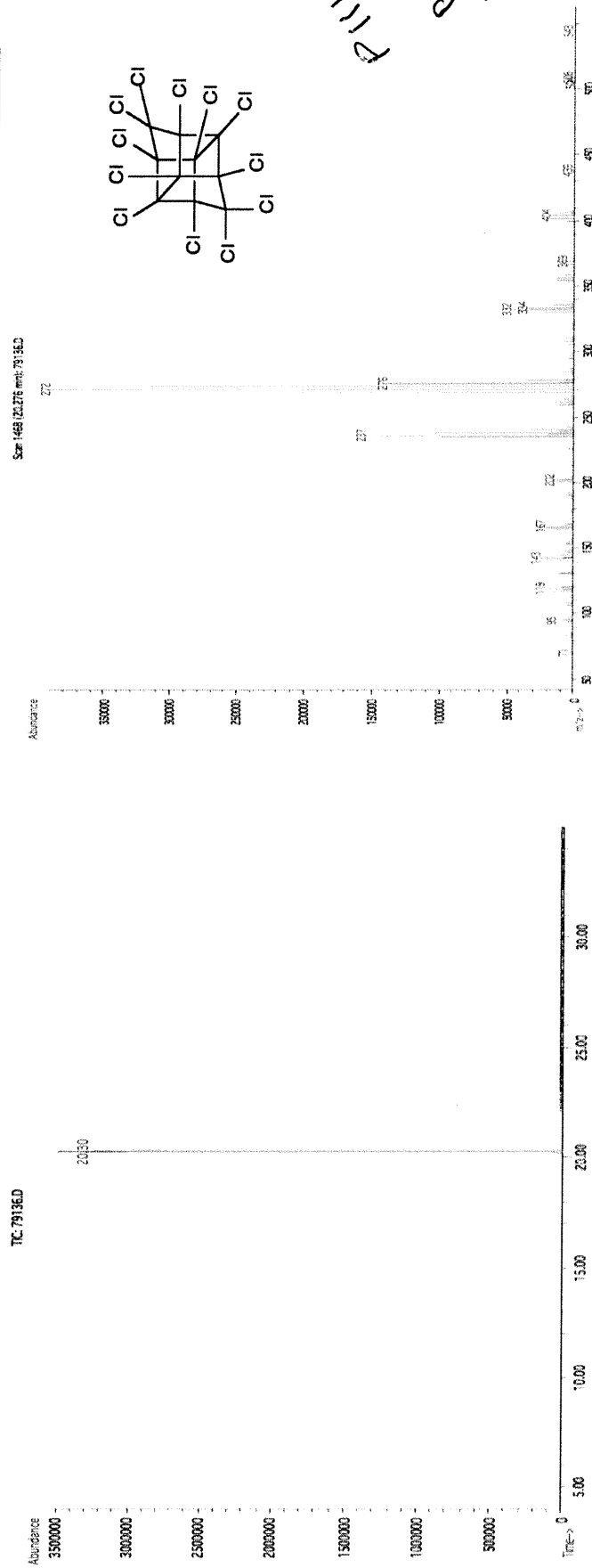
Weight(s) shown below were combined and diluted to (mL):

50.0

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

1. Mirex 437 9492400 1000 99.4 0.5 0.05034 0.05039 1000.9 10.3 2385-85-5 N/A on-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.



• 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).



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 32005 Lot No.: A0177326
Description: Toxaphene Standard
Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: January 31, 2026 Storage: 10°C or colder
Ship: Ambient

P11811
✓
P11819
AJ
06/17/22

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Toxaphene	1,004.7 µg/mL	+/- 5.9674 µg/mL Gravimetric
	CAS # 8001-35-2 (Lot 1051817)		+/- 31.8552 µg/mL Unstressed
	Purity ----%		+/- 41.6063 µg/mL Stressed

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

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

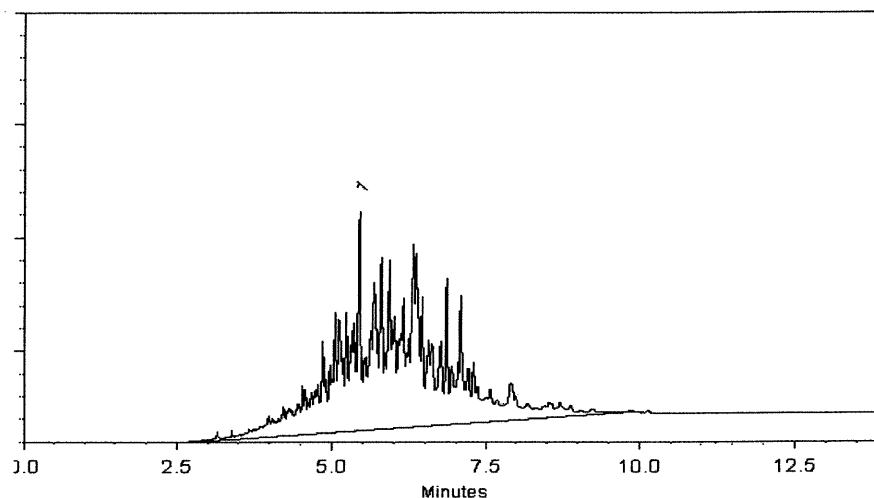
250°C

Det. Temp:

300°C

Det. Type:

ECD



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 11-Oct-2021

Balance: B442140311

Marlina Cowan
Marlina Cowan - Operations Tech I

Date Passed: 14-Oct-2021

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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



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.)

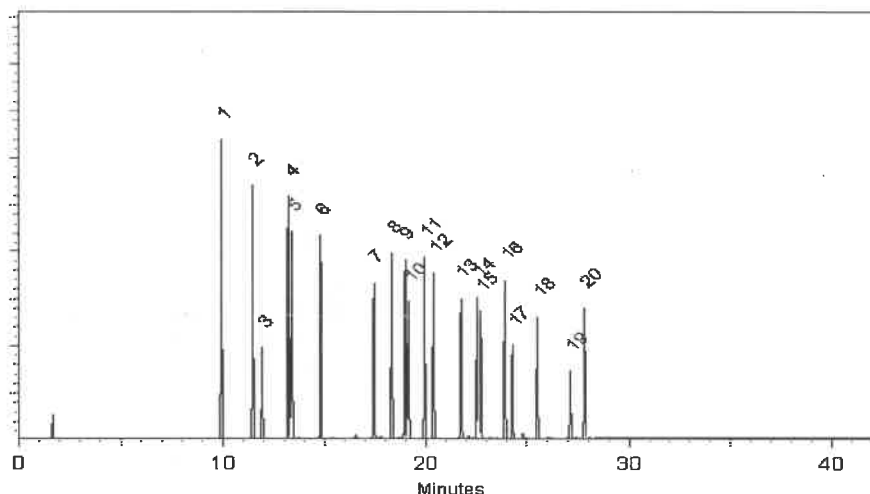
Inj. Temp:
200°C

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



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.)

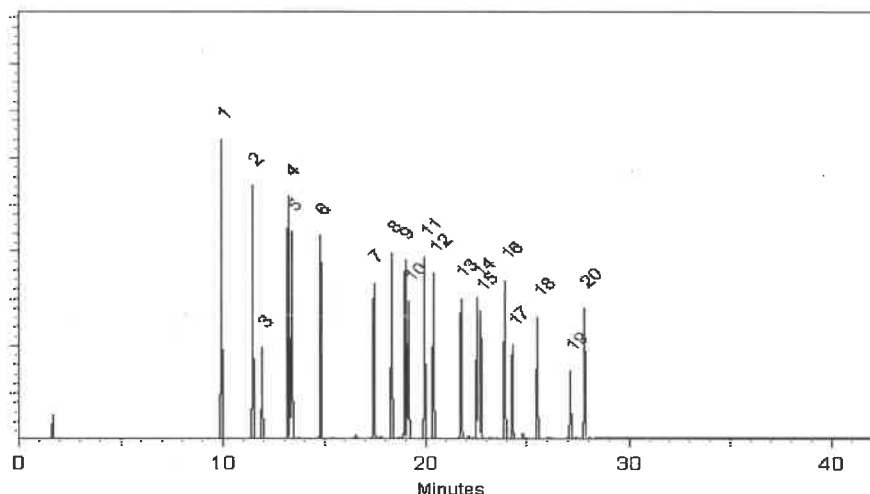
Inj. Temp:
200°C

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 Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **19161**
Lot Number: **013124**
Description: **CIP Pesticides & PCBs Resolution Check Standard**

Expiration Date: **013129**
Recommended Storage: **Varied**
Nominal Concentration (µg/mL): **6UTB**

Volume(s) shown below were combined and diluted to (mL): **100.0**

Balance Uncertainty: **5E-05**
Pipette Uncertainty: **0.021**

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

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty (mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty (±) µg/mL	(Solvent Safety Info. On Attached pg.)	SDS Information	LD50
----------	-------------	------------	-------------	-------------------	------------------	-----------------------	---------------------	--------------------------------	--	-----------------	------

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

1913243
1913244
1913245
1913246
1913247
1913248
1913249
1913250
1913251
1913252
1913253
1913254
1913255
1913256
1913257
1913258
1913259
1913260
1913261
1913262
1913263
1913264
1913265
1913266
1913267
1913268
1913269
1913270
1913271
1913272
1913273
1913274
1913275
1913276
1913277
1913278
1913279
1913280
1913281
1913282
1913283
1913284
1913285
1913286
1913287
1913288
1913289
1913290
1913291
1913292
1913293
1913294
1913295
1913296
1913297
1913298
1913299
1913300
1913301
1913302
1913303
1913304
1913305
1913306
1913307
1913308
1913309
1913310
1913311
1913312
1913313
1913314
1913315
1913316
1913317
1913318
1913319
1913320
1913321
1913322
1913323
1913324
1913325
1913326
1913327
1913328
1913329
1913330
1913331
1913332
1913333
1913334
1913335
1913336
1913337
1913338
1913339
1913340
1913341
1913342
1913343
1913344
1913345
1913346
1913347
1913348
1913349
1913350
1913351
1913352
1913353
1913354
1913355
1913356
1913357
1913358
1913359
1913360
1913361
1913362
1913363
1913364
1913365
1913366
1913367
1913368
1913369
1913370
1913371
1913372
1913373
1913374
1913375
1913376
1913377
1913378
1913379
1913380
1913381
1913382
1913383
1913384
1913385
1913386
1913387
1913388
1913389
1913390
1913391
1913392
1913393
1913394
1913395
1913396
1913397
1913398
1913399
1913400
1913401
1913402
1913403
1913404
1913405
1913406
1913407
1913408
1913409
1913410
1913411
1913412
1913413
1913414
1913415
1913416
1913417
1913418
1913419
1913420
1913421
1913422
1913423
1913424
1913425
1913426
1913427
1913428
1913429
1913430
1913431
1913432
1913433
1913434
1913435
1913436
1913437
1913438
1913439
1913440
1913441
1913442
1913443
1913444
1913445
1913446
1913447
1913448
1913449
1913450
1913451
1913452
1913453
1913454
1913455
1913456
1913457
1913458
1913459
1913460
1913461
1913462
1913463
1913464
1913465
1913466
1913467
1913468
1913469
1913470
1913471
1913472
1913473
1913474
1913475
1913476
1913477
1913478
1913479
1913480
1913481
1913482
1913483
1913484
1913485
1913486
1913487
1913488
1913489
1913490
1913491
1913492
1913493
1913494
1913495
1913496
1913497
1913498
1913499
1913500
1913501
1913502
1913503
1913504
1913505
1913506
1913507
1913508
1913509
1913510
1913511
1913512
1913513
1913514
1913515
1913516
1913517
1913518
1913519
1913520
1913521
1913522
1913523
1913524
1913525
1913526
1913527
1913528
1913529
1913530
1913531
1913532
1913533
1913534
1913535
1913536
1913537
1913538
1913539
1913540
1913541
1913542
1913543
1913544
1913545
1913546
1913547
1913548
1913549
1913550
1913551
1913552
1913553
1913554
1913555
1913556
1913557
1913558
1913559
1913560
1913561
1913562
1913563
1913564
1913565
1913566
1913567
1913568
1913569
1913570
1913571
1913572
1913573
1913574
1913575
1913576
1913577
1913578
1913579
1913580
1913581
1913582
1913583
1913584
1913585
1913586
1913587
1913588
1913589
1913590
1913591
1913592
1913593
1913594
1913595
1913596
1913597
1913598
1913599
1913600
1913601
1913602
1913603
1913604
1913605
1913606
1913607
1913608
1913609
1913610
1913611
1913612
1913613
1913614
1913615
1913616
1913617
1913618
1913619
1913620
1913621
1913622
1913623
1913624
1913625
1913626
1913627
1913628
1913629
1913630
1913631
1913632
1913633
1913634
1913635
1913636
1913637
1913638
1913639
1913640
1913641
1913642
1913643
1913644
1913645
1913646
1913647
1913648
1913649
1913650
1913651
1913652
1913653
1913654
1913655
1913656
1913657
1913658
1913659
1913660
1913661
1913662
1913663
1913664
1913665
1913666
1913667
1913668
1913669
1913670
1913671
1913672
1913673
1913674
1913675
1913676
1913677
1913678
1913679
1913680
1913681
1913682
1913683
1913684
1913685
1913686
1913687
1913688
1913689
1913690
1913691
1913692
1913693
1913694
1913695
1913696
1913697
1913698
1913699
1913700
1913701
1913702
1913703
1913704
1913705
1913706
1913707
1913708
1913709
1913710
1913711
1913712
1913713
1913714
1913715
1913716
1913717
1913718
1913719
1913720
1913721
1913722
1913723
1913724
1913725
1913726
1913727
1913728
1913729
1913730
1913731
1913732
1913733
1913734
1913735
1913736
1913737
1913738
1913739
1913740
1913741
1913742
1913743
1913744
1913745
1913746
1913747
1913748
1913749
1913750
1913751
1913752
1913753
1913754
1913755
1913756
1913757
1913758
1913759
1913760
1913761
1913762
1913763
1913764
1913765
1913766
1913767
1913768
1913769
1913770
1913771
1913772
1913773
1913774
1913775
1913776
1913777
1913778
1913779
1913780
1913781
1913782
1913783
1913784
1913785
1913786
1913787
1913788
1913789
1913790
1913791
1913792
1913793
1913794
1913795
1913796
1913797
1913798
1913799
1913800
1913801
1913802
1913803
1913804
1913805
1913806
1913807
1913808
1913809
1913810
1913811
1913812
1913813
1913814
1913815
1913816
1913817
1913818
1913819
1913820
1913821
1913822
1913823
1913824
1913825
1913826
1913827
1913828
1913829
1913830
1913831
1913832
1913833
1913834
1913835
1913836
1913837
1913838
1913839
1913840
1913841
1913842
1913843
1913844
1913845
1913846
1913847
1913848
1913849
1913850
1913851
1913852
1913853
1913854
1913855
1913856
1913857
1913858
1913859
1913860
1913861
1913862
1913863
1913864
1913865
1913866
1913867
1913868
1913869
1913870
1913871
1913872
1913873
1913874
1913875
1913876
1913877
1913878
1913879
1913880
1913881
1913882
1913883
1913884
1913885
1913886
1913887
1913888
1913889
1913890
1913891
1913892
1913893
1913894
1913895
1913896
1913897
1913898
1913899
1913900
1913901
1913902
1913903
1913904
1913905
1913906
1913907
1913908
1913909
1913910
1913911
1913912
1913913
1913914
1913915
1913916
1913917
1913918
1913919
1913920
1913921
1913922
1913923
1913924
1913925
1913926
1913927
1913928
1913929
1913930
1913931
1913932
1913933
1913934
1913935
1913936
1913937
1913938
1913939
1913940
1913941
1913942
1913943
1913944
1913945
1913946
1913947
1913948
1913949
1913950
1913951
1913952
1913953
1913954
1913955
1913956
1913957
1913958
1913959
1913960
1913961
1913962
1913963
1913964
1913965
1913966
1913967
1913968
1913969
1913970
19



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

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

P13348
↓
P13357
10
DAUF
04/25/2024

CERTIFIED VALUES

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

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

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

Tech Tips:

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

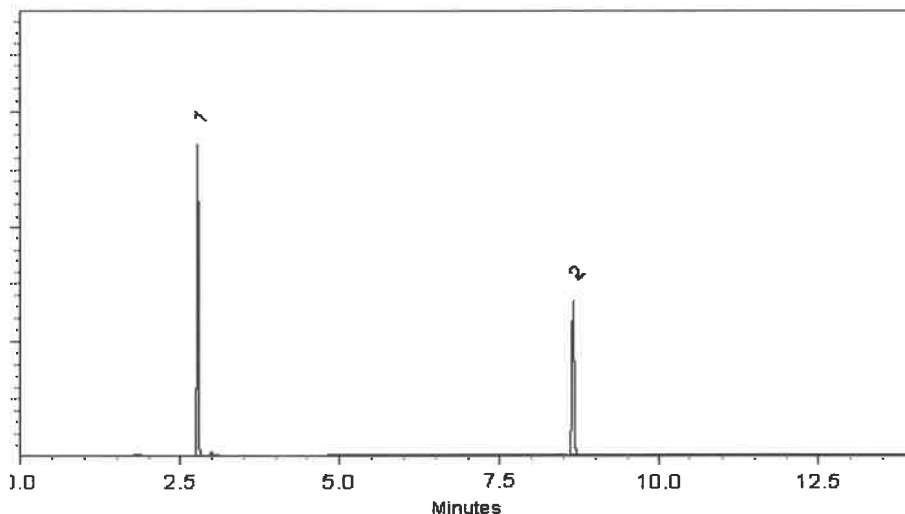
ECD

Split Vent:

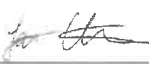
10 ml/min.

Inj. Vol

1µl

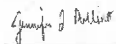


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P13348
↓
P13357
SAUF
04/25/2025
(10)



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32005 **Lot No.:** A0203038
Description : Toxaphene Standard
Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2028 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

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

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

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

P 13358
↓
P 13369
(12)

✓
05-06-2024

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

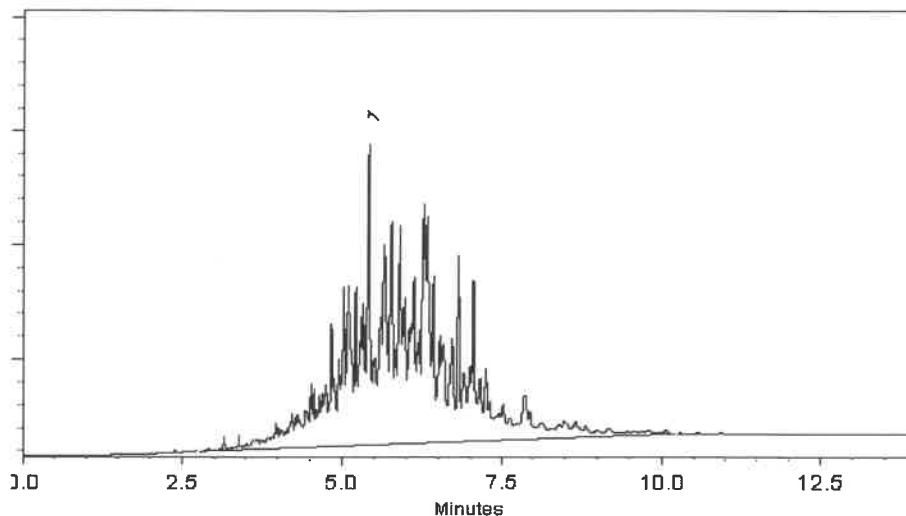
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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


Dakota Parson - Operations Technician I

Date Mixed: 10-Oct-2023

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

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

P13358
↓
P13369
↓
(12)


05-06-2024

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Toxaphene Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

P 13358
↓
P 13369
(12)

✓
05-06-2024

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

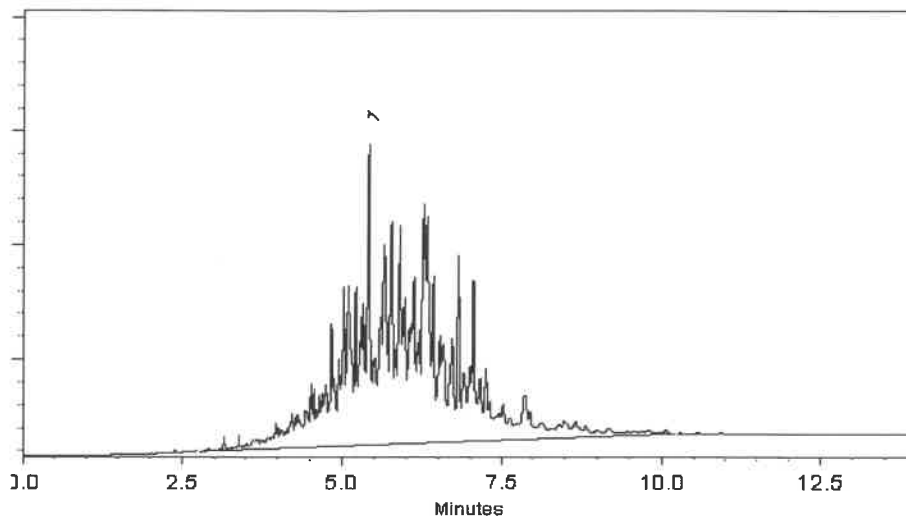
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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


Dakota Parson - Operations Technician I

Date Mixed: 10-Oct-2023

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

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

P13358 } (12)
↓
P13369
↓


05-06-2024

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Toxaphene Standard

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

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

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

Ship: Ambient

P13402
P13406
5/22/2021

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

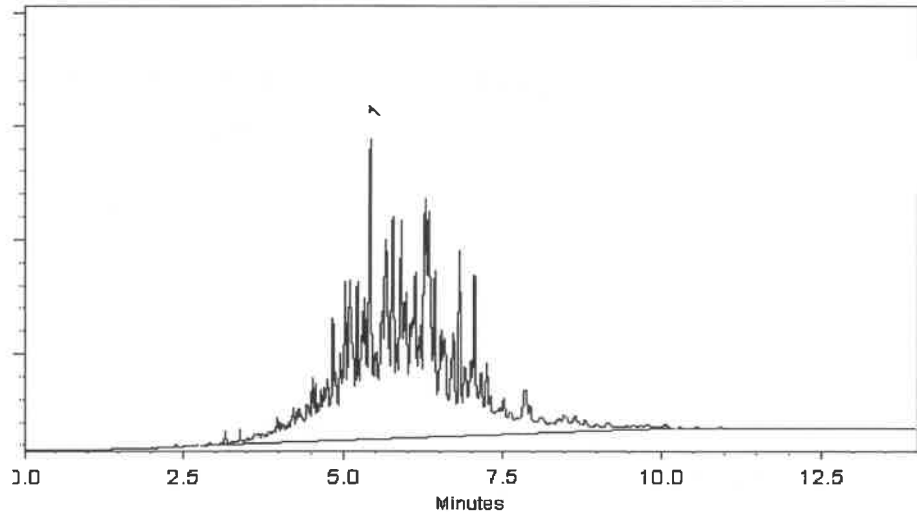
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl

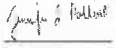


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

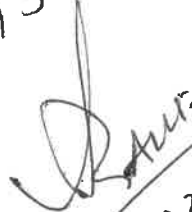
Date Mixed: 10-Oct-2023

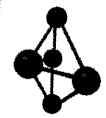
Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

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

P13402
↓
P13406 } (5)

5/22/2024



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

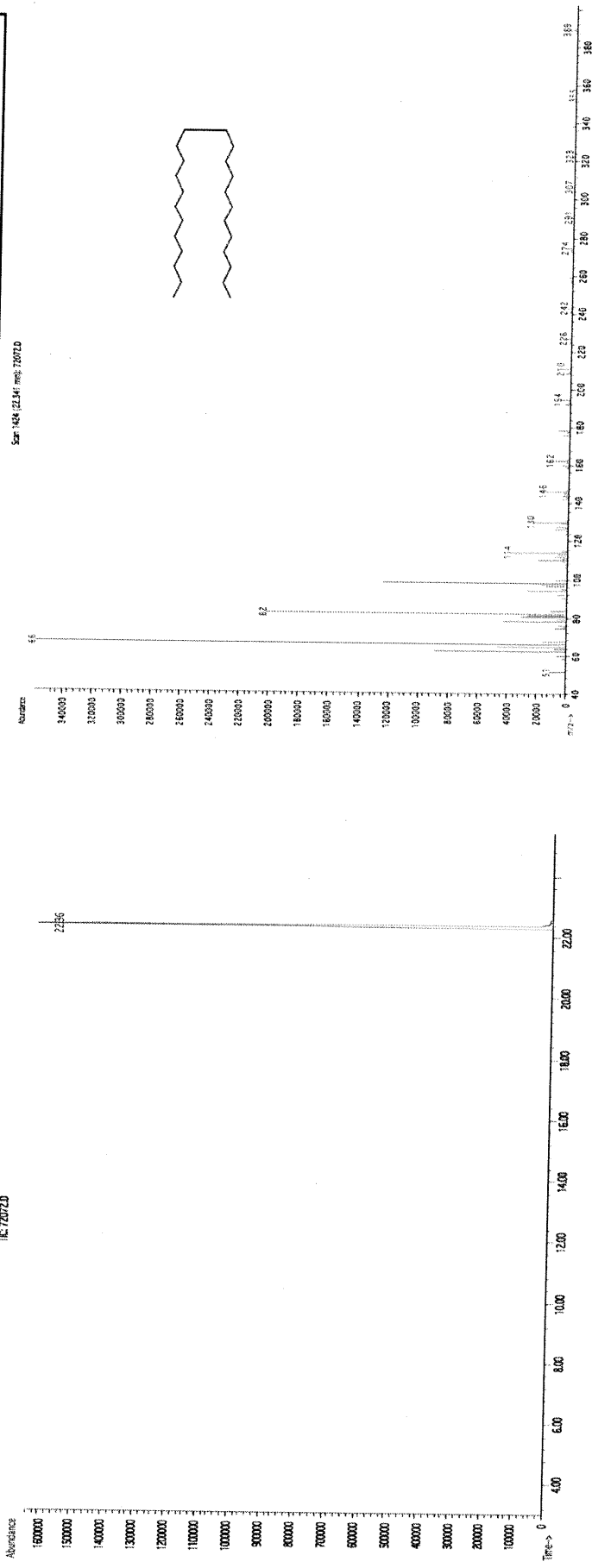
Part Number: 72072
Lot Number: 112018
Description: n-Tetracosane-d50
Expiration Date: 112028
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 2684186
Weight(s) shown below were combined and diluted to (mL): 200.0

Solvent(s): Methylene chloride
Lot#: 102669
Received by
SG on 11/11/19
p9044-p9053
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

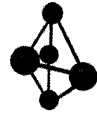
Formulated By: Prashant Chauhan 112018
DATE
Reviewed By: Pedro Rentas 112018
DATE

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

TC 720720



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

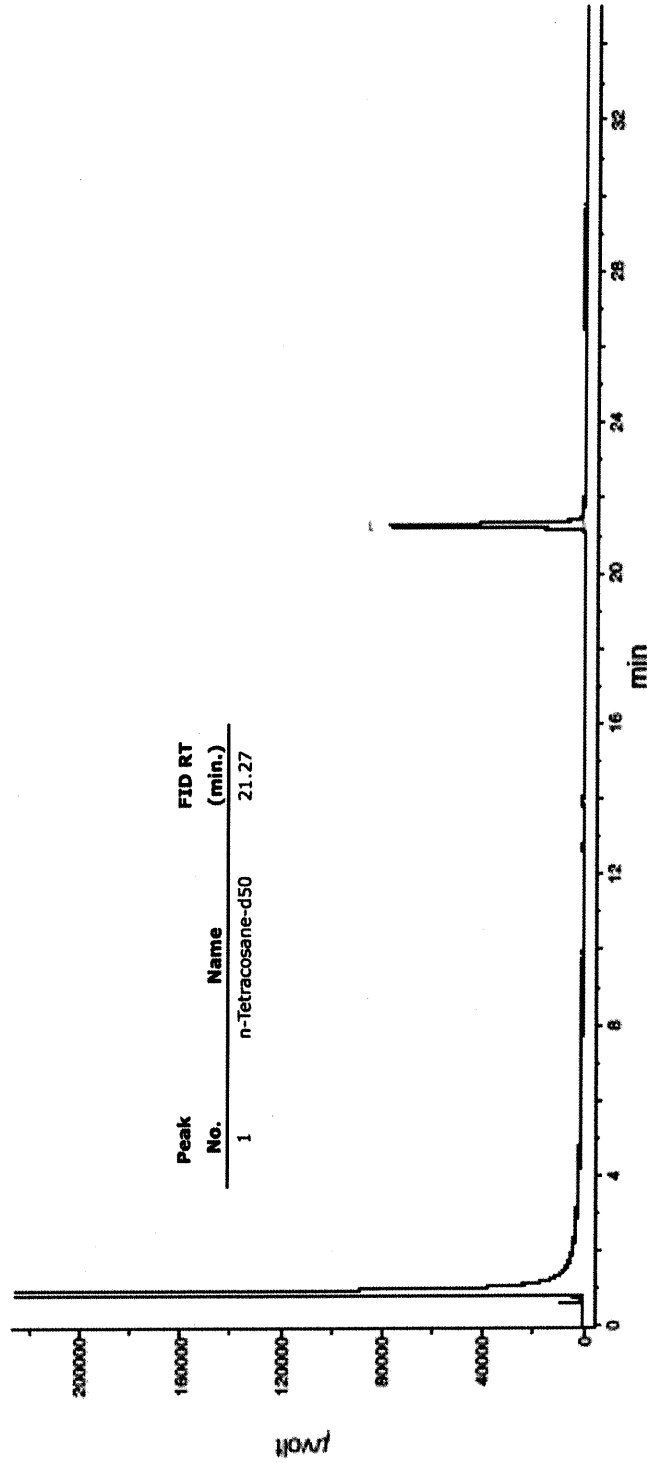


Run 40, "P72072 L112018 [1000µg/mL in MeCl2]"

Run Length: 35.00 min, 20999 points at 10 points/second.
Created: Thu, Nov 22, 2018 at 7:23:18 AM.
Sampled: Sequence "112018-GC4M1", Method "GC4-M1".
Analyzed using Method "GC4-M1".

Comments

GC4-M1 Analysis by Melissa Stonier
Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5µm Film Thickness
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 6.5 mL, Hydrogen (detector) = 30 mL,
Air (detector) = 360 mL
Oven Temp 1 = 50°C (1 min), Rate = 10°C/min, Oven Temp 2 = 300°C (9 min), Total Run Time = 35 Minutes.
Injector Temp = 200°C, FID Temp = 300°C, FID Signal = eDAQ Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 3





SHIPPING DOCUMENTS

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

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Date	Order #
09/03/2024	318988



Ship To Chemtech - NJ ATTN: Sohil Jodhani 284 Sheffield St., #1 Mountainside, NJ 07092 USA	<i>Received by: SJ</i> <i>9/5/2024</i> <i>9:50</i>
--	--

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	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	WP0924	8259-04
1	1	0	PT-HG-WP	WP Mercury	WP0924	8259-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0924	8259-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0924	8259-06
1	1	0	PT-DEM-WP	WP Demand	WP0924	8259-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0924	8259-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0924	8259-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0924	8259-72
1	1	0	PT-SOL-WP	WP Solids	WP0924	8259-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0924	8259-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0924	8259-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0924	8259-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0924	8259-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0924	8259-13
1	1	0	PT-PH-WP	WP pH	WP0924	8259-15
1	1	0	PT-CN-WP	WP Cyanide	WP0924	8259-14
1	1	0	PT-PHEN-WP	WP Phenolics	WP0924	8259-16

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Packing List

Date	Order #
09/03/2024	318988



Ship To

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/5/2024
9:50

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	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-S2-WP	WP Sulfide	WP0924	8259-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0924	8259-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0924	8259-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0924	8259-20
1	1	0	PT-SIO2-WP	WP Silica	WP0924	8259-21
1	1	0	PT-COL-WP	WP Color	WP0924	8259-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0924	8259-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0924	8259-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0924	8259-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0924	8259-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0924	8259-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0924	8259-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0924	8259-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0924	8259-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R39151	R39151-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R39151	R39151-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R39151	R39151-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R39151	R39151-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R39151	R39151-98
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R39151	R39151-108

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488